Search products:

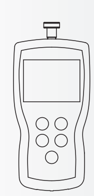
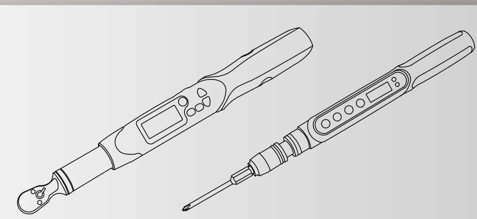
1. According to the product code, search in the code index (in the end of this catalogue)
2. According to the product functions, search following index.

VIDEO

Please scan QR code to watch the basic operation video of the products.

INDEX

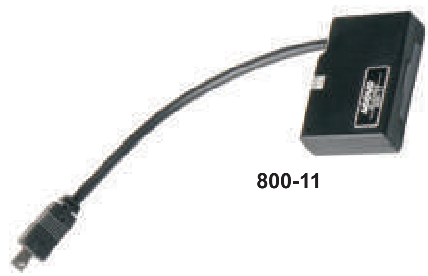
INDEX

SERIES 800 WIRELESS DATA TRANSFER SYSTEM

CR2032

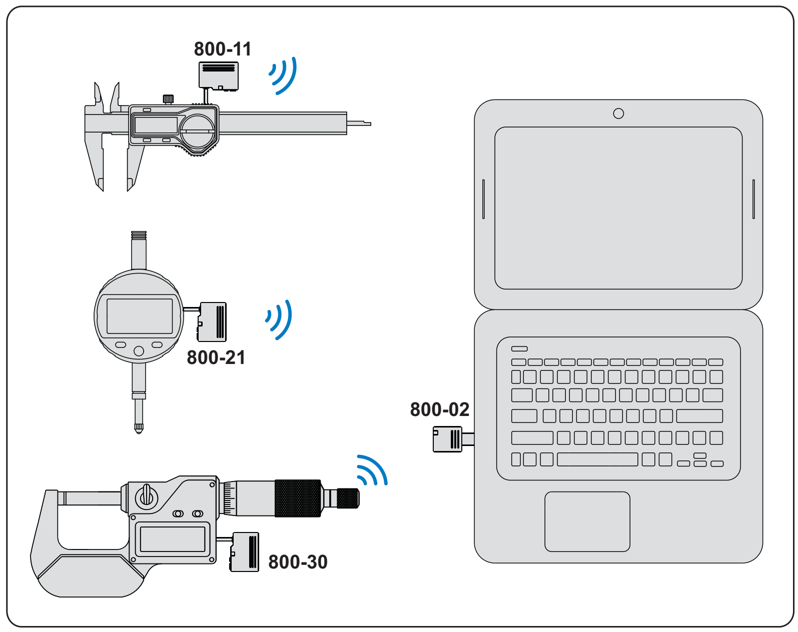
VIDEO



800-11

800-02

- Max. transmission distance: 15m
- For single channel receiver (**code: 800-01**), it can be only connected to one receiver(gages). There is no software, the data can be transferred into Excel, Word directly.
- For multi-channel receiver(**code: 800-02**), it can be connected to Max. 10 receivers(gages). It includes a software, the data can be transferred into the software.



Code	Name	Plug to product	Products
800-01	single channel receiver		for follow measuring tools
800-02	multi-channel receiver		for follow measuring tools
800-10	transmitter		for digital calipers and height gage with following electronics
800-11	transmitter		for digital calipers with following electronics
800-15	transmitter		for digital calipers and height gage with following electronics

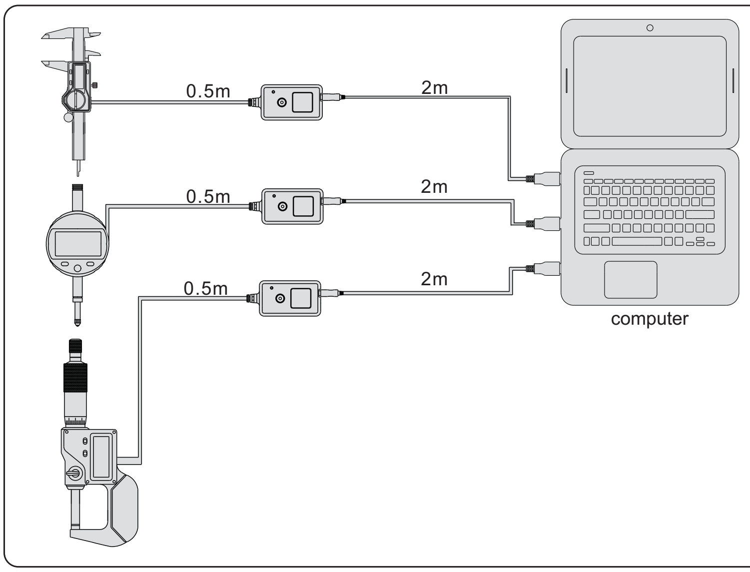
Code	Name	Plug to product	Products
800-16	transmitter		for digital height gage with following electronics
800-21	transmitter		for digital indicators with following electronics
800-20	transmitter		for digital indicators with following electronics
800-30	transmitter		for digital micrometers with data output with following electronics

100/200/300/400/500 USB OUTPUT INTERFACE

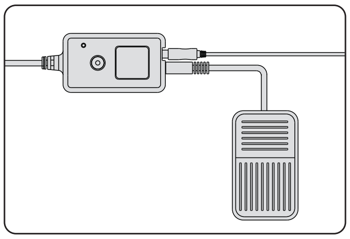
VIDEO

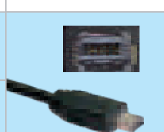
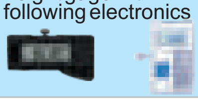
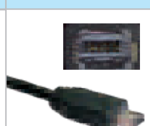
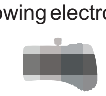
100-11

- The cable without software, push the black button or footswitch, the data can be transferred into Excel, Word directly.
- The cable with software, the data can be transferred into the software at a set interval time automatically.



connect footswitch to transfer the data (code: **400-01**)



Code	Software	Plug to product	Products
100-03	Without		for digital calipers and height gage with following electronics 
100-04	With		
100-11	Without		for digital calipers with following electronics 
100-12	With		
100-13	Without		for micrometers with following electronics 
100-15	Without		for digital calipers and height gage with following electronics 
100-17	Without		for digital calipers with following electronics 
200-03	Without		for digital indicators with following electronics 
200-04	With		

Code	Software	Plug to product	Products
200-01	Without		for digital indicators with following electronics 
200-02	With		
300-01	Without		for digital micrometers with following electronics 
300-03	Without		for digital micrometers with data output with following electronics 
300-04	With		for digital micrometers with data output with following electronics 
500-01	Without		for digital height gage with following electronics 

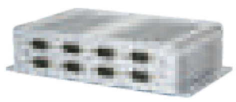
SERIES 200 USB OUTPUT INTERFACE

- Connecting series 208 (software is included)
- Connecting 206 (software is included)

200-92

For following series 208
(counter for linear gauge)

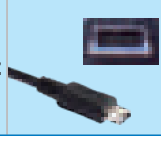
208-004-01



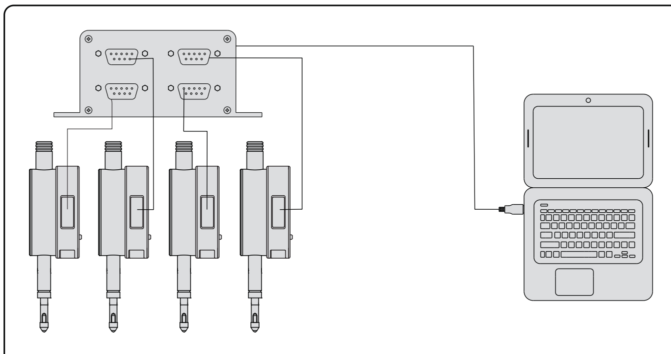
208-008-01

For following 206

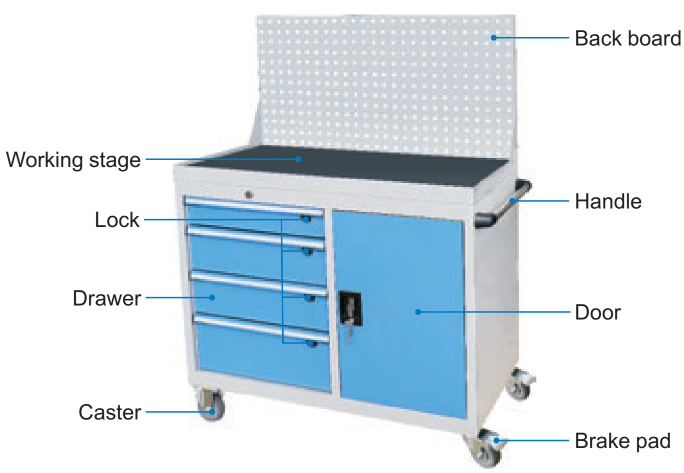
206-010-01

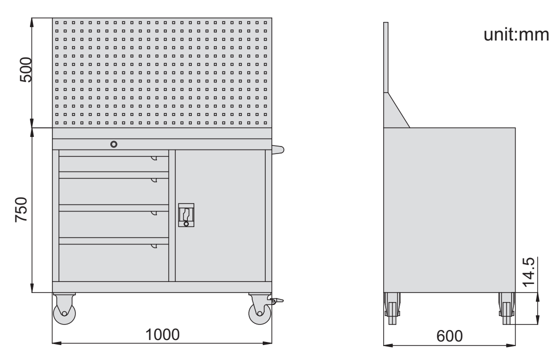
code	Plug to product	Products
200-91		for digital indicators with following electronics 
200-92		for digital indicators with following electronics 

Work with series 208 (counter for linear gauge)

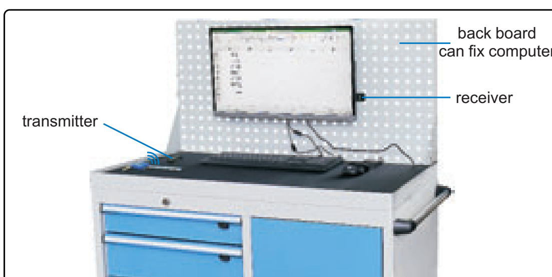


809 MOVABLE WORKBENCH



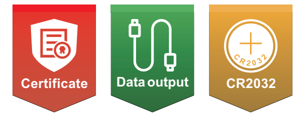


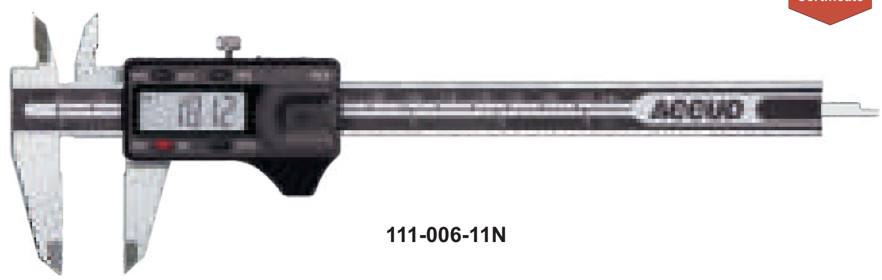
Application



Code	Description	LxWxH
809-040-11	movable workbench	1000x600x1250

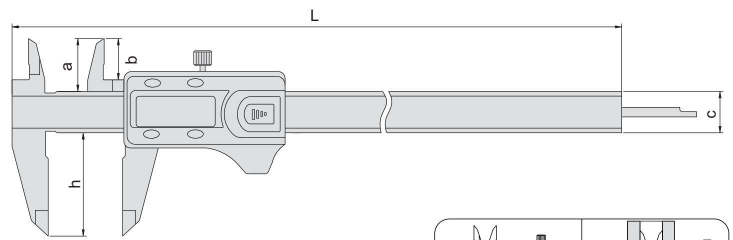
SERIES 111 DIGITAL CALIPER



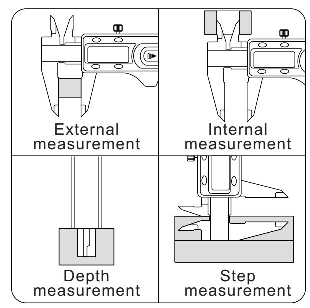


111-006-11N

unit: mm

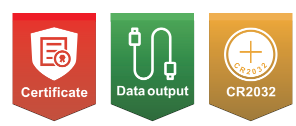


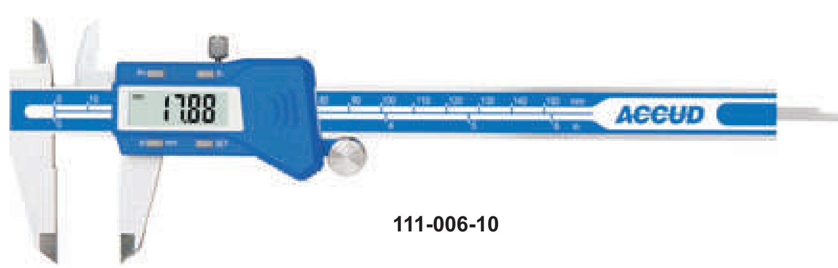
- High accuracy due to using the glass scale
- Resolution: 0.01mm/0.0005"
- Buttons: on/off, zero, mm/in, ABS
- Data output(cable code:100-03 or 100-04)
- Automatic power on/off
- Meet DIN862
- Made of stainless steel



Code	Range	Accuracy	a	b	c	h	L
111-006-11N	0-150mm/0-6"	±0.03mm	21	16	16	40	236
111-008-11N	0-200mm/0-8"	±0.03mm	24	19	16	50	286
111-012-11N	0-300mm/0-12"	±0.03mm	25	20.5	16	60	400

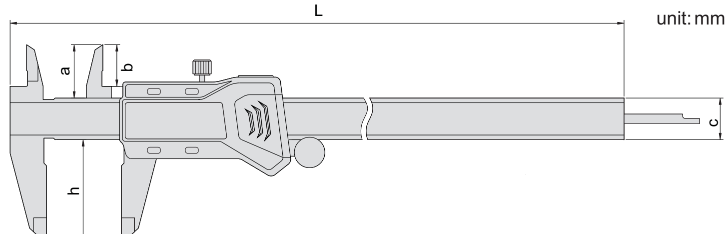
SERIES 111 DIGITAL CALIPER



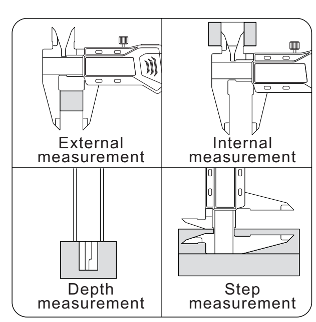


111-006-10

unit: mm



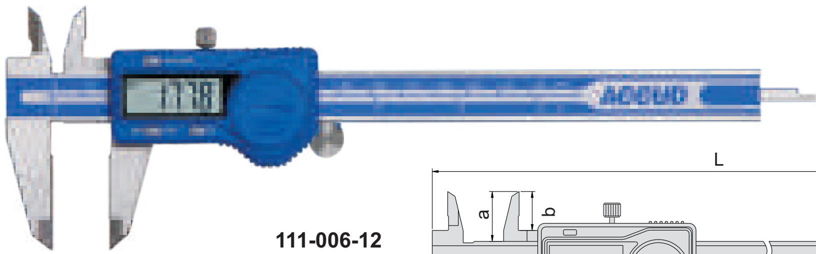
- High accuracy due to using the glass scale
- Resolution: 0.01mm/0.0005"
- Buttons: on/off, zero, mm/in
- Data output(cable code:100-03 or 100-04)
- Automatic power on/off
- Meet DIN862
- Made of stainless steel



Code	Range	Accuracy	a	b	c	h	L
111-006-10	0-150mm/0-6"	±0.03mm	21	16	16	40	236
111-008-10	0-200mm/0-8"	±0.03mm	24	19	16	50	286
111-012-10	0-300mm/0-12"	±0.03mm	25	20.5	16	60	400

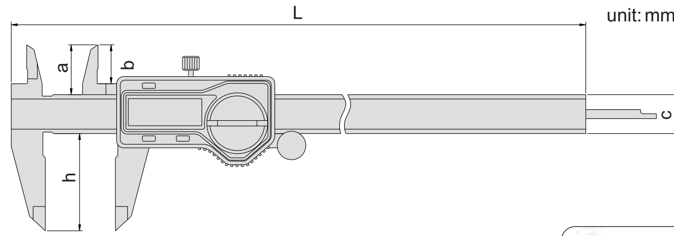
SERIES 111 DIGITAL CALIPER

Certificate | Data output | CR2032

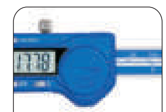


111-006-12

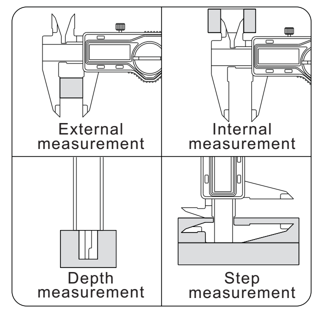
unit: mm



- Resolution: 0.01mm/0.0005"
- Buttons: on/off, zero, mm/inch
- Data output(cable code:100-11 or 100-12)
- Automatic power on/off
- Meet DIN862
- Made of stainless steel



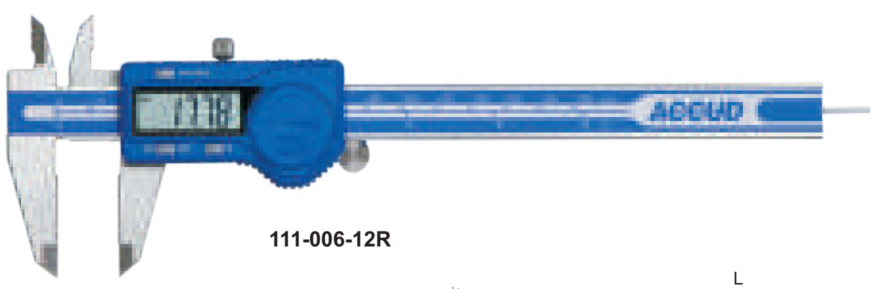
without thumb roller (W)



Code	Range	Accuracy	a	b	c	h	L
111-006-12	0-150mm/0-6"	±0.03mm	21	16	16	40	236
111-008-12	0-200mm/0-8"	±0.03mm	24	19	16	50	286
111-012-12	0-300mm/0-12"	±0.03mm	25	20.5	16	60	400
111-006-12W	0-150mm/0-6"	±0.03mm	21	16	16	40	236
111-008-12W	0-200mm/0-8"	±0.03mm	24	19	16	50	286
111-012-12W	0-300mm/0-12"	±0.03mm	25	20.5	16	60	400

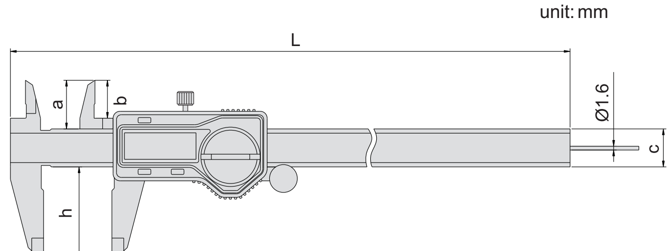
SERIES 111 DIGITAL CALIPER WITH ROUND DEPTH BAR

Certificate | Data output | CR2032

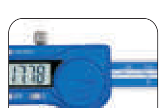


111-006-12R

unit: mm

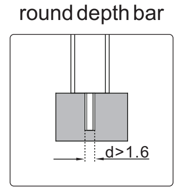


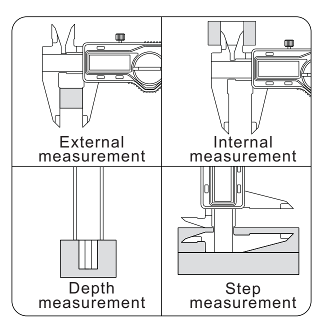
- With round depth bar, for small hole depth measurement
- Resolution: 0.01mm/0.0005"
- Buttons: on/off, zero, mm/inch
- Data output(cable code:100-11 or 100-12)
- Automatic power on/off
- Meet DIN862
- Made of stainless steel



without thumb roller (W)

round depth bar





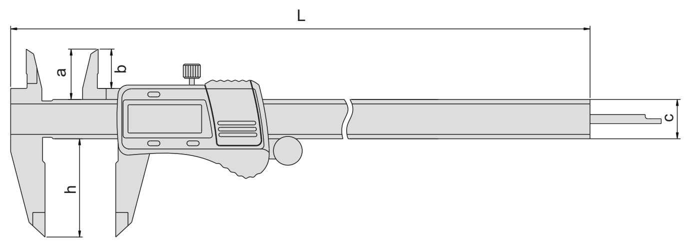
Code	Range	Accuracy	Thumb roller	a	b	c	h	L
111-006-12R	0-150mm/0-6"	±0.03mm	with	21	16	16	40	236
111-006-12RW	0-150mm/0-6"	±0.03mm	without	21	16	16	40	236

SERIES 111 DIGITAL CALIPER WITH METAL COVER

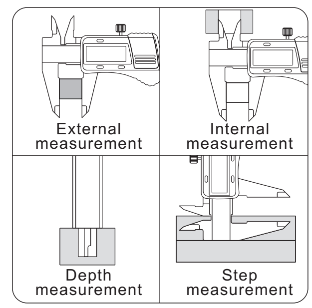
Certificate CR2032

111-006-16

unit: mm



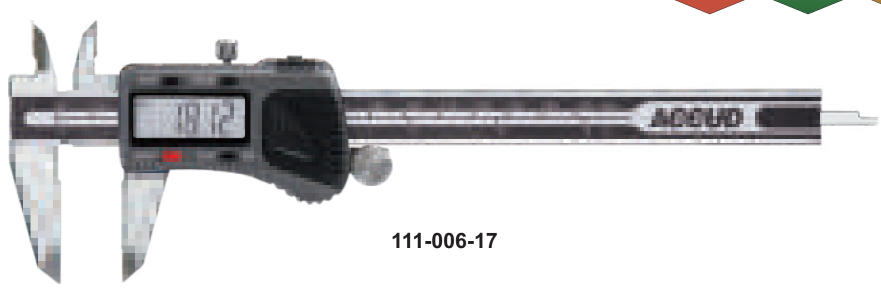
- Resolution: 0.01mm/0.0005"
- Buttons: on/off, zero, mm/inch
- Made of stainless steel



Code	Range	Accuracy	a	b	c	h	L
111-006-16	0-150mm/0-6"	±0.03mm	21	16	16	40	236
111-008-16	0-200mm/0-8"	±0.03mm	24	19	16	50	286
111-012-16	0-300mm/0-12"	±0.03mm	25	20.5	16	60	400

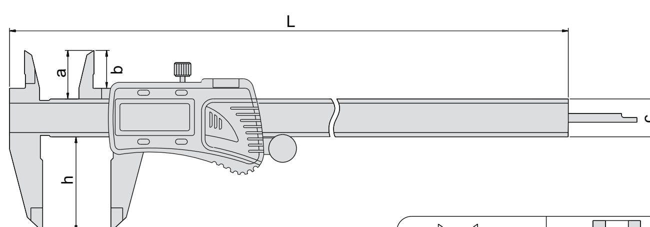
SERIES 111 DIGITAL CALIPER

Certificate Data output CR2032 ABS

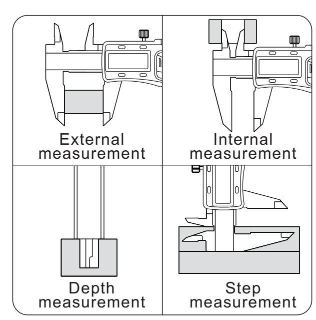


111-006-17

unit: mm



- High accuracy
- Absolute system
- Resolution: 0.01mm/0.0005"
- Buttons: on/off, ABS/ZERO, inch/mm, ORIGIN
- Data output(cable code:100-17)
- Meet DIN862
- Made of stainless steel

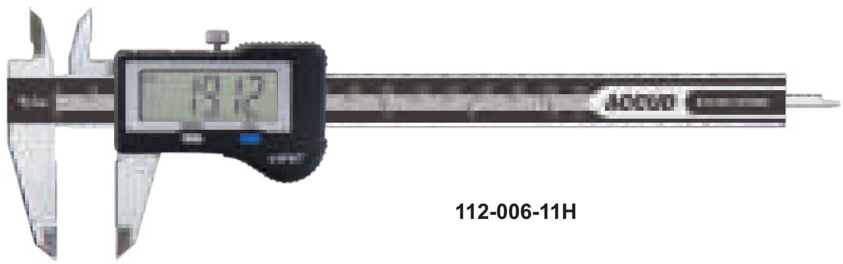


Code	Range	Accuracy	a	b	c	h	L
111-006-17	0-150mm/0-6"	±0.02mm	21	16.5	16	40	236
111-008-17	0-200mm/0-8"	±0.02mm	24	19	16	50	286
111-012-17	0-300mm/0-12"	±0.03mm	26	20.5	16	60	400

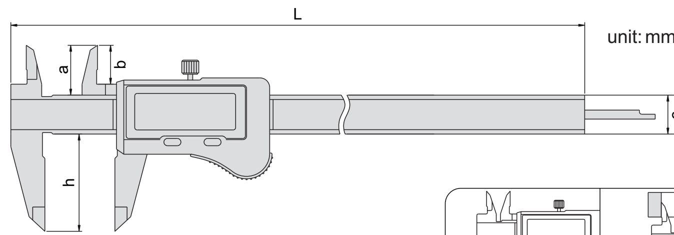
SERIES 112 IP67 DIGITAL CALIPER

Certificate | CR2032 | IP67 | ABS

SYLVAC SYSTEM — Switzerland —

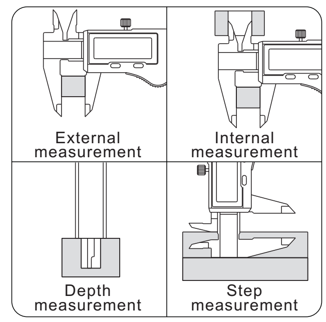


112-006-11H



unit: mm

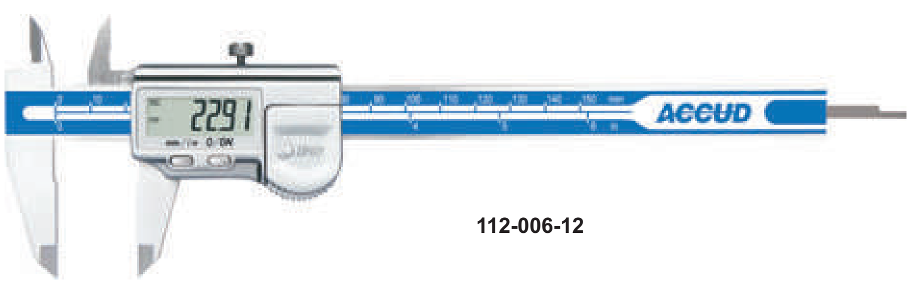
- IP67 protection level
- Absolute measuring system
- Resolution: 0.01mm/0.0005"
- Automatic power off
- Buttons: zero, mm/inch, data preset
- Made of stainless steel



Code	Range	Accuracy	a	b	c	h	L
112-006-11H	0-150mm/0-6"	±0.02mm	21	16.5	16	40	236
112-008-11H	0-200mm/0-8"	±0.02mm	24	19	16	50	286
112-012-11H	0-300mm/0-12"	±0.03mm	25	20.5	16	60	400

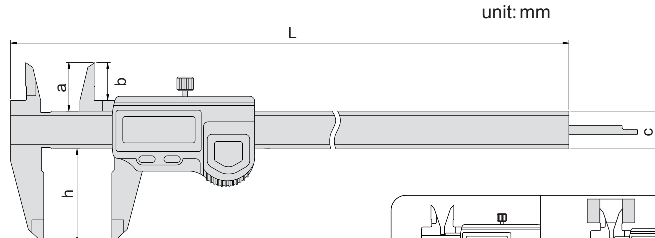
SERIES 112 IP67 DIGITAL CALIPER

Certificate | CR1632 | IP67 | ABS

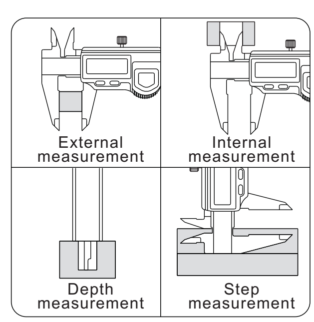


112-006-12

unit: mm



- IP67 protection level
- Absolute measuring system
- Resolution: 0.01mm/0.0005"
- Automatic power off
- Buttons: on/off, zero, mm/inch



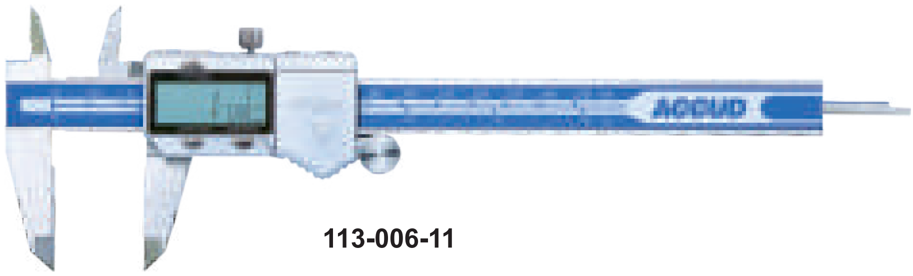
Code	Range	Accuracy	a	b	c	h	L
112-006-12	0-150mm/0-6"	±0.03mm	21	16.5	16	40	236
112-008-12	0-200mm/0-8"	±0.03mm	24	20	16	50	286
112-012-12	0-300mm/0-12"	±0.03mm	25	20.5	16	60	400

ACCUD

CALIPER

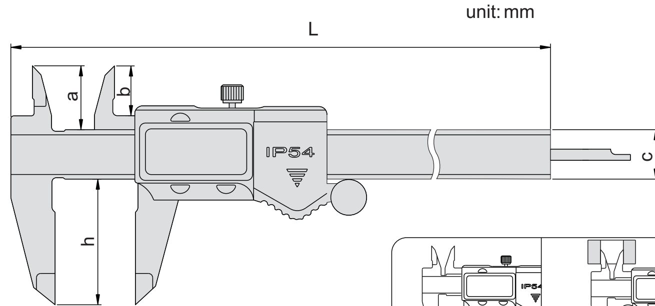
SERIES 113 FRACTIONAL DIGITAL CALIPER

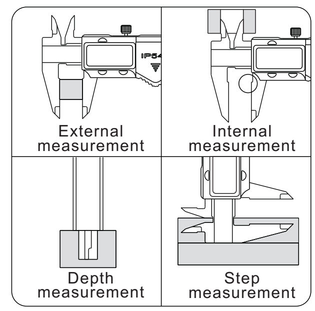
Certificate CR2032



113-006-11

unit: mm



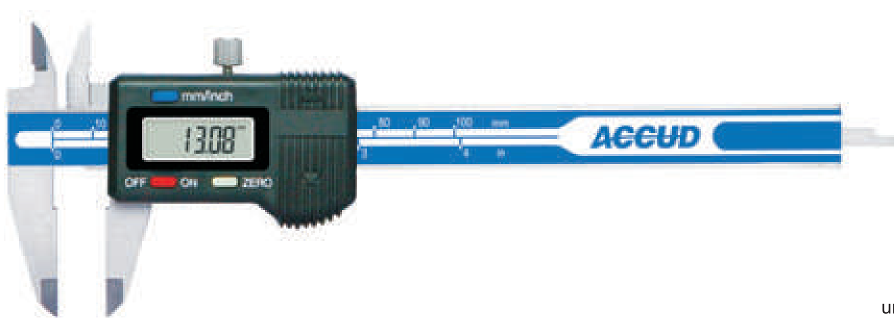


- With fraction reading
- Resolution: 0.01mm, 0.0005", 1/128"
- Buttons: on/off, zero, mm/inch
- Made of stainless steel

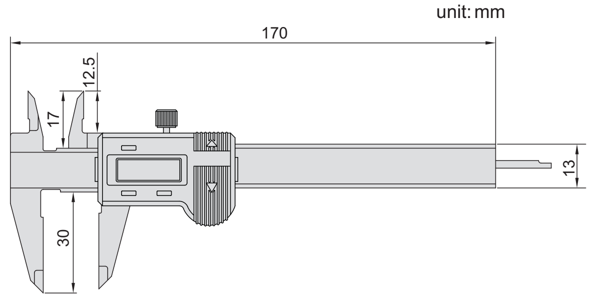
Code	Range	Accuracy	a	b	c	h	L
113-006-11	0-150mm/0-6"	±0.03mm	21	16	16	40	236
113-008-11	0-200mm/0-8"	±0.03mm	24	19	16	50	286
113-012-11	0-300mm/0-12"	±0.03mm	25	20.5	16	60	400

114 MINI DIGITAL CALIPER

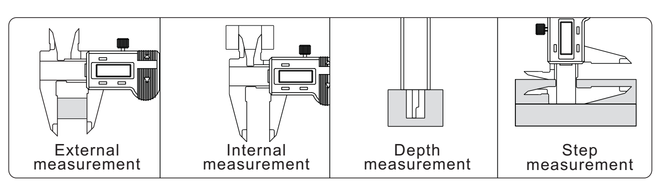
Certificate LR44



unit: mm



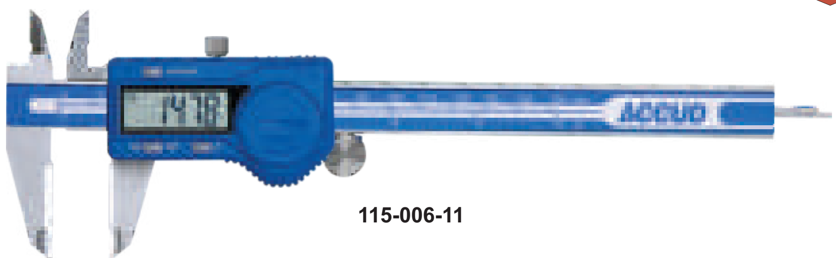
- Resolution: 0.01mm/0.0005"
- Buttons: on/off, zero, mm/inch
- Meet DIN862
- Made of stainless steel



Code	Range	Accuracy
114-004-11	0-100mm/0-4"	±0.02mm

SERIES 115 DIGITAL CALIPER

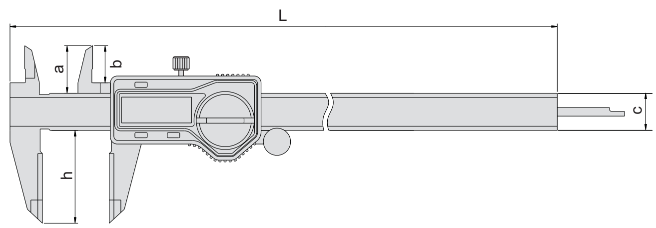
Certificate Data output CR2032

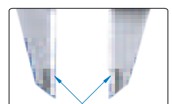


115-006-11

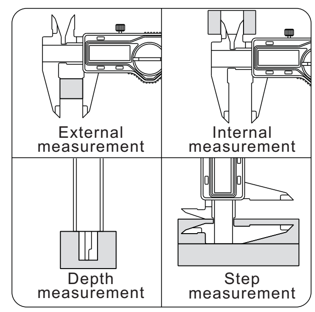
- Ceramic tipped jaws for outside measurements, good wear- resistance, non-magnetic, non-conductive
- Resolution: 0.01mm/0.0005"
- Buttons: on/off, zero, mm/inch
- Data output(cable code:100-11 or 100-12)
- Automatic power on/off
- Made of stainless steel

unit: mm





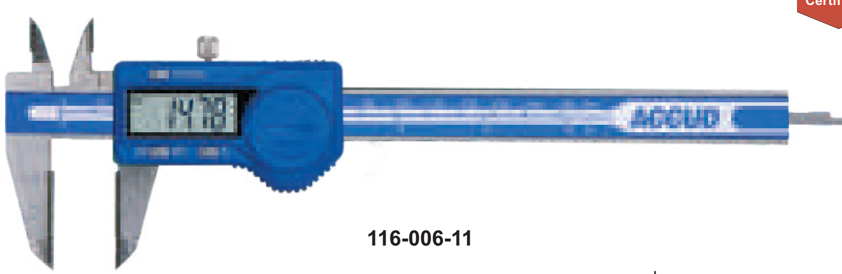
Ceramic tipped jaws



Code	Range	Accuracy	a	b	c	h	L
115-006-11	0-150mm/0-6"	±0.03mm	21	16.5	16	40	236
115-008-11	0-200mm/0-8"	±0.03mm	24	19	16	50	286
115-012-11	0-300mm/0-12"	±0.03mm	26	20.5	16	60	400

SERIES 116 DIGITAL CALIPER WITH CARBIDE TIPPED JAWS

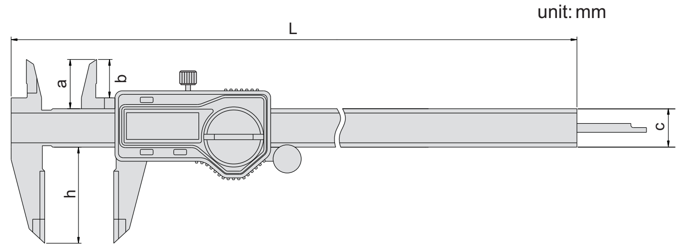
Certificate Data output CR2032

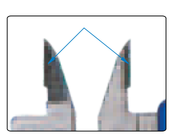


116-006-11

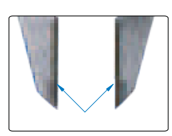
- Carbide tipped jaws for inside and outside measurements, good wear- resistance
- Resolution: 0.01mm/0.0005"
- Buttons: on/off, zero, mm/inch
- Data output(cable code:100-11 or 100-12)
- Automatic power on/off
- Made of stainless steel

unit: mm

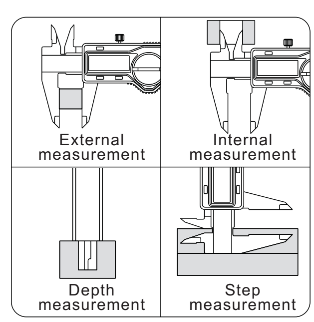




Carbide tipped jaws



Carbide tipped jaws

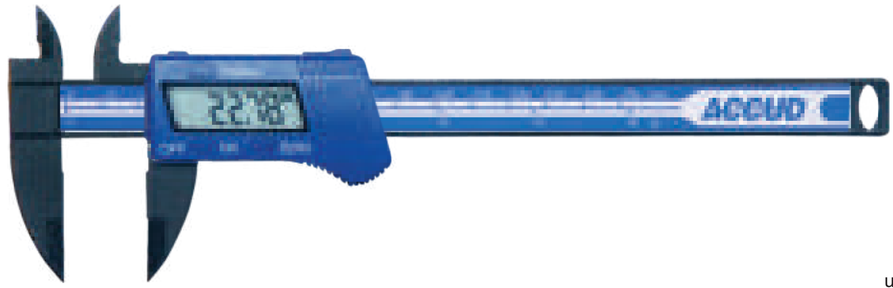


Code	Range	Accuracy	a	b	c	h	L
116-006-11	0-150mm/0-6"	±0.03mm	21	16	16	40	236
116-008-11	0-200mm/0-8"	±0.03mm	24	19	16	50	286
116-012-11	0-300mm/0-12"	±0.03mm	25	20.5	16	60	400

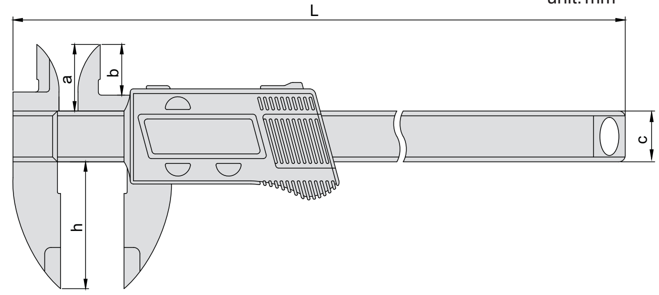
CALIPER

117 PLASTIC DIGITAL CALIPER

LR44

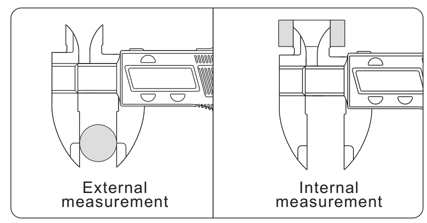


unit: mm



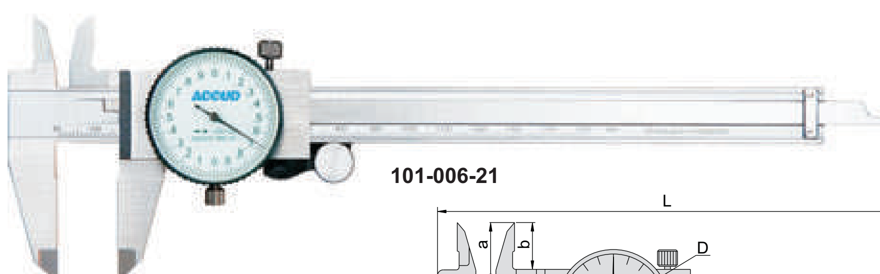
- Made of hard plastic
- Resolution: 0.01mm/0.0005"
- Buttons: on/off, zero, mm/inch

Code	Range	Accuracy	a	b	c	h	L
117-006-11	0-150mm/0-6"	±0.1mm	21	16	16	40	243



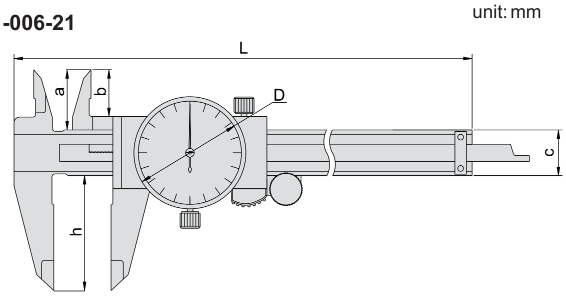
SERIES 101 DIAL CALIPER

Certificate
Shockproof



101-006-21

unit: mm



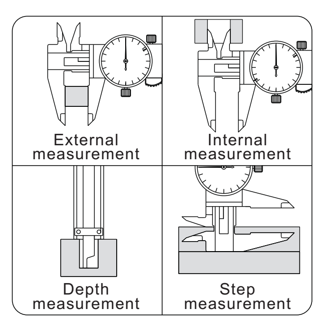
- Shockproof dial indicator
- Made of stainless steel

Graduation 0.01mm

Code	Range	Accuracy	a	b	c	h	D	L
101-006-11	0-150mm	±0.03mm	21	16.5	16	40	Ø39	233
101-008-11	0-200mm	±0.03mm	24	19	16	50	Ø39	288
101-012-11	0-300mm	±0.04mm	30	25	20	64	Ø44	390

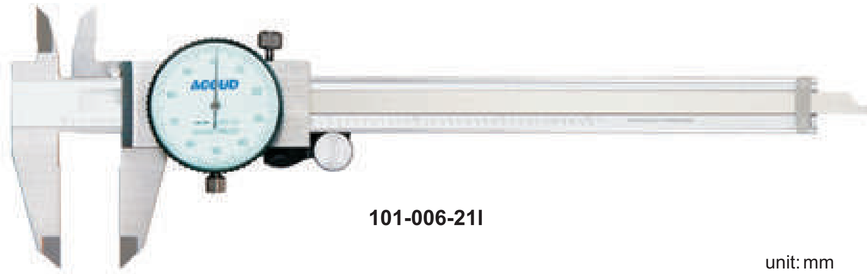
Graduation 0.02mm

Code	Range	Accuracy	a	b	c	h	D	L
101-006-21	0-150mm	±0.03mm	21	16.5	16	40	Ø39	233
101-008-21	0-200mm	±0.03mm	24	19	16	50	Ø39	288
101-012-21	0-300mm	±0.04mm	30	25	20	64	Ø44	390

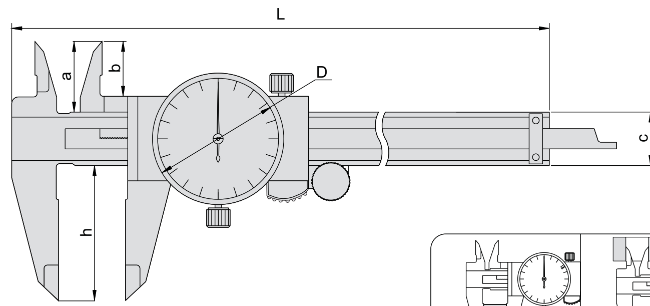


SERIES 101 INCH DIAL CALIPER

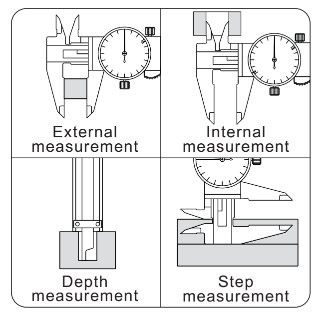
Shockproof


101-006-21I

unit: mm



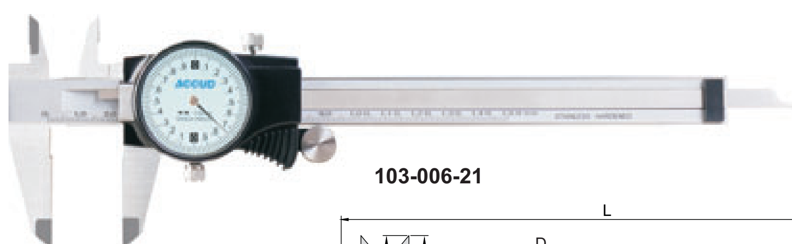
- Shockproof dial indicator
- Made of stainless steel



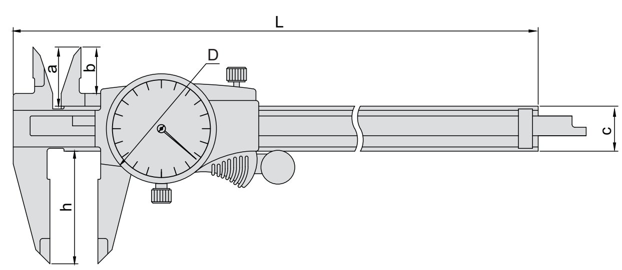
Code	Range	Graduation	Accuracy	a	b	c	h	D	L
101-006-21I	0-6"	0.001in	±0.0015in	21	16.5	16	40	Ø39	233
101-008-21I	0-8"	0.001in	±0.0020in	24	19	16	50	Ø39	288
101-012-21I	0-12"	0.001in	±0.0020in	30	25	20	64	Ø44	390

SERIES 103 DIAL CALIPER

Certificate Shockproof


103-006-21

unit: mm



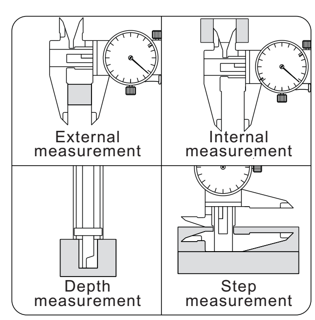
- Shockproof dial indicator
- Made of stainless steel

Graduation 0.01mm

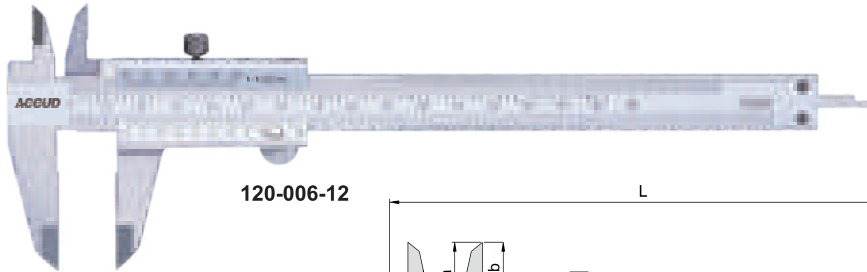
Code	Range	Accuracy	a	b	c	h	D	L
103-006-11	0-150mm	±0.03mm	21	16.5	16	40	Ø39	233
103-008-11	0-200mm	±0.03mm	24	19	16	50	Ø39	288
103-012-11	0-300mm	±0.04mm	30	25	20	64	Ø44	390

Graduation 0.02mm

Code	Range	Accuracy	a	b	c	h	D	L
103-006-21	0-150mm	±0.03mm	21	16.5	16	40	Ø39	233
103-008-21	0-200mm	±0.03mm	24	19	16	50	Ø39	288
103-012-21	0-300mm	±0.04mm	30	25	20	64	Ø44	390

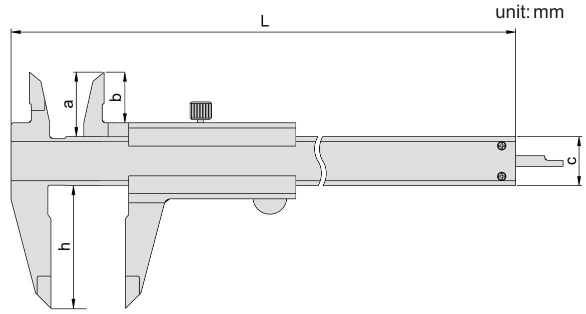


SERIES 120 VERNIER CALIPER



120-006-12

unit: mm



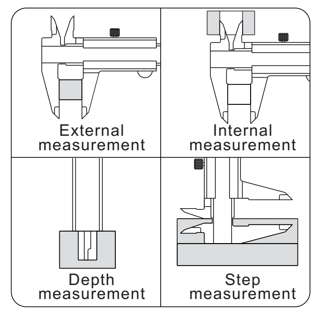
- Meet DIN862
- Satin chrome plated reading surface
- Made of stainless steel

Graduation 0.02mm/0.001"

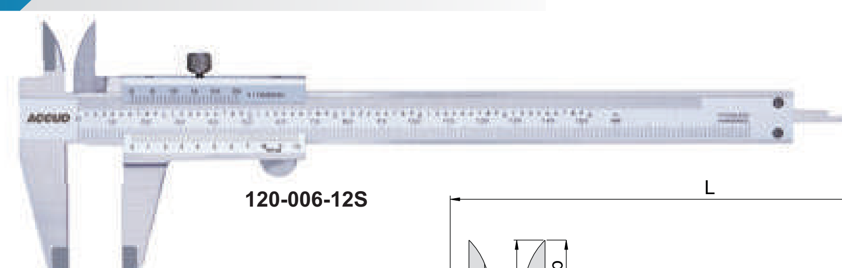
Code	Range	Accuracy	a	b	c	h	L
120-006-12	0-150mm/0-6"	±0.03mm	20.5	15.5	16	40	235
120-008-12	0-200mm/0-8"	±0.03mm	23.5	19	16	50	290
120-012-12	0-300mm/0-12"	±0.03mm	27.5	22	20	64	414

Graduation 0.05mm/1/128"

Code	Range	Accuracy	a	b	c	h	L
120-006-14	0-150mm/0-6"	±0.05mm	20.5	15.5	16	40	235
120-008-14	0-200mm/0-8"	±0.05mm	23.5	19	16	50	290
120-012-14	0-300mm/0-12"	±0.05mm	27.5	22	20	64	414

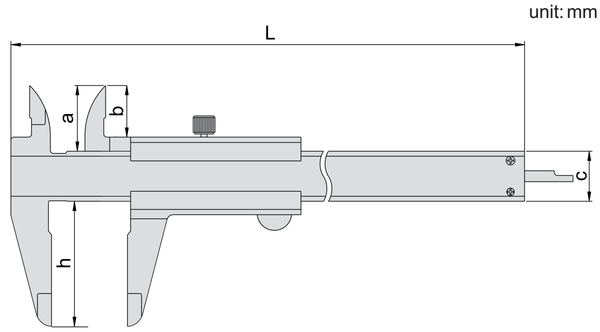


SERIES 120 VERNIER CALIPER



120-006-12S

unit: mm



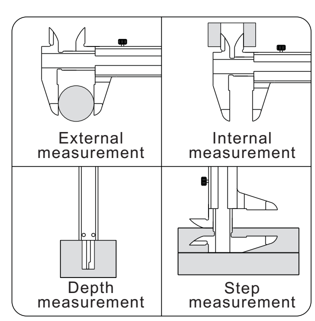
- Meet DIN862
- Satin chrome plated reading surface
- Made of stainless steel

Graduation 0.02mm/0.001"

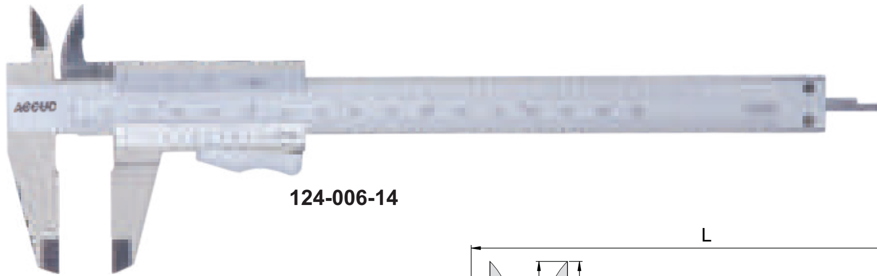
Code	Range	Accuracy	a	b	c	h	L
120-006-12S	0-150mm/0-6"	±0.03mm	20.5	15.5	16	40	235
120-008-12S	0-200mm/0-8"	±0.03mm	23.5	19	16	50	290
120-012-12S	0-300mm/0-12"	±0.03mm	27.5	22	20	64	414

Graduation 0.05mm/1/128"

Code	Range	Accuracy	a	b	c	h	L
120-006-14S	0-150mm/0-6"	±0.05mm	20.5	15.5	16	40	235
120-008-14S	0-200mm/0-8"	±0.05mm	23.5	19	16	50	290
120-012-14S	0-300mm/0-12"	±0.05mm	27.5	22	20	64	414

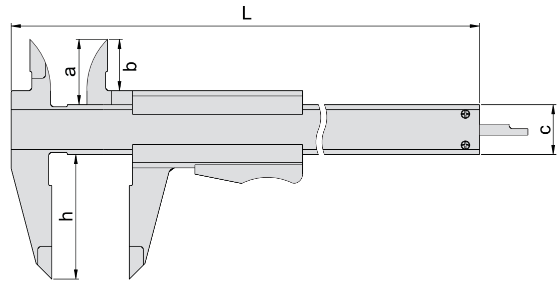


SERIES 124 VERNIER CALIPER



124-006-14

unit: mm



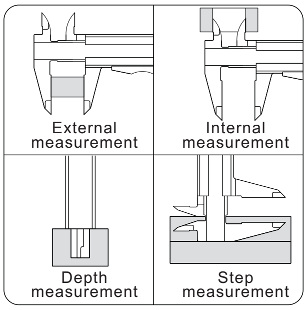
- With auto thumb clamp
- Meet DIN862
- Satin chrome plated reading surface
- Made of stainless steel

Graduation 0.02mm/0.001"

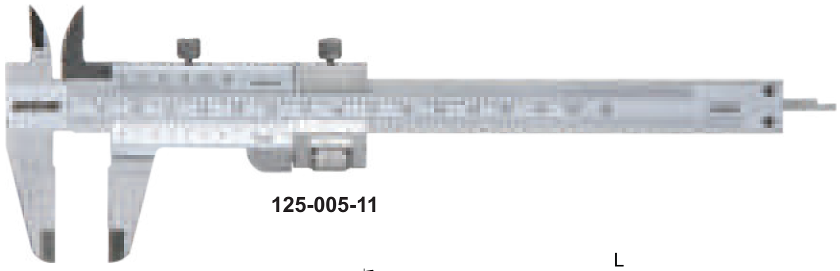
Code	Range	Accuracy	a	b	c	h	L
124-006-12	0-150mm/0-6"	±0.03mm	20.5	15.5	16	40	235
124-008-12	0-200mm/0-8"	±0.03mm	23.5	19	16	50	290

Graduation 0.05mm/1/128"

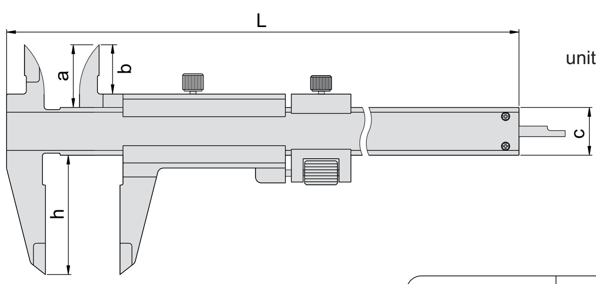
Code	Range	Accuracy	a	b	c	h	L
124-006-14	0-150mm/0-6"	±0.05mm	20.5	15.5	16	40	235
124-008-14	0-200mm/0-8"	±0.05mm	23.5	19	16	50	290



SERIES 125 VERNIER CALIPER



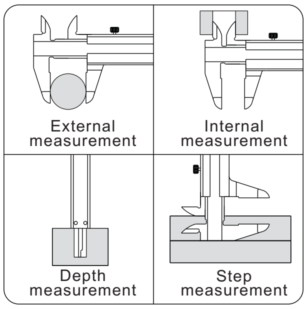
125-005-11



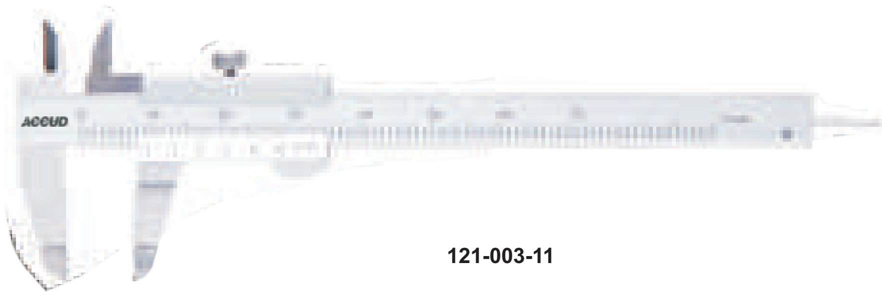
unit: mm

- With fine adjustment
- Graduation: 0.02mm/0.001"
- Meet DIN862
- Satin chrome plated reading surface
- Made of stainless steel

Code	Range	Accuracy	a	b	c	h	L
125-005-11	0-130mm/0-5"	±0.03mm	20.5	16.5	16	40	230
125-007-11	0-180mm/0-7"	±0.03mm	23.5	19	16	50	295
125-011-11	0-280mm/0-11"	±0.03mm	27.5	22	20	60	410

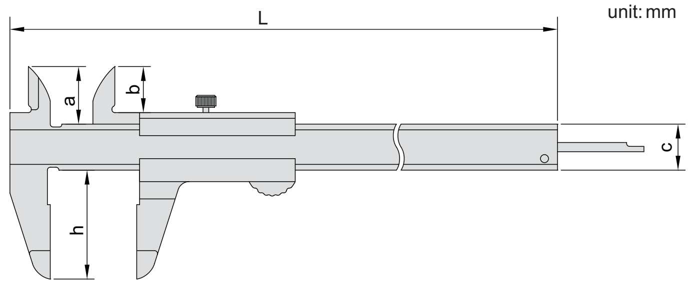


SERIES 121 MINI VERNIER CALIPER



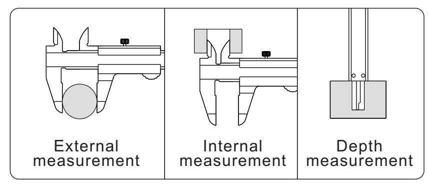
121-003-11

unit: mm

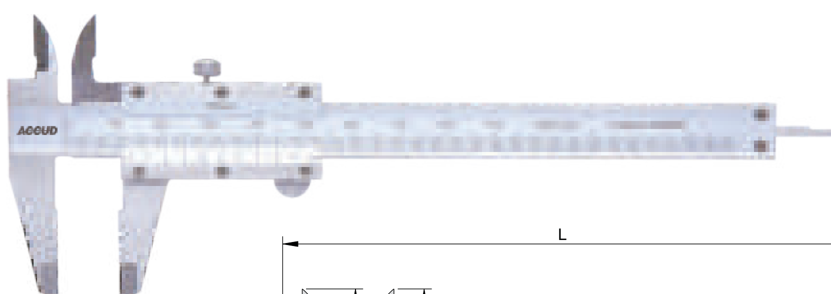


- Meet DIN862
- Satin chrome plated reading surface
- Made of stainless steel

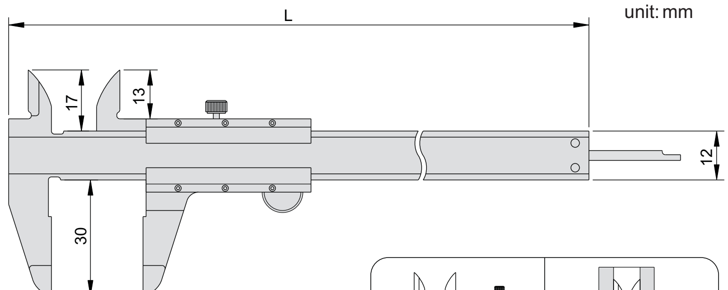
Code	Range	Graduation	Accuracy	a	b	h	L	C
121-003-11	0-70mm	0.05mm	±0.05mm	10	8	19	113	8
121-004-11	0-100mm	0.05mm	±0.05mm	17	13	30	160	12



121 MINI VERNIER CALIPER

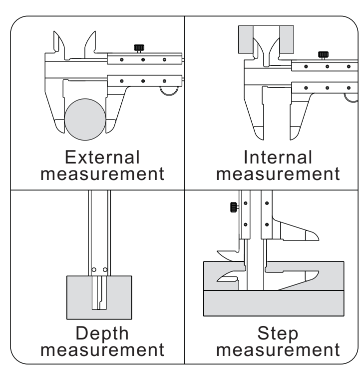


unit: mm

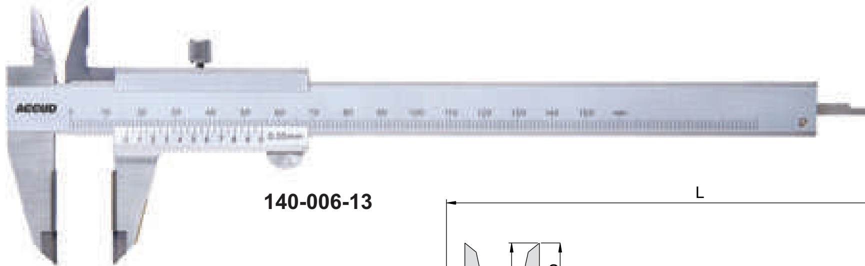


- Meet DIN862
- Made of stainless steel
- Satin chrome plated reading surface

Code	Range	Graduation	Accuracy	L
121-004-11B	0-100mm	0.05mm	±0.05mm	160

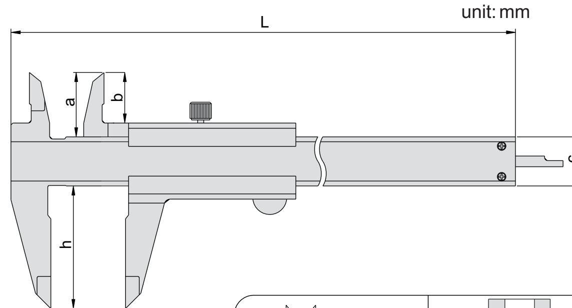


SERIES 140 VERNIER CALIPER WITH CARBIDE TIPPED JAWS

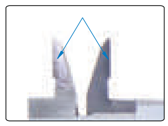


140-006-13

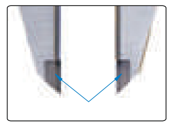
unit: mm



- Carbide tipped jaws
- Meet DIN862
- Satin chrome reading surface
- Made of stainless steel



Carbide tipped jaws



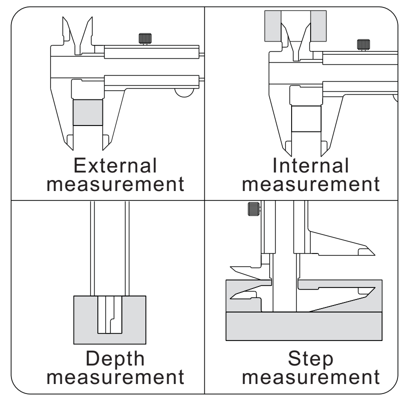
Carbide tipped jaws

Graduation 0.02mm

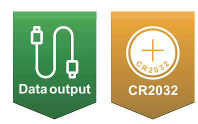
Code	Range	Accuracy	a	b	c	h	L
140-006-11	0-150mm	±0.03mm	21	16.5	16	40	235
140-008-11	0-200mm	±0.03mm	24	19	16	50	295
140-012-11	0-300mm	±0.03mm	25	20	17	60	410

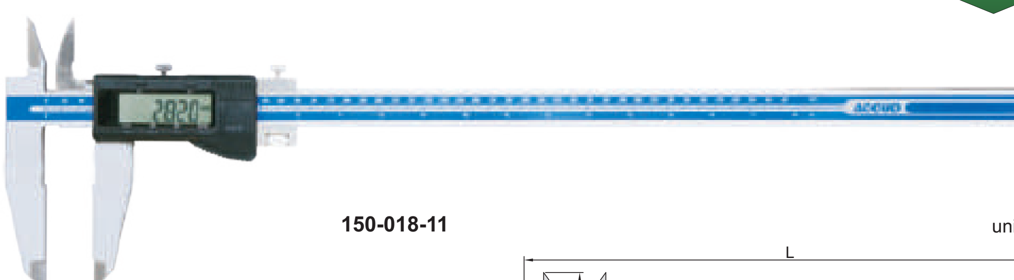
Graduation 0.05mm

Code	Range	Accuracy	a	b	c	h	L
140-006-13	0-150mm	±0.03mm	21	16.5	16	40	235
140-008-13	0-200mm	±0.03mm	24	19	16	50	295
140-012-13	0-300mm	±0.03mm	25	20	17	60	410



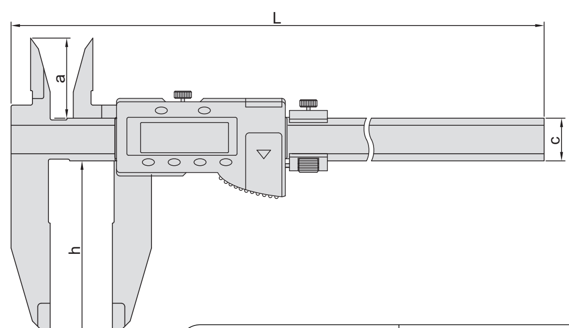
SERIES 150 DIGITAL CALIPER





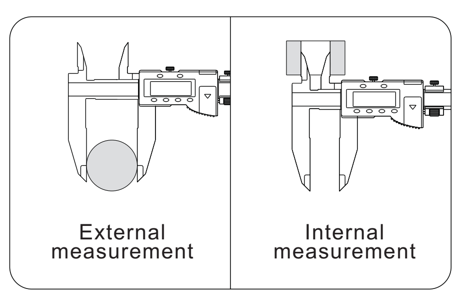
150-018-11

unit: mm



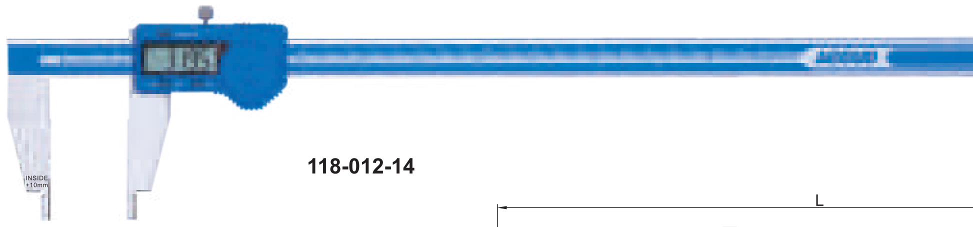
- Resolution: 0.01mm/0.0005"
- Button function: on/off, zero, mm/inch, ABS, data preset
- Data output(cable code:100-15)
- Made of stainless steel

Code	Range	Accuracy	a	c	h	L
150-018-11	0-450mm/0-18"	±0.05mm	45	24	100	610
150-024-11	0-600mm/0-24"	±0.05mm	45	24	100	770
150-040-11	0-1000mm/0-40"	±0.08mm	60	31	150	1220



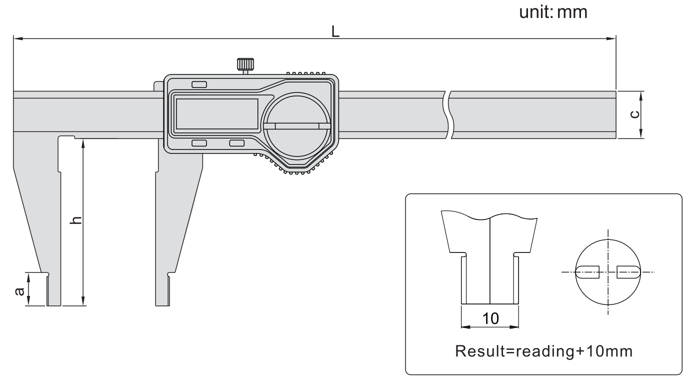
SERIES 118 DIGITAL CALIPER

Data output | CR2032



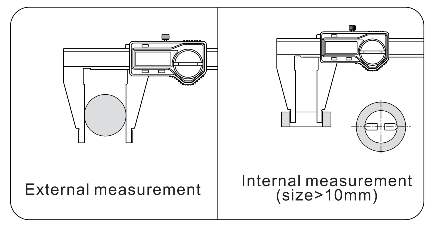
118-012-14

unit: mm



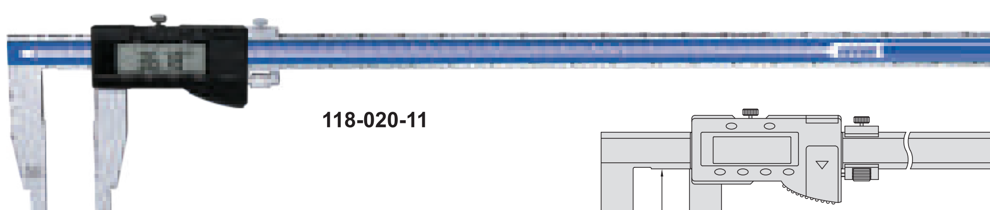
- Resolution: 0.01mm/0.0005"
- Buttons: on/off, zero, mm/inch
- Automatic power on/off
- Data output(cable code:100-11 or 100-12)
- Made of stainless steel

Code	Range	Accuracy	a	c	h	L
118-008-11	0-200mm/0-8"	±0.03mm	12	17	60	320
118-012-14	0-300mm/0-12"	±0.04mm	12	17	60	420
118-012-15	0-300mm/0-12"	±0.06mm	12	17	90	420



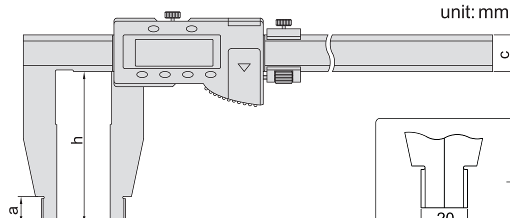
SERIES 118 DIGITAL CALIPER

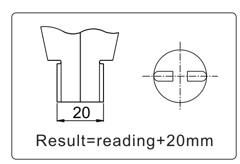
Data output | CR2032



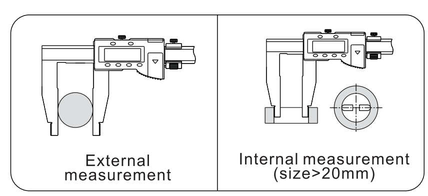
118-020-11

unit: mm





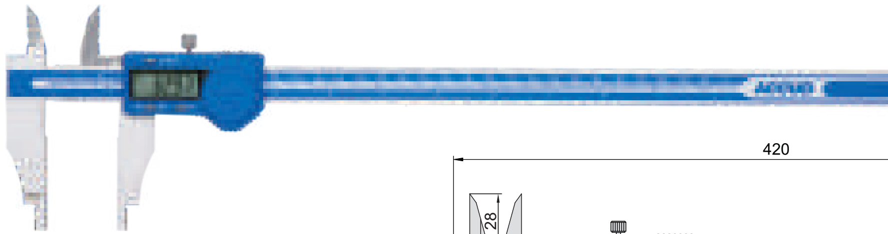
Code	Range	Accuracy	a	c	h
118-012-11	0-300mm/0-12"	±0.04mm	18	24	100
118-012-12	0-300mm/0-12"	±0.05mm	18	24	150
118-012-13	0-300mm/0-12"	±0.05mm	18	24	200
118-020-11	0-500mm/0-20"	±0.05mm	18	24	100
118-020-12	0-500mm/0-20"	±0.06mm	18	24	150
118-020-13	0-500mm/0-20"	±0.06mm	24	32	200
118-020-14	0-500mm/0-20"	±0.08mm	24	42	300
118-024-11	0-600mm/0-24"	±0.05mm	18	24	100
118-024-12	0-600mm/0-24"	±0.06mm	18	24	150
118-024-13	0-600mm/0-24"	±0.06mm	24	32	200
118-024-15	0-600mm/0-24"	±0.08mm	24	42	300
118-040-11	0-1000mm/0-40"	±0.08mm	24	32	150
118-040-12	0-1000mm/0-40"	±0.08mm	24	32	200
118-040-13	0-1000mm/0-40"	±0.10mm	24	42	300
118-060-11	0-1500mm/0-60"	±0.11mm	24	42	150
118-080-11	0-2000mm/0-80"	±0.14mm	24	42	150

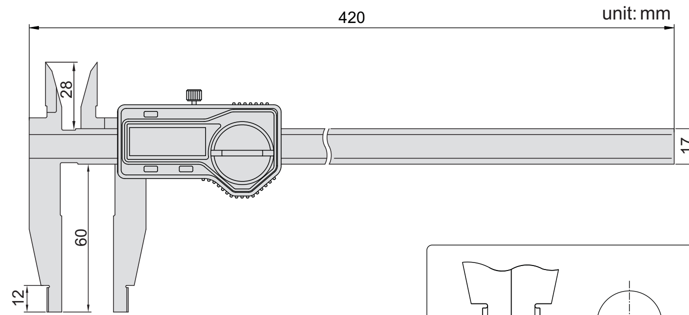


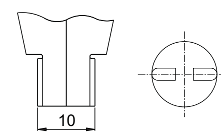
- Resolution: 0.01mm/0.0005"
- Buttons: on/off, zero, mm/inch, ABS, data preset
- Data output(cable code:100-15)
- Made of stainless steel

119 DIGITAL CALIPER

Data output CR2032



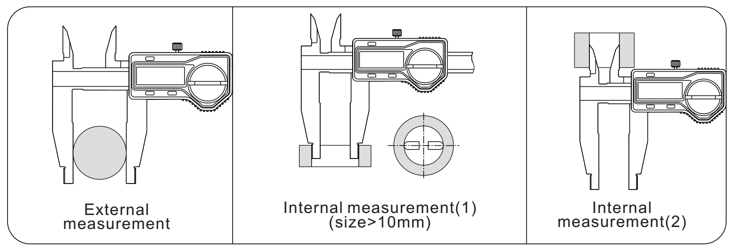




Result=reading+10mm

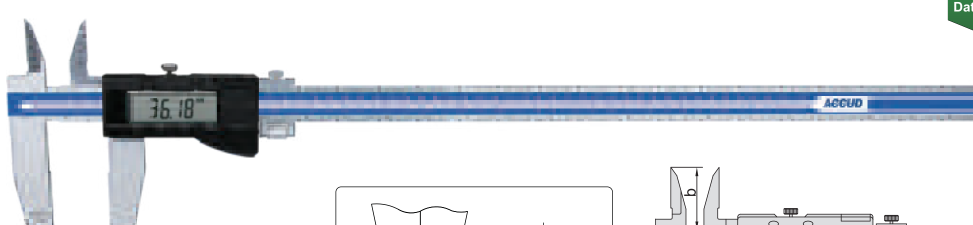
- Resolution: 0.01mm/0.0005"
- Buttons: on/off, zero, mm/inch
- Automatic power on/off
- Data output(cable code:100-11 or 100-12)
- Made of stainless steel

Code	Range	Accuracy
119-012-11	0-300mm/0-12"	±0.04mm

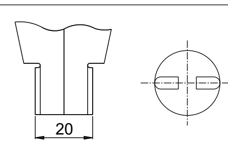


SERIES 119 DIGITAL CALIPER

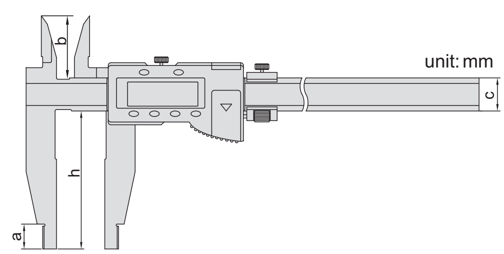
Data output CR2032



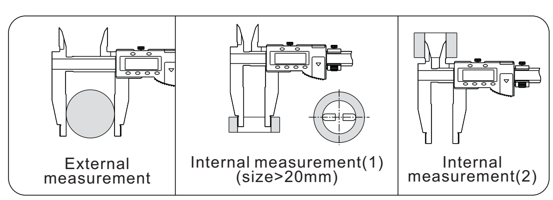
119-020-11



Result=reading+20mm



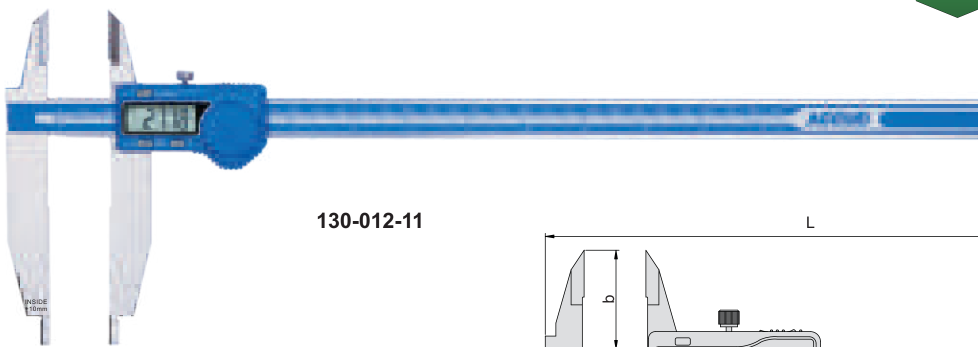
Code	Range	Accuracy	a	b	c	h
119-012-12	0-300mm/0-12"	±0.05mm	18	45	24	100
119-020-11	0-500mm/0-20"	±0.05mm	18	45	24	100
119-020-12	0-500mm/0-20"	±0.06mm	18	45	24	150
119-020-13	0-500mm/0-20"	±0.06mm	24	45	32	200
119-024-11	0-600mm/0-24"	±0.05mm	18	45	24	100
119-024-12	0-600mm/0-24"	±0.06mm	18	45	24	150
119-024-14	0-600mm/0-24"	±0.06mm	24	45	32	200
119-040-11	0-1000mm/0-40"	±0.08mm	24	60	32	150
119-040-12	0-1000mm/0-40"	±0.08mm	24	60	32	200
119-060-11	0-1500mm/0-60"	±0.11mm	24	60	42	150
119-060-12	0-1500mm/0-60"	±0.12mm	24	60	42	200



- Resolution: 0.01mm/0.0005"
- Buttons: on/off, zero, mm/inch, ABS, data preset
- Data output(cable code:100-15)
- Made of stainless steel

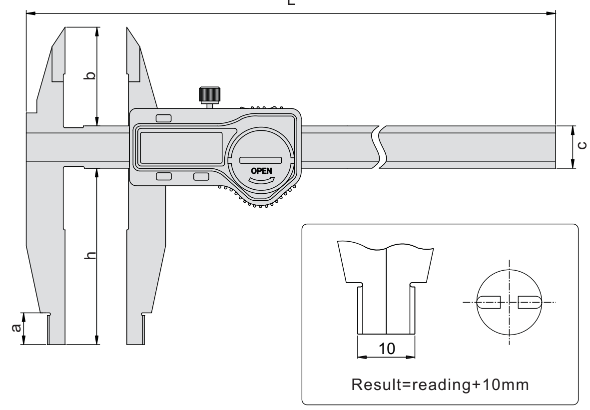
SERIES 130 DIGITAL CALIPER

Data output CR2032



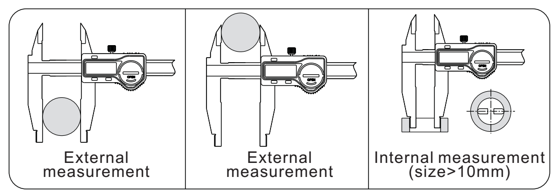
130-012-11

unit: mm



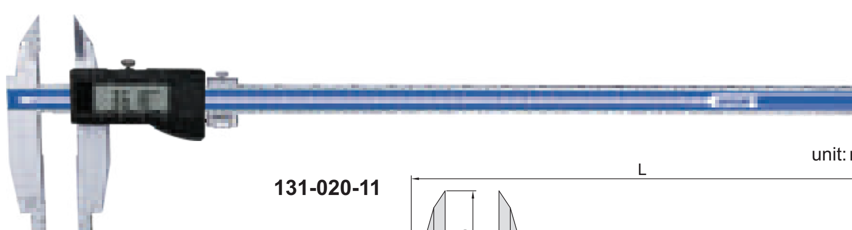
- Resolution: 0.01mm/0.0005"
- Buttons: on/off, zero, mm/inch
- Automatic power on/off
- Data output(cable code:100-11 or 100-12)
- Made of stainless steel

Code	Range	Accuracy	a	b	c	h	L
130-008-11	0-200mm/0-8"	±0.03mm	12	38	17	60	320
130-012-11	0-300mm/0-12"	±0.04mm	12	38	17	60	420
130-012-12	0-300mm/0-12"	±0.04mm	12	38	17	90	420



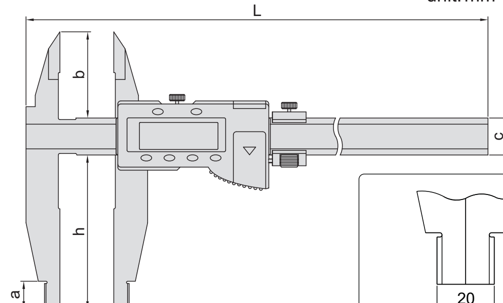
SERIES 131 DIGITAL CALIPER

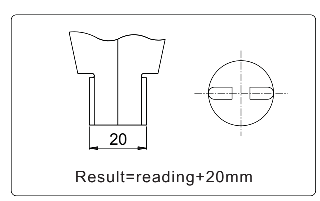
Data output CR2032



131-020-11

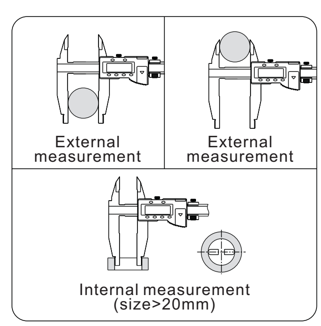
unit: mm



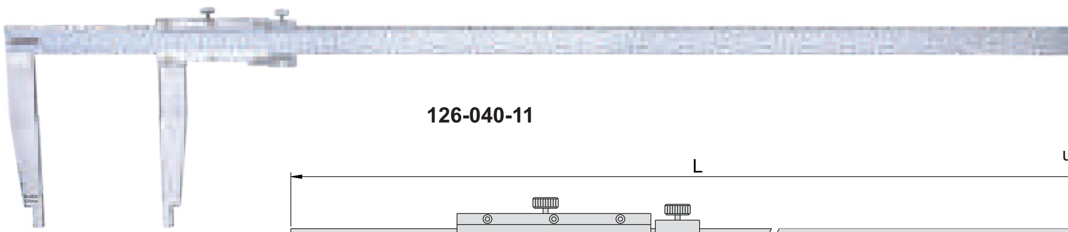


- Resolution: 0.01mm/0.0005"
- Buttons: on/off, zero, mm/inch, ABS, data preset
- Data output(cable code:100-15)
- Made of stainless steel

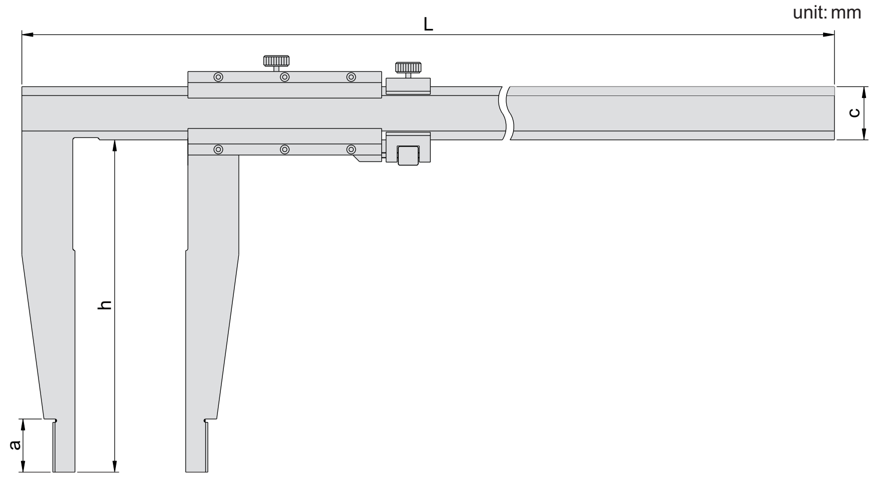
Code	Range	Accuracy	a	b	c	h	L
131-012-11	0-300mm/0-12"	±0.05mm	18	56	24	100	420
131-020-11	0-500mm/0-20"	±0.05mm	18	56	24	100	675
131-020-12	0-500mm/0-20"	±0.06mm	18	56	24	150	675
131-024-11	0-600mm/0-24"	±0.05mm	18	56	24	100	770
131-028-11	0-800mm/0-32"	±0.07mm	24	67	31	150	1025
131-040-11	0-1000mm/0-40"	±0.08mm	24	67	31	150	1220



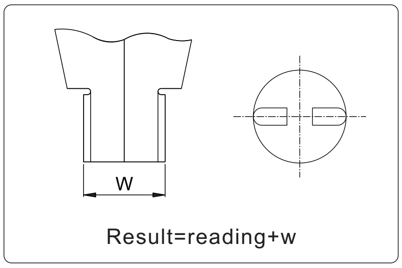
SERIES 126 VERNIER CALIPER

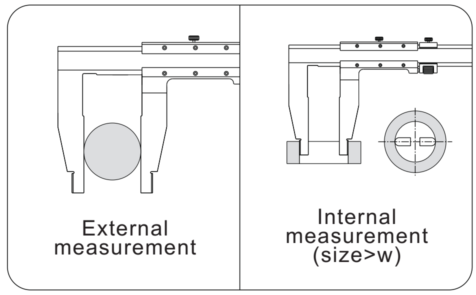


126-040-11



- With fine adjustment
- Made of stainless steel
- Satin chrome reading surface





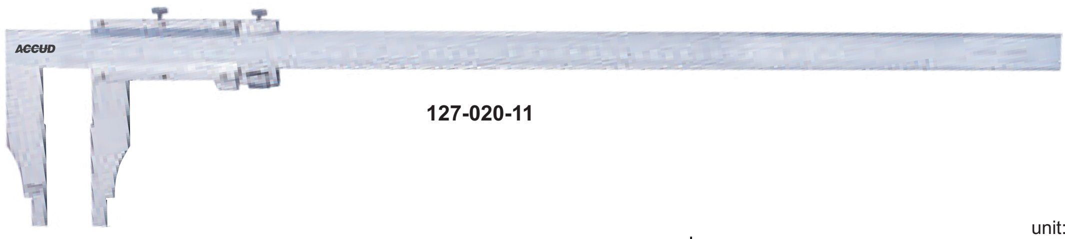
Graduation 0.02mm/0.001"

Code	Range	Accuracy	a	c	h	w	L
126-012-11	0-300mm/0-12"	±0.05mm	12	17	90	10	410
126-012-12	0-300mm/0-12"	±0.05mm	18	24	150	20	470
126-020-11	0-500mm/0-20"	±0.06mm	18	24	150	20	670
126-020-12	0-500mm/0-20"	±0.06mm	18	24	200	20	670
126-024-11	0-600mm/0-24"	±0.06mm	18	24	150	20	770
126-024-12	0-600mm/0-24"	±0.08mm	24	32	250	20	770
126-040-11	0-1000mm/0-40"	±0.08mm	24	32	200	20	1220
126-040-12	0-1000mm/0-40"	±0.11mm	24	32	300	20	1330
126-120-12	0-3000mm/0-120"	±0.26mm	24	50	300	20	3360

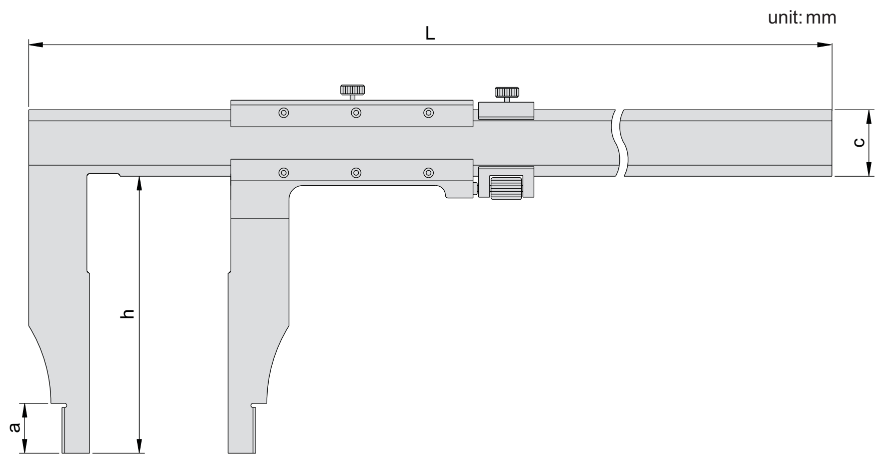
Graduation 0.05mm/1/128"

Code	Range	Accuracy	a	c	h	w	L
126-012-51	0-300mm/0-12"	±0.07mm	12	17	90	10	410
126-012-52	0-300mm/0-12"	±0.07mm	18	24	150	20	470
126-020-51	0-500mm/0-20"	±0.08mm	18	24	150	20	670
126-020-52	0-500mm/0-20"	±0.08mm	18	24	200	20	670
126-024-51	0-600mm/0-24"	±0.08mm	18	24	150	20	770
126-024-52	0-600mm/0-24"	±0.08mm	24	32	250	20	770
126-040-51	0-1000mm/0-40"	±0.12mm	24	32	200	20	1220
126-040-52	0-1000mm/0-40"	±0.12mm	24	32	300	20	1330
126-120-52	0-3000mm/0-120"	±0.31mm	24	50	300	20	3360

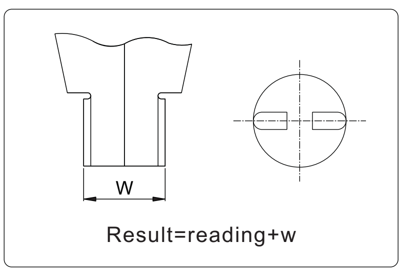
SERIES 127 VERNIER CALIPER

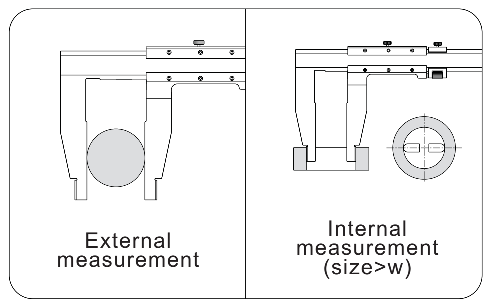


127-020-11



- With fine adjustment
- Made of stainless steel
- Satin chrome reading surface





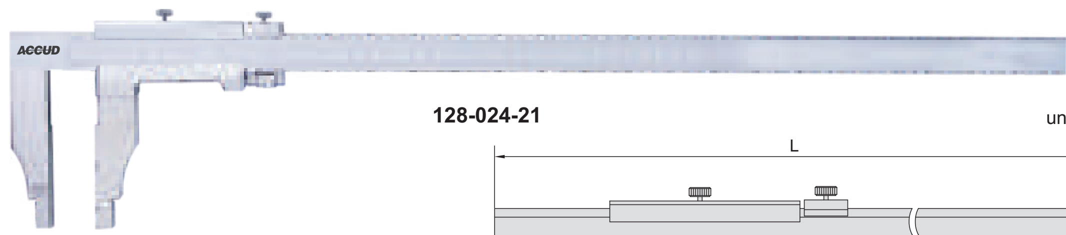
Graduation 0.02mm/0.001"

Code	Range	Accuracy	a	c	h	w	L
127-012-11	0-300mm/0-12"	±0.05mm	10	20	75	10	410
127-020-11	0-500mm/0-20"	±0.05mm	18	24	100	20	670
127-024-11	0-600mm/0-24"	±0.05mm	18	24	100	20	770
127-032-11	0-800mm/0-32"	±0.08mm	24	32	150	20	1020
127-040-11	0-1000mm/0-40"	±0.08mm	24	32	140	20	1216
127-060-11	0-1500mm/0-60"	±0.11mm	24	42	180	20	1830
127-080-11	0-2000mm/0-80"	±0.14mm	24	42	200	20	2320

Graduation 0.05mm/1/128"

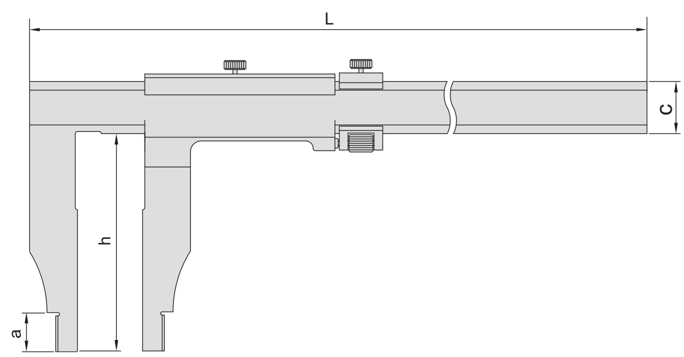
Code	Range	Accuracy	a	c	h	w	L
127-012-51	0-300mm/0-12"	±0.05mm	10	20	75	10	410
127-020-51	0-500mm/0-20"	±0.08mm	18	24	100	20	670
127-024-51	0-600mm/0-24"	±0.08mm	18	24	100	20	770
127-040-51	0-1000mm/0-40"	±0.10mm	24	32	140	20	1216
127-060-51	0-1500mm/0-60"	±0.15mm	24	42	180	20	1830
127-080-51	0-2000mm/0-80"	±0.20mm	24	42	200	20	2320

SERIES 128 VERNIER CALIPER

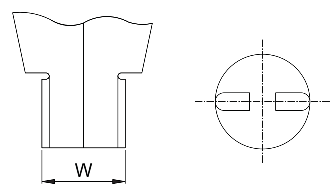


128-024-21

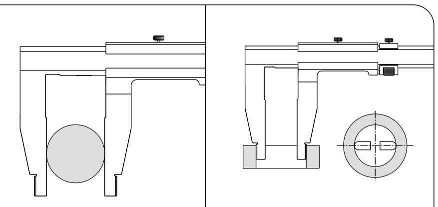
unit: mm



- Made of stainless steel
- With fine adjustment
- Satin chrome plated reading surface



Result=reading+w



External measurement

Internal measurement (size>w)

Graduation 0.02mm/0.001"

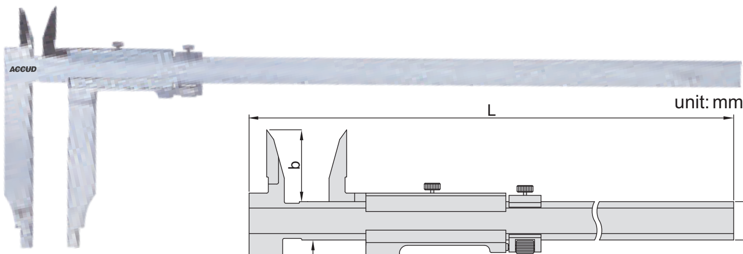
Code	Range	Accuracy	a	c	h	w	L
128-008-21	0-200mm/0-8"	±0.05mm	12	20	100	10	330
128-012-21	0-300mm/0-12"	±0.05mm	18	24	90	20	410
128-012-22	0-300mm/0-12"	±0.07mm	18	24	150	20	410
128-020-21	0-500mm/0-20"	±0.05mm	18	24	100	20	670
128-020-22	0-500mm/0-20"	±0.06mm	18	24	150	20	670
128-024-21	0-600mm/0-24"	±0.06mm	18	24	100	20	770
128-024-22	0-600mm/0-24"	±0.08mm	18	24	150	20	770
128-040-21	0-1000mm/0-40"	±0.08mm	24	32	150	20	1230
128-060-21	0-1500mm/0-60"	±0.11mm	24	42	150	20	1820
128-080-21	0-2000mm/0-80"	±0.14mm	24	42	150	20	2230

Graduation 0.05mm/1/128"

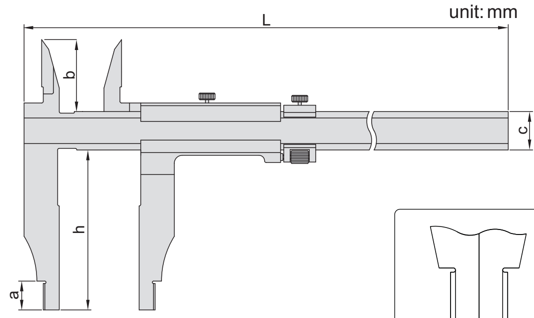
Code	Range	Accuracy	a	c	h	w	L
128-008-51	0-200mm/0-8"	±0.06mm	12	20	100	20	330
128-012-51	0-300mm/0-12"	±0.07mm	18	24	90	20	410
128-012-52	0-300mm/0-12"	±0.07mm	18	24	150	20	410
128-020-51	0-500mm/0-20"	±0.08mm	18	24	100	20	670
128-020-52	0-500mm/0-20"	±0.08mm	18	24	150	20	670
128-024-51	0-600mm/0-24"	±0.08mm	18	24	100	20	770
128-024-52	0-600mm/0-24"	±0.09mm	18	24	150	20	770
128-032-51	0-800mm/0-32"	±0.09mm	24	31	150	20	1030
128-040-51	0-1000mm/0-40"	±0.12mm	24	32	150	20	1230
128-060-51	0-1500mm/0-60"	±0.16mm	24	42	150	20	1820
128-080-51	0-2000mm/0-80"	±0.20mm	24	42	150	20	2230

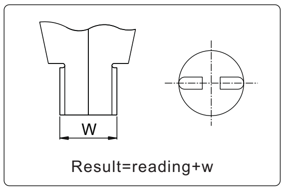
SERIES 129 VERNIER CALIPER

- Made of stainless steel
- With fine adjustment
- Satin chrome plated reading surface



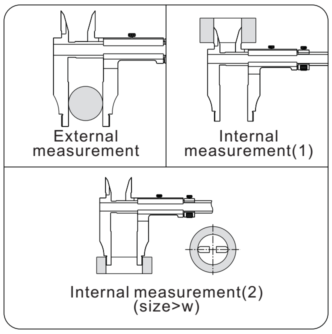
129-020-12





Graduation 0.02mm/0.001"

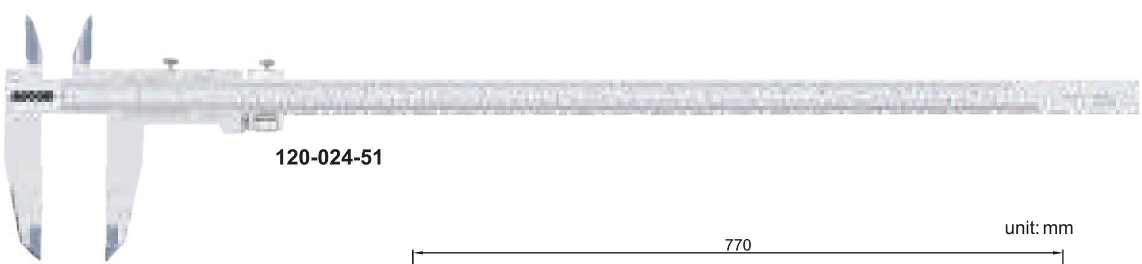
Code	Range	Accuracy	a	b	c	h	w	L
129-020-11	0-500mm/0-20"	±0.05mm	18	45	24	100	20	670
129-020-12	0-500mm/0-20"	±0.06mm	18	45	24	150	20	670
129-024-11	0-600mm/0-24"	±0.06mm	18	45	24	100	20	770
129-040-11	0-1000mm/0-40"	±0.08mm	24	60	31	150	20	1230



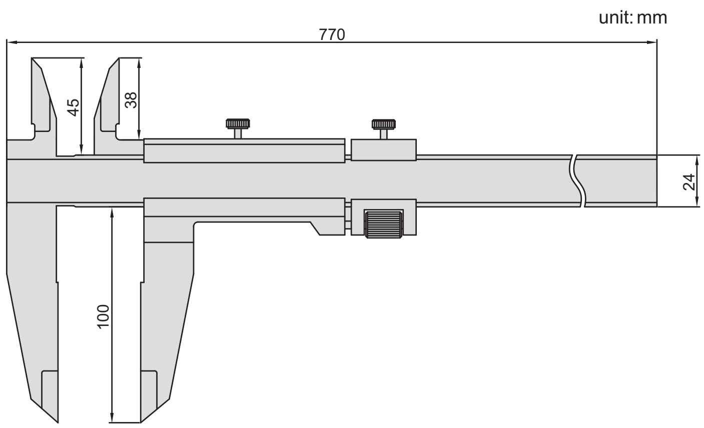
Graduation 0.05mm/1/128"

Code	Range	Accuracy	a	b	c	h	w	L
129-020-51	0-500mm/0-20"	±0.07mm	18	45	24	100	20	670
129-020-52	0-500mm/0-20"	±0.08mm	18	45	24	150	20	670
129-024-51	0-600mm/0-24"	±0.08mm	18	45	24	100	20	770
129-040-51	0-1000mm/0-40"	±0.12mm	24	60	31	150	20	1230

SERIES 120 VERNIER CALIPER (SOLID TYPE)



120-024-51



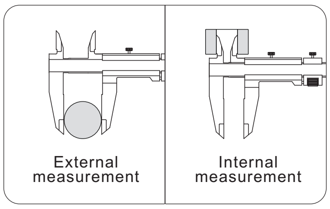
- Made of stainless steel
- Satin chrome plated reading surface

Graduation 0.02mm/0.001"

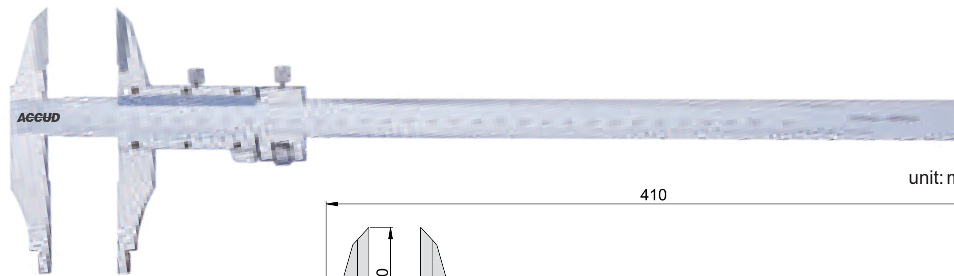
code	Range	Accuracy
120-024-11	0-600mm/0-24"	±0.06mm

Graduation 0.05mm/1/128"

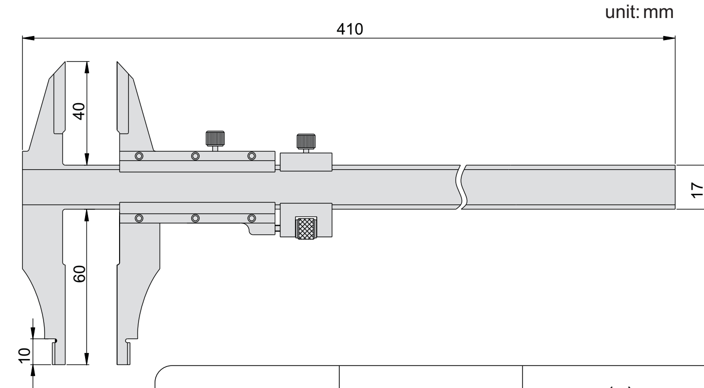
code	Range	Accuracy
120-024-51	0-600mm/0-24"	±0.08mm



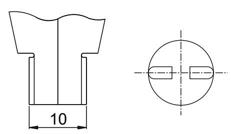
122 VERNIER CALIPER



unit: mm

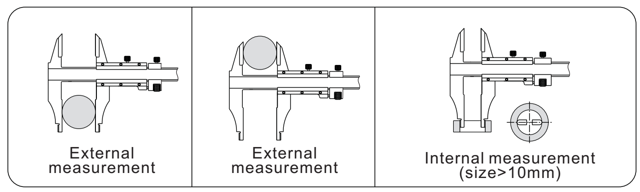


- With fine adjustment
- Made of stainless steel
- Satin chrome reading surface

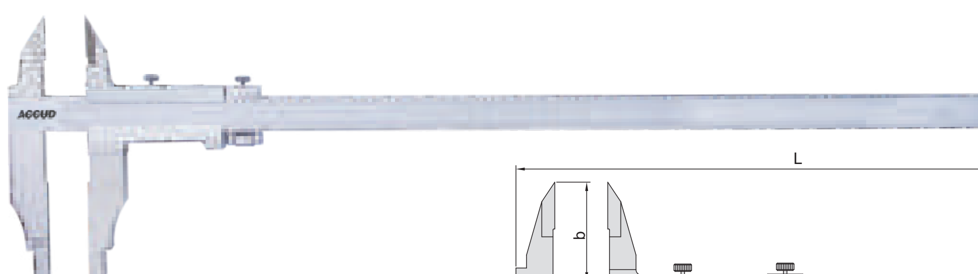


Result=reading+10mm

Code	Range	Graduation	Accuracy
122-012-11	0-300mm	0.02mm	±0.03mm

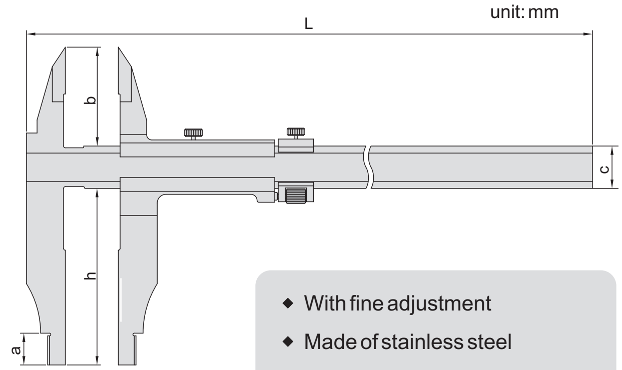


SERIES 122 VERNIER CALIPER



122-020-21

unit: mm



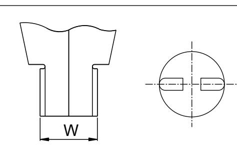
- With fine adjustment
- Made of stainless steel
- Satin chrome reading surface

Graduation: 0.02mm/0.001"

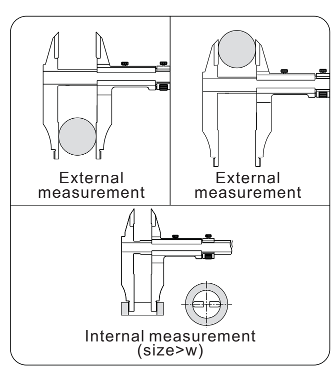
Code	Range	Accuracy	h	a	b	c	w	L
122-012-21	0-300mm/0-12"	±0.05mm	90	12	40	20	10	410
122-020-21	0-500mm/0-20"	±0.05mm	100	18	56	24	20	670
122-020-22	0-500mm/0-20"	±0.06mm	150	18	56	24	20	670
122-032-21	0-800mm/0-32"	±0.07mm	150	24	67	31	20	1020
122-040-21	0-1000mm/0-40"	±0.08mm	150	24	67	31	20	1220

Graduation: 0.05mm/1/128"

Code	Range	Accuracy	h	a	b	c	w	L
122-012-51	0-300mm/0-12"	±0.07mm	90	12	40	20	10	410
122-020-51	0-500mm/0-20"	±0.07mm	100	18	56	24	20	670
122-020-52	0-500mm/0-20"	±0.08mm	150	18	56	24	20	670
122-032-51	0-800mm/0-32"	±0.09mm	150	24	67	31	20	1020
122-040-51	0-1000mm/0-40"	±0.12mm	150	24	67	31	20	1220

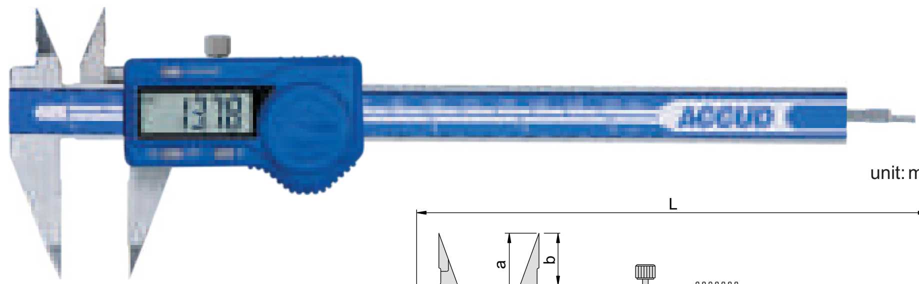


Result=reading+w



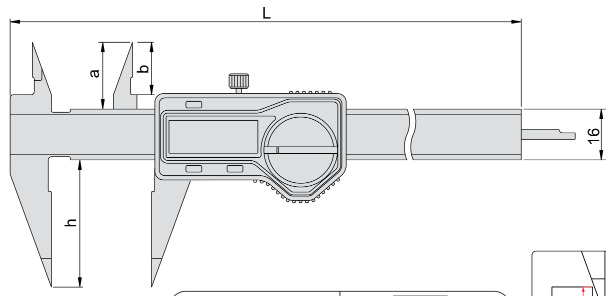
SERIES 138 DIGITAL POINT CALIPER

Data output | CR2032

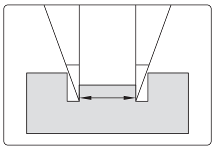


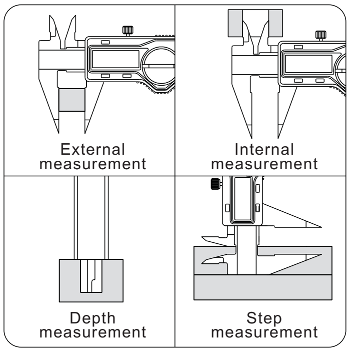
138-006-11

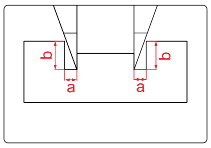
unit: mm



- Measure small holes or grooves
- Resolution: 0.01mm/0.0005"
- Automatic power on/off
- Buttons: on/off, zero, mm/inch
- Data output(cable code:100-11 or 100-12)
- Made of stainless steel







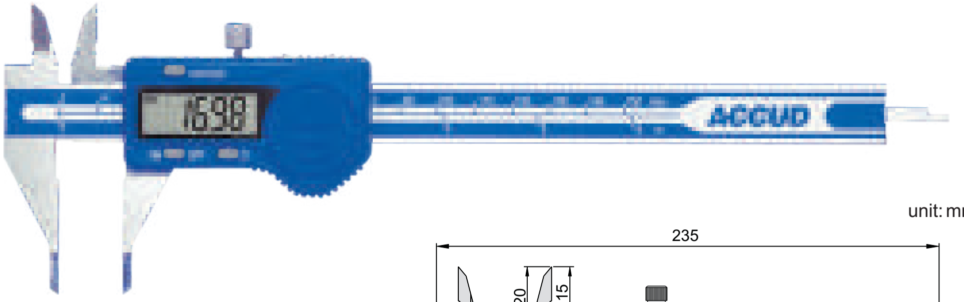
Code	Range	Accuracy	a	b	h	L
138-006-11	0-150mm/0-6"	±0.03mm	21	16	40	236
138-008-11	0-200mm/0-8"	±0.03mm	24	19	50	286

(mm)

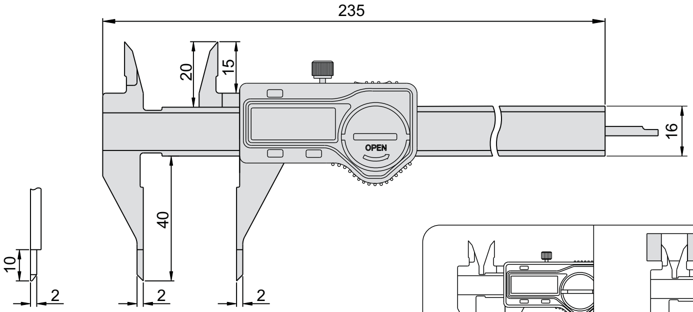
a	b
1	2.5
2	5
3	7.5
4	10
5	12.5
6	15

168 DIGITAL SMALL POINT CALIPER

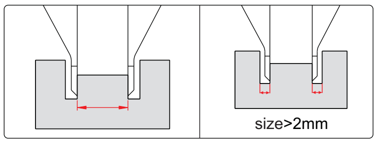
Data output | CR2032

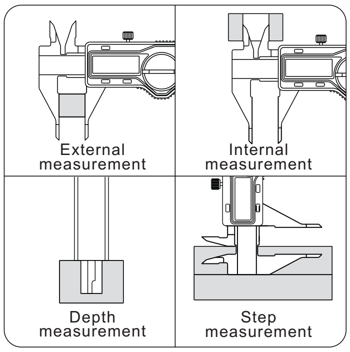


unit: mm



- Small point jaws fits into small grooves and recesses
- Resolution: 0.01mm/0.0005"
- Buttons: on/off, zero, mm/inch
- Automatic power on/off
- Data output(cable code:100-11 or 100-12)
- Made of stainless steel



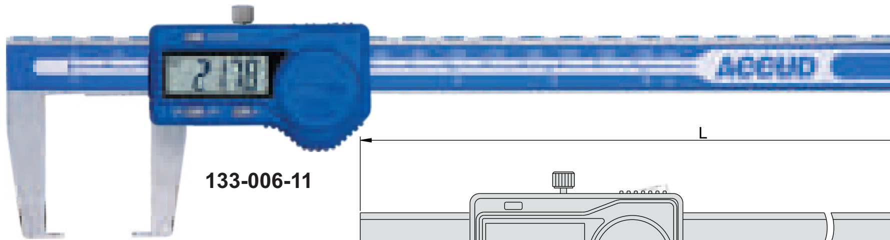


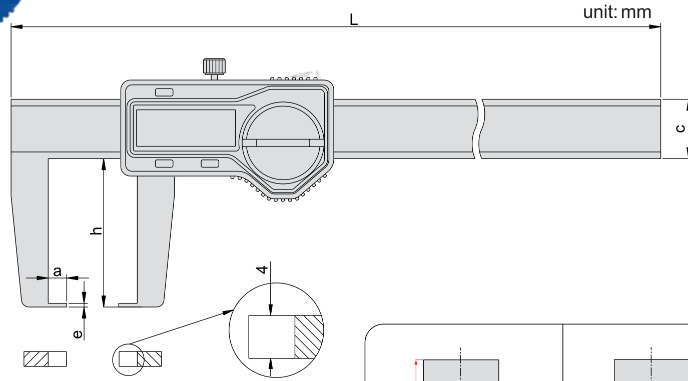
Code	Range	Accuracy
168-006-11	0-150mm/0-6"	±0.03mm

SERIES 133 DIGITAL OUTSIDE NECK CALIPER

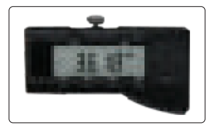
Data output
CR2032

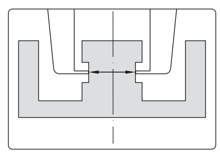
VIDEO

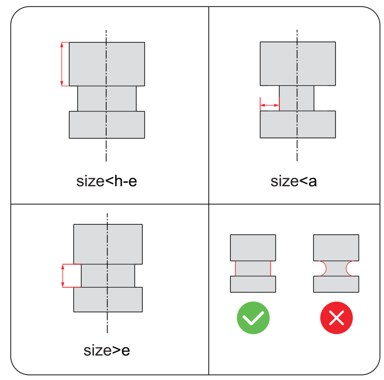

133-006-11



133-012-12



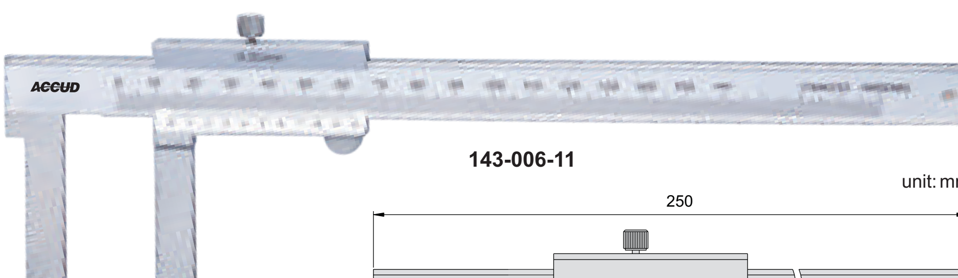


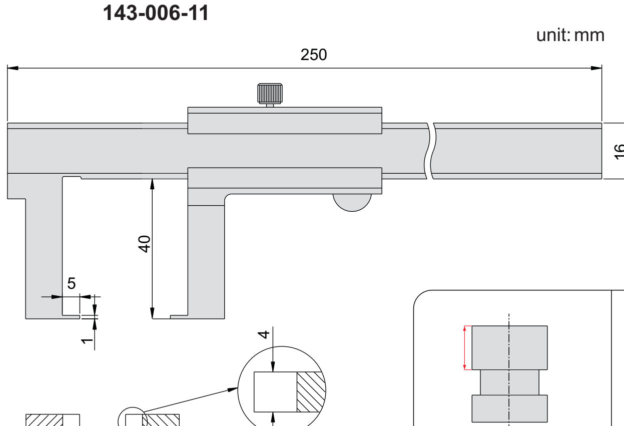


- Measure wall thickness and recesses
- Resolution: 0.01mm/0.0005"
- Automatic power on/off
- Buttons: on/off, zero, mm/inch
- Data output
- Made of stainless steel

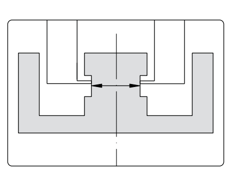
Code	Range	Accuracy	a	c	e	h	L
133-006-11	0-150mm/0-6"	±0.04mm	5	16	1	40	250
133-008-11	0-200mm/0-8"	±0.05mm	9	16	1.5	80	310
133-012-11	0-300mm/0-12"	±0.05mm	10	16	1.5	60	410
133-012-12	0-300mm/0-12"	±0.06mm	12	24	2	150	490

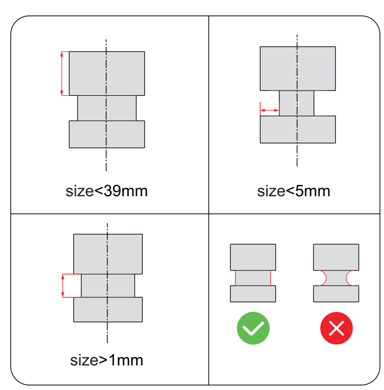
SERIES 143 OUTSIDE NECK VERNIER CALIPER


143-006-11



- Measure wall thickness and recesses
- Made of stainless steel
- Satin chrome plated reading surface





Graduation 0.02mm

Code	Range	Accuracy
143-006-11	0-150mm	±0.04mm

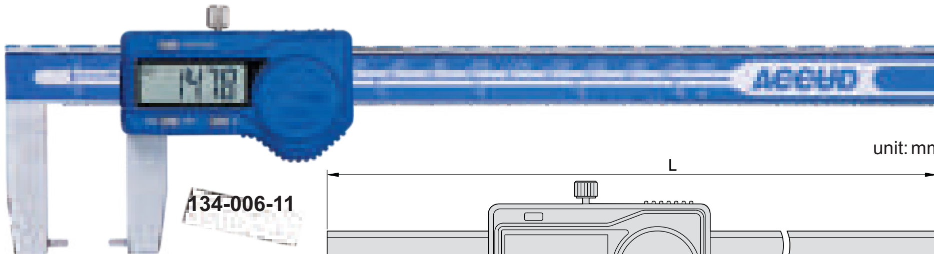
Graduation 0.05mm

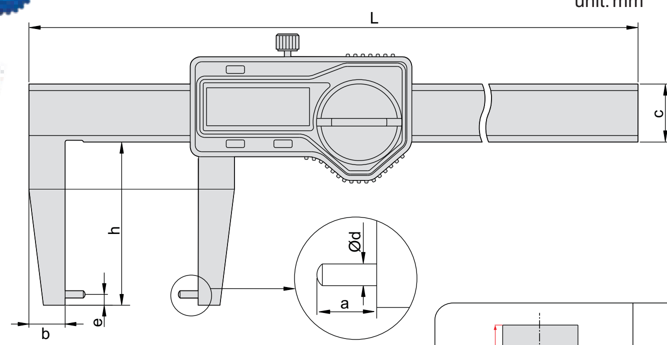
Code	Range	Accuracy
143-006-13	0-150mm	±0.05mm

SERIES 134 DIGITAL OUTSIDE POINT CALIPER

Data output CR2032

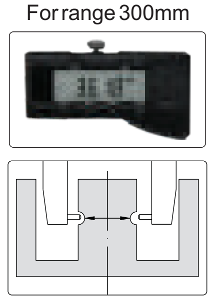
VIDEO

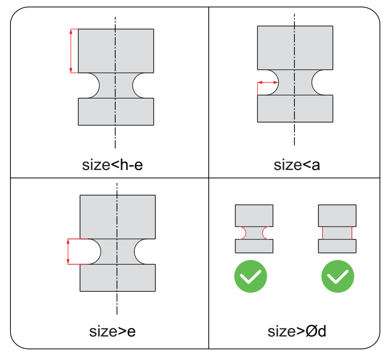




- Measure wall thickness of inside bores and recesses
- Resolution: 0.01mm/0.0005"
- Automatic power on/off
- Buttons: on/off, zero, mm/inch
- Data output
- Made of stainless steel

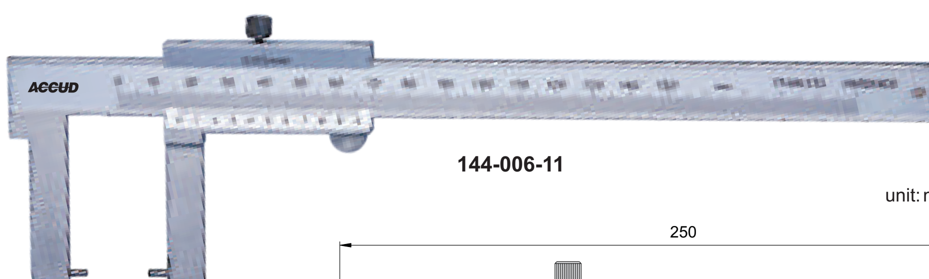
For range 300mm

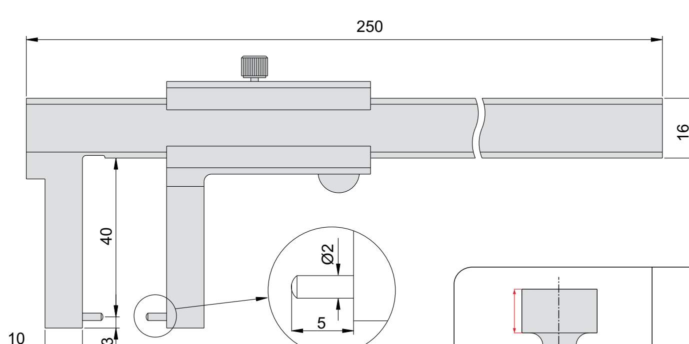




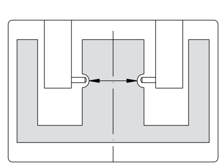
Code	Range	Accuracy	a	b	c	Ød	e	h	L
134-006-11	0-150mm/0-6"	±0.04mm	5	10	16	2	2	40	250
134-008-11	0-200mm/0-8"	±0.05mm	9	14	16	3	3	80	310
134-012-12	0-300mm/0-12"	±0.06mm	12	20	24	3	3	150	490

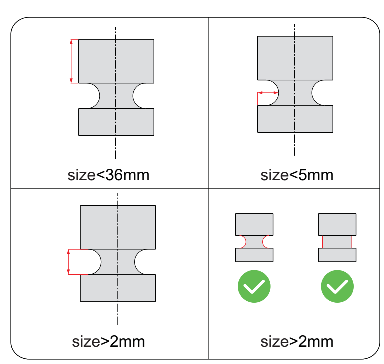
SERIES 144 OUTSIDE POINT VERNIER CALIPER





- Measure wall thickness of inside bores and recesses
- Made of stainless steel
- Satin chrome plated reading surface





Graduation 0.02mm

Code	Range	Accuracy
144-006-11	0-150mm	±0.04mm

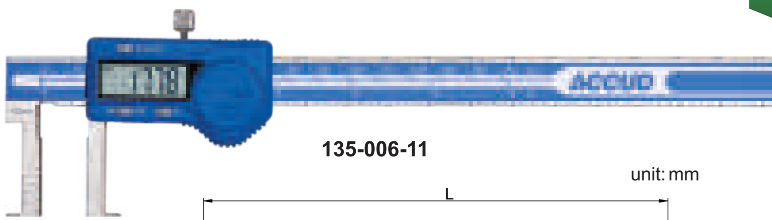
Graduation 0.05mm

Code	Range	Accuracy
144-006-13	0-150mm	±0.05mm

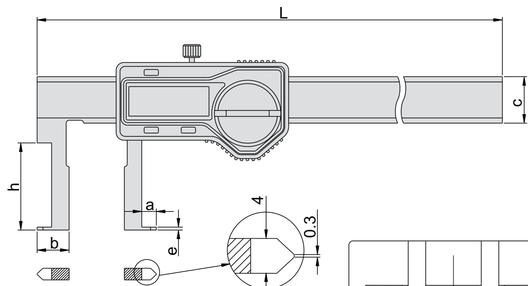
SERIES 135 DIGITAL INSIDE NECK CALIPER

Data output
CR2032

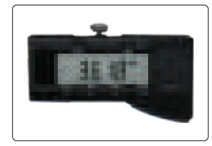
VIDEO

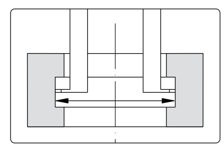


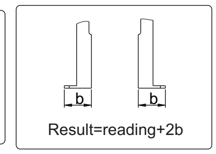
135-006-11

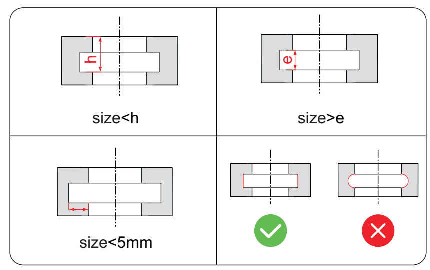


For range 500mm





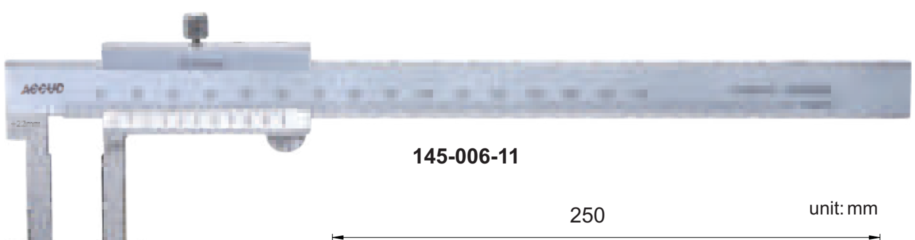




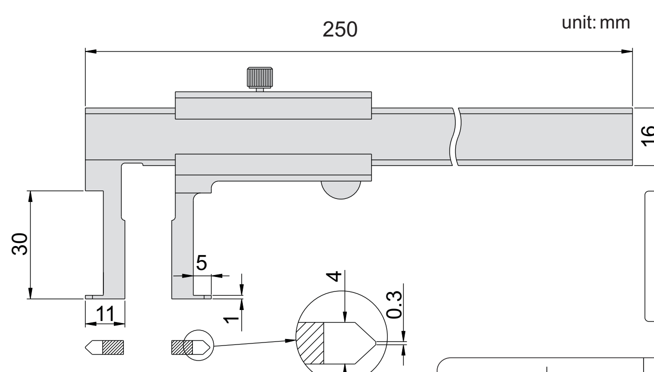
- Measure the grooves
- Resolution: 0.01mm/0.0005"
- Automatic power on/off
- Buttons: on/off, zero, mm/inch
- Data output
- Made of stainless steel

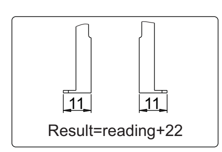
Code	Range	Accuracy	a	b	c	e	h	L
135-006-11	22-150mm	±0.04mm	5	11	16	1	30	250
135-008-11	25-200mm	±0.04mm	5	12.5	16	1	40	310
135-012-11	30-300mm	±0.05mm	5	15	17	1.5	50	410
135-020-11	80-500mm	±0.07mm	16	40	24	4	90	680
135-006-12	35-150mm	±0.06mm	6	17.5	16	1.5	60	250
135-008-12	40-200mm	±0.06mm	7	20	16	1.5	70	310
135-012-12	50-300mm	±0.07mm	8	25	16	1.5	80	410
135-020-12	80-500mm	±0.08mm	16	40	24	5	150	680

SERIES 145 INSIDE NECK VERNIER CALIPER

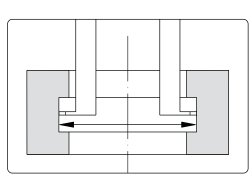


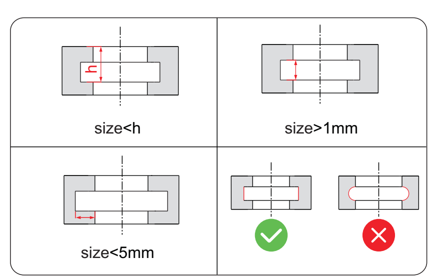
145-006-11





- Measure the grooves
- Made of stainless steel
- Satin chrome plated reading surface





Graduation 0.02mm

Code	Range	Accuracy
145-006-11	22-150mm	±0.04mm

Graduation 0.05mm

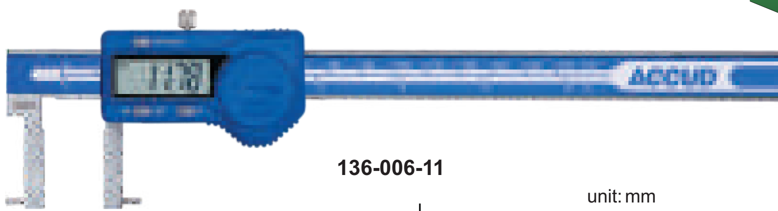
Code	Range	Accuracy
145-006-13	22-150mm	±0.05mm

CALIPER

SERIES 136 DIGITAL INSIDE POINT CALIPER

Data output CR2032

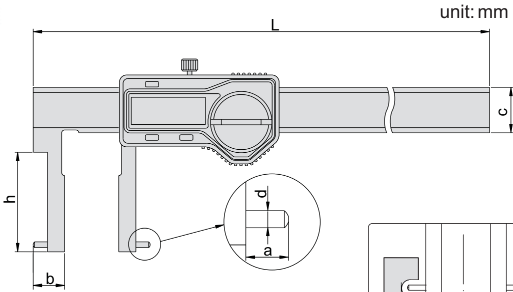
VIDEO



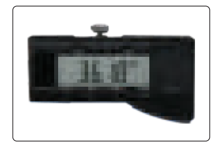
136-006-11

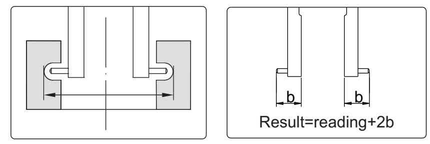
- Measure the grooves
- Resolution: 0.01mm/0.0005"
- Automatic power on/off
- Buttons: on/off, zero, mm/inch
- Data output
- Made of stainless steel

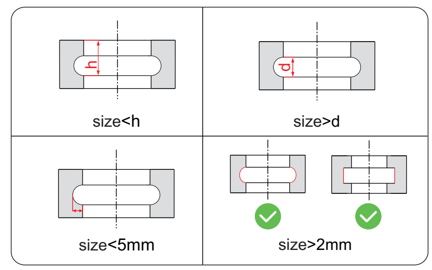
unit: mm



For range 500mm

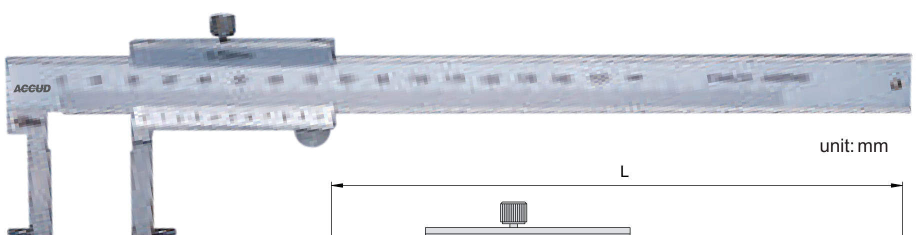






Code	Range	Accuracy	a	b	c	d	h	L
136-006-11	24-150mm	±0.04mm	5	12	16	Ø2	30	250
136-008-11	25-200mm	±0.04mm	5	12.5	16	Ø2	40	310
136-012-11	50-300mm	±0.07mm	8	25	17	Ø3	80	410
136-020-11	80-500mm	±0.07mm	16	40	24	Ø3	90	680
136-006-12	35-150mm	±0.05mm	6	17.5	16	Ø2	60	250
136-008-12	40-200mm	±0.05mm	7	20	16	Ø2	70	310
136-012-12	30-300mm	±0.07mm	5	15	16	Ø3	50	410
136-020-12	80-500mm	±0.08mm	16	40	24	Ø3	150	680

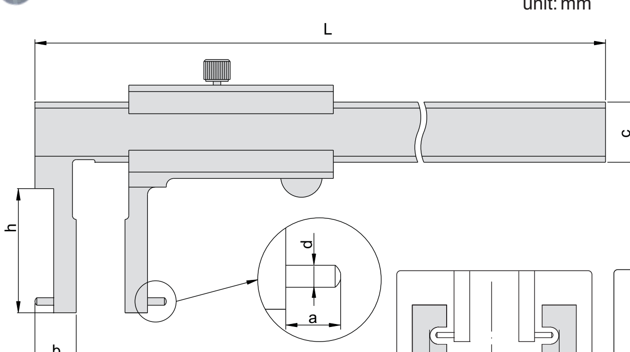
SERIES 146 INSIDE POINT VERNIER CALIPER

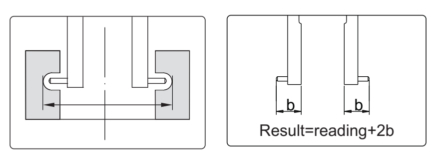


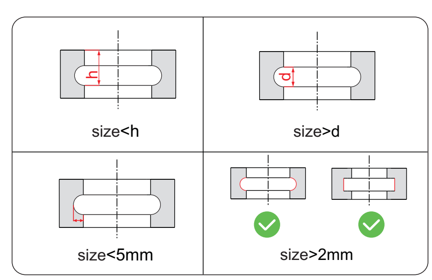
146-006-11

- Measure the grooves
- Made of stainless steel
- Satin chrome plated reading surface

unit: mm







Graduation 0.02mm

Code	Range	Accuracy	a	b	c	d	h	L
146-006-11	24-150mm	±0.04mm	5	12	16	Ø2	30	250
146-012-11	50-300mm	±0.06mm	8	25	17	Ø3	80	410

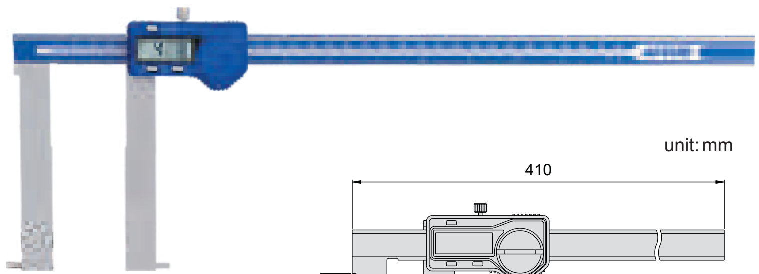
Graduation 0.05mm

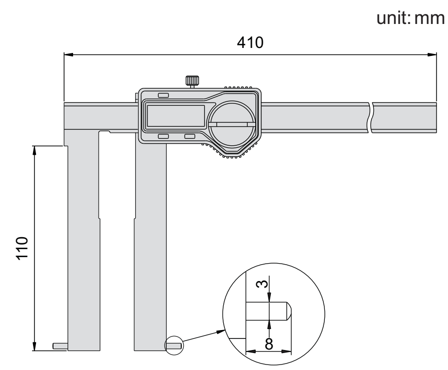
Code	Range	Accuracy	a	b	c	d	h	L
146-006-13	24-150mm	±0.05mm	5	12	16	Ø2	30	250
146-012-13	50-300mm	±0.08mm	8	25	17	Ø3	80	410

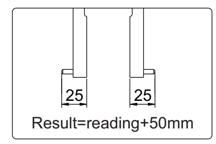
136 DIGITAL INSIDE POINT CALIPER

Data output
CR2032

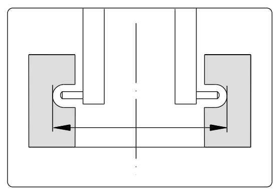
VIDEO

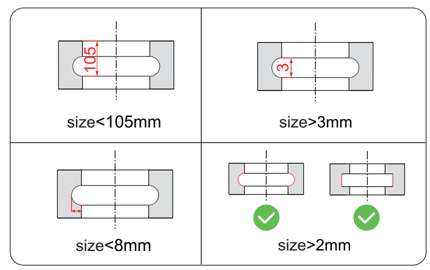






- Measure the grooves
- Resolution: 0.01mm/0.0005"
- Automatic power on/off
- Buttons: on/off, zero, mm/inch
- Data output (cable code: 100-11 or 100-12)
- Made of stainless steel

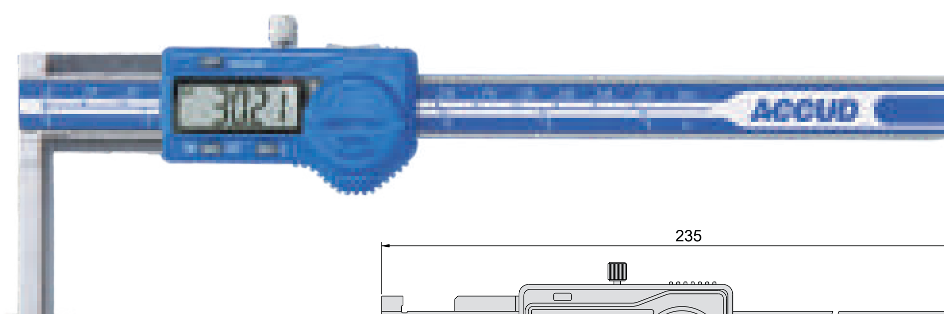


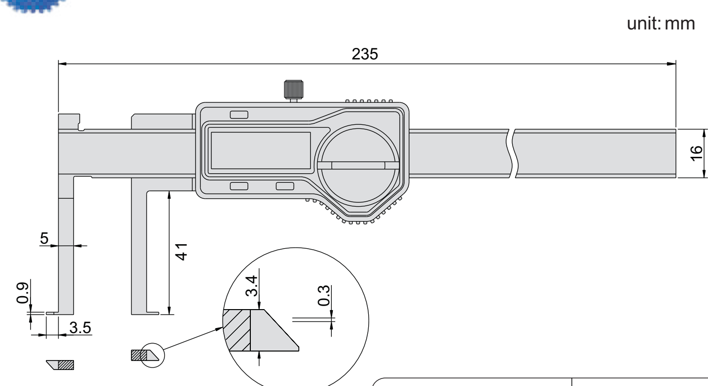


Code	Range	Accuracy
136-012-13S	50-300mm	±0.06mm

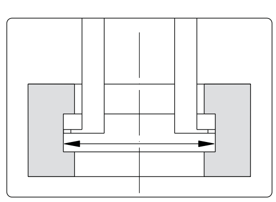
132 DIGITAL INSIDE GROOVE CALIPER

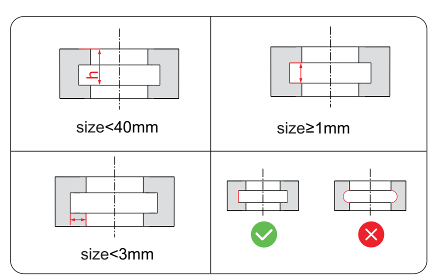
Data output
CR2032





- Measure diameter of grooves inside small bores
- Resolution: 0.01mm/0.0005"
- Buttons: on/off, zero, mm/inch
- Automatic power on/off
- Data output(cable code: 100-11 or 100-12)
- Made of stainless steel





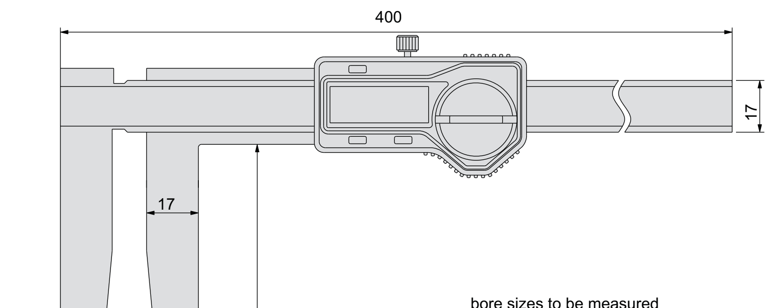
Code	Range	Accuracy
132-006-21	10-150mm/0.39-6"	±0.04mm

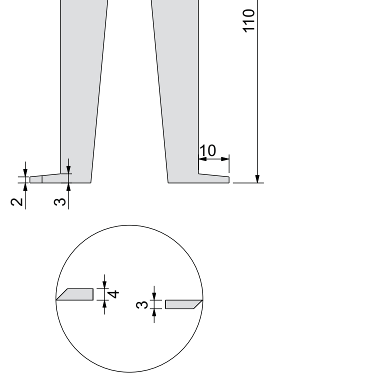
132 DIGITAL INSIDE GROOVE CALIPER

Data output

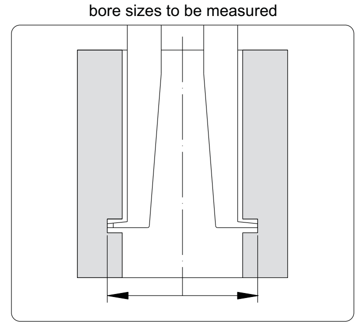
CR2032

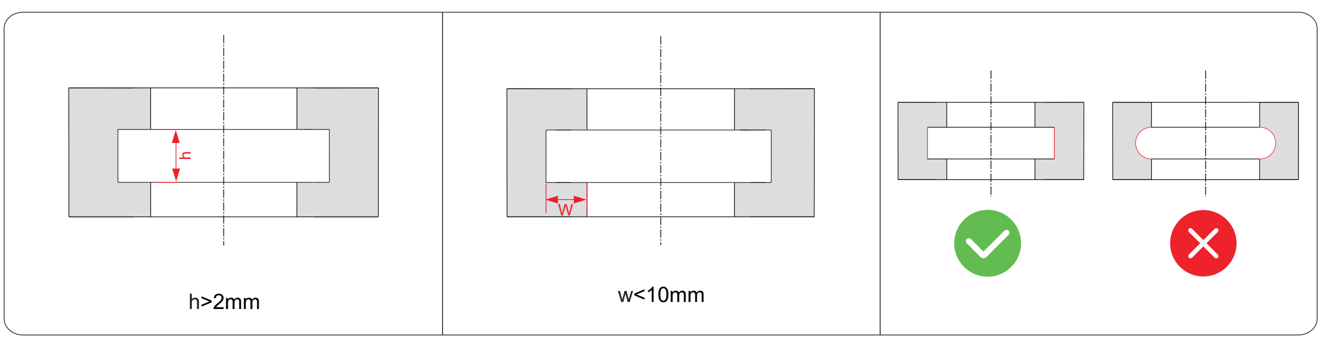
unit: mm





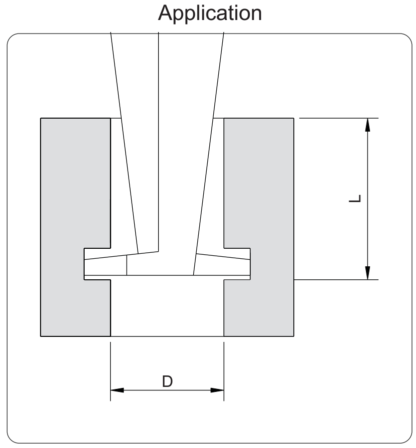
bore sizes to be measured





- Measure diameter of grooves inside bores
- Resolution: 0.01mm/0.0005"
- Automatic power on/off
- Buttons: on/off, zero, mm/inch
- Data output(cable code: 100-11 or 100-12)
- Made of stainless steel

Application

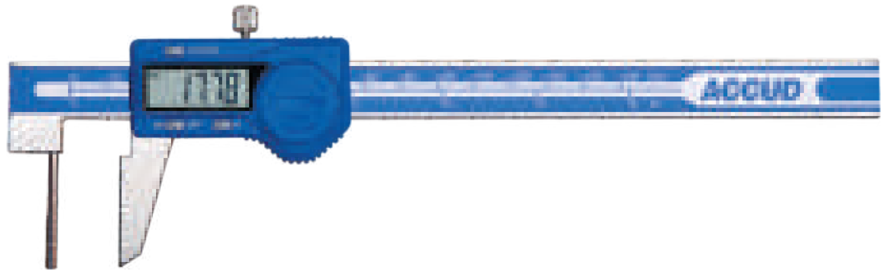


Code	Range	Accuracy
132-012-11	25-300mm	±0.05mm

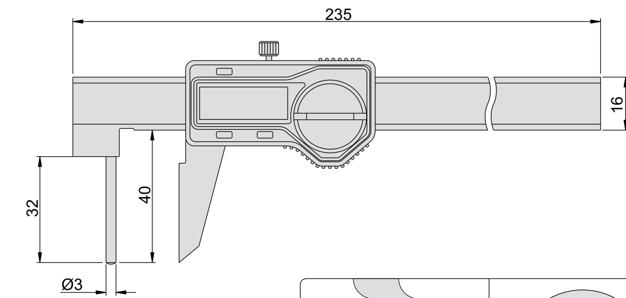
D	L
Ø25	<50mm
Ø26	<60mm
Ø27~300	<110mm

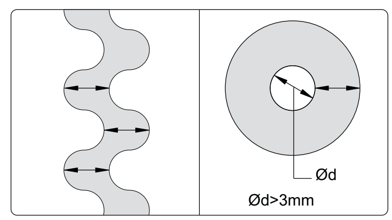
137 DIGITAL TUBE THICKNESS CALIPER

Data output CR2032



unit: mm





- Measure the wall thickness
- Resolution: 0.01mm/0.0005"
- Automatic power on/off
- Buttons: on/off, zero, mm/inch
- Data output(cable code:100-11 or 100-12)
- Made of stainless steel

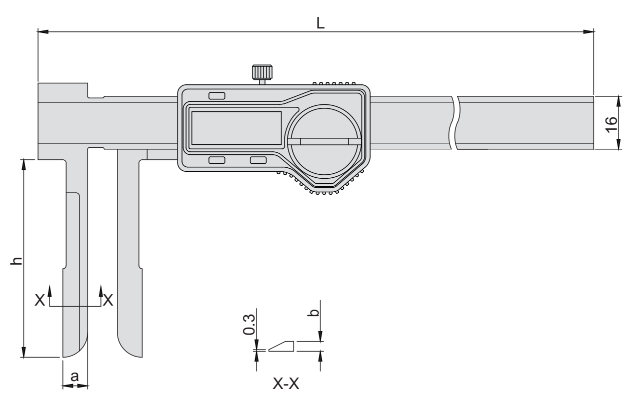
Code	Range	Accuracy
137-006-11	0-150mm/0-6"	±0.05mm

SERIES 139 DIGITAL INSIDE KNIFE-EDGE CALIPER

Data output CR2032

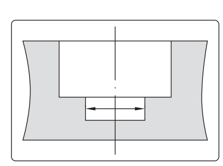
139-006-11

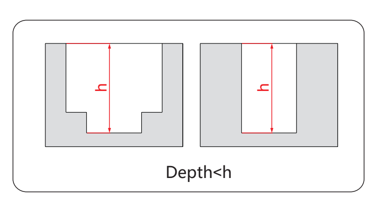
unit: mm



- Measure the diameter of deep holes or grooves
- Resolution: 0.01mm/0.0005"
- Automatic power on/off
- Buttons: on/off, zero, mm/inch
- Data output(cable code: 100-11 or 100-12)
- Made of stainless steel

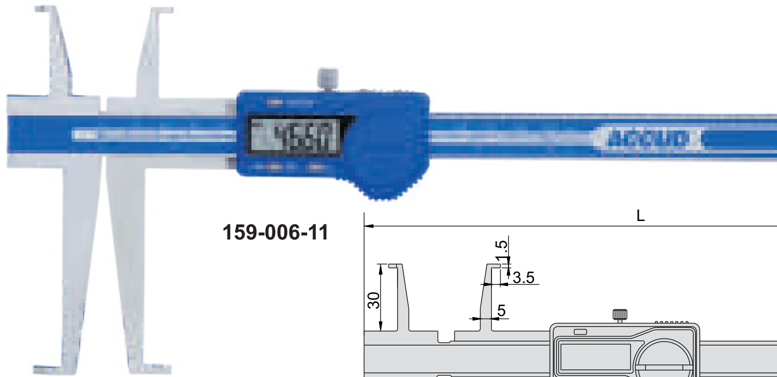
Code	Range	Accuracy	L	h	a	b
139-006-11	15-150mm	±0.05mm	250	60	12	3
139-008-11	20-200mm	±0.05mm	310	90	15	4
139-012-11	20-300mm	±0.06mm	410	90	16	4





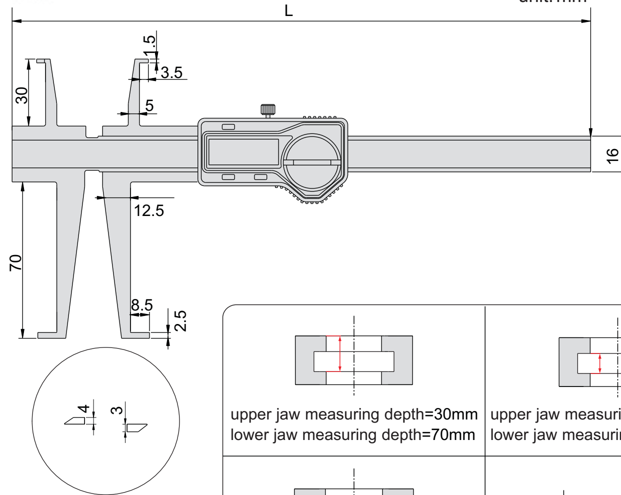
SERIES 159 DIGITAL INSIDE GROOVE CALIPER

Data output CR2032

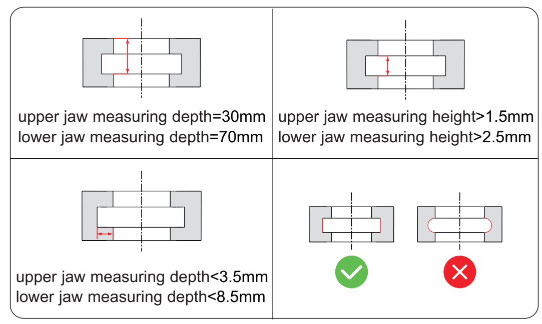


159-006-11

unit: mm

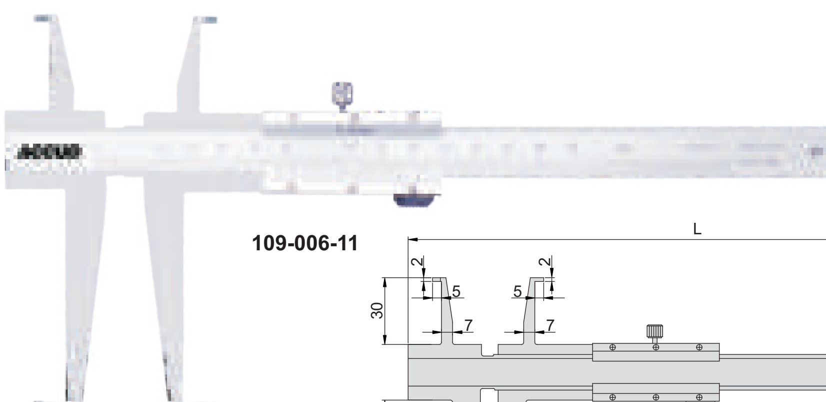


- Measure diameter of grooves inside bores
- Resolution: 0.01mm/0.0005"
- Buttons: on/off, zero, mm/inch
- Automatic power on/off
- Data output(cable code: 100-11 or 100-12)
- Made of stainless steel



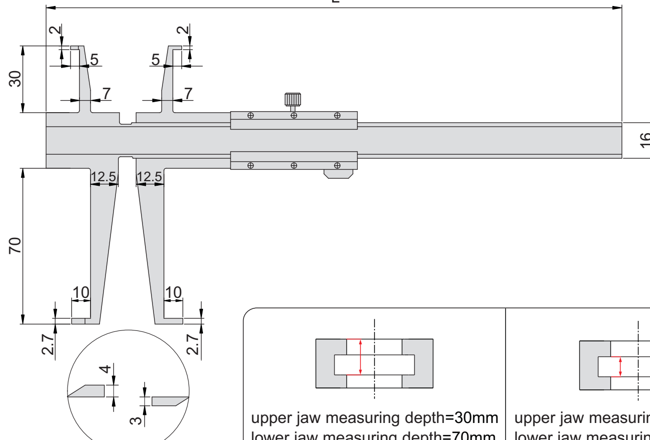
Code	Range of upper jaw	Range of lower jaw	Accuracy	L
159-006-11	9-150mm	15-150mm	±0.04mm	260
159-008-11	9-200mm	15-200mm	±0.06mm	310

SERIES 109 INSIDE GROOVE CALIPER

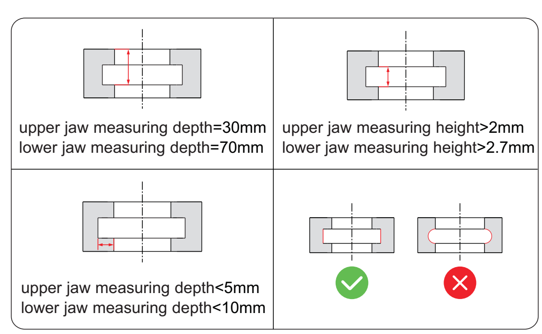


109-006-11

unit: mm



- Measure diameter of grooves inside bores
- Graduation: 0.02mm
- Made of stainless steel
- Satin chrome plated reading surface



Code	Range of upper jaw	Range of lower jaw	Accuracy	L
109-006-11	9-150mm	16-150mm	±0.04mm	260
109-008-11	9-200mm	16-200mm	±0.06mm	310
109-012-11	9-300mm	16-300mm	±0.06mm	415

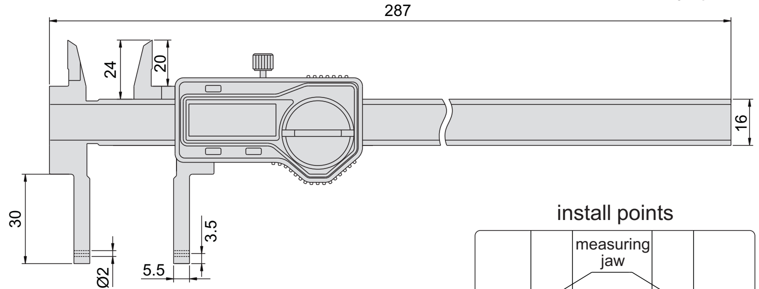
DIGITAL CALIPER WITH INTERCHANGEABLE POINTS

Data output

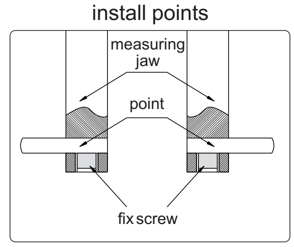
CR2032

- Supplied with 3 pairs of points and one zero setting block for external measurement
- Resolution: 0.01mm/0.0005"
- Buttons: on/off, zero, mm/inch
- Automatic power on/off
- Data output (cable code: 100-11 or 100-12)
- Made of stainless steel

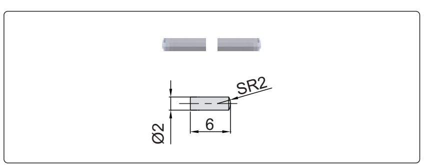
unit: mm



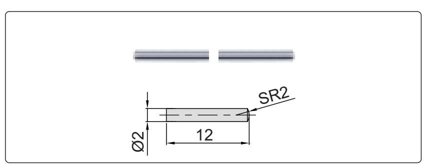
install points



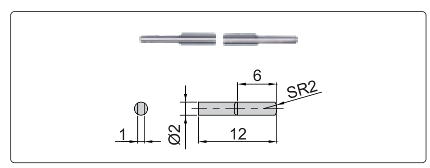
short spherical points **(included)**



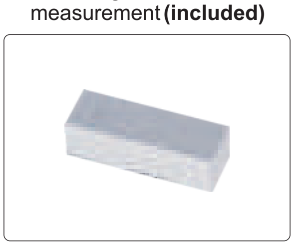
long spherical/flat points **(included)**



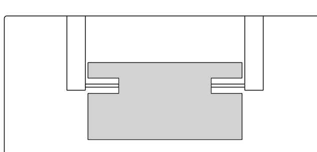
short spherical blade points **(included)**

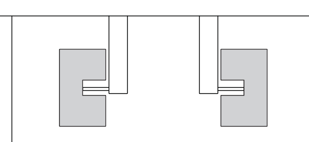


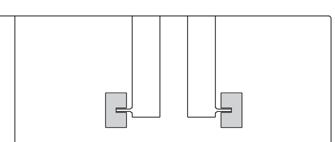
zero setting block for external measurement **(included)**



Measure internal and external grooves


flat points for external groove measurement

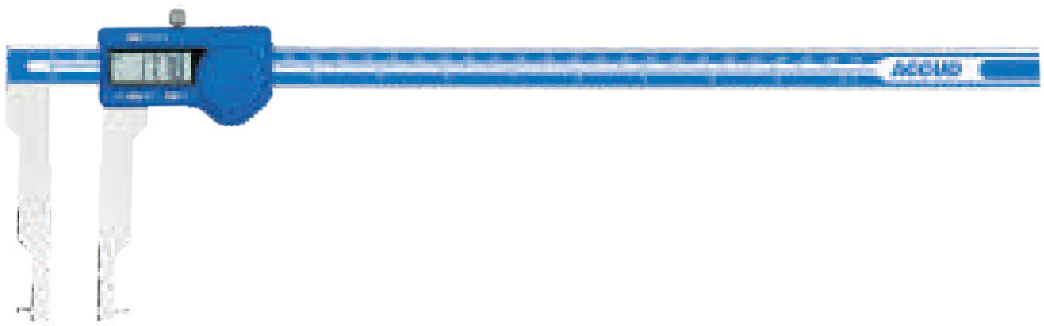

spherical points for grooves (inside hole) measurement


spherical blade points for narrow groove (inside hole) measurement

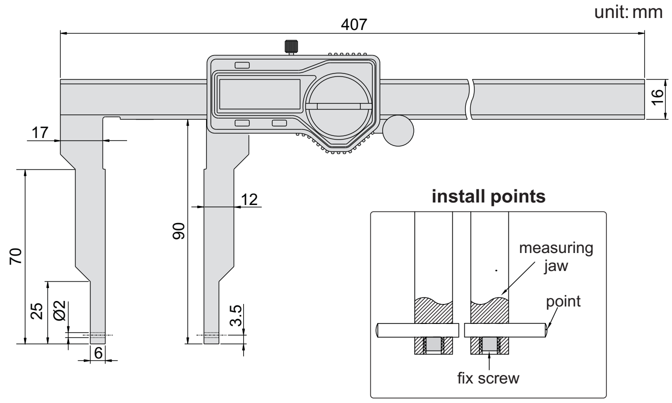
Code	Point	Range	Accuracy	Application
149-008-11	short spherical points	12-212mm/0.5-8.5"(internal)	±0.03mm	for grooves/inside small hole
	long spherical/flat points	24-224mm/1-8.8"(internal) 0-187mm/0-7.5"(external)	±0.03mm	spherical points for grooves/inside hole, flat points for external grooves
	spherical blade points	24-224mm/1-8.8"(internal) 0-187mm/0-7.5"(external)	±0.03mm	for narrow grooves/inside hole

149 DIGITAL CALIPER WITH INTERCHANGEABLE POINTS

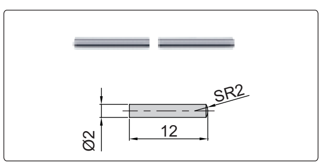
Data output CR2032



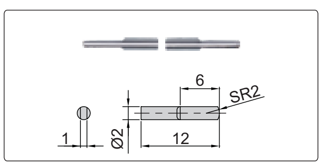
- Supplied with 4 pairs of points and one zero setting block for external measurement
- Resolution: 0.01mm/0.0005"
- Buttons: on/off, zero, mm/inch
- Automatic power on/off
- Data output(cable code: 100-11 or 100-12)
- Made of stainless steel



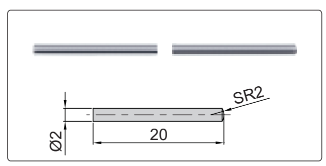
short spherical/flat points



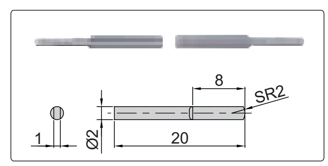
short spherical blade points



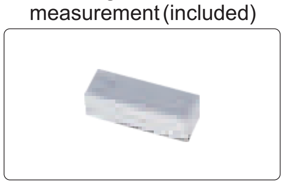
long spherical/flat points



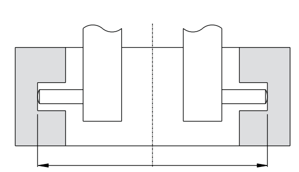
long spherical blade points



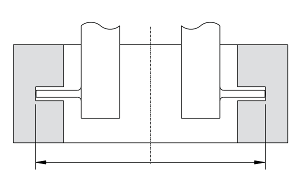
zero setting block for external measurement (included)



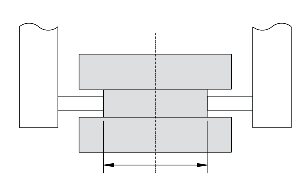
Measure internal and external grooves



spherical points for groove (inside hole) measurement



spherical blade points for narrow groove measurement



flat points for external groove measurement

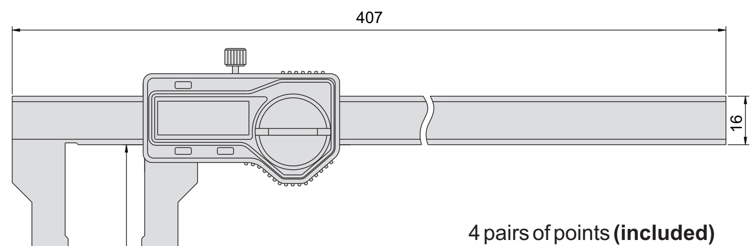
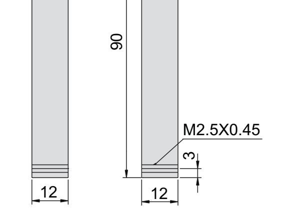
Code	Point	Range	Accuracy	Application
149-012-11	short spherical/ flat points	24-324mm/1-12.7"(internal) 0-288mm/0-11.3"(external)	±0.04mm	spherical points for grooves/inside hole, (small hole) flat points for external grooves
	long spherical/ flat points	40-340mm/1.5-13.3"(internal) 0-272mm/0-10.7"(external)	±0.04mm	spherical points for grooves/inside hole, (large hole) flat points for external grooves
	short spherical blade points	24-324mm/1-12.7"(internal) 0-288mm/0-11.3"(external)	±0.04mm	for narrow grooves (small hole)
	long spherical blade points	40-340mm/1.5-13.3"(internal) 0-272mm/0-10.7"(external)	±0.04mm	for narrow grooves (large hole)

DIGITAL CALIPER WITH INTERCHANGEABLE POINTS

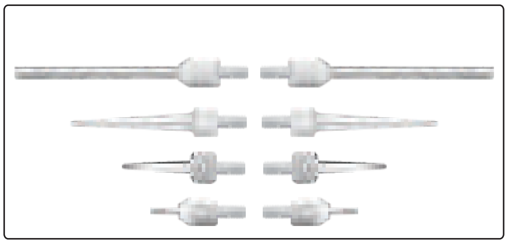
Data output CR2032

unit: mm

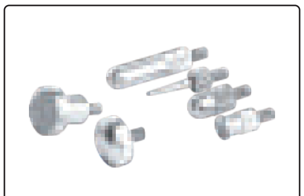
- Supplied with 4 pairs of points
  (Cylindrical needle point: 270-006-16 2pc,
  Cylindrical needle point: 270-006-04 2pc,
  Conical needle point: 270-006-21 2pc,
  Conical needle point: 270-006-23 2pc)
- Zero setting block for external measurement
- Resolution: 0.01mm/0.0005"
- Buttons: on/off, mm/inch, ZERO
- Automatic power on/off
- Data output (cable code: 100-11 or 100-12)
- Made of stainless steel

4 pairs of points **(included)**

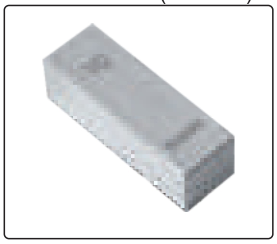


points **(optional)**

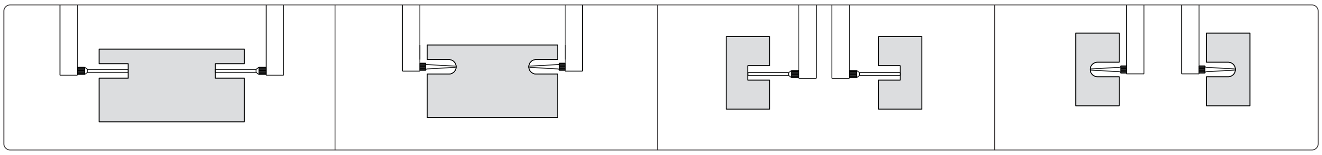


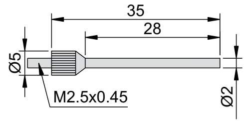
Series 270

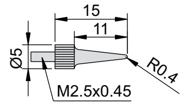
zero setting block for external measurement (included)

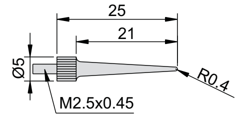


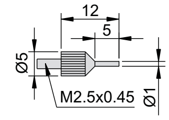
Measure internal and external grooves









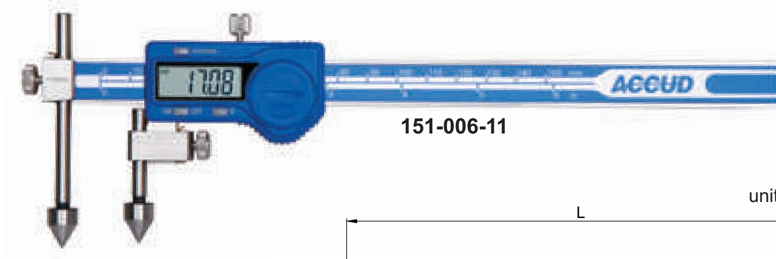


Code	Range	Accuracy
149-012-21	0-300mm/0-12"	±0.04mm

SERIES 151 DIGITAL OFFSET CENTERLINE CALIPER

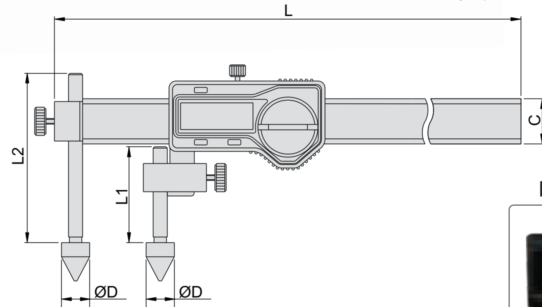
Data output
CR2032

VIDEO



151-006-11

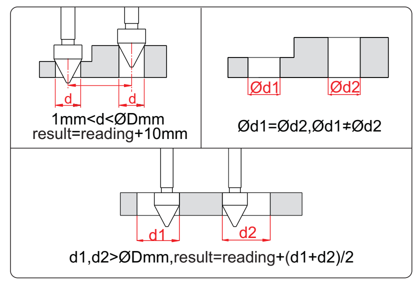
unit: mm



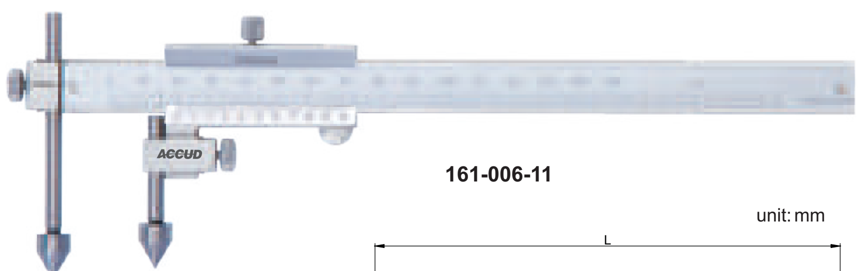
For range 500mm

- Measure the hole center-to-center distance in same plane, or between offset planes
- Resolution: 0.01mm/0.0005"
- Automatic power on/off
- Buttons: on/off, zero, mm/inch
- Data output
- Made of stainless steel

Code	Range	Accuracy	c	ØD	L1	L2	L
151-006-11	10-150mm/0.4-6"	±0.05mm	16	10	32	65	236
151-008-11	10-200mm/0.4-8"	±0.07mm	16	10	32	65	306
151-012-11	10-300mm/0.4-12"	±0.09mm	16	10	32	65	396
151-020-11	20-500mm/0.8-20"	±0.09mm	24	20	48	88	686
151-040-11	30-1000mm/1.2-40"	±0.12mm	31	30	42	88	1242

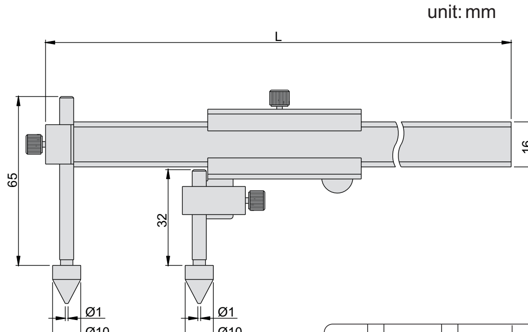


SERIES 161 OFFSET CENTERLINE VERNIER CALIPER



161-006-11

unit: mm



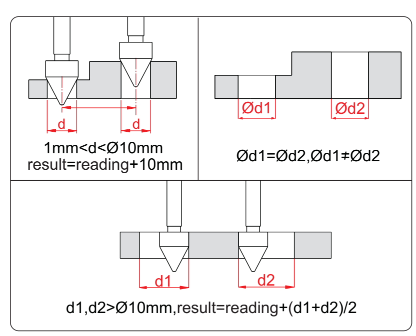
Graduation 0.02mm

Code	Range	Accuracy	L
161-006-11	10-150mm	±0.05mm	236
161-008-11	10-200mm	±0.07mm	306
161-012-11	10-300mm	±0.09mm	396

Graduation 0.05mm

Code	Range	Accuracy	L
161-006-13	10-150mm	±0.05mm	236
161-008-13	10-200mm	±0.07mm	306
161-012-13	10-300mm	±0.09mm	396

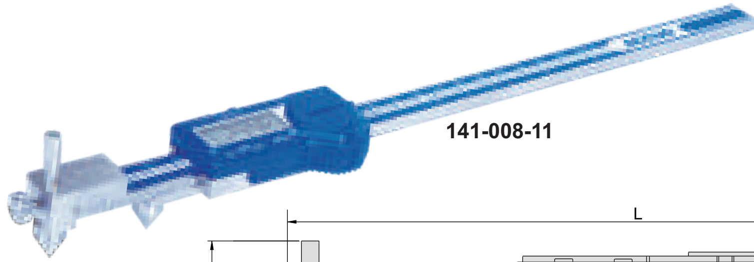
- Measure the hole center-to-center distance in same plane, or between offset planes
- Made of stainless steel
- Satin chrome plated reading surface



SERIES 141 DIGITAL BACK-JAW CENTERLINE CALIPER

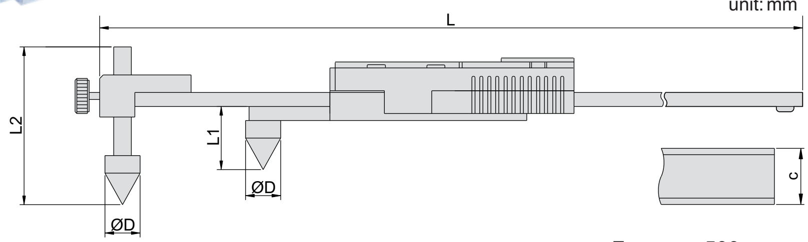
Data output
CR2032

VIDEO



141-008-11

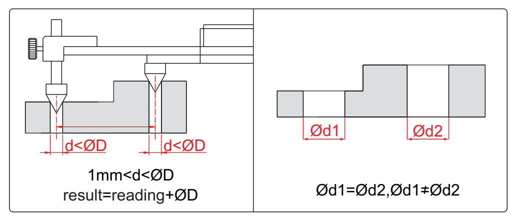
unit: mm



- Measure hole center distance in the same or offset planes
- Resolution: 0.01mm/0.0005"
- Buttons: on/off, zero, mm/inch
- Data output
- Automatic power on/off
- Made of stainless steel

For range 500mm

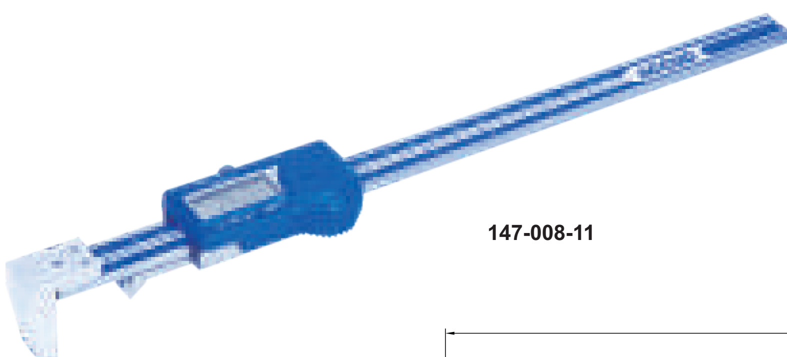
Code	Range	Accuracy	ØD	c	L1	L2	L
141-008-11	10-200mm/0.4-8"	±0.1mm	10	16	18	45	310
141-012-11	10-300mm/0.4-12"	±0.1mm	10	16	18	45	410
141-020-11	20-500mm/0.8-20"	±0.1mm	20	24	26	70	692
141-040-11	30-1000mm/1.2-40"	±0.12mm	30	31	39	70	1242
141-060-11	30-1500mm/1.2-60"	±0.15mm	30	31	39	70	1745



SERIES 147 BACK-JAW DIGITAL EDGE TO CENTER CALIPER

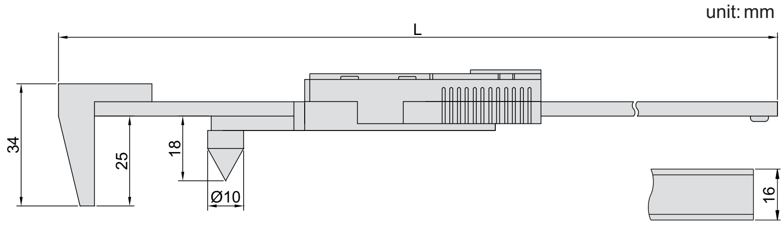
Data output
CR2032

VIDEO



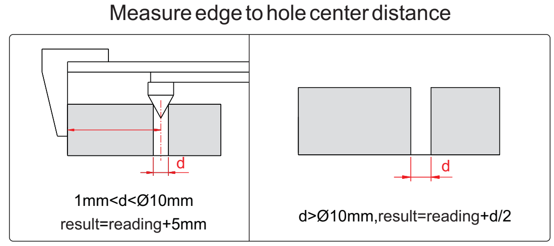
147-008-11

unit: mm



- Measure edge to hole center distance
- Resolution: 0.01mm/0.0005"
- Buttons: on/off, zero, mm/inch
- Data output(cable code: 100-11 or 100-12)
- Automatic power on/off
- Made of stainless steel

Measure edge to hole center distance



Code	Range	Accuracy	L
147-008-11	5-200mm/0.2-8"	±0.1mm	310mm
147-012-11	5-300mm/0.2-12"	±0.1mm	410mm

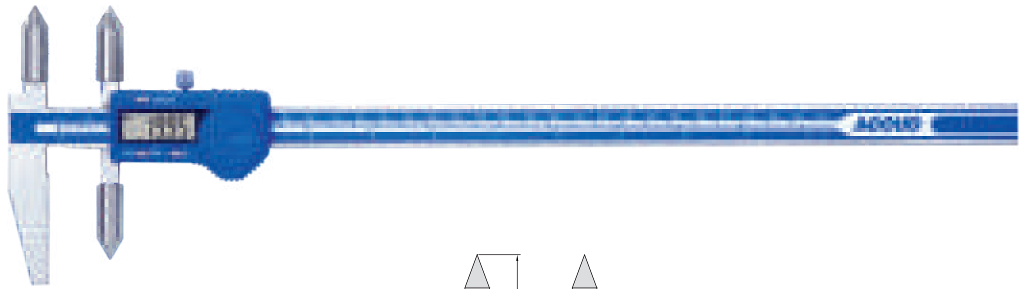
ACCUD

CALIPER

148 DIGITAL CENTERLINE/EDGE TO CENTER CALIPER

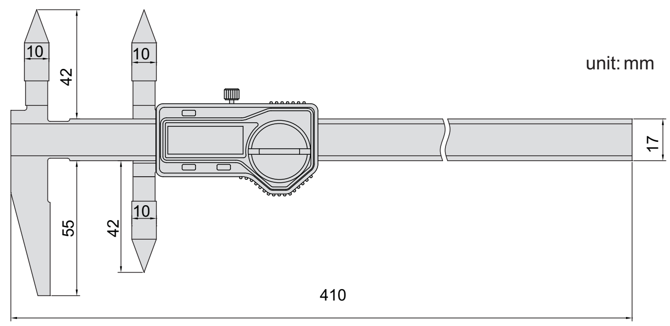
Data output

CR2032

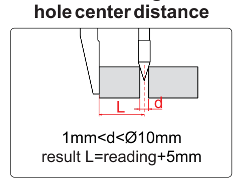


- Measure hole center distance or edge to hole center distance
- Resolution: 0.01mm/0.0005"
- Buttons: on/off, zero, mm/inch
- Data output(cable code: 100-11 or 100-12)
- Automatic power on/off
- Made of stainless steel

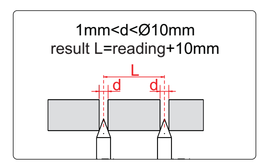
unit: mm



measure edge to hole center distance



measure hole center distance

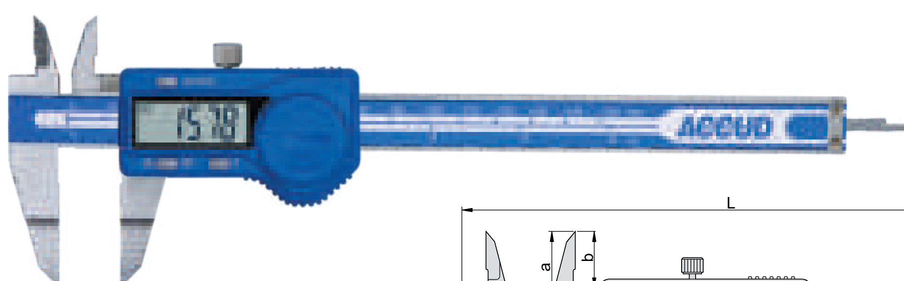


Code	Range of upper jaw (center to center)	Range of lower jaw (edge to center)	Accuracy
148-012-11	10-300mm/0.4-12"	5-300mm/0.2-12"	±0.08mm

SERIES 153 DIGITAL BLADE CALIPER

Data output

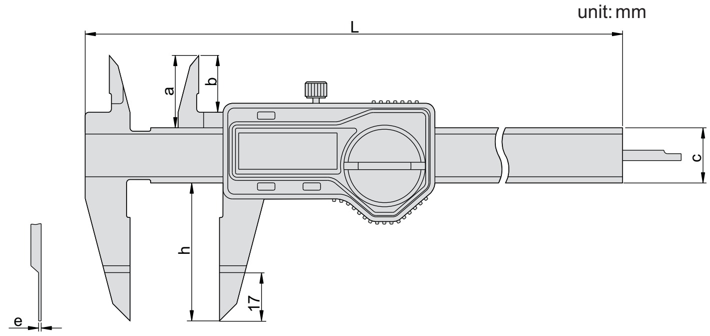
CR2032

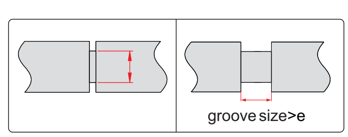


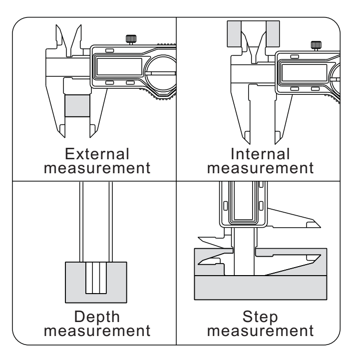
153-006-11

- Measure small grooves
- Resolution: 0.01mm/0.0005"
- Automatic power on/off
- Buttons: on/off, zero, mm/inch
- Data output(cable code: 100-11 or 100-12)
- Made of stainless steel

unit: mm

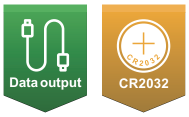


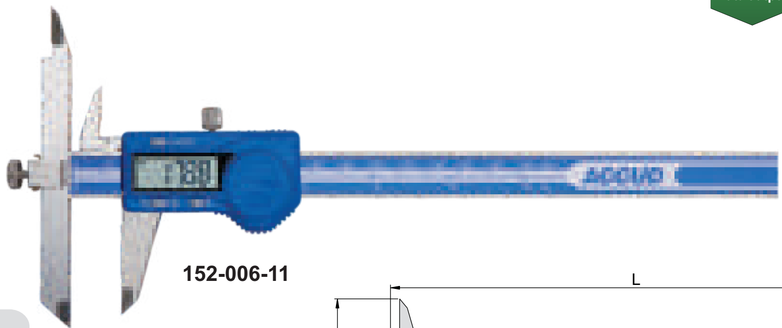




Code	Range	Accuracy	a	b	c	h	e	L
153-006-11	0-150mm/0-6"	±0.03mm	21	16	16	40	0.75	235
153-008-11	0-200mm/0-8"	±0.03mm	24	19	16	50	0.75	297
153-012-11	0-300mm/0-12"	±0.04mm	26	20.5	16	60	1.00	390

SERIES 152 DIGITAL OFFSET CALIPER

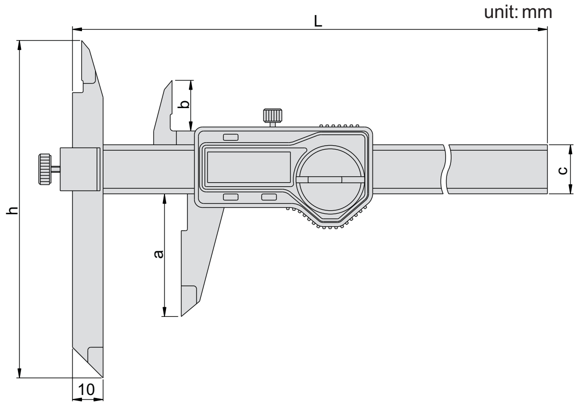




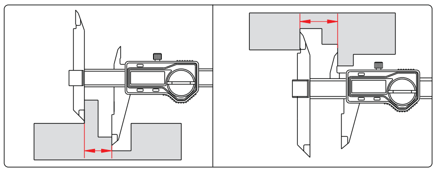
152-006-11

- Adjust the beam-mounted jaw to facilitate measurement of stepped sections and hard-to reach workpiece
- Resolution: 0.01mm/0.0005"
- Automatic power on/off
- Buttons: on/off, zero, mm/inch
- Data output(cable code: 100-11 or 100-12)
- Made of stainless steel

unit: mm

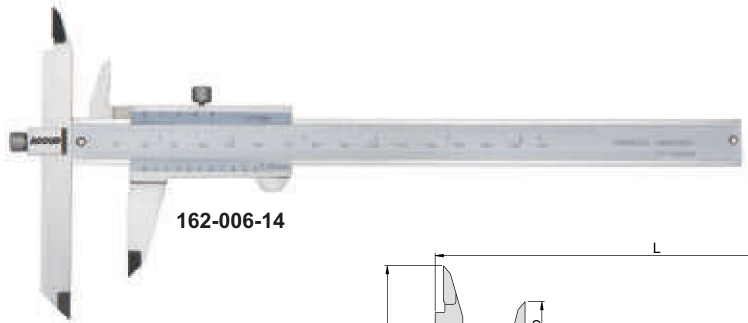


Code	Range	Accuracy	a	b	c	h	L
152-006-11	0-150mm/0-6"	±0.04mm	40	16.5	16	110	239
152-008-11	0-200mm/0-8"	±0.04mm	50	19.5	16	120	289
152-012-11	0-300mm/0-12"	±0.05mm	60	20.5	17	130	389



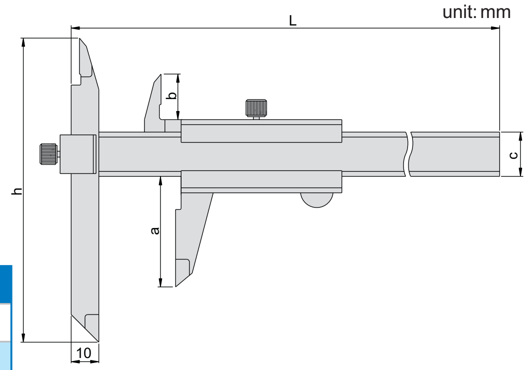
SERIES 162 OFFSET VERNIER CALIPER

- Adjust the beam-mounted jaw to facilitate measurement of stepped sections and hard-to reach workpiece
- Made of stainless steel
- Satin chrome plated reading surface



162-006-14

unit: mm

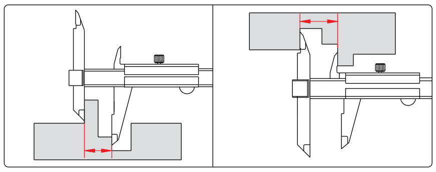


Graduation 0.02mm/0.001"

Code	Range	Accuracy	a	b	c	h	L
162-006-12	0-150mm/0-6"	±0.04mm	40	16.5	16	110	239
162-008-12	0-200mm/0-8"	±0.04mm	50	19.5	16	120	289
162-012-12	0-300mm/0-12"	±0.05mm	60	20.5	17	130	389

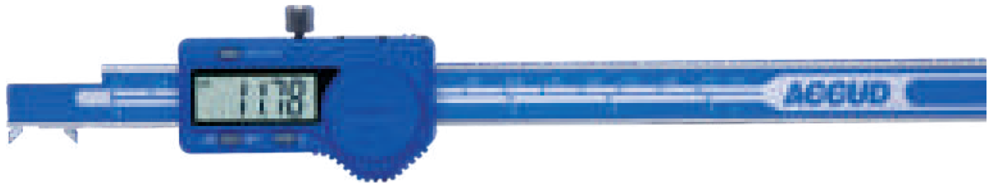
Graduation 0.05mm/1/128"

Code	Range	Accuracy	a	b	c	h	L
162-006-14	0-150mm/0-6"	±0.04mm	40	16.5	16	110	239
162-008-14	0-200mm/0-8"	±0.04mm	50	19.5	16	120	289
162-012-14	0-300mm/0-12"	±0.05mm	60	20.5	17	130	389



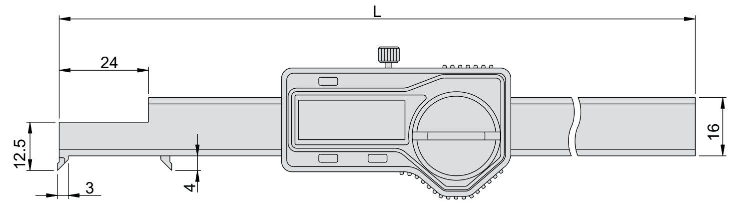
SERIES 154 DIGITAL HOOK CALIPER

Data output CR2032



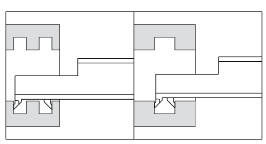
154-005-11

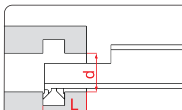
unit: mm



- Measure width of groove inside bores
- Resolution: 0.01mm/0.0005"
- Buttons: on/off, zero, mm/inch
- Automatic power on/off
- Data output(cable code: 100-11 or 100-12)
- Made of stainless steel

Code	Range	Accuracy	L
154-005-11	3-125mm	±0.04mm	250mm
154-008-11	3-200mm	±0.04mm	310mm





12.5mm<Ød<20mm, Range 3<L<24mm

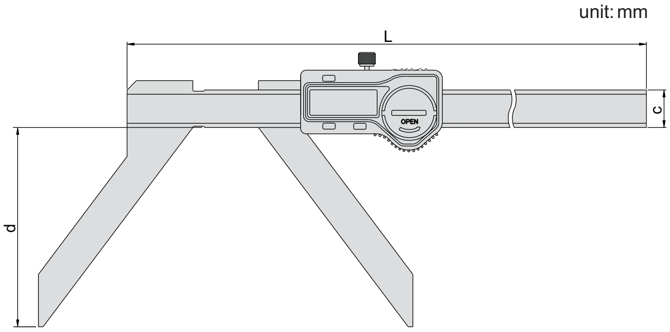
Ød>20mm, Range L:3-125 (code:154-005-11) 3-200(code:154-008-11)

SERIES 169 DIGITAL ARC RADIUS CALIPER

Data output CR2032

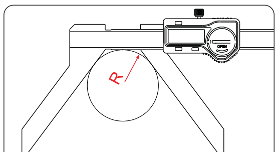
169-006-11

unit: mm

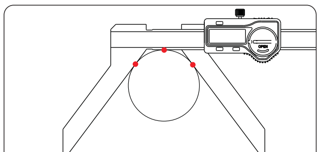


- Measure the radius of arc less than half round
- Resolution: 0.01mm/0.0005"
- Buttons: on/off, zero, mm/inch
- Automatic power on/off
- Data output(cable code: 100-11 or 100-12)
- Made of stainless steel

Code	Range (R)	Accuracy	c	d	L
169-006-11	5-150mm/0.2-6"	±0.05mm	16	65	263
169-008-11	5-200mm/0.2-8"	±0.07mm	16	85	313



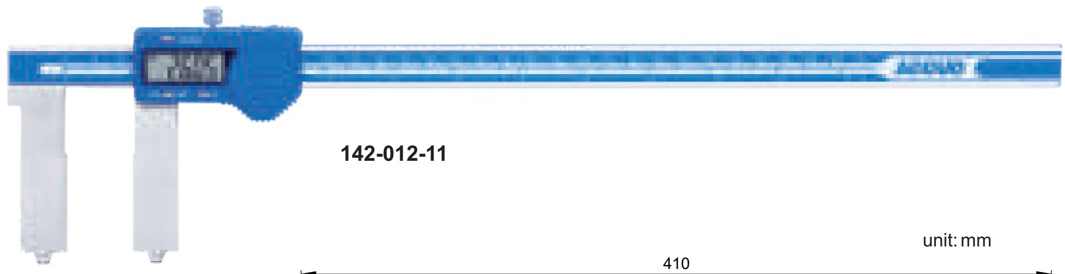
reading=R



caliper should touch three points of arc

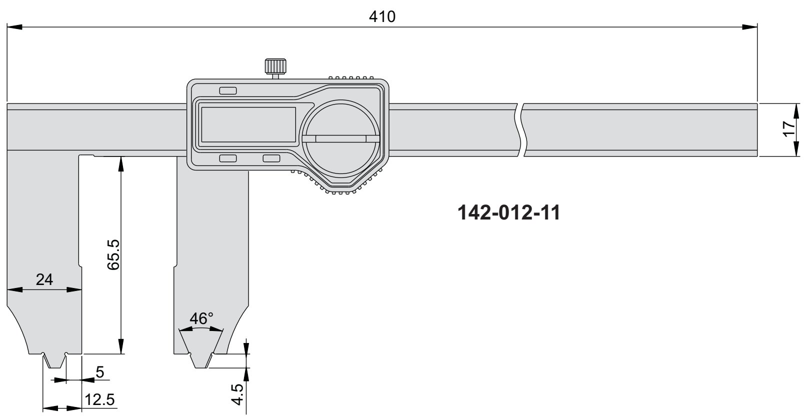
DIGITAL RTJ RING GROOVE CALIPER

Data output
CR2032

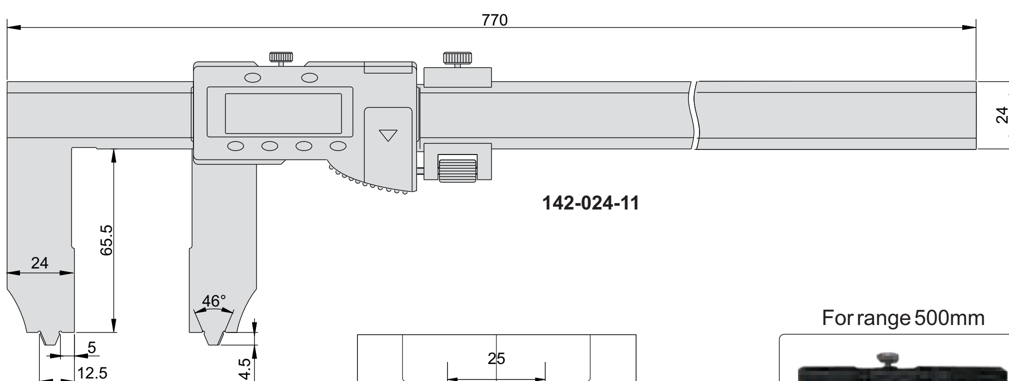


142-012-11

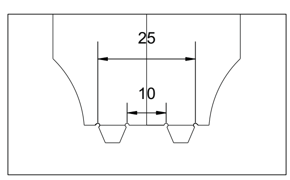
unit: mm



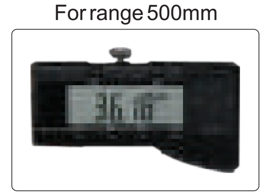
142-012-11



142-024-11

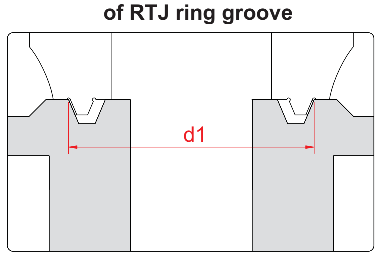


For range 500mm

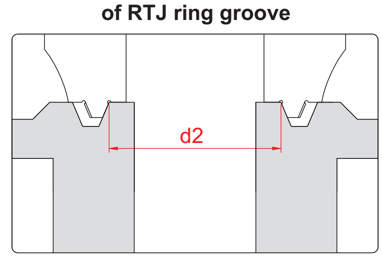


- Measure ring grooves of flange
- Resolution: 0.01mm/0.0005"
- Automatic power on/off
- Buttons: on/off, zero, mm/inch
- Data output(cable code: 100-11 or 100-12 for 142-012-11,100-15 for 142-024-11)
- Made of stainless steel

Measure outside diameter of RTJ ring groove



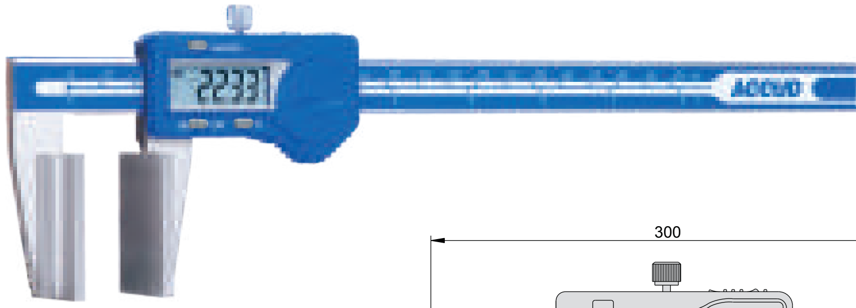
Measure inside diameter of RTJ ring groove



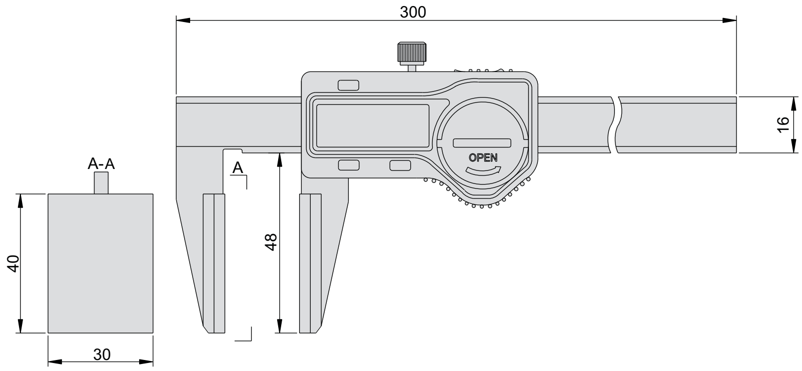
Code	Range (inside diameter of RTJ ring groove)	Range (outside diameter of RTJ ring groove)	Angle of RTJ ring groove	Accuracy
142-012-11	10-300mm/0.4-12"	25-300mm/1-12"	23°	±0.06mm
142-024-11	10-600mm/0.4-24"	25-600mm/1-24"	23°	±0.07mm

167 DIGITAL CALIPER WITH LARGE MEASURING FACES

Data output
CR2032

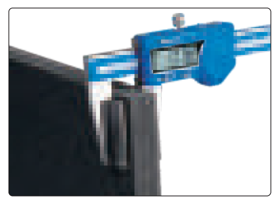


unit: mm

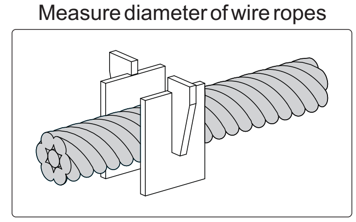


- Measure diameter of wire ropes, and thickness of soft materials like rubber, etc.
- Resolution: 0.01mm/0.0005"
- Buttons: on/off, zero, mm/inch
- Automatic power on/off
- Data output(cable code: 100-11 or 100-12)
- Made of stainless steel

Measure thickness of rubber



Measure diameter of wire ropes

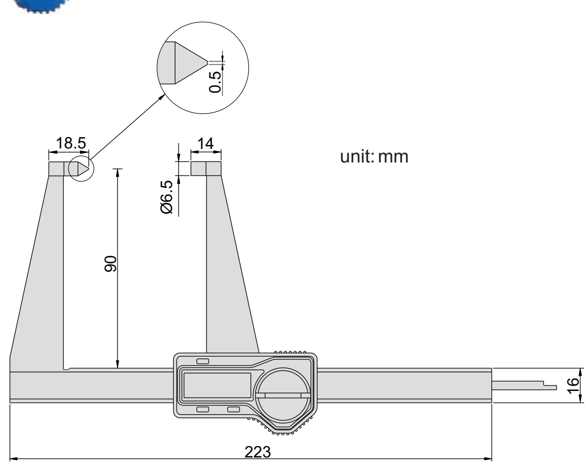


Code	Range	Accuracy
167-008-11	0-200mm/0-8"	±0.07mm

157 DIGITAL DISK BRAKE CALIPER

Data output
CR2032

unit: mm

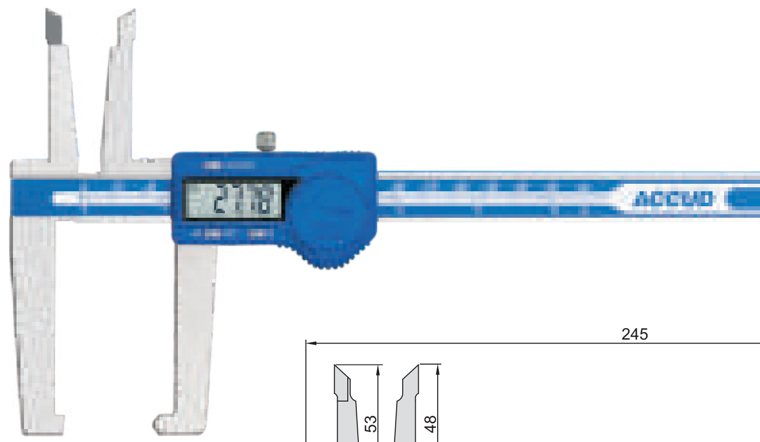


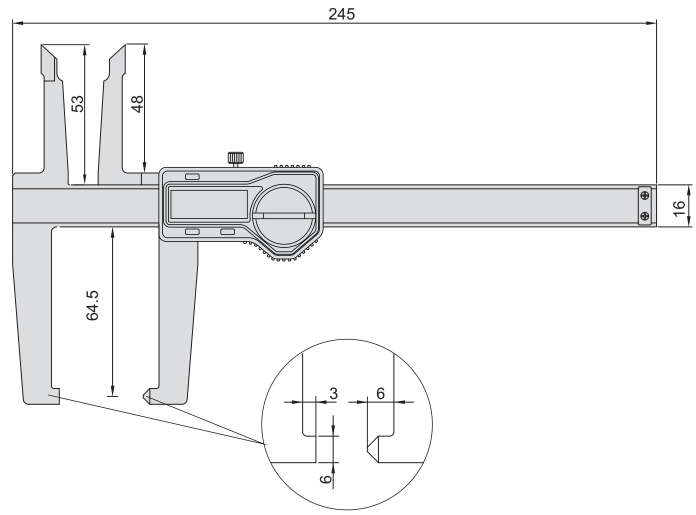
- Measure thickness of disk brakes
- Resolution: 0.01mm/0.0005"
- Buttons: on/off, zero, mm/inch
- Automatic power on/off
- Data output(cable code: 100-11 or 100-12)
- Made of stainless steel

Code	Range	Accuracy
157-005-11	0-125mm/0-5"	±0.05mm

165 DIGITAL DISK BRAKE AND PAD CALIPER

Data output | CR2032





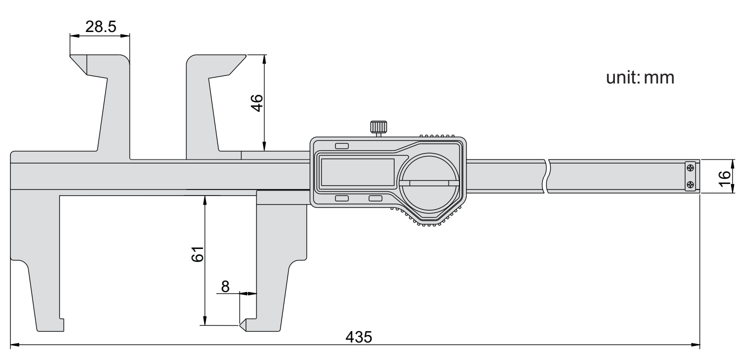
- Measure thickness of disk brakes and pad wear
- Resolution: 0.01mm/0.0005"
- Buttons: on/off, zero, mm/inch
- Automatic power on/off
- Data output(cable code: 100-11 or 100-12)
- Made of stainless steel

Code	Range	Accuracy
165-006-11	0-150mm/0-6"	±0.07mm

158 DIGITAL DRUM BRAKE CALIPER

Data output | CR2032

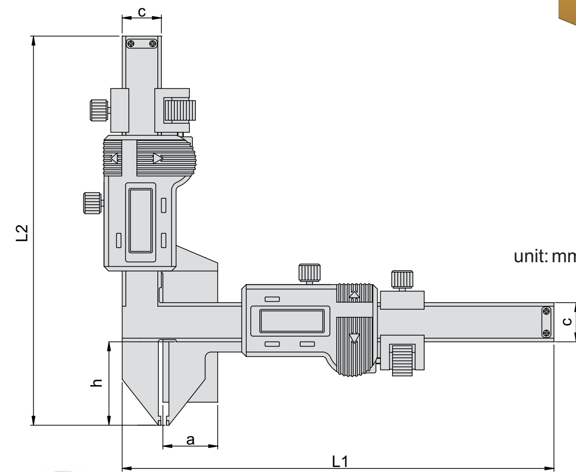
- Measure internal and external diameter of drum brakes
- Resolution 0.01mm/0.0005"
- Buttons: on/off, zero, mm/inch
- Automatic power on/off
- Data output(cable code: 100-11 or 100-12)
- Made of stainless steel



Code	Range	Accuracy
158-012-11	0-300mm/0-12"	±0.07mm

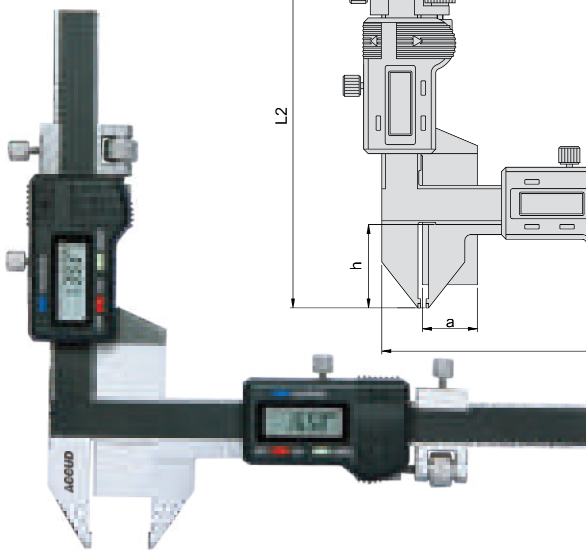
SERIES 156 DIGITAL GEAR TOOTH CALIPER

LR44

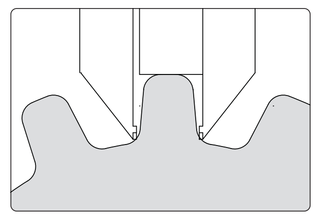


unit: mm

- Resolution: 0.01mm/0.0005"
- Buttons: on/off, zero, mm/inch
- Made of stainless steel

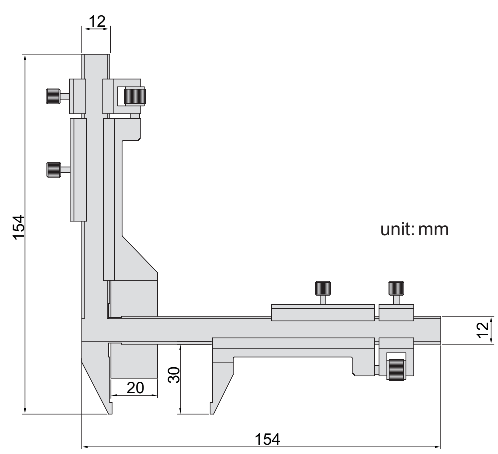


156-001-11

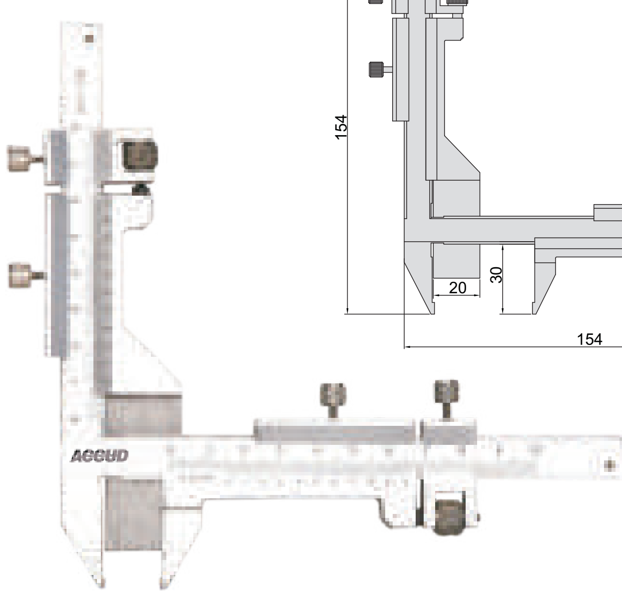


Code	Range	Accuracy	L1	L2	a	c	h
156-001-11	M1-25mm	±0.04mm	170	156	12.5	13	32
156-002-11	M5-50mm	±0.04mm	220	190	50.5	16	55

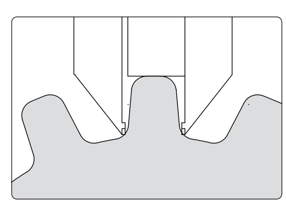
166 VERNIER GEAR TOOTH CALIPER



unit: mm



- Graduation: 0.02mm
- Made of stainless steel

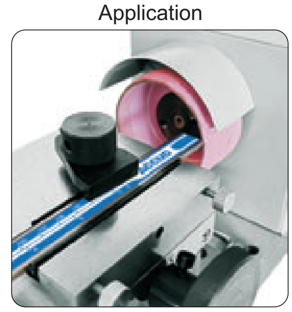


Code	Range	Accuracy
166-001-11	M1-26mm	±0.04mm

880 CALIPER END GRINDING MACHINE

- Used for grinding the depth measuring surface of the end of calipers

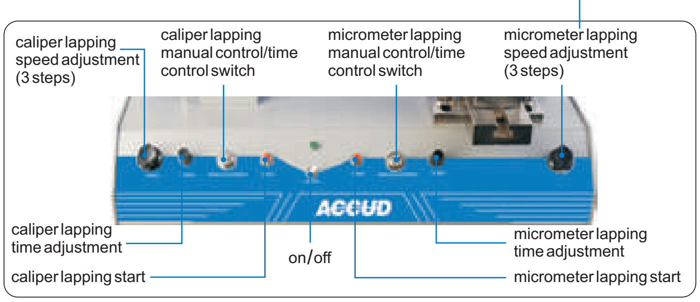
Application



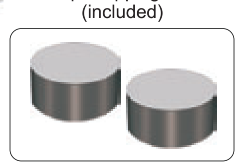
Code	Power supply	Dimension (LxWxH)	Weight
880-000-11	220V, 50/60Hz	370x200x160mm	15kg

881 CALIPER/MICROMETER LAPPING MACHINE

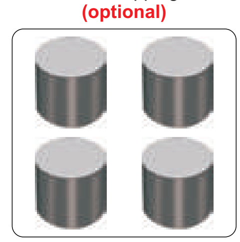
- For lapping measuring surfaces of caliper lower jaws and outside micrometer
- Suitable for 0 300mm range calipers and 0-100mm range outside micrometers



Caliper lapping block (included)



Micrometer lapping block **(optional)**



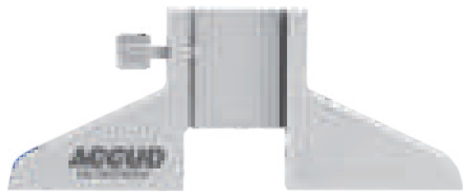
Lapping measuring surfaces of outside micrometer

lapping measuring surfaces of caliper lower jaws

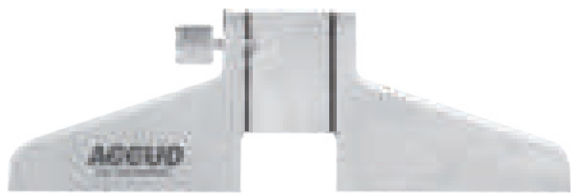
Code	Power supply	Dimension (LxWxH)	Weight
881-002-11	220V, 50/60Hz	430x400x210mm	28kg

SERIES 179 ACCESSORY FOR CALIPER

VIDEO



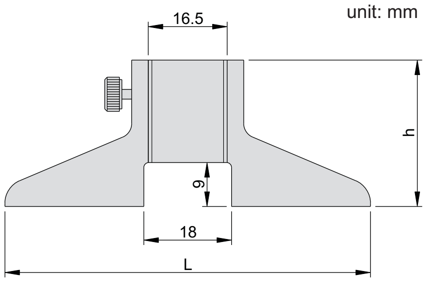
179-000-00



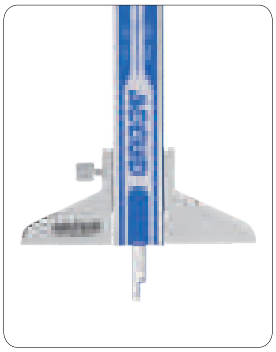
179-000-01

- For caliper to increase the stability of depth measurement
- For all calipers which range is 150mm and 200mm and beam width is 16mm
- Made of stainless steel

unit: mm



Application

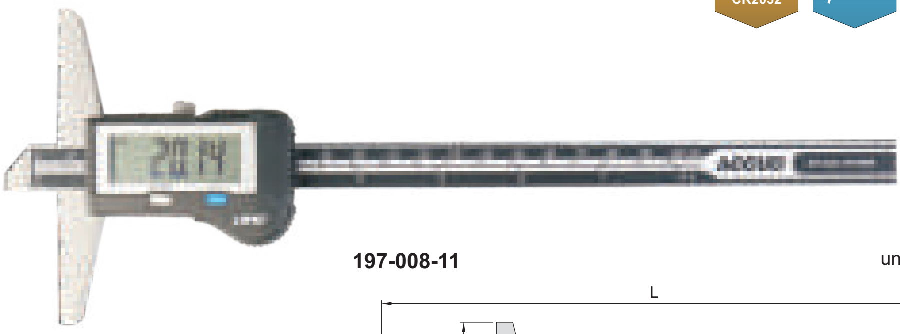


Code	h	L
179-000-00	30mm	75mm
179-000-01	32mm	100mm

SERIES 197 IP67 WATERPROOF DIGITAL DEPTH CALIPER

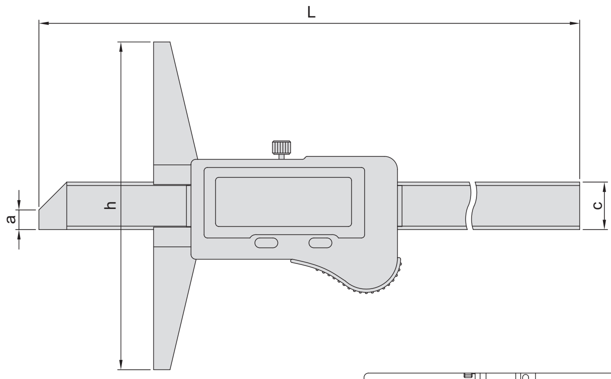
CR2032 IP67 ABS

SYLVAC SYSTEM — Switzerland —

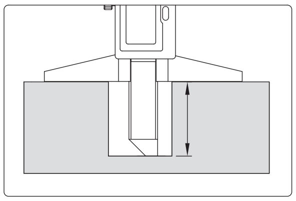


197-008-11

unit: mm



- IP67 protection level
- Absolute measuring system
- Resolution: 0.01mm/0.0005"
- Automatic power off
- Buttons: zero, mm/inch, data preset
- Made of stainless steel

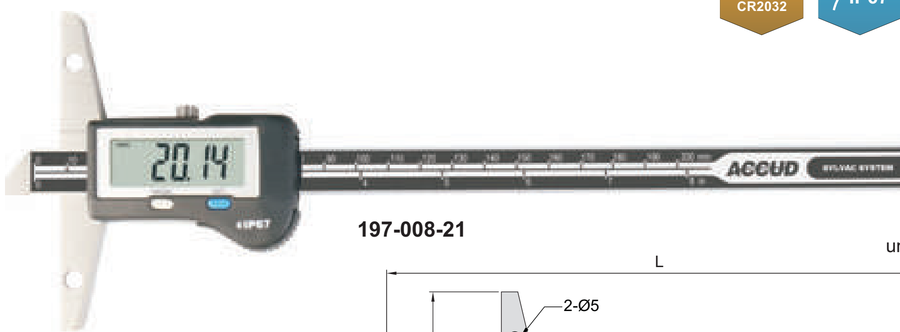


Code	Range	Accuracy	a	c	h	L
197-006-11	0-150mm/0-6"	±0.02mm	5	14.5	100	232
197-008-11	0-200mm/0-8"	±0.02mm	5	14.5	100	285
197-012-11	0-300mm/0-12"	±0.03mm	5	14.5	150	390

SERIES 197 IP67 WATERPROOF DIGITAL DEPTH CALIPER WITH HOLES

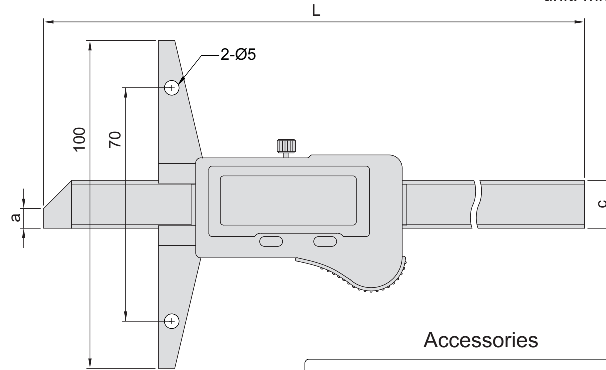
CR2032 | IP67 | ABS

SYLVAC SYSTEM Switzerland



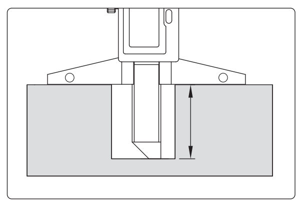
197-008-21

unit: mm



- IP67 protection level
- Absolute measuring system
- Resolution: 0.01mm/0.0005"
- Automatic power off
- Buttons: zero, mm/inch, data preset
- Made of stainless steel
- Optional accessory: series 170 extension base

Code	Range	Accuracy	a	c	L
197-006-21	0-150mm/0-6"	±0.02mm	5	14.5	232
197-008-21	0-200mm/0-8"	±0.02mm	5	14.5	285
197-012-21	0-300mm/0-12"	±0.03mm	5	14.5	390

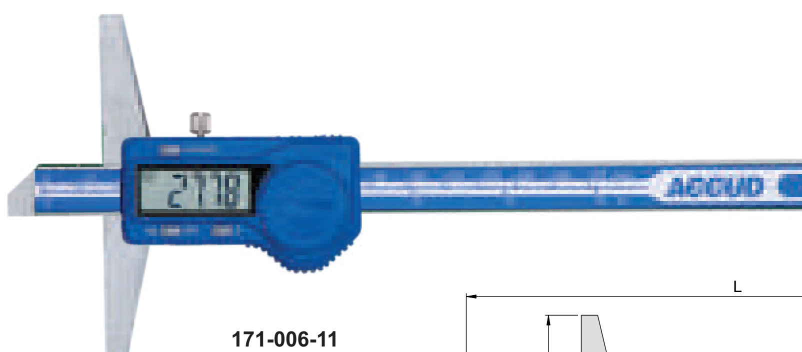


Accessories

series 170 (optional)

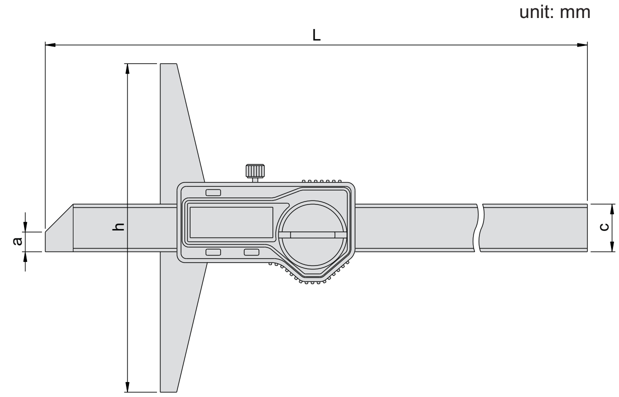
SERIES 171 DIGITAL DEPTH CALIPER

Data output | CR2032



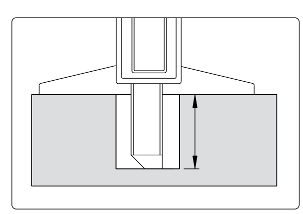
171-006-11

unit: mm



- Resolution: 0.01mm/0.0005"
- Automatic power on/off
- Buttons: on/off, zero, mm/inch
- Data output(cable code:100-11 or 100-12)
- Made of stainless steel

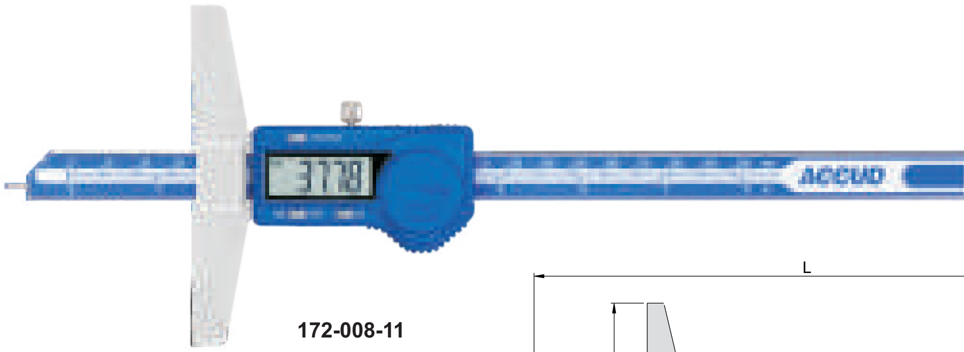
Code	Range	Accuracy	a	c	h	L
171-006-11	0-150mm/0-6"	±0.03mm	6	14.5	100	230
171-008-11	0-200mm/0-8"	±0.03mm	6	14.5	100	280
171-012-11	0-300mm/0-12"	±0.04mm	6	14.5	150	380
171-020-11	0-500mm/0-20"	±0.05mm	7	15	150	585



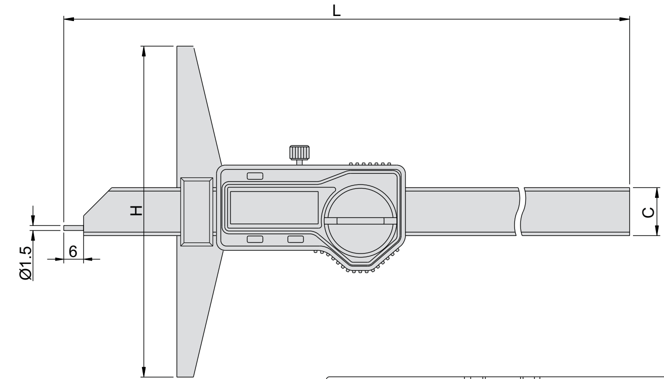
DEPTH

SERIES 172 DIGITAL PIN DEPTH CALIPER

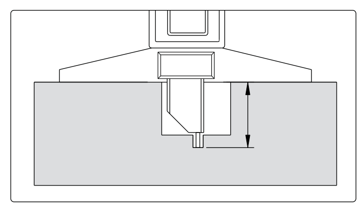
Data output
CR2032



172-008-11



- Measure the depth of small holes or grooves
- Resolution: 0.01mm/0.0005"
- Automatic power on/off
- Buttons: on/off, zero, mm/inch
- Data output(cable code:100-11 or 100-12)
- Made of stainless steel

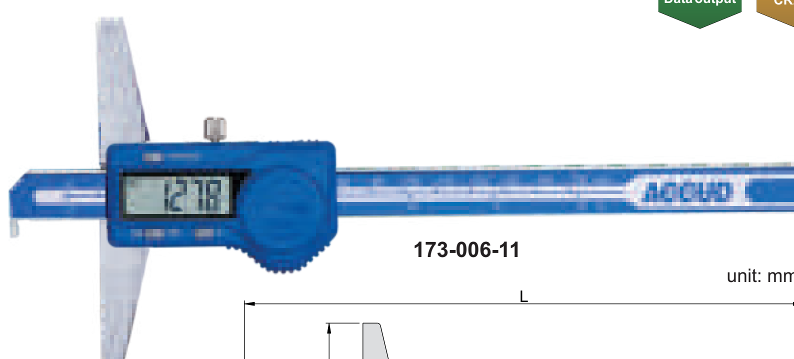


Code	Range	Accuracy	H	L	C
172-008-11	0-200mm/0-8"	±0.03mm	100	291	14.5
172-012-11	0-300mm/0-12"	±0.04mm	150	395	15

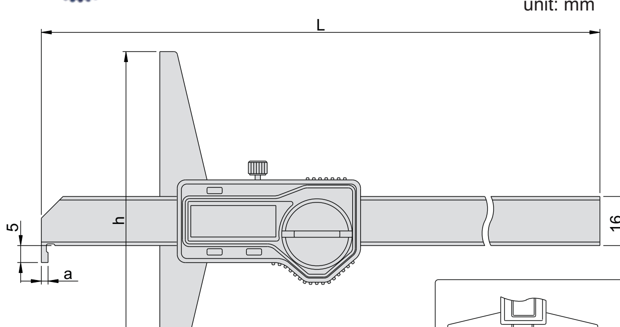
SERIES 173 DIGITAL HOOK DEPTH CALIPER

Data output
CR2032

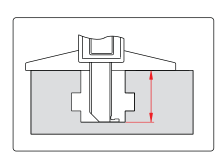
VIDEO



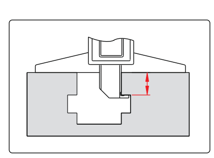
173-006-11

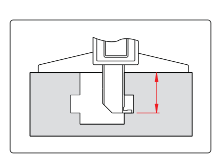


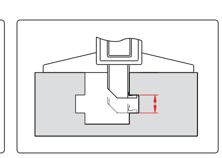
- Measure the depth of grooves
- Resolution: 0.01mm/0.0005"
- Automatic power on/off
- Buttons: on/off, zero, mm/inch
- Data output(cable code:100-11 or 100-12)
- Made of stainless steel



Code	Range	Accuracy	a	h	L
173-006-11	0-150mm/0-6"	±0.04mm	2	100	230
173-008-11	0-200mm/0-8"	±0.04mm	2	100	280
173-012-11	0-300mm/0-12"	±0.05mm	2	150	380
173-020-11	0-500mm/0-20"	±0.05mm	3	150	585
173-006-21	0-150mm/0-6"	±0.04mm	1	100	230
173-008-21	0-200mm/0-8"	±0.04mm	1	100	280
173-012-21	0-300mm/0-12"	±0.05mm	1	150	380
173-020-21	0-500mm/0-20"	±0.05mm	3	200	585



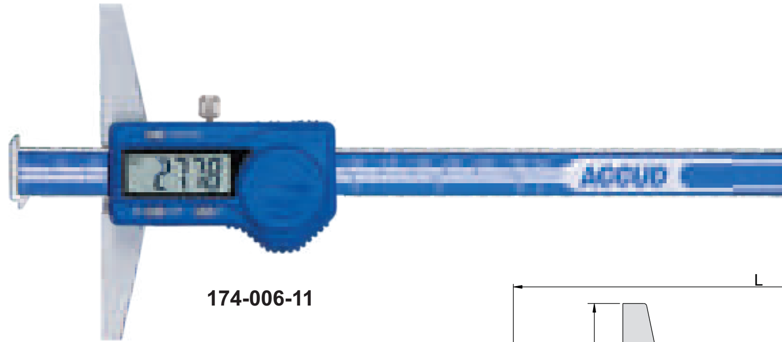




SERIES 174 DIGITAL DOUBLE HOOK DEPTH CALIPER

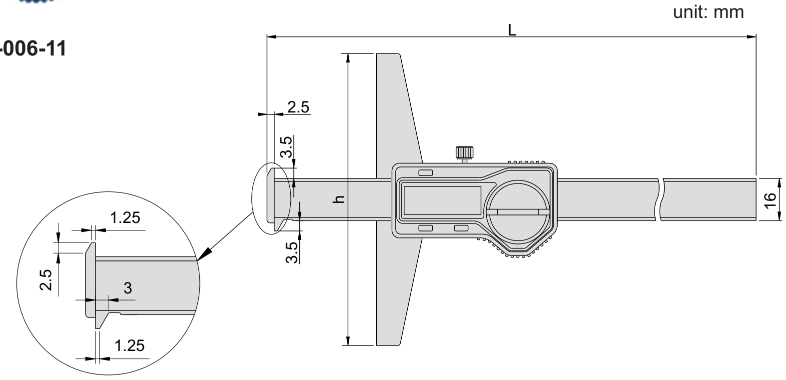
Data output CR2032

VIDEO



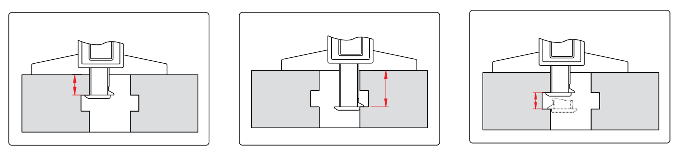
174-006-11

unit: mm



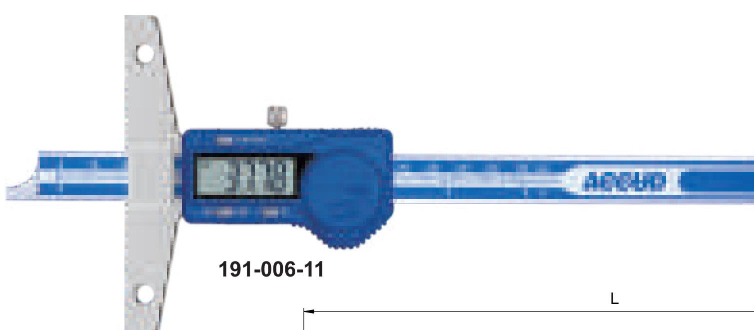
- Measure the depth of grooves
- Resolution: 0.01mm/0.0005"
- Automatic power on/off
- Buttons: on/off, zero, mm/inch
- Data output(cable code:100-11 or 100-12)
- Made of stainless steel

Code	Range	Accuracy	h	L
174-006-11	0-150mm/0-6"	±0.03mm	100	233
174-008-11	0-200mm/0-8"	±0.03mm	100	283
174-012-11	0-300mm/0-12"	±0.04mm	150	383



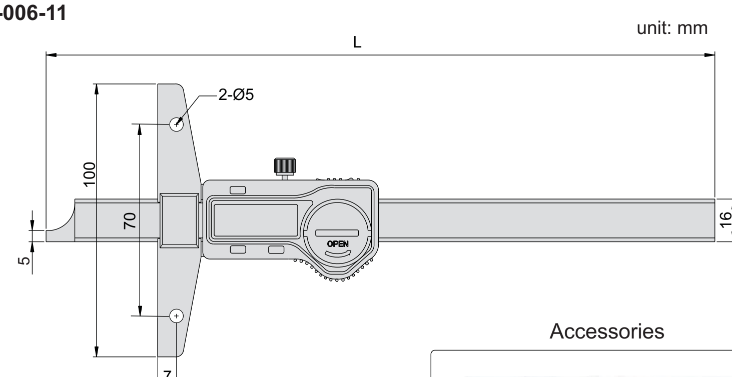
SERIES 191 DIGITAL DEPTH CALIPER WITH HOLES

Data output CR2032



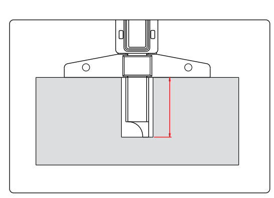
191-006-11

unit: mm



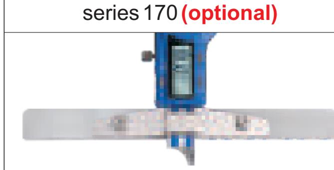
- With hole, for mounting the extension base
- Resolution: 0.01mm/0.0005"
- Buttons: on/off, zero, mm/inch
- Automatic power on/off
- Data output(cable code:100-11 or 100-12)
- Made of stainless steel
- Optional accessory: series 170 extension base

Code	Range	Accuracy	L
191-006-11	0-150mm/0-6"	±0.03mm	237
191-008-11	0-200mm/0-8"	±0.03mm	287
191-012-11	0-300mm/0-12"	±0.04mm	403



Accessories

series 170 **(optional)**



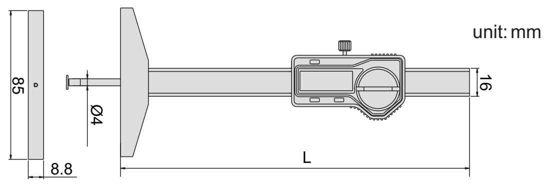
DEPTH

SERIES 193 DIGITAL DEPTH CALIPER WITH ROUND DEPTH BAR

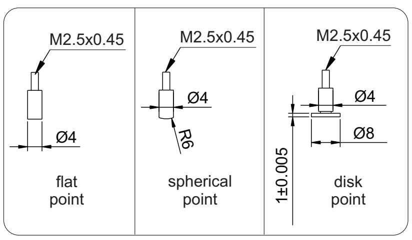
Data output CR2032

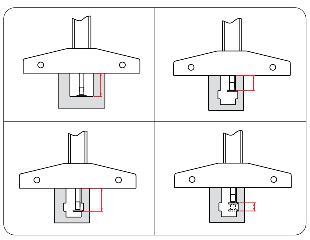
- Resolution: 0.01mm/0.0005"
- Supplied with three interchangeable points (flat, spherical, disk)
- Buttons: on/off, set, mm/inch
- Automatic power off
- Data output (cable code: 100-11 or 100-12)
- Made of stainless steel

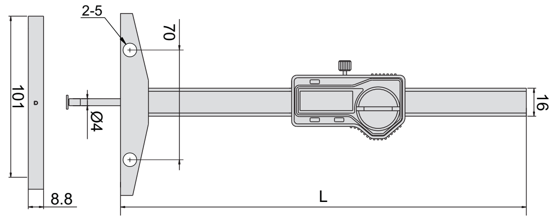
193-004-11



points **(include)**







193-006-11,193-008-11 and 193-012-11

Code	Range	Accuracy	L
193-004-11	0-100mm/0-4"	±0.02mm	200
193-006-11	0-150mm/0-6"	±0.03mm	300
193-008-11	0-200mm/0-8"	±0.03mm	300
193-012-11	0-300mm/0-12"	±0.04mm	400

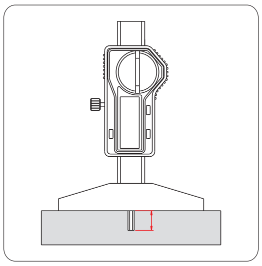
Accessory application

170 series **(optional)**

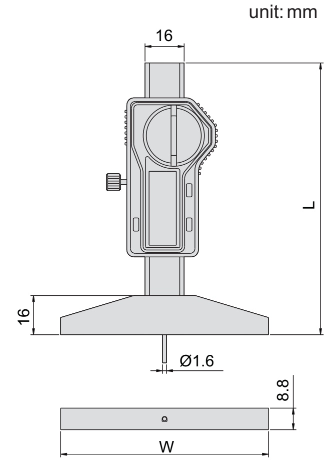
SERIES 194 DIGITAL DEPTH CALIPER WITH ROUND DEPTH BAR

Data output CR2032

- Measure depth of small groove and hole
- Resolution: 0.01mm/0.0005"
- Buttons: on/off, set, mm/inch
- Automatic power off
- Data output (cable code: 100-11 or 100-12)
- Made of stainless steel



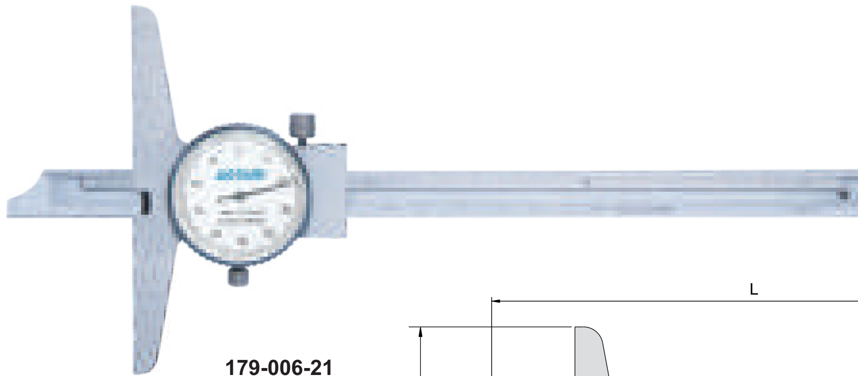
194-002-11



Code	Range	Accuracy	L	W
194-001-11	0-25mm/0-1"	±0.02mm	110	85
194-002-11	0-50mm/0-2"	±0.02mm	135	85
194-006-11	0-150mm/0-6"	±0.03mm	235	100

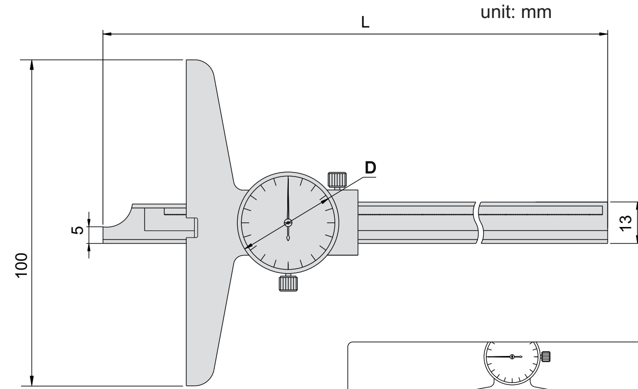
SERIES 179 DIAL DEPTH CALIPER

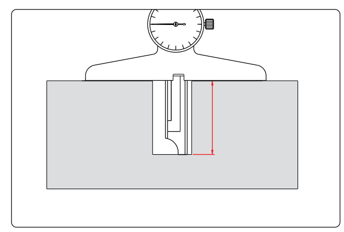
Shockproof



179-006-21

unit: mm

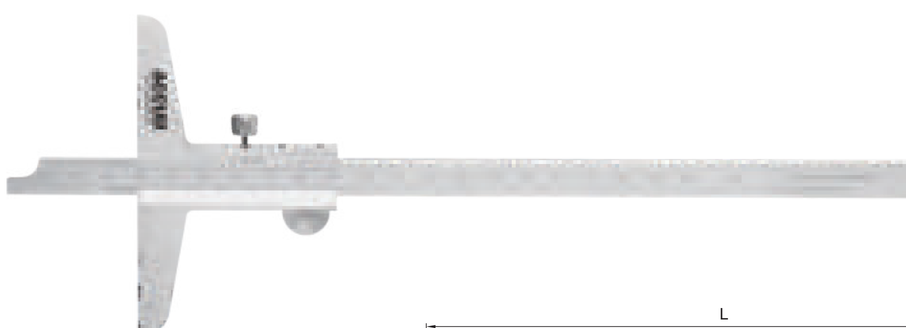




- Shockproof dial indicator
- Graduation: 0.02mm
- Made of stainless steel

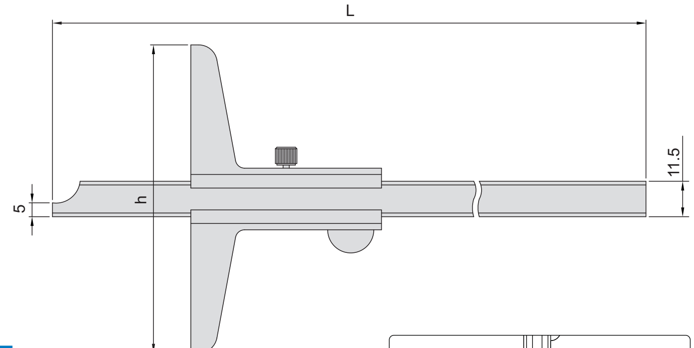
Code	Range	Accuracy	D	L
179-006-21	0-150mm	±0.03mm	Ø39	235
179-008-21	0-200mm	±0.03mm	Ø39	285
179-012-21	0-300mm	±0.04mm	Ø39	308

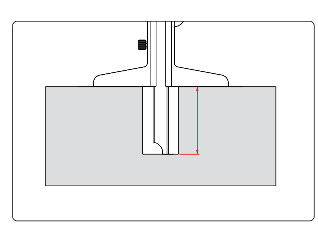
SERIES 177 VERNIER DEPTH CALIPER



177-008-11

unit: mm

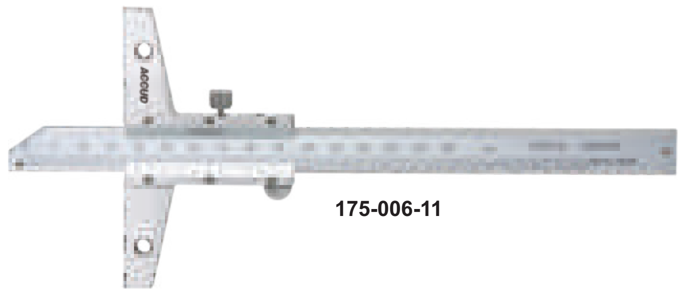




- Graduation: 0.02mm
- Made of stainless steel
- Satin chrome plated reading surface

Code	Range	Accuracy	h	L
177-006-11	0-150mm	±0.03mm	100	245
177-008-11	0-200mm	±0.03mm	100	282
177-012-11	0-300mm	±0.04mm	100	382
177-020-11	0-500mm	±0.05mm	150	585

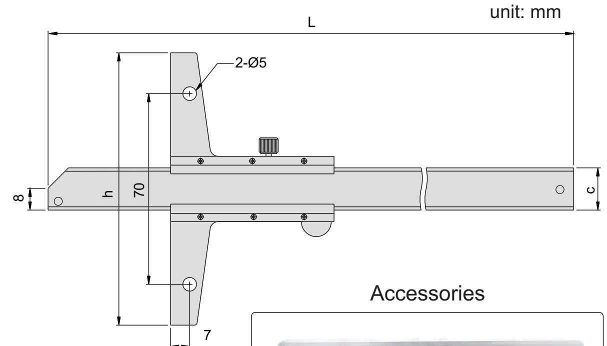
SERIES 175 VERNIER DEPTH CALIPER



175-006-11

- Made of stainless steel
- Satin chrome plating finish on reading surface
- Optional accessory: series 170 extension base

unit: mm

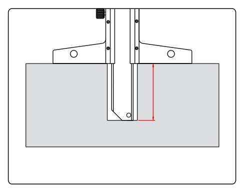


Graduation 0.02mm

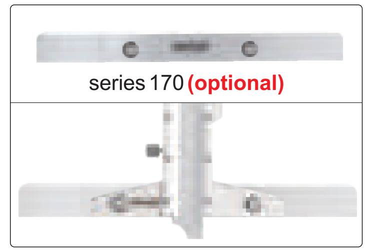
Code	Range	Accuracy	c	h	L
175-006-11	0-150mm	±0.03mm	16	100	240
175-008-11	0-200mm	±0.03mm	16	100	290
175-012-11	0-300mm	±0.04mm	16	100	390
175-024-11	0-600mm	±0.05mm	16	150	704
175-040-11	0-1000mm	±0.07mm	18	200	1124

Graduation 0.05mm

Code	Range	Accuracy	c	h	L
175-006-13	0-150mm	±0.05mm	16	100	240
175-008-13	0-200mm	±0.05mm	16	100	290
175-012-13	0-300mm	±0.08mm	16	100	390
175-024-13	0-600mm	±0.10mm	16	150	704
175-040-13	0-1000mm	±0.15mm	18	200	1124

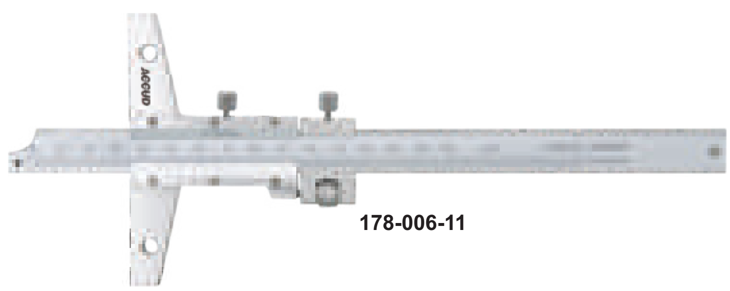


Accessories



series 170 **(optional)**

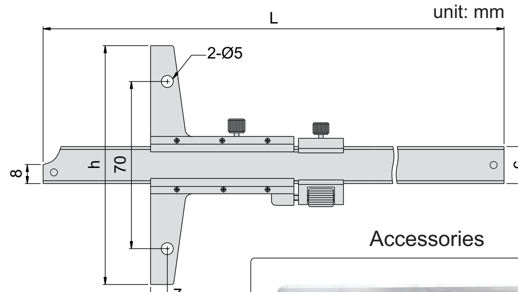
SERIES 178 VERNIER DEPTH CALIPER



178-006-11

- With fine adjustment
- Made of stainless steel
- Satin chrome plating finish on reading surface
- Optional accessory: series 170 extension base

unit: mm

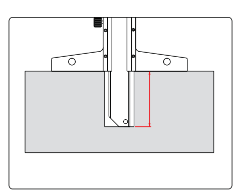


Graduation 0.02mm

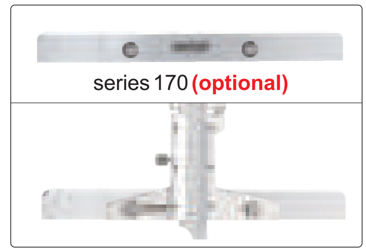
Code	Range	Accuracy	c	h	L
178-006-11	0-150mm	±0.03mm	16	100	256
178-008-11	0-200mm	±0.03mm	16	100	306
178-012-11	0-300mm	±0.04mm	16	100	406
178-024-11	0-600mm	±0.05mm	16	150	720
178-040-11	0-1000mm	±0.07mm	18	200	1140

Graduation 0.05mm

Code	Range	Accuracy	c	h	L
178-006-13	0-150mm	±0.05mm	16	100	256
178-008-13	0-200mm	±0.05mm	16	100	306
178-012-13	0-300mm	±0.08mm	16	100	406
178-024-13	0-600mm	±0.10mm	16	150	720
178-040-13	0-1000mm	±0.15mm	18	200	1140

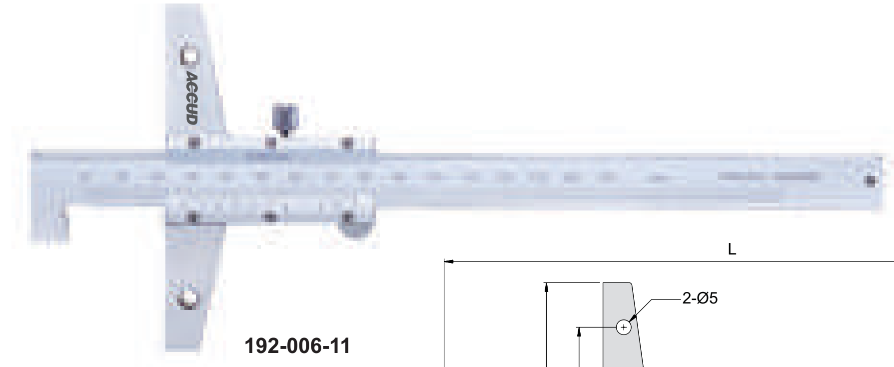


Accessories



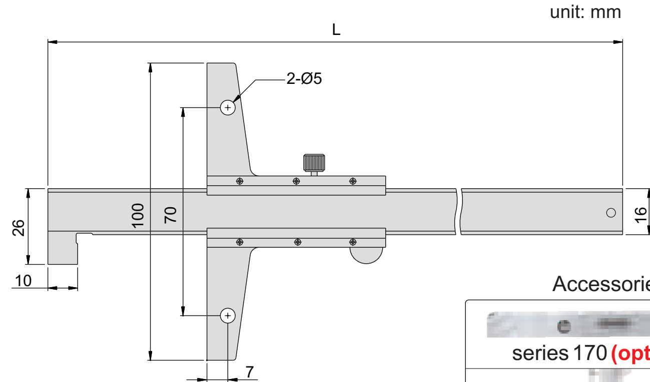
series 170 **(optional)**

SERIES 192 VERNIER HOOK DEPTH CALIPER



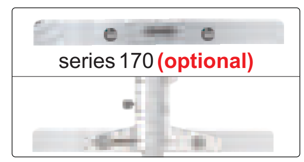
192-006-11

unit: mm

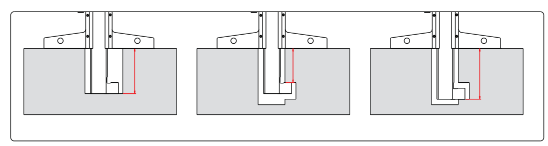


- Graduation: 0.02mm
- Made of stainless steel
- Satin chrome plating finish on reading surface
- Optional accessory: series 170 extension base

Accessories



Code	Range	Accuracy	L
192-006-11	0-150mm	±0.03mm	245
192-008-11	0-200mm	±0.03mm	295
192-012-11	0-300mm	±0.04mm	395



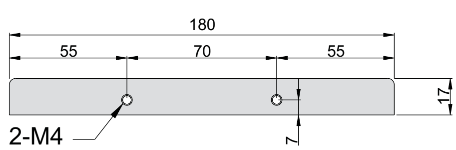
DEPTH

SERIES 170 EXTENSION BASE FOR DEPTH CALIPER

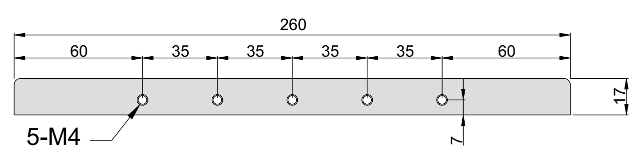
VIDEO

170-260-01

unit: mm

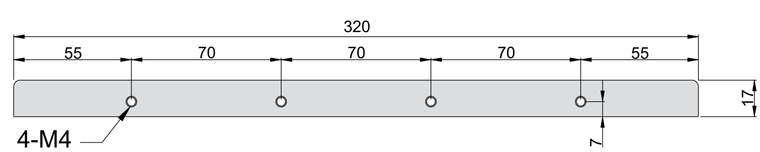


170-180-01



170-260-01

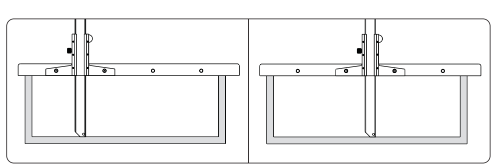
- Add extension base to measure large hole or gap
- For depth caliper 175, 178, 191 ,192 and 193 (range 150, 200mm) series

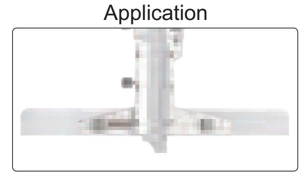


170-320-01

Code	Length
170-180-01	180mm
170-260-01	260mm
170-320-01	320mm

Application

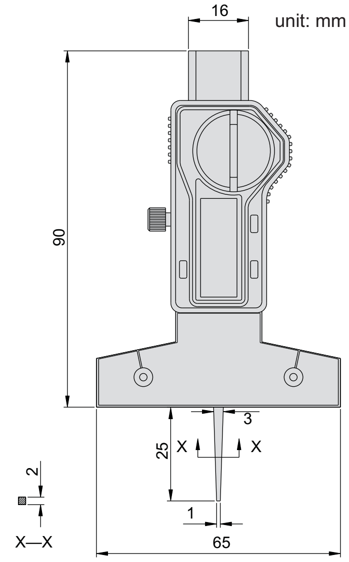




176 DIGITAL DEPTH CALIPER

Data output
CR2032

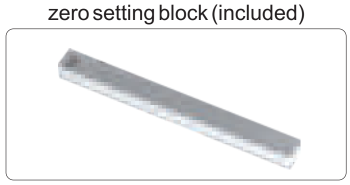
- Measure the depth of grooves, small holes and tire thread
- Resolution: 0.01mm/0.0005"
- Automatic power on/off
- Buttons: on/off, zero, mm/inch
- Data output(cable code:100-11 or 100-12)
- Made of stainless steel

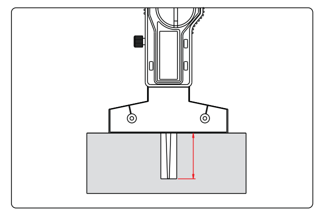


Set zero

Measure tire thread

zero setting block (included)



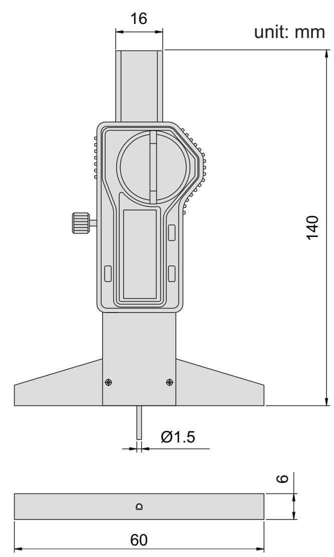


Code	Range	Accuracy
176-001-11	0-25mm/0-1"	±0.03mm

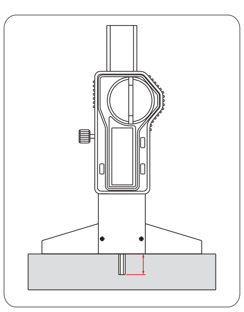
176 DIGITAL DEPTH CALIPER

Data output
CR2032

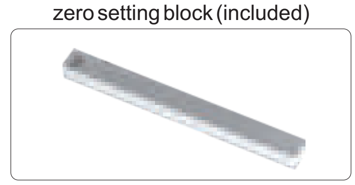
- Measure depth of small groove and hole
- Resolution: 0.01mm/0.0005"
- Buttons: on/off, set, mm/inch
- Automatic power off
- Data output (cable code: 100-11 or 100-12)
- Made of stainless steel



Set zero



zero setting block (included)

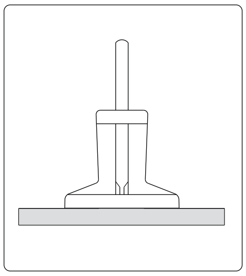


Code	Range	Accuracy
176-001-21	0-25mm/0-1.2"	±0.03mm

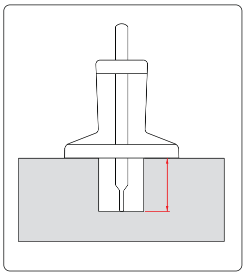
176 VERNIER DEPTH CALIPER

- Measure the depth of grooves, small holes and tire thread
- Graduation: 0.1mm
- Made of stainless steel

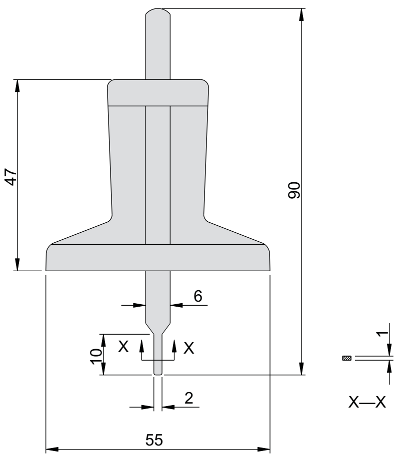
Set zero



Measure



unit: mm



Code	Range	Accuracy
176-030-12	0-30mm	±0.10mm

SERIES 395 DIGITAL DEPTH MICROMETER

IP65

Data output

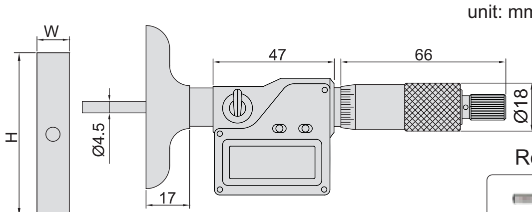
- Resolution: 0.001mm/0.00005"
- Micrometer head accuracy: +/-3μm
  Rod accuracy: +/-(2+L/75)μm, L is the measuring range in mm
- Button: on/off, set, mm/inch, ABS/INC, data output
- IP65 protection leve
- Data output
- Automatic power off
- Rods with flat end
- Ratchet stop

VIDEO

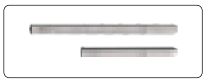
395-002-01

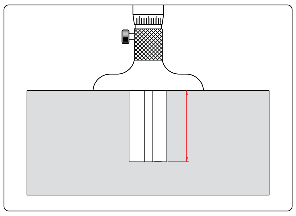
Code	Range	Base(HxW)	Rod
395-001-01	0-25mm/0-1"	101x17mm	1pc
395-002-01	0-50mm/0-2"	101x17mm	2pcs
395-004-01	0-100mm/0-4"	101x17mm	4pcs
395-006-01	0-150mm/0-6"	101x17mm	6pcs
395-008-01	0-200mm/0-8"	101x17mm	8pcs
395-012-01	0-300mm/0-12"	101x17mm	12pcs
395-001-02	0-25mm/0-1"	63x17mm	1pc
395-002-02	0-50mm/0-2"	63x17mm	2pcs
395-004-02	0-100mm/0-4"	63x17mm	4pcs
395-006-02	0-150mm/0-6"	63x17mm	6pcs
395-008-02	0-200mm/0-8"	63x17mm	8pcs
395-012-02	0-300mm/0-12"	63x17mm	12pcs

unit: mm

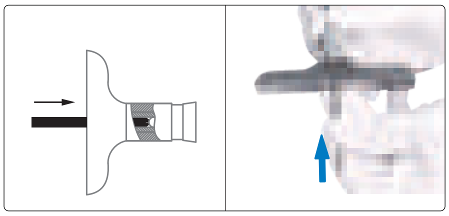


Rod **(included)**





Install rod



ACCUD

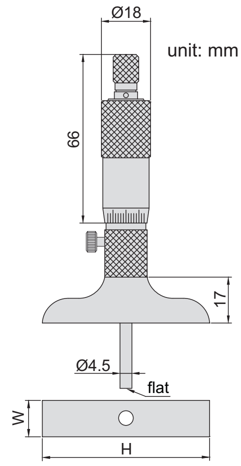
DEPTH

SERIES 391 DEPTH MICROMETER

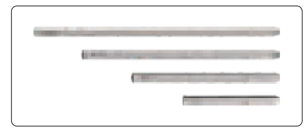
- Micrometer head accuracy: ±3μm
- Rod accuracy: ±(2+L/75)μm,
  L is the measuring range in mm
- Supplied with rods
- Ratchet stop

Code	Range	Base (HxW)	Rod
391-001-01	0-25mm	101.5x17mm	1pc
391-002-01	0-50mm	101.5x17mm	2pcs
391-003-01	0-75mm	101.5x17mm	3pcs
391-004-01	0-100mm	101.5x17mm	4pcs
391-006-01	0-150mm	101.5x17mm	6pcs
391-008-01	0-200mm	101.5x17mm	8pcs
391-012-01	0-300mm	101.5x17mm	12pcs
391-001-02	0-25mm	63x17mm	1pc
391-002-02	0-50mm	63x17mm	2pcs
391-003-02	0-75mm	63x17mm	3pcs
391-004-02	0-100mm	63x17mm	4pcs
391-006-02	0-150mm	63x17mm	6pcs
391-008-02	0-200mm	63x17mm	8pcs
391-012-02	0-300mm	63x17mm	12pcs

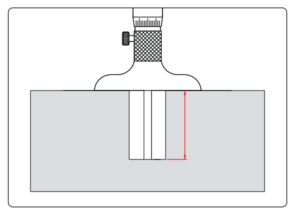
391-001-01

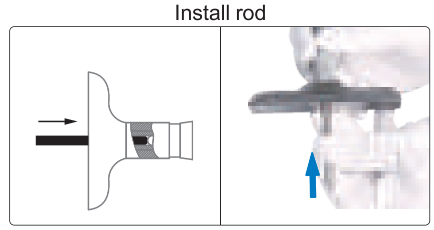


Rod (included)



Install rod



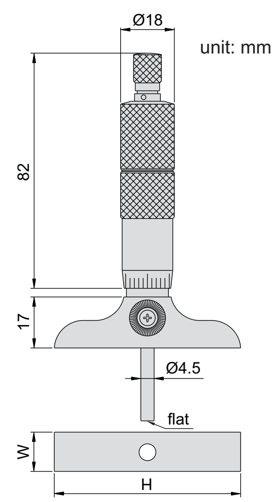


SERIES 392 DEPTH MICROMETER

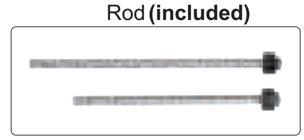
- Micrometer head accuracy: ±3μm
- Rod accuracy: ±(2+L/75)μm,
  L is the measuring range in mm
- Supplied with rods
- Ratchet stop

Code	Range	Base (HxW)	Rod
392-001-01	0-25mm	101.5x17mm	1pc
392-002-01	0-50mm	101.5x17mm	2pcs
392-003-01	0-75mm	101.5x17mm	3pcs
392-004-01	0-100mm	101.5x17mm	4pcs
392-006-01	0-150mm	101.5x17mm	6pcs
392-008-01	0-200mm	101.5x17mm	8pcs
392-012-01	0-300mm	101.5x17mm	12pcs
392-001-02	0-25mm	63x17mm	1pc
392-002-02	0-50mm	63x17mm	2pcs
392-003-02	0-75mm	63x17mm	3pcs
392-004-02	0-100mm	63x17mm	4pcs
392-006-02	0-150mm	63x17mm	6pcs
392-008-02	0-200mm	63x17mm	8pcs
392-012-02	0-300mm	63x17mm	12pcs

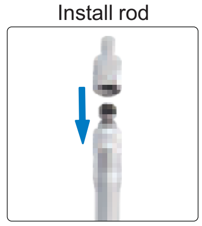
392-001-01



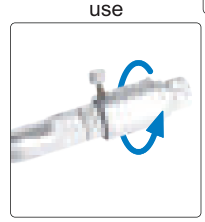
Rod (included)

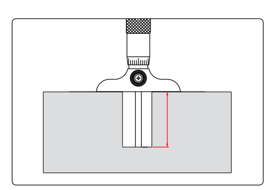


Install rod



use





DIGITAL DEPTH INDICATOR

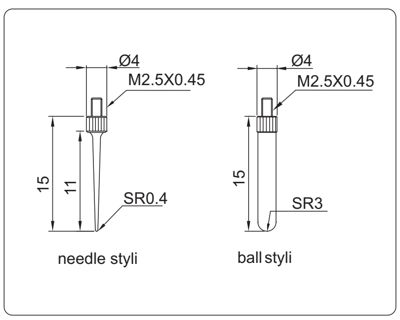
Data output CR2032

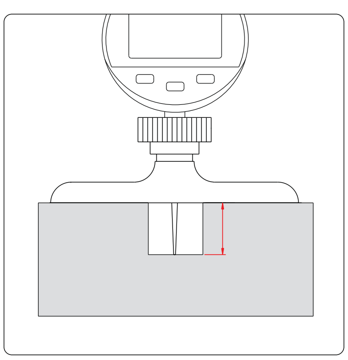
VIDEO

- Button: tolerance set, data preset, inch/mm conversion, measuring direction set, max./min./range measurement, absolute/incremental measurement
- Data output(cable code:200-03 or 200-04)
- Automatic power off
- Stainless steel base
- Supplied with pointed tip and ball tip

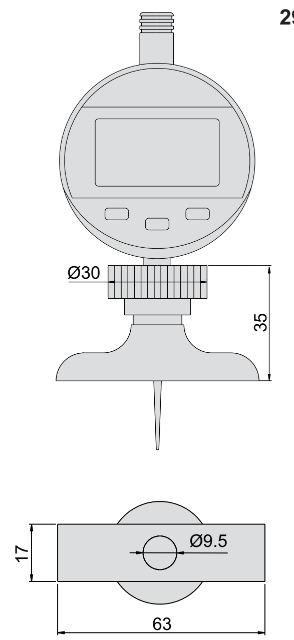
293-010-12

styli **(included)**

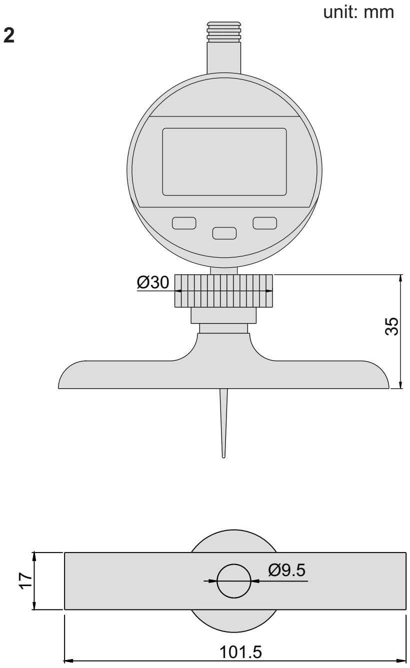




unit: mm



293-010-01 and 293-010-11



293-010-02 and 293-010-12

Resolution 0.001mm/0.00005"

Code	Range	Accuracy	Digital indicator stroke	Base
293-010-01	0-10mm/0-0.4"	±5μm	12.7mm/0.5"	63x17mm
293-010-02	0-10mm/0-0.4"	±5μm	12.7mm/0.5"	101.5x17mm

Resolution 0.01mm/0.0005"

Code	Range	Accuracy	Digital indicator stroke	Base
293-010-11	0-10mm/0-0.4"	±0.03mm	12.7mm/0.5"	63x17mm
293-010-12	0-10mm/0-0.4"	±0.03mm	12.7mm/0.5"	101.5x17mm

SERIES 293 DIGITAL DEPTH INDICATOR

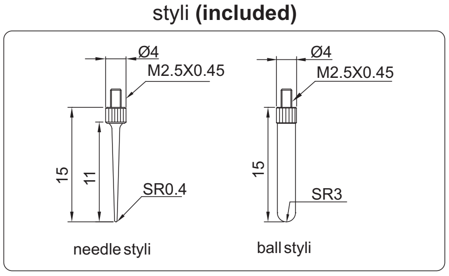
Data output CR2032

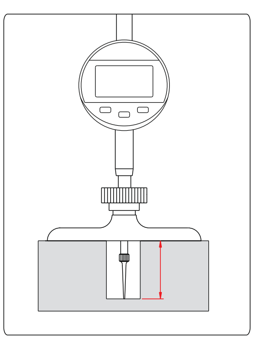
VIDEO

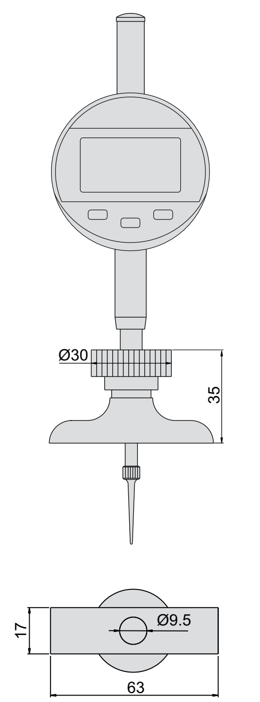
- Button: tolerance set, data preset, inch/mm conversion, measuring direction set, max./min./range measurement, absolute/incremental measurement
- Data output(cable code:200-03 or 200-04)
- Automatic power off
- Stainless steel base
- Supplied with pointed tip and ball tip

293-025-12

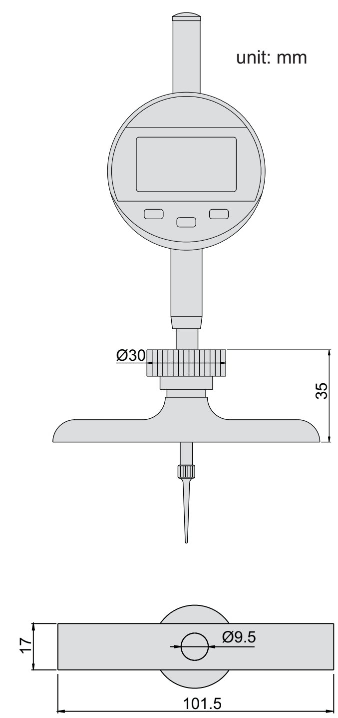
styli **(included)**







293-025-01 and 293-025-11



293-025-02 and 293-025-12

Resolution 0.001mm/0.00005"

Code	Range	Accuracy	Digital indicator stroke	Base
293-025-01	0-25mm/0-1"	±5μm	25.4mm/1"	63x17mm
293-025-02	0-25mm/0-1"	±5μm	25.4mm/1"	101.5x17mm

Resolution 0.01mm/0.0005"

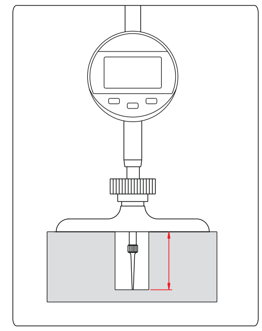
Code	Range	Accuracy	Digital indicator stroke	Base
293-025-11	0-25mm/0-1"	±0.03mm	25.4mm/1"	63x17mm
293-025-12	0-25mm/0-1"	±0.03mm	25.4mm/1"	101.5x17mm

DIGITAL DEPTH INDICATOR

Data output
CR2032

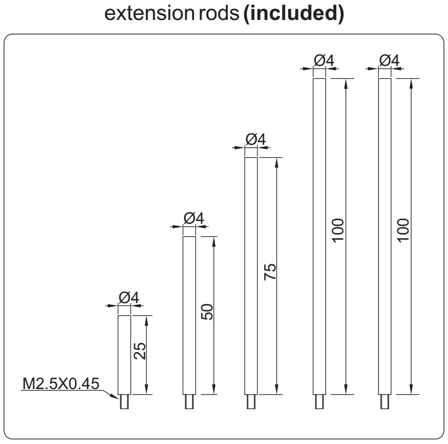
VIDEO

- Button: tolerance set, data preset, inch/mm conversion, measuring direction set, max./min./range measurement, absolute/incremental measurement
- Data output(cable code:200-03 or 200-04)
- Automatic power off
- Stainless steel base
- Supplied with pointed tip and ball tip

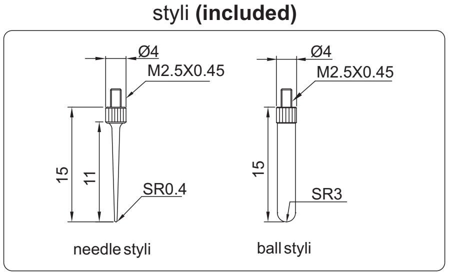


293-300-12

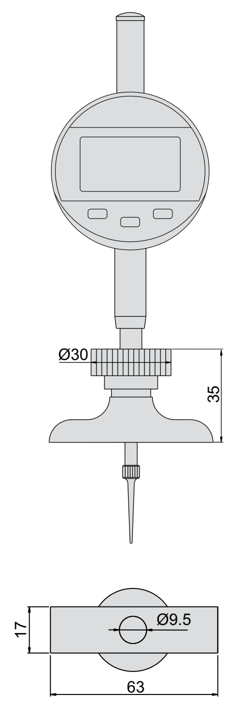
extension rods **(included)**



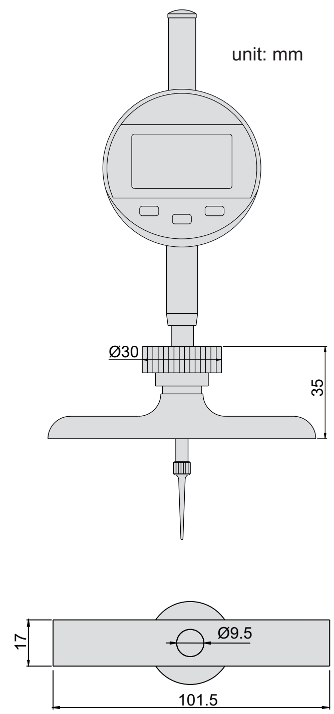
styli **(included)**



unit: mm



293-300-11 and 293-300-01



293-300-12 and 293-300-02

Resolution 0.001mm/0.00005"

Code	Range	Accuracy	Digital indicator stroke	Base
293-300-01	0-300mm/0-12"	±5μm	25.4mm/1"	63x17mm
293-300-02	0-300mm/0-12"	±5μm	25.4mm/1"	101.5x17mm

Resolution 0.01mm/0.0005"

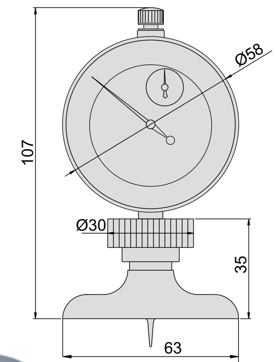
Code	Range	Accuracy	Digital indicator stroke	Base
293-300-11	0-300mm/0-12"	±0.03mm	25.4mm/1"	63x17mm
293-300-12	0-300mm/0-12"	±0.03mm	25.4mm/1"	101.5x17mm

SERIES 291 DIAL DEPTH INDICATOR

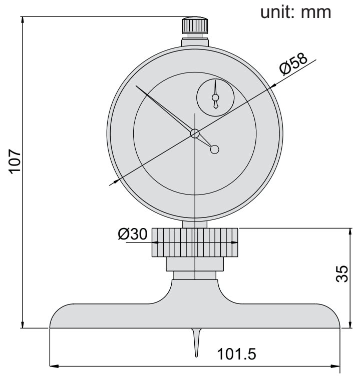
- Graduation: 0.01mm
- Indicator travel: 10mm
- Accuracy: ±0.03mm
- Stainless steel base
- With needle and ball styli

291-010-12

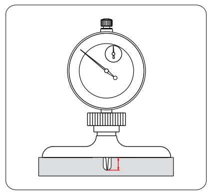
unit: mm



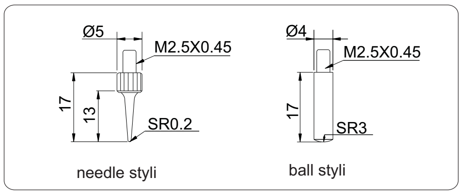
291-010-11



291-010-12



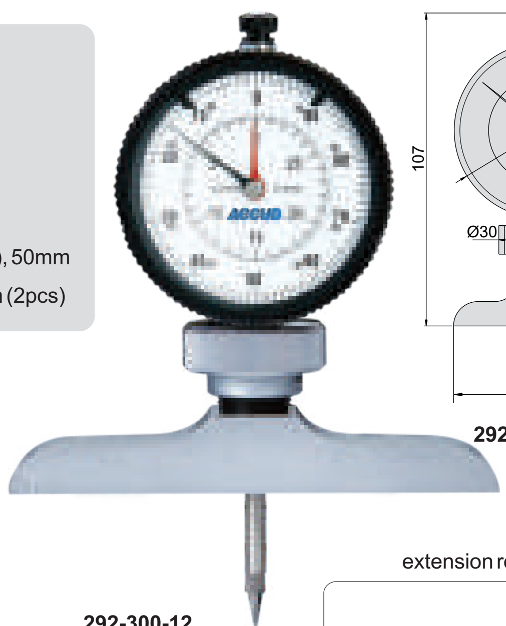
styli **(included)**



Code	Range	Base
291-010-11	0-10mm	63x17mm
291-010-12	0-10mm	101.5x17mm

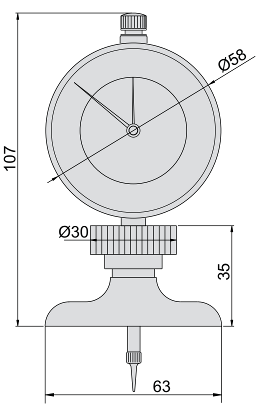
SERIES 292 DIAL DEPTH INDICATOR

- Graduation: 0.01mm
- Indicator travel: 30mm
- Accuracy: ±0.03mm
- Stainless steel base
- With needle and ball styli
- Extension rod: 25mm (1pc), 50mm (1pc), 75mm (1pc), 100mm (2pcs)

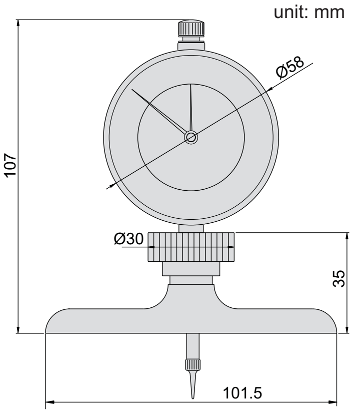


292-300-12

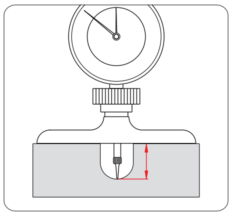
unit: mm



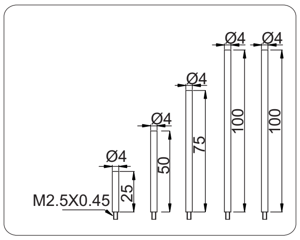
292-300-11



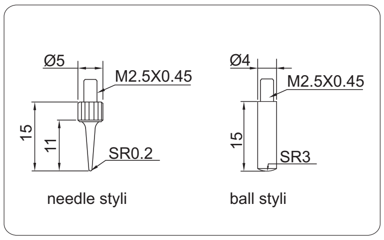
292-300-12



extension rods



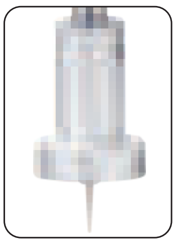
styli **(included)**



Code	Range	Base
292-300-11	0-300mm	63x17mm
292-300-12	0-300mm	101.5x17mm

SERIES 295 DIAL DEPTH INDICATOR

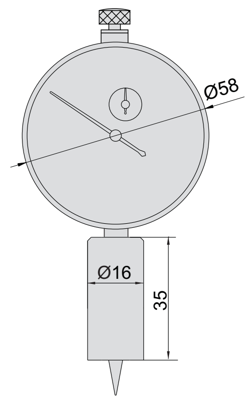
- Stainless steel base
- Pointed tip



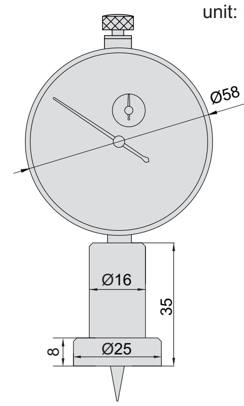
295-010-12

295-010-11

unit: mm

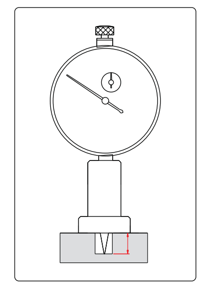


295-010-11



295-010-12

Code	Range	Accuracy	Dial indicator stroke	Dial indicator graduation	Base
295-010-11	0-10mm	17μm	10mm	0.01mm	Ø16mm
295-010-12	0-10mm	17μm	10mm	0.01mm	Ø25mm



SERIES 299 DIGITAL DEPTH INDICATOR

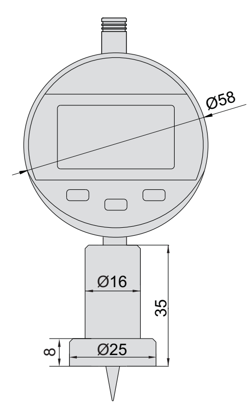
Data output

CR2032

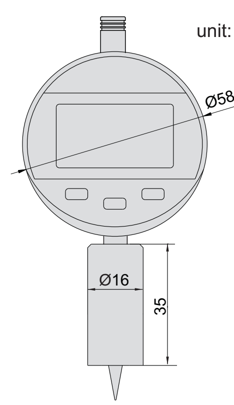
- Button: on/off, zero, mm/inch, ABS, data preset, change measuring direction
- Data output(cable code:200-03 or 200-04)
- Automatic power off
- Stainless steel base
- Pointed tip

299-010-02

unit: mm



Type B



Type A

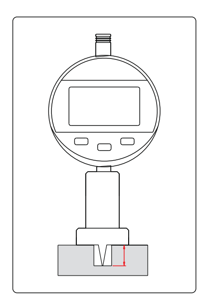
Resolution 0.01mm/0.0005"

Code	Range	Accuracy	Digital indicator stroke	Base	Type
299-010-11	0-12.7mm/0-0.5"	±20μm	12.7mm/0.5"	Ø16mm	A
299-010-12	0-12.7mm/0-0.5"	±20μm	12.7mm/0.5"	Ø25mm	B

Resolution 0.001mm/0.00005"

Code	Range	Accuracy	Digital indicator stroke	Base	Type
299-010-01	0-12.7mm/0-0.5"	±5μm	12.7mm/0.5"	Ø16mm	A
299-010-02	0-12.7mm/0-0.5"	±5μm	12.7mm/0.5"	Ø25mm	B

299-010-11



AccuGage700/1000 2D HEIGHT GAGE

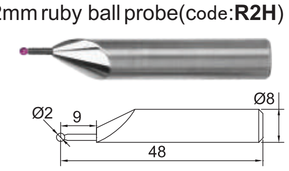
Certificate

VIDEO

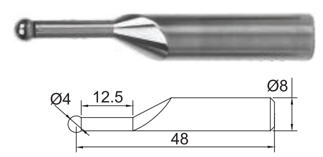
- The instrument is suitable for One-Dimensional as well as Two-Dimensional measurements
- Programming, for batch quantities measurements
- Color LCD screen
- The probe moves up and down automatically
- Low and high limits with judgement
- Built-in air compressor provides smooth movement on granite surface plate.
- With re-chargeable battery, for 10 hours working

Optional Accessories unit: mm

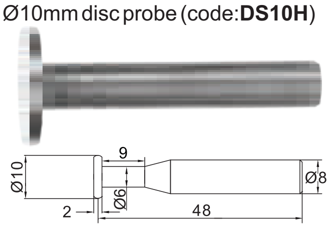
Ø2mm ruby ball probe(code:**R2H**)



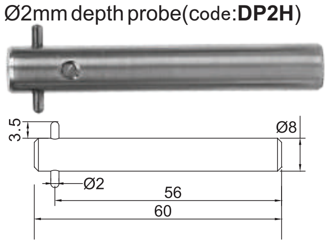
Ø4mm carbide ball probe(code:**SR4H**)



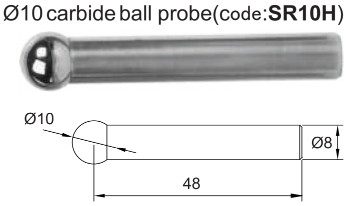
Ø10mm disc probe (code:**DS10H**)



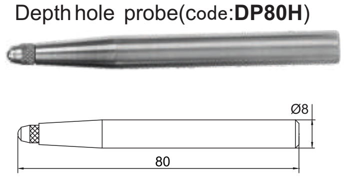
Ø2mm depth probe(code:**DP2H**)



Ø10 carbide ball probe(code:**SR10H**)



Depth hole probe(code:**DP80H**)



AccuGage700

Ø4mm carbide ball probe

Squareness probe
(Optional, Code:SQ10)

Basic Measurement

- 1 Contacting a plane from above
- 2 Contacting a shaft from above/bore below
- 3 Measuring a shaft diameter and center
- 4 Measuring groove width and center
- 5 Measuring MIN-MAX-DELTA
- 6 Measuring job squareness
- 7 Contacting a plane from below
- 8 Contacting a shaft from below/ bore above
- 9 Measuring bore diameter and center
- 0 Measuring ledge width and center
- Difference key
- +/- Set references

2D Measurement

- Measure pitch circle diameter(PCD)
- Measure distance between two points
- Measure angles
- Preset coordinates

Programming and replay, for batch quantities measurements

Calculation

Calculate height difference

Calculate height center

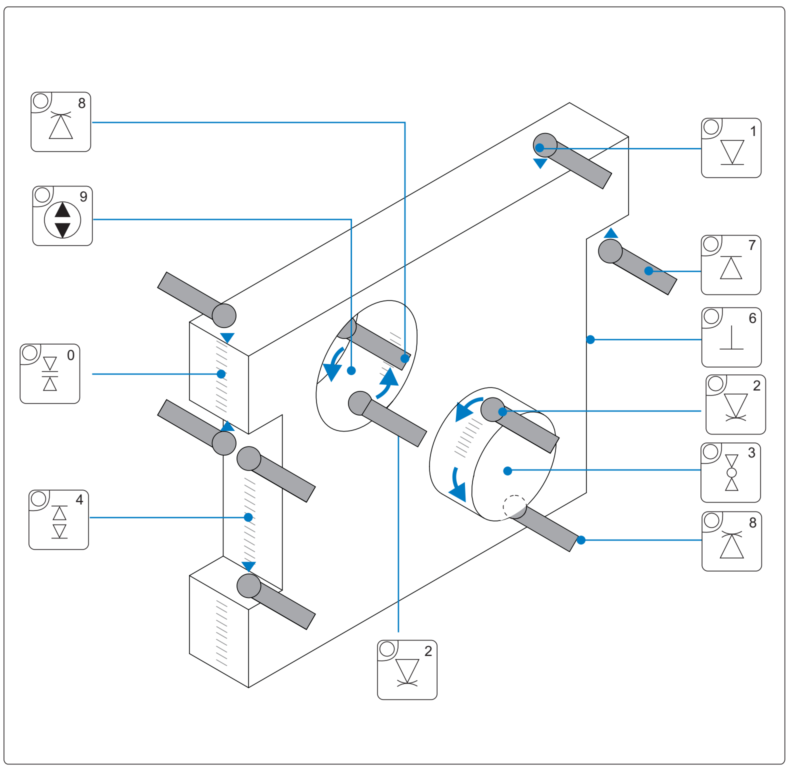
SPECIFICATION

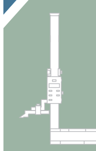
Code	AccuGage700	AccuGage1000
Range	0-700mm	0-1000mm
Expandable range	1015mm	1315mm
Squareness	6μm	10μm
Resolutions	0.5μm, 1μm	
Accuracy	2+L/330μm, L is measuring length in mm (working temperature is 20±1°C)	
Repeatability (with standard probe)	0.001 mm on plane and 0.002 mm on bore	
Measuring force	1±0.2N	
Output	USB or RS232	
Power supply	Rechargable battery	
Working temperature	10°C-40°C	
Weight	25kg	

INCLUDED ACCESSORIES

Main unit	1pc
Ø4x48mm ruby ball probe	1pc
Calibration block	1pc
Software and USB cable	1pc each
Allen key	1set
AC/DC Adapter	1pc

Application Demo





Certificate

VIDEO

- The instrument is only suitable for One-Dimensional measurement
- The probe moves up and down automatically
- Low and high limits with judgement
- Built-in air compressor provides smooth movement on granite surface plate.
- With re-chargeable battery, for 10 hours working

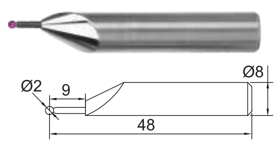
Ø4mm carbide ball probe

AccuHite700

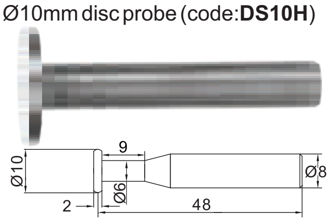
Optional Accessories

unit: mm

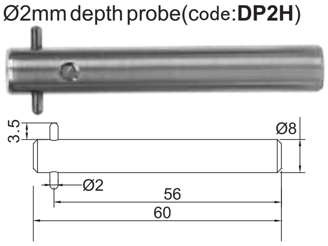
Ø2mm ruby ball probe(code:**R2H**)



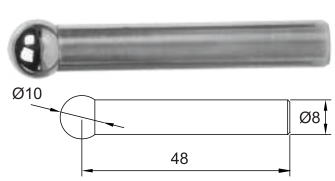
Ø10mm disc probe (code:**DS10H**)



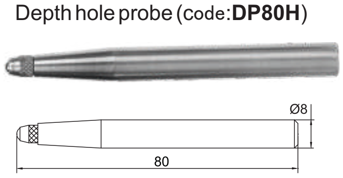
Ø2mm depth probe(code:**DP2H**)



Ø10mm carbide ball probe(code:**SR10H**)



Depth hole probe (code:**DP80H**)



Squareness probe
(Optional, Code:SQ10)

HEIGHT

AccuHite700/1000 1D HEIGHT GAGE

Basic Measurement

1 Contacting a plane from above

2 Contacting a shaft from above/bore below

3 Measuring a shaft diameter and center

4 Measuring groove width and center

5 Contacting a plane from below

6 Contacting a shaft from below/ bore above

7 Measuring bore diameter and center

8 Measuring ledge width and center

9 Measuring MIN-MAX-DELTA

0 Difference key

• Measuring job squareness

+/- Set references

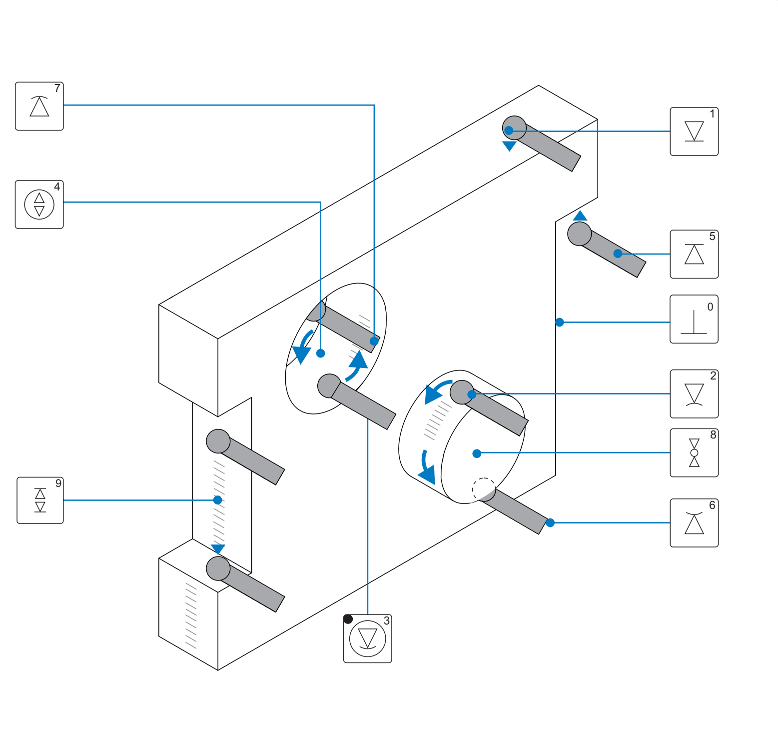
SPECIFICATION

Code	AccuHite700	AccuHite1000
Range	0-700mm	0-1000mm
Expandable range	1015mm	1315mm
Squareness	10μm	12μm
Resolutions	0.5μm, 1μm, 10μm	
Accuracy	3+L/250μm, L is measuring length in mm (working temperature is 20±1°C)	
Repeatability (with standard probe)	0.0015 mm on plane and 0.003 mm on bore	
Measuring force	1±0.2N	
Output	USB or RS232	
Power supply	Rechargable battery	
Working temperature	10°C - 40°C	
Weight	21kg	

INCLUDED ACCESSORIES

Main unit	1pc
Ø4x48mm carbide ball probe	1pc
Calibration block	1pc
Software and USB cable	1pc each
Allen key	1set
AC/DC Adapter	1pc

Demo Application



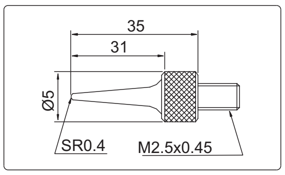
SERIES HG DIGITAL HEIGHT GAGE WITH STAND

Data output

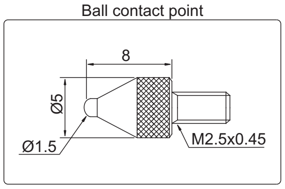
- Working table is made of ceramic
- Response speed: max.5000mm/sec
- Easy convert between metric and inch8 bits
- Highlight green LED
- Power off automatically
- Data output (USB port)
- Optional accessories series 270

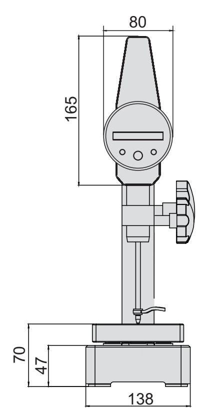
HG100E

Needle contact point

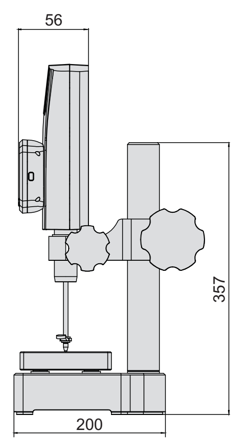


Ball contact point





unit:mm



SPECIFICATION

Code	HG50E	HG100E	HG50S	HG100S
Measuring range	0-50mm	0-100mm	0-50mm	0-100mm
Accuracy	2µm*	3µm*	3µm*	4µm*
Resolution	0.5µm/1µm(adjustable)		1µm	
Repeatibility	0.5µm	1µm	1µm	2µm
Tip force	≤1.2N	≤1.6N	≤1.2N	≤1.6N
Dimension of working table	130x130mm			
Flatness of working table	1.5µm			
Power supply	5V/1A adapter			
Working temperature	0°C-40°C			
Weight	11.6kg			

*Working temperature is 20±1°C

INCLUDED ACCESSORIES

Main unit	1pc
Stand with ceramic table	1pc
Needle contact point	1pc
Ball contact point	1pc
AD/DC adapter	1pc
Spindle lift knob	2pcs

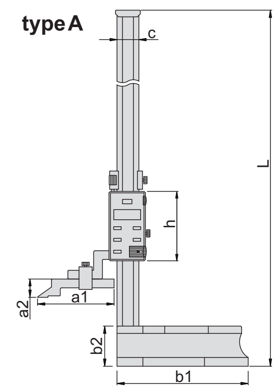
SERIES 181 DIGITAL HEIGHT GAGE

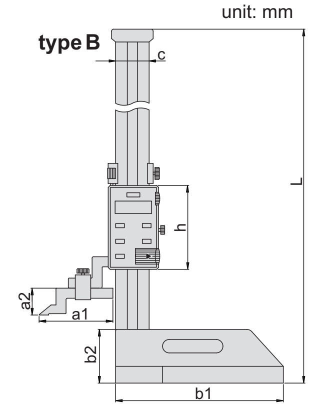
Data output
LR44

- Resolution: 0.01mm/0.0005"
- Buttons: on/off, inch/mm, ABS/INC ,data hold, tolerance measurement, data preset, set data
- Carbide tipped scriber
- Made of stainless steel (except the base)
- Data output(cable code:500-01)
- With clamps (Ø8mm holder)

181-024-11

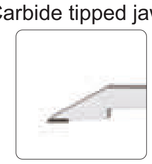
unit: mm





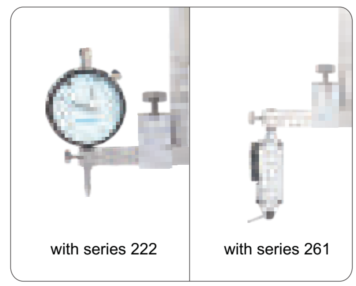
Clamp **(included)**

Carbide tipped jaws



Code	Range	Type	Accuracy	a1	a2	b1	b2	c	h	L
181-012-11	0-300mm/0-12"	A	±0.04mm	76	25	135	45	23	80	470
181-024-11	0-600mm/0-24"	A	±0.05mm	103	25	180	55	30	95	820
181-040-11	0-1000mm/0-40"	B	±0.07mm	110	39	250	80	50	125	1275
181-060-11	0-1500mm/0-60"	B	±0.11mm	110	39	280	80	50	125	1790
181-080-11	0-2000mm/0-80"	B	±0.15mm	110	39	280	80	50	125	2290

Application with clamps**(optional)**



with series 222 | with series 261

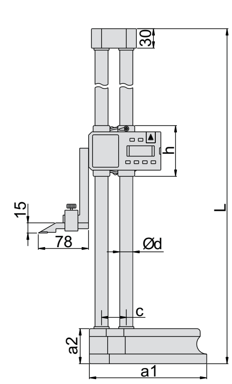
SERIES 182 DIGITAL HEIGHT GAGE

LR44

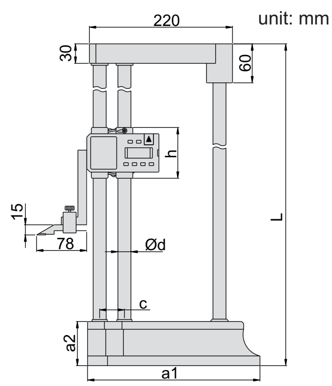
- Resolution: 0.01mm/0.001"
- Buttons: on/off, inch/mm, ABS/INC , data preset, set data
- Carbide tipped scriber
- Made of stainless steel beam
- With driving wheel
- Optional accessory: 267 series clamps

182-012-11

unit: mm

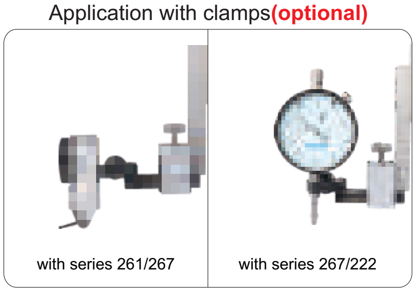


type A



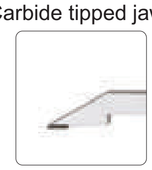
type B

Application with clamps**(optional)**

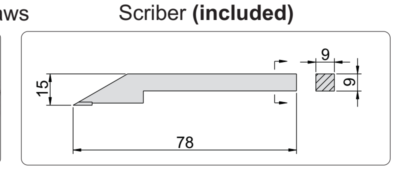


with series 261/267 | with series 267/222

Carbide tipped jaws



Scriber **(included)**



Code	Range	Type	Accuracy	a1	a2	c	Ød	h	L
182-012-11	0-300mm/0-12"	A	±0.04mm	135	43	33	15	84	475
182-024-11	0-600mm/0-24"	A	±0.05mm	180	54	38	20	88	810
182-040-11	0-1000mm/0-40"	B	±0.05mm	265	68	38	20	88	1230

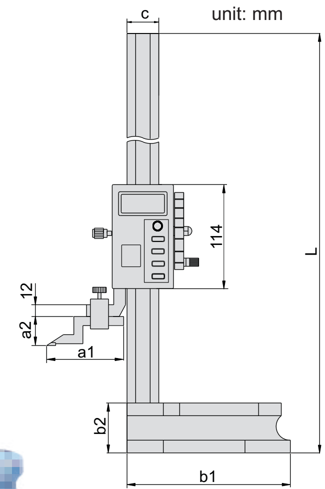
driving wheel

SERIES 184 DIGITAL HEIGHT GAGE WITH DRIVING WHEEL

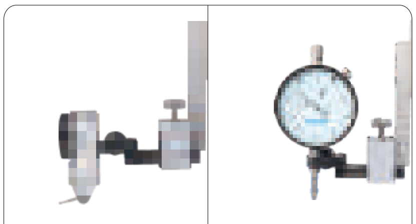
CR2032

- Buttons: on/off, zero, mm/inch, ABS/INC, hold
- Automatic power off, move the digital unit to turn on power
- Carbide tipped scriber
- Made of stainless steel
- Data output(cable code:500-03)
- Optional accessories: dial test indicator holder (**267-050-01**)

184-012-11



Application with clamps**(optional)**

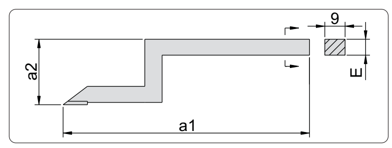


with series 261/267 with series 267/222

Carbide tipped jaws

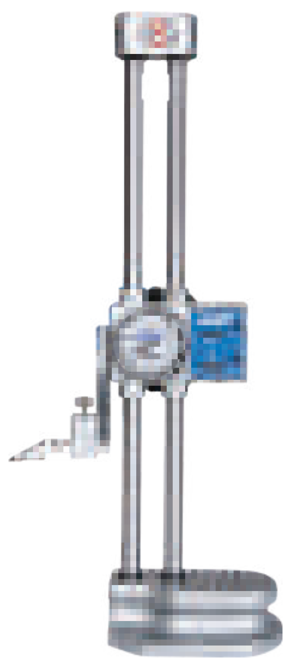
Code	Range	Accuracy	Resolution	b1	b2	L	c	a1	a2	E
184-012-11	0-300mm/0-12"	±0.03mm	0.01mm/0.0005"	180	55	515	32	80	30	9
184-024-11	0-600mm/0-24"	±0.05mm	0.01mm/0.0005"	180	55	815	32	80	30	9
184-040-11	0-1000mm/0-40"	±0.07mm	0.01mm/0.001"	265	70	1220	40	92	48	12

Scriber **(included)**

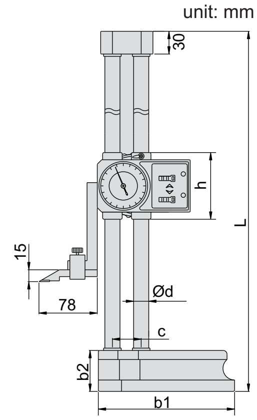


SERIES 185 DIAL HEIGHT GAGE

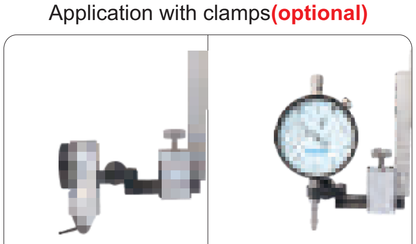
- Indicator graduation: 0.01mm
- Carbide tipped scriber
- Made of stainless steel (except the base)
- With driving wheel
- Optional accessory: 267 series clamps



185-012-11

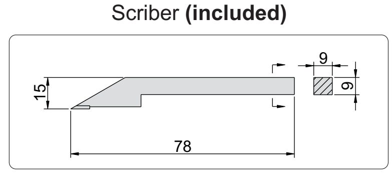


Application with clamps**(optional)**



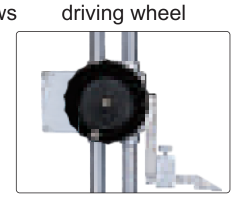
with series 261/267 with series 267/222

Scriber **(included)**



Carbide tipped jaws

driving wheel



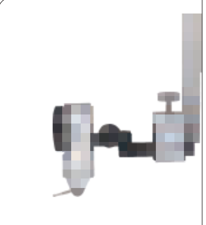
Code	Range	Accuracy	b1	b2	c	Ød	h	L
185-012-11	0-300mm	±0.04mm	135	43	33	15	84	475
185-024-11	0-600mm	±0.05mm	180	54	38	20	88	810

HEIGHT

SERIES 186 VERNIER HEIGHT GAGE

- Graduation: 0.02mm/0.001"
- Move main scale to set zero
- Carbide tipped scriber
- Made of stainless steel (except the base)
- Satin chrome plated scale
- With magnifier
- Optional accessory: 267 series clamps

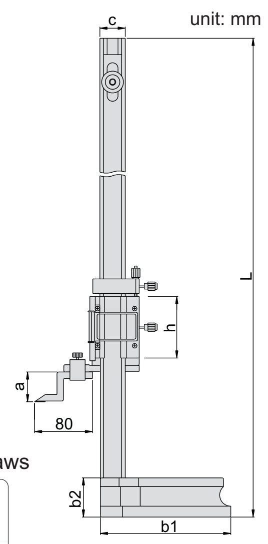
Application with clamps(**optional**)



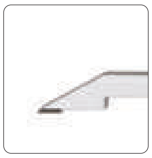
with series 261/267

with series 267/222

186-012-11

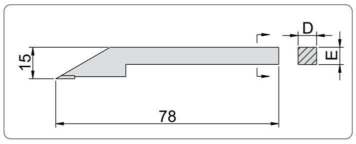


Carbide tipped jaws

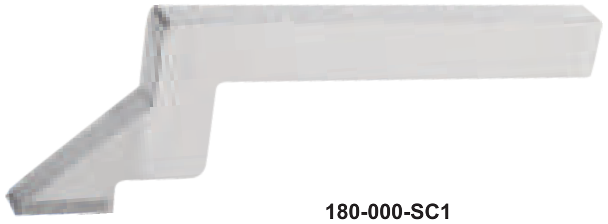


Code	Range	Accuracy	a	b1	b2	c	h	D	E	L
186-012-11	0-300mm/0-12"	±0.04mm	30	135	43	28	75	9	9	545
186-024-11	0-600mm/0-24"	±0.05mm	41	180	54	35	85	9	9	870
186-040-11	0-1000mm/0-40"	±0.07mm	50	270	70	40	85	10	16	1310

Scriber **(included)**



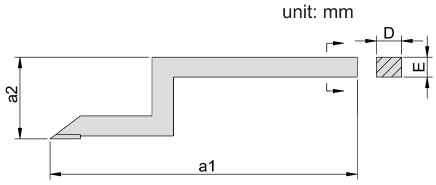
SERIES 180 SCRIBER FOR HEIGHT GAGE



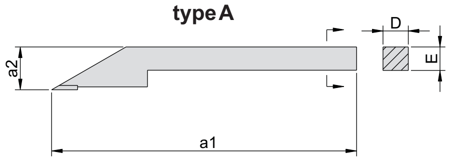
180-000-SC1

- Carbide tipped

unit: mm



type A



type B

Code	For height gage	Type	a1	a2	D	E
180-000-SC1	181-012-11	A	76	25	6	8
180-000-SC2	181-024-11, 181-060-11, 181-080-11	A	103	25	10	12
180-000-SC3	181-040-11	A	110	39	10	15
180-000-SC4	185-012-11, 185-024-11, 182-012-11, 182-024-11	B	78	15	9	9
180-000-SC6	186-012-11	A	80	30	9	9
180-000-SC7	186-024-11	A	80	41	9	9

Carbide tipped jaws

ACCUD

Data output

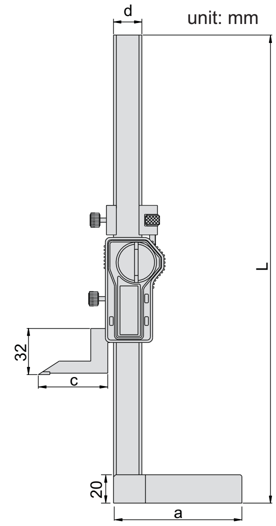
CR2032

SERIES 183 MINI DIGITAL HEIGHT GAGE

- Resolution: 0.01mm/0.0005"
- Buttons: on/off, inch/mm, zero
- Carbide tipped scriber
- Made of stainless steel (except the base)
- Data output(cable code:100-11 or 100-12)
- Automatic power off

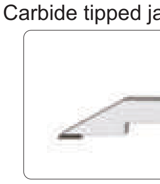
183-006-11

unit: mm



Code	Range	Accuracy	a	c	d	L
183-006-11	0-150mm/0-6"	±0.03mm	75	43	16	475
183-008-11	0-200mm/0-8"	±0.03mm	90	49	16	660
183-010-11	0-250mm/0-10"	±0.03mm	90	49	16	710

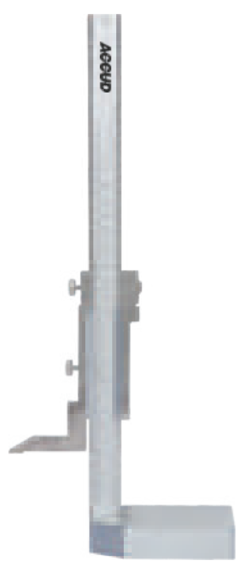
Carbide tipped jaws



SERIES 187 MINI VERNIER HEIGHT GAGE

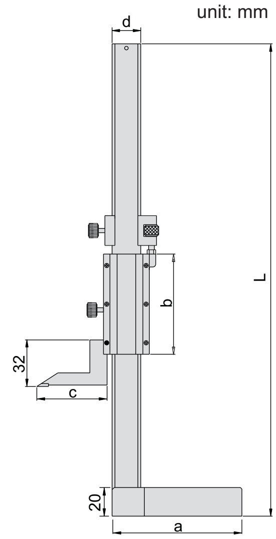
HEIGHT

- Graduation 0.02mm/0.001"
- Carbide tipped scriber
- Made of stainless steel (except the base)
- Satin chrome plated scale



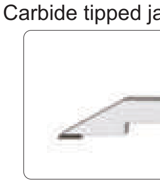
187-008-11

unit: mm



Code	Range	Accuracy	a	b	c	d	L
187-006-11	0-150mm/0-6"	±0.03mm	75	57	43	16	475
187-008-11	0-200mm/0-8"	±0.03mm	90	70	49	20	660
187-010-11	0-250mm/0-10"	±0.03mm	90	70	49	20	710

Carbide tipped jaws

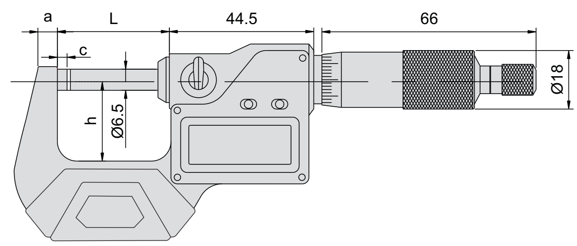


SERIES 313 DIGITAL OUTSIDE MICROMETER WITH DATA OUTPUT

Certificate | Data output | IP65

313-001-01S

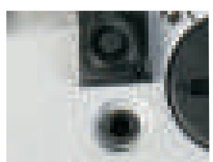
unit: mm



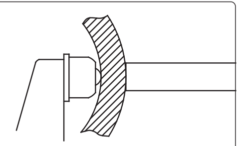
- Resolution: 0.001mm/0.00005"
- IP65 protection level
- Button: on/off, mm/inch, set, zero
- Automatic power off
- Data output
- Carbide measuring faces, ratchet stop
- Setting standards are included(except **313-001-01S**)

Setting standards (included)

Data output interface



spherical anvil



measure tube wall thickness

Code	Range	Accuracy	a	c	h	L	Setting standards(included)
313-001-01S*	0-25mm/0-1"	±2μm	6	3	25	34.5	-
313-002-01S*	25-50mm/1-2"	±2μm	8	3	32	59.5	25mm
313-003-01S*	50-75mm/2-3"	±3μm	8	3	44.5	84.5	50mm
313-004-01S*	75-100mm/3-4"	±3μm	8	3	57	109.5	75mm
313-005-01S	100-125mm/4-5"	±3μm	10	3	70	135	100mm
313-006-01S	125-150mm/5-6"	±3μm	10	3	82	160.5	125mm
313-007-01S	150-175mm/6-7"	±4μm	12	5.5	94.5	186	150mm
313-008-01S	175-200mm/7-8"	±4μm	12	5.5	107	211.5	175mm
313-009-01S	200-225mm/8-9"	±4μm	23	5.5	129.5	236	200mm
313-010-01S	225-250mm/9-10"	±4μm	23	5.5	142.5	261.5	225mm
313-011-01S	250-275mm/10-11"	±5μm	23	5.5	155	287	250mm
313-012-01S	275-300mm/11-12"	±5μm	23	5.5	167.5	312.5	275mm

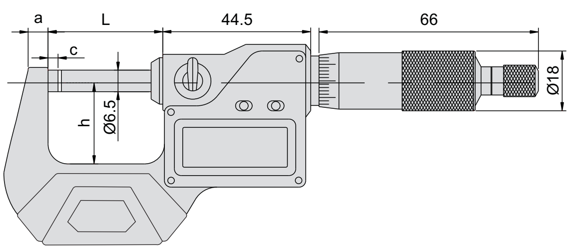
Set

Code	Range	Total QTY.	Included micrometers	Package
313-003-03S*	0-75mm/0-3"	3pcs	0-25mm/0-1", 25-50mm/1-2", 50-75mm/2-3"	blow mould case
313-004-04S*	0-100mm/0-4"	4pcs	0-25mm/0-1", 25-50mm/1-2", 50-75mm/2-3", 75-100mm/3-4"	blow mould case
313-006-06S	0-150mm/0-6"	6pcs	0-25mm/0-1", 25-50mm/1-2", 50-75mm/2-3", 75-100mm/3-4", 100-125mm/4-5", 125-150mm/5-6"	aluminum box

*** with calibration certificate**

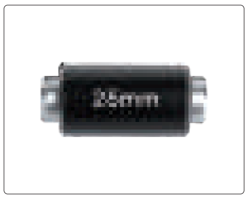
SERIES 313 DIGITAL OUTSIDE MICROMETER

313-001-01

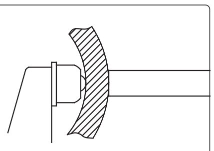


- Resolution: 0.001mm/0.00005"
- IP65 protection level
- Button: on/off, mm/inch,set, zero
- Automatic power off
- Carbide measuring faces, ratchet stop
- Setting standards are included
  (except **313-001-01**)

Setting standards (included)



spherical anvil



measure tube wall thickness

Code	Range	Accuracy	a	c	h	L	Setting standards(included)
313-001-01*	0-25mm/0-1"	±2μm	6	3	25	34.5	-
313-002-01*	25-50mm/1-2"	±2μm	8	3	32	59.5	25mm
313-003-01*	50-75mm/2-3"	±3μm	8	3	44.5	84.5	50mm
313-004-01*	75-100mm/3-4"	±3μm	8	3	57	109.5	75mm
313-005-01	100-125mm/4-5"	±3μm	10	3	70	135	100mm
313-006-01	125-150mm/5-6"	±3μm	10	3	82	160.5	125mm
313-007-01	150-175mm/6-7"	±4μm	12	5.5	94.5	186	150mm
313-008-01	175-200mm/7-8"	±4μm	12	5.5	107	211.5	175mm

Set

Code	Range	Total QTY.	Included micrometers	Package
313-003-03*	0-75mm/0-3"	3pcs	0-25mm/0-1", 25-50mm/1-2", 50-75mm/2-3"	blow mould case
313-004-04*	0-100mm/0-4"	4pcs	0-25mm/0-1", 25-50mm/1-2", 50-75mm/2-3", 75-100mm/3-4"	blow mould case
313-006-06	0-150mm/0-6"	6pcs	0-25mm/0-1", 25-50mm/1-2", 50-75mm/2-3", 75-100mm/3-4", 100-125mm/4-5", 125-150mm/5-6"	aluminum box

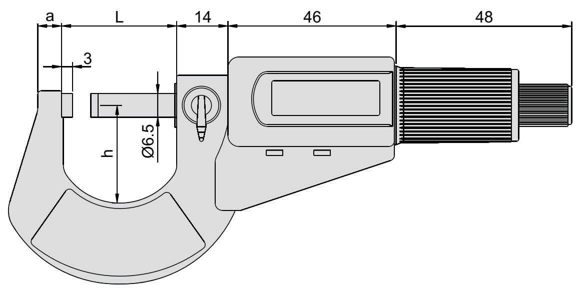
* **with calibration certificate**

SERIES 312 DIGITAL OUTSIDE MICROMETER

Certificate

312-001-03

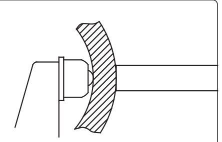
unit: mm



- Resolution: 0.001mm/0.00005"
- Button: ON/OFF/SET, ABS/INC/UNIT
- Carbide measuring faces
- Ratchet stop
- Setting standards are included (except **312-001-03**)

Setting standards (included)

spherical anvil



measure tube wall thickness

Code	Range	Accuracy	a	h	L	Setting standards(included)
312-001-03*	0-25mm/0-1"	±2μm	6	27.5	32	-
312-002-03*	25-50mm/1-2"	±2μm	8	37	57	25mm
312-003-03*	50-75mm/2-3"	±3μm	8	50	82	50mm
312-004-03*	75-100mm/3-4"	±3μm	10	61	107	75mm
312-005-03	100-125mm/4-5"	±3μm	10	73	132	100mm
312-006-03	125-150mm/5-6"	±3μm	10	85	157	125mm
312-007-03	150-175mm/6-7"	±4μm	21	104	182	150mm
312-008-03	175-200mm/7-8"	±4μm	21	117	207	175mm

Set

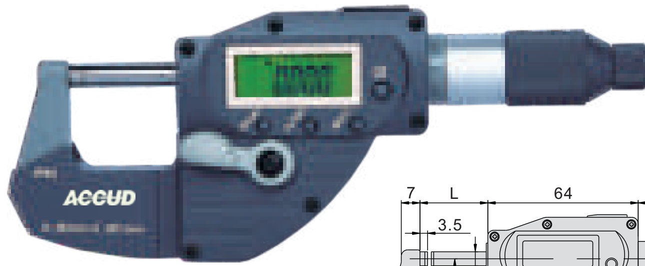
Code	Range	Total QTY.	Included micrometers	Package
312-003-33*	0-75mm/0-3"	3pcs	0-25mm/0-1", 25-50mm/1-2", 50-75mm/2-3"	blow mould case
312-004-44*	0-100mm/0-4"	4pcs	0-25mm/0-1", 25-50mm/1-2", 50-75mm/2-3", 75-100mm/3-4"	blow mould case
312-006-66	0-150mm/0-6"	6pcs	0-25mm/0-1", 25-50mm/1-2", 50-75mm/2-3", 75-100mm/3-4", 100-125mm/4-5", 125-150mm/5-6"	aluminum box

* **with calibration certificate**

SERIES 314 DIGITAL SNAP MICROMETER

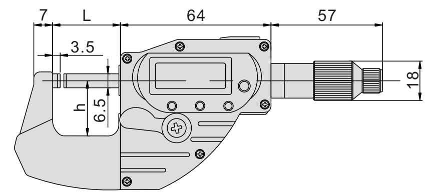
Data output | IP65 | CR2032

- Quick measurement with lever
- Resolution: 0.001mm/0.00005"
- IP65 protection level
- Button: on/off, mm/inch, origin, ABS/zero
- Automatic power off
- Data output(cable code:100-13)
- Carbide measuring faces
- Setting standards are included
  (except **314-001-02**)



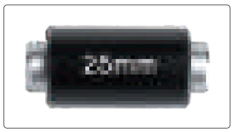
314-001-02

unit: mm

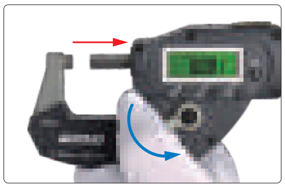


Code	Range	Accuracy	h	L	Setting standards (included)
314-001-02	0-25mm/0-1"	3μm	25	31	-
314-002-02	25-50mm/1-2"	3μm	32	57	25mm
314-003-02	50-75mm/2-3"	4μm	44.5	82	50mm
314-004-02	75-100mm/3-4"	4μm	57	107	75mm

Setting standards (included)



Quick movement



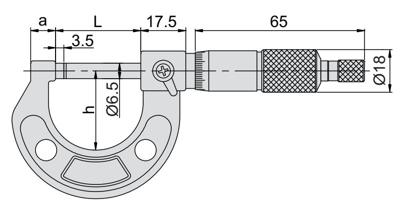
SERIES 322 MICRO GRADUATION OUTSIDE MICROMETER

Certificate

- Graduation: 0.001mm
- Carbide measuring faces
- Ratchet stop
- Setting standards are included
  (except **322-001-01**)

322-001-01

unit: mm



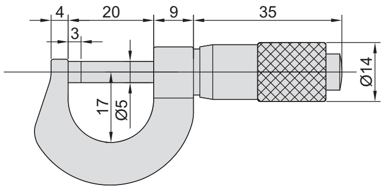
Code	Range	Accuracy	a	h	L	Setting standards(included)
322-001-01	0-25mm	4μm	9	29	32	-
322-002-01	25-50mm	4μm	9	39	58	25mm
322-003-01	50-75mm	5μm	10	53	83	50mm
322-004-01	75-100mm	5μm	10	65	109	75mm

Setting standards(included)

320 MINI OUTSIDE MICROMETER

- Chrome plated frame
- Pocket size, easy to carry

unit: mm



Code	Range	Graduation
320-015-01	0-15mm	0.01mm

MICROMETER

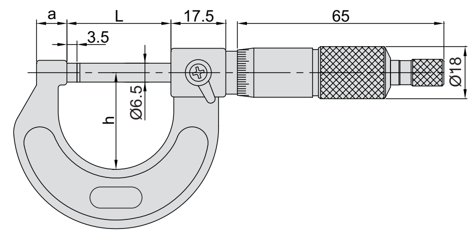
SERIES 321 OUTSIDE MICROMETER

Certificate

- Graduation: 0.01mm
- Carbide measuring faces
- Ratchet stop
- Setting standards are included (except **321-001-01**)

321-001-01

unit: mm



Code	Range	Accuracy	a	h	L	Setting standards (included)
321-001-01*	0-25mm	4μm	9	29	32	-
321-002-01*	25-50mm	4μm	9	39	58	25mm
321-003-01*	50-75mm	5μm	10	53	83	50mm
321-004-01*	75-100mm	5μm	10	65	109	75mm
321-005-01	100-125mm	6μm	11.5	76	133	100mm
321-006-01	125-150mm	6μm	11.5	88	159	125mm
321-007-01	150-175mm	7μm	11.5	101	185	150mm
321-008-01	175-200mm	7μm	11.5	114	210	175mm
321-009-01	200-225mm	8μm	11.5	126	235	200mm
321-010-01	225-250mm	8μm	12	139	260	225mm
321-011-01	250-275mm	9μm	12.5	151	286	250mm
321-012-01	275-300mm	9μm	12.5	164	311	275mm

* **with calibration certificate**

Setting standards(included)

SERIES 321 OUTSIDE MICROMETER SET

Certificate

- Consist of series 321 outside micrometer

Setting standards(included)

321-006-06

Aluminum box

Code	Range	Total QTY.	Included micrometers	Setting standards(included)	Package
321-003-03*	0-75mm	3pcs	0-25, 25-50, 50-75mm	25, 50mm	blow mould case
321-004-04*	0-100mm	4pcs	0-25, 25-50, 50-75, 75-100mm	25, 50, 75mm	blow mould case
321-006-06	0-150mm	6pcs	0-25, 25-50, 50-75,75-100, 100-125, 125-150mm	25, 50, 75, 100, 125mm	blow mould case
321-012-06	150-300mm	6pcs	150-175, 175-200, 200-225, 225-250, 250-275, 275-300mm	150,175, 200, 225, 250, 275mm	aluminum box
321-012-12	0-300mm	12pcs	0-25, 25-50, 50-75,75-100, 100-125, 125-150, 150-175, 175-200, 200-225, 225-250, 250-275, 275-300mm	25, 50, 75, 100, 125,150, 175, 200, 225, 250, 275mm	aluminum box

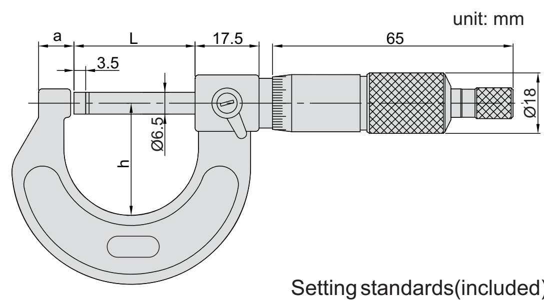
* **with calibration certificate**

SERIES 324 OUTSIDE MICROMETER

- Graduation: 0.0001in
- Carbide measuring faces
- Ratchet stop
- Setting standards are included (except **324-001-01**)

324-001-01

Code	Range	Accuracy	a	h	L	Setting standards (included)
324-001-01	0-1"	±0.00016"	9	29	32	-
324-002-01	1-2"	±0.00016"	14	39	58	1"
324-003-01	2-3"	±0.0002"	15	53	83	2"
324-004-01	3-4"	±0.0002"	15	65	109	3"
324-005-01	4-5"	±0.00024"	16.5	76	133	4"
324-006-01	5-6"	±0.00024"	16.5	88	159	5"
324-007-01	6-7"	±0.00028"	19.4	29	32	6"
324-008-01	7-8"	±0.00028"	19.4	39	58	7"
324-009-01	8-9"	±0.00031"	19.4	53	83	8"
324-010-01	9-10"	±0.00031"	19.4	65	109	9"
324-011-01	10-11"	±0.00035"	19.4	76	133	10"
324-012-01	11-12"	±0.00035"	19.4	88	159	11"



Setting standards(included)

SERIES 324 OUTSIDE MICROMETER SET

324-006-06

Aluminum box

MICROMETER SET

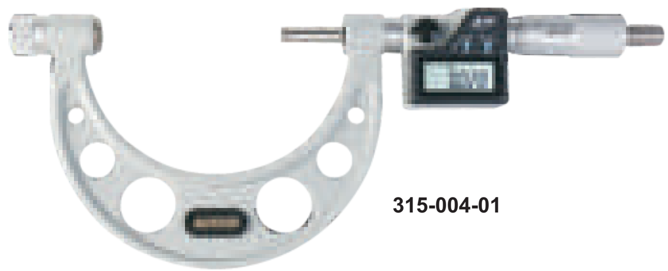
Code	Range	Total quantity	Included micrometers	Setting standards(included)	Package
324-003-03	0-3"	3pcs	0-1", 1-2", 2-3"	1", 2"	blow mould case
324-004-04	0-4"	4pcs	0-1", 1-2", 2-3", 3-4"	1", 2", 3"	blow mould case
324-006-06	0-6"	6pcs	0-1", 1-2", 2-3",3-4", 4-5", 5-6"	1",2", 3",4", 5"	blow mould case
324-012-06	6-12"	6pcs	6-7", 7-8", 8-9", 9-10", 10-11",11-12"	6",7", 8", 9", 10", 11"	aluminum box
324-012-12	0-12"	12pcs	0-1", 1-2", 2-3",3-4", 4-5", 5-6", 6-7", 7-8", 8-9", 9-10", 10-11",11-12"	1", 2", 3",4", 5", 6", 7", 8", 9", 10", 11"	aluminum box

SERIES 315 DIGITAL MICROMETER WITH INTERCHANGEABLE ANVILS

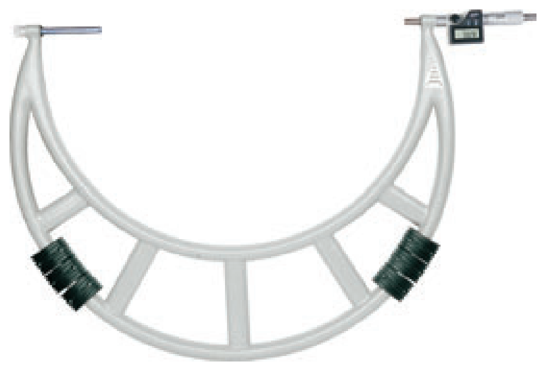
IP65

Data output

- Resolution 0.001mm/0.0001" (resolution of **315-004-01** and **315-006-01** is 0.001mm/0.00005")
- IP65 protection level
- Button: on/off, set, mm/inch, ABS/INC, data output
- Automatic power off
- Data output
- Carbide measuring faces
- Supplied with setting standards



315-004-01

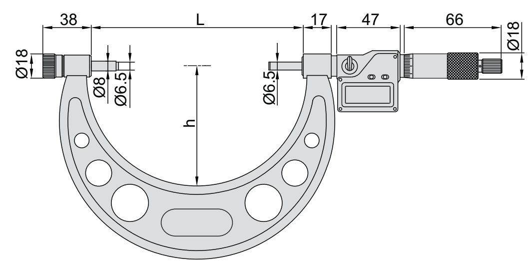


315-020-01

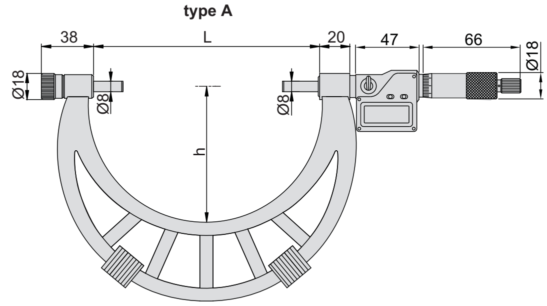
Setting standards **(included)**

interchangeable anvils
for different measuring ranges

unit: mm



type A



type B

Code	Range	Accuracy	L	h	Type	Setting standards (included)
315-004-01	0-100mm/0-4"	±5μm	105	57	A	25,50,75mm
315-006-01	0-150mm/0-6"	±6μm	155	82	A	25,50,75,100,125mm
315-012-01	150-300mm/6-12"	±8μm	305	165	A	150,175,200,225,250,275mm
315-012-02	200-300mm/8-12"	±8μm	305	165	A	200,225,250,275mm
315-016-01	300-400mm/12-16"	±9μm	405	224	B	325,375mm
315-020-01	400-500mm/16-20"	±11μm	505	275	B	425,475mm
315-024-01	500-600mm/20-24"	±12μm	605	321	B	525,575mm
315-028-01	600-700mm/24-28"	±13μm	705	371	B	625,675mm
315-032-01	700-800mm/28-32"	±15μm	805	426	B	725,775mm
315-036-01	800-900mm/32-36"	±16μm	905	476	B	825,875mm
315-040-01	900-1000mm/36-40"	±17μm	1005	576	B	925,975mm

SERIES 325 OUTSIDE MICROMETER WITH INTERCHANGEABLE ANVILS

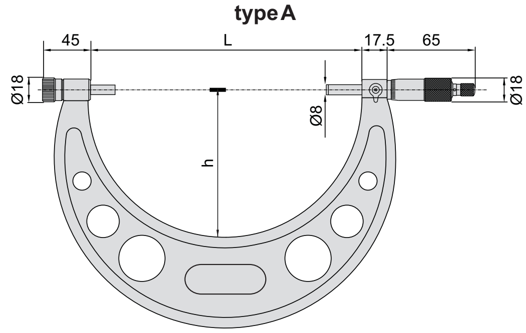
- Graduation: 0.01mm
- Ratchet stop
- Carbide measuring faces
- Supplied with setting standards

325-006-01

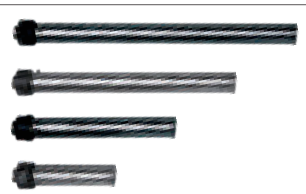
unit: mm

Setting standards **(included)**

type A

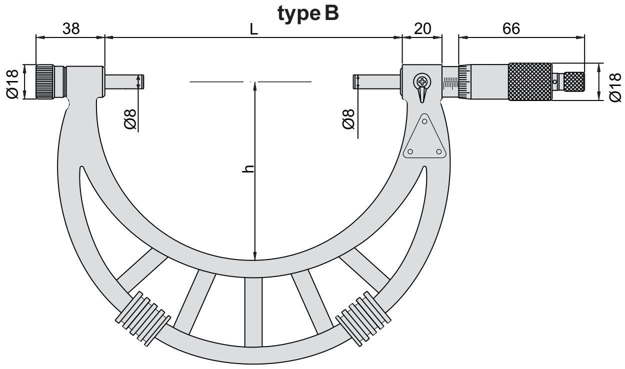


interchangeable anvils **(included)**



for different measuring ranges

type B



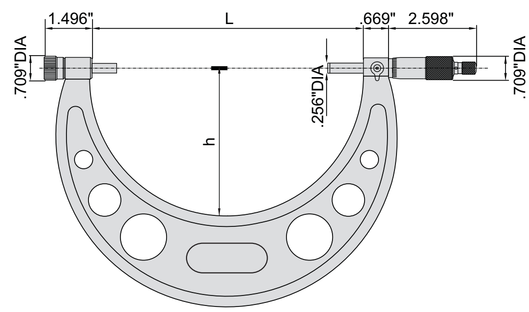
Code	Range	Type	Accuracy	L	h	Setting standards(included)
325-002-01	0-50mm	A	4µm	58	35	25mm
325-004-01	0-100mm	A	5µm	108	57	25,50,75mm
325-006-01	0-150mm	A	6µm	158	82	25,50,75,100,125mm
325-008-01	100-200mm	A	7µm	208	114	100,125,150,175mm
325-012-01	150-300mm	A	9µm	308	165	150,175,200,225,250,275mm
325-006-02	50-150mm	A	6µm	158	82	50,75,100,125mm
325-012-02	200-300mm	A	9µm	308	165	200,225,250,275mm
325-016-02	300-400mm	B	11µm	409	224	325,375mm
325-020-02	400-500mm	B	13µm	509	275	425,475mm
325-024-02	500-600mm	B	14µm	609	321	525,575mm
325-028-02	600-700mm	B	16µm	709	371	625,675mm
325-032-02	700-800mm	B	18µm	809	426	725,775mm
325-036-02	800-900mm	B	20µm	909	476	825,875mm
325-040-02	900-1000mm	B	22µm	1009	576	925,975mm

SERIES 325 OUTSIDE MICROMETER WITH INTERCHANGEABLE ANVILS

- Graduation: .0001" (within 12")
  .001" (over 12")
- Ratchet stop
- Carbide measuring faces
- Supplied with setting standards

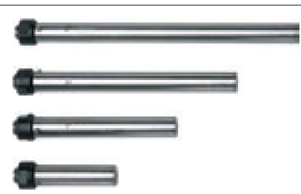
325-006-E01

Setting standards **(included)**

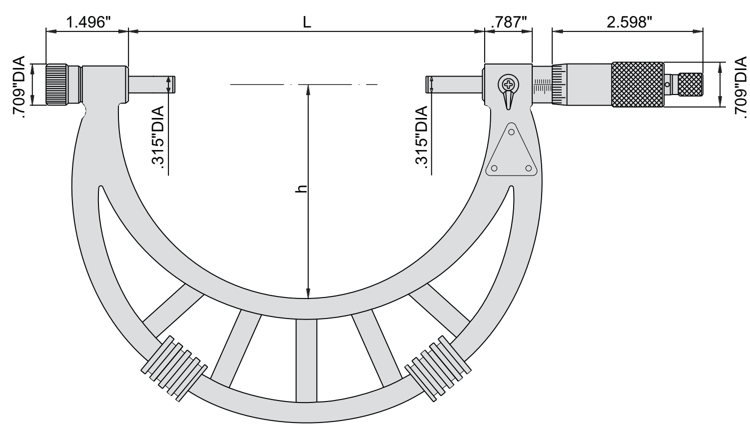


type A

interchangeable anvils **(included)**



for different measuring ranges

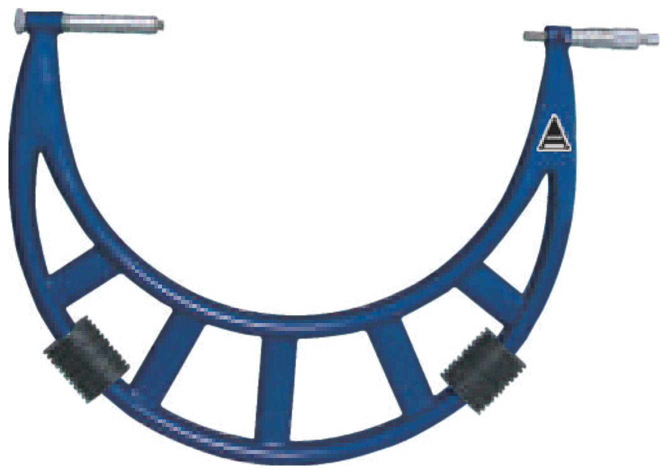


type B

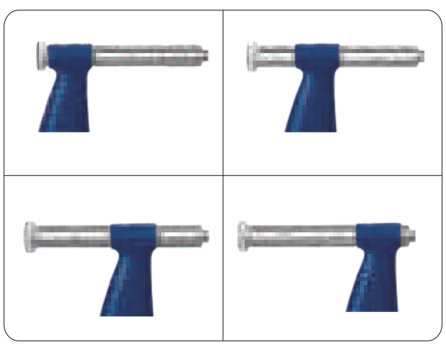
Code	Range	Type	Accuracy	L	h	Setting standards (included)
325-002-E01	0-2"	A	.00016"	2.283"	1.378"	1"
325-004-E01	0-4"	A	.00020"	4.252"	2.244"	1", 2", 3"
325-006-E01	0-6"	A	.00024"	6.220"	3.228"	1", 2", 3", 4", 5"
325-008-E01	4-8"	A	.00028"	8.189"	4.488"	4", 5", 6", 7"
325-012-E01	6-12"	A	.00035"	12.126"	6.496"	6", 7", 8", 9", 10", 11"
325-016-E02	12-16"	B	.00043"	16.102"	8.819"	13", 15"
325-020-E02	16-20"	B	.00051"	20.039"	10.827"	17", 19"
325-024-E02	20-24"	B	.00055"	23.976"	12.638"	21", 23"
325-028-E02	24-28"	B	.00063"	27.913"	14.606"	25", 27"
325-032-E02	28-32"	B	.00071"	31.850"	16.772"	29", 31"
325-036-E02	32-36"	B	.00079"	35.787"	18.740"	33", 35"
325-040-E02	36-40"	B	.00087"	39.724"	22.677"	37", 39"

SERIES 329 OUTSIDE MICROMETER WITH EXTENSION ANVIL

- Adjust collars for different measuring ranges
- Graduation 0.01mm
- Ratchet stop
- Carbide measuring faces
- Supplied with setting standards

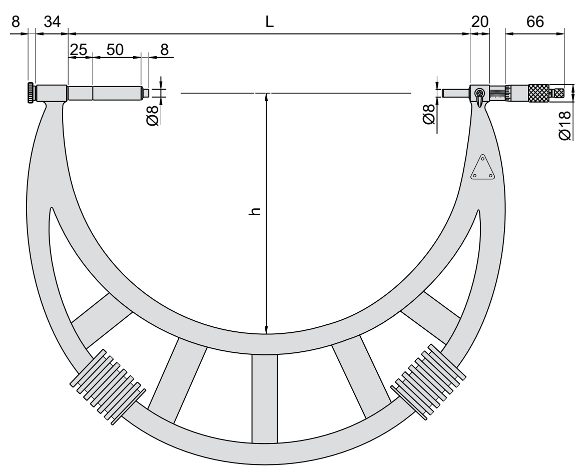


Adjust collars for different measuring ranges

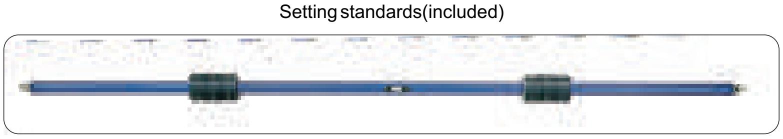


329-016-01

unit: mm



Setting standards(included)



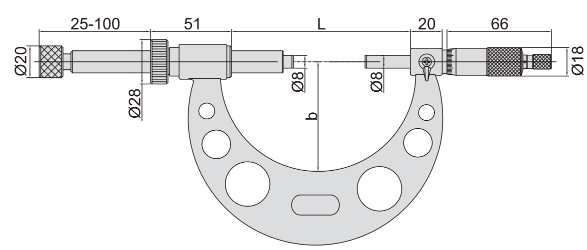
Code	Range	Accuracy	L	h	Setting standards(included)
329-016-01	300-400mm	11µm	410	250	325,375mm
329-020-01	400-500mm	13µm	510	275	425,475mm
329-024-01	500-600mm	14µm	610	320	525,575mm
329-028-01	600-700mm	16µm	710	370	625,675mm
329-032-01	700-800mm	18µm	810	425	725,775mm
329-036-01	800-900mm	20µm	910	475	825,875mm
329-040-01	900-1000mm	22µm	1010	575	925,975mm
329-048-01	1000-1200mm	22µm	1210	645	1050,1150mm
329-056-01	1200-1400mm	24µm	1410	745	1250,1350mm
329-064-01	1400-1600mm	28µm	1610	845	1450,1550mm
329-072-01	1600-1800mm	31µm	1810	945	1650,1750mm
329-080-01	1800-2000mm	34µm	2010	1045	1850,1950mm

SERIES 430 MICROMETERS WITH DIAL INDICATOR

430-012-01

- Meet DIN863-3
- Graduation 0.01 mm
- Ratchet stop
- Carbide measuring faces
- Supplied with setting standards
- Optional accessory: dial indicators or digital indicators

unit: mm

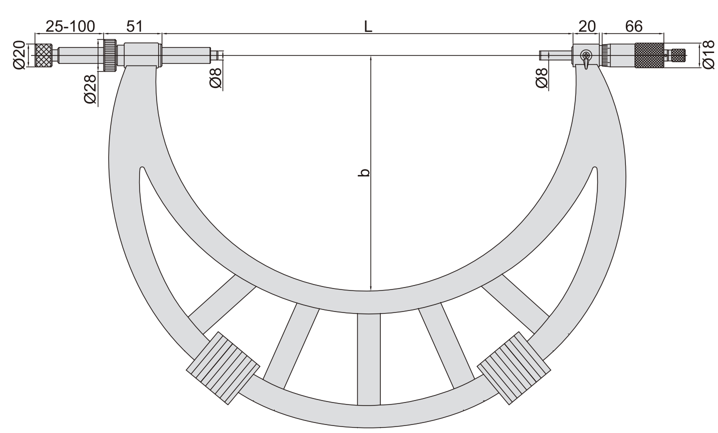


Type A

Optional indicators(optional)

211-010-13

222-010-11

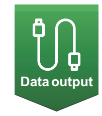


Type B

Code	Range	Type	Accuracy	L	b
430-004-01	0-100mm	A	6μm	115	68
430-008-01	100-200mm	A	7μm	215	120
430-012-01	200-300mm	A	8μm	315	170
430-016-01	300-400mm	B	9μm	415	225
430-020-01	400-500mm	B	10μm	515	275
430-024-01	500-600mm	B	11μm	615	325
430-028-01	600-700mm	B	12μm	715	375
430-032-01	700-800mm	B	13μm	815	430
430-036-01	800-900mm	B	14μm	915	480
430-040-01	900-1000mm	B	15μm	1015	530

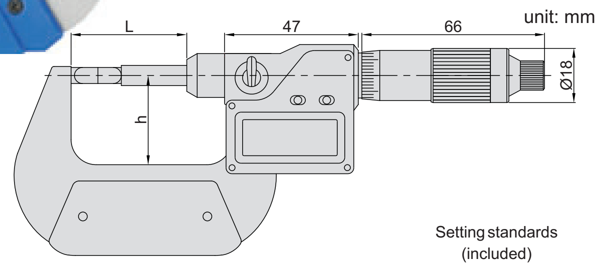
Setting standards(included)

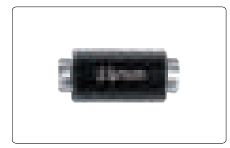
SERIES 316 DIGITAL BLADE MICROMETER



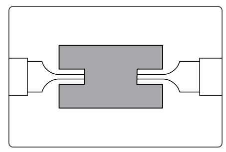
- Measure the groove diameter of shafts and keyways
- Resolution 0.001mm/0.00005"
- Non-rotating spindle
- Button: on/off, set, mm/inch, ABS/INC, data output
- Automatic power off
- Data output
- Ratchet stop
- Supplied with setting standards (except 0-25mm/0-1")

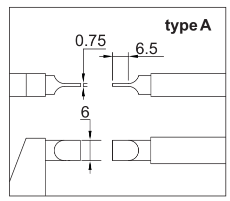
316-001-01

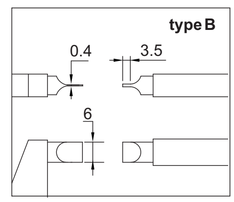




Setting standards (included)



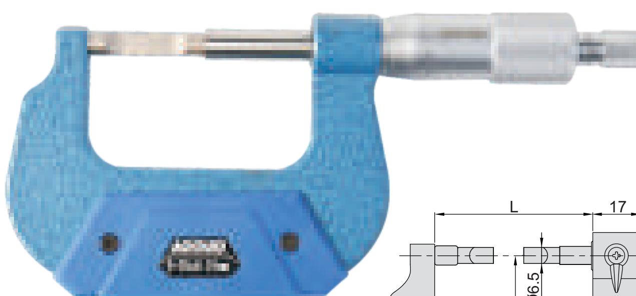




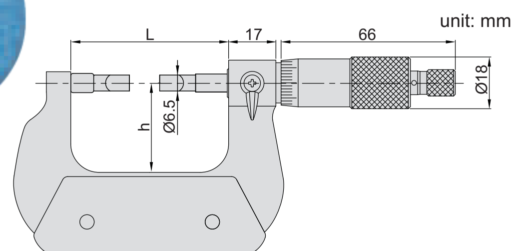
Code	Range	Accuracy	Type	h	L	Setting standards (included)
316-001-01	0-25mm/0-1"	±4μm	A	32	57	-
316-002-01	25-50mm/1-2"	±4μm	A	44.5	82	25mm
316-003-01	50-75mm/2-3"	±5μm	A	57	107	50mm
316-004-01	75-100mm/3-4"	±5μm	A	70	133	75mm
316-001-02	0-25mm/0-1"	±4μm	B	32	57	-
316-002-02	25-50mm/1-2"	±4μm	B	44.5	82	25mm

SERIES 326 BLADE MICROMETER

- Measure the small groove diameter
- Graduation: 0.01mm
- Non-rotating spindle
- Ratchet stop
- Setting standards are included (except **0-25mm**)

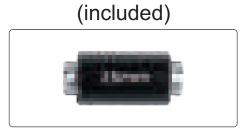


326-001-03

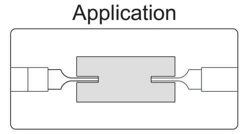


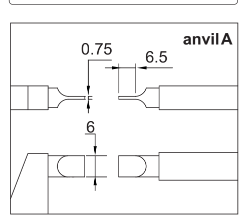
Code	Range	Anvil	Accuracy	h	L	Setting standards (included)
326-001-03	0-25mm	A	4μm	35	57	-
326-002-03	25-50mm	A	4μm	46	82	25mm
326-003-03	50-75mm	A	5μm	58	107	50mm
326-004-03	75-100mm	A	5μm	70	133	75mm
326-005-03	100-125mm	A	6μm	83	158	100mm
326-006-03	125-150mm	A	6μm	96	183	125mm
326-007-03	150-175mm	A	7μm	109	209	150mm
326-001-04	0-25mm	B	4μm	35	57	-
326-002-04	25-50mm	B	4μm	46	82	25mm

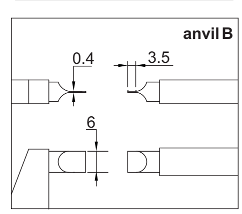
Setting standards (included)



Application







SERIES 317 DIGITAL POINT MICROMETER

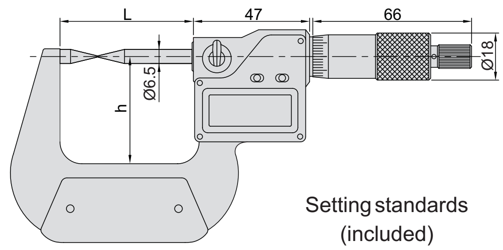
IP65

Data output

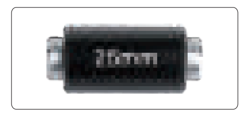
- Measure the web thickness of drills, small grooves and keyways
- Resolution 0.001mm/0.00005"
- IP65 protection level
- Button: on/off, set, mm/inch,ABS/INC, data output
- Automatic power off
- Data output
- Ratchet stop
- Carbide tips
- Supplied with setting standards (except 0-25mm/0-1")

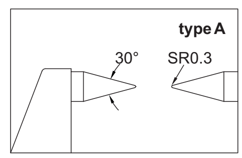
317-002-01

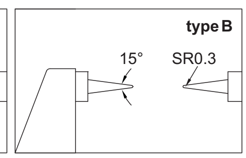
unit: mm



Setting standards (included)



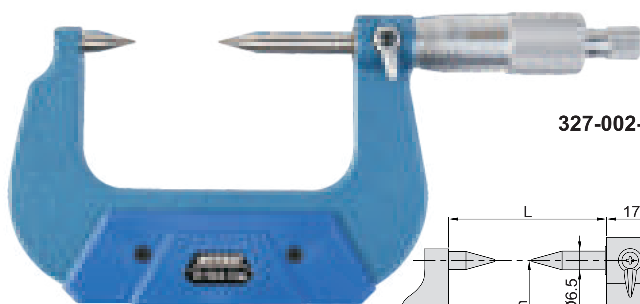




Code	Range	Accuracy	Type	h	L	Setting standards (included)
317-001-01	0-25mm/0-1"	±4μm	A	32	57	-
317-002-01	25-50mm/1-2"	±4μm	A	44.5	82	25mm
317-003-01	50-75mm/2-3"	±5μm	A	57	107	50mm
317-004-01	75-100mm/3-4"	±5μm	A	70	133	75mm
317-001-02	0-25mm/0-1"	±4μm	B	32	57	-
317-002-02	25-50mm/1-2"	±4μm	B	44.5	82	25mm
317-003-02	50-75mm/2-3"	±5μm	B	57	107	50mm
317-004-02	75-100mm/3-4"	±5μm	B	70	133	75mm

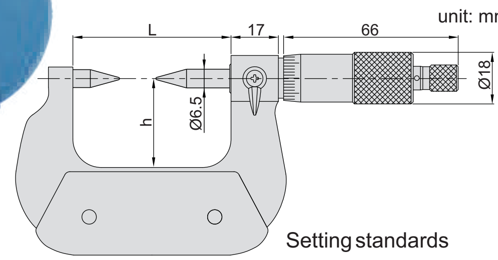
SERIES 327 POINT MICROMETER

- Measure the thickness of drills, small grooves and keyways
- Graduation: 0.01mm
- Ratchet stop
- Carbide measuring faces
- Setting standards are included (except **0-25mm**)

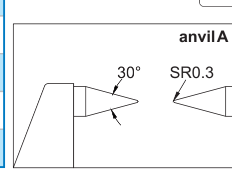


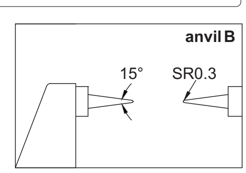
327-002-03

unit: mm



Setting standards (included)





Code	Range	Anvil	Accuracy	h	L	Setting standards (included)
327-001-03	0-25mm	A	4μm	39	58	-
327-002-03	25-50mm	A	4μm	53	83	25mm
327-003-03	50-75mm	A	5μm	65	109	50mm
327-004-03	75-100mm	A	5μm	76	133	75mm
327-001-04	0-25mm	B	4μm	39	58	-
327-002-04	25-50mm	B	4μm	53	83	25mm
327-003-04	50-75mm	B	5μm	65	109	50mm
327-004-04	75-100mm	B	5μm	76	133	75mm

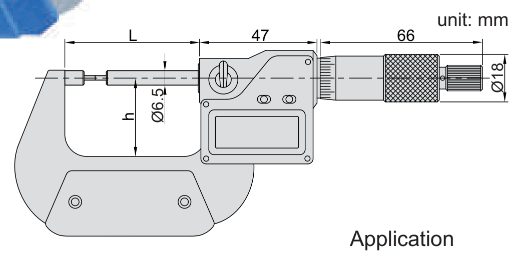
ACCUD

SERIES 318 DIGITAL SPLINE MICROMETER

IP65
Data output

- Measure splined shafts, slots and keyways
- Resolution 0.001mm/0.00005"
- IP65 protection level
- Button: on/off, set, mm/inch, ABS/INC, data output
- Automatic power off
- Data output
- Ratchet stop
- Carbide measuring faces
- Supplied with setting standards
  (except 0-25mm/0-1")

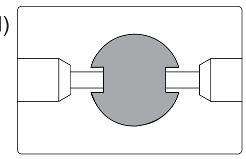
318-001-02

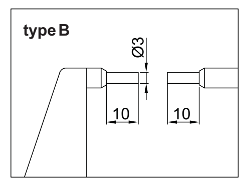


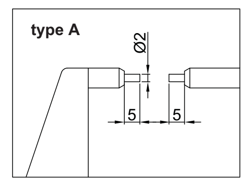
Code	Range	Accuracy	Type	h	L	Setting standards (included)
318-001-01	0-25mm/0-1"	±4μm	A	32	57	-
318-002-01	25-50mm/1-2"	±4μm	A	44.5	82	25mm
318-003-01	50-75mm/2-3"	±5μm	A	57	107	50mm
318-004-01	75-100mm/3-4"	±5μm	A	70	133	75mm
318-001-02	0-25mm/0-1"	±4μm	B	32	57	-
318-002-02	25-50mm/1-2"	±4μm	B	44.5	82	25mm
318-003-02	50-75mm/2-3"	±5μm	B	57	107	50mm
318-004-02	75-100mm/3-4"	±5μm	B	70	133	75mm

Setting standards(included)

Application

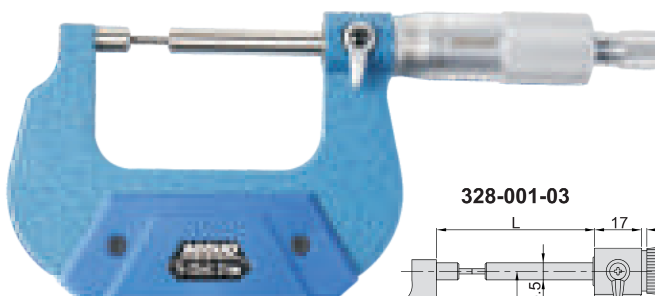




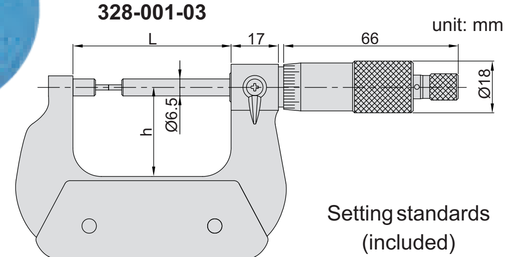


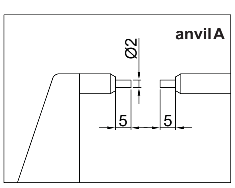
SERIES 328 SPLINE MICROMETER

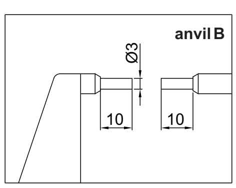
- Measure grooves and sharped parts
- Graduation: 0.01mm
- Carbide measuring faces
- Ratchet stop
- Setting standards are included
  (except **0-25mm**)



328-001-03

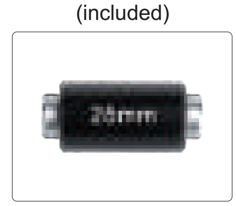




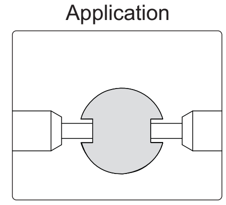


Code	Range	Anvil	Accuracy	h	L	Setting standards(included)
328-001-03	0-25mm	B	4μm	39	58	-
328-002-03	25-50mm	B	4μm	53	83	25mm
328-003-03	50-75mm	B	5μm	65	109	50mm
328-004-03	75-100mm	B	5μm	76	133	75mm
328-005-03	100-125mm	B	6μm	82	158	100mm
328-006-03	125-150mm	B	6μm	94.5	183.4	125mm
328-007-03	150-175mm	B	7μm	107	208.8	150mm
328-001-04	0-25mm	A	4μm	39	58	-

Setting standards (included)



Application



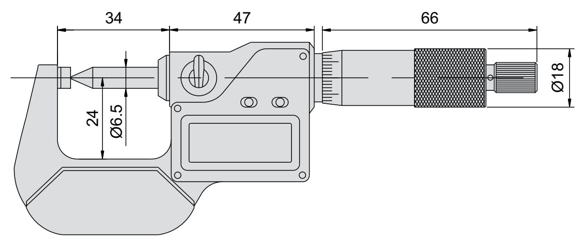
MICROMETER

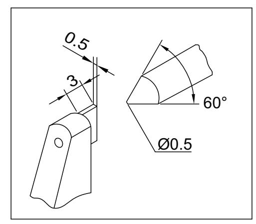
319 DIGITAL CRIMP HEIGHT MICROMETER

IP65
Data output

- Measure the height of crimp contact
- Resolution 0.001mm/0.00005"
- IP65 protection level
- Button: on/off, set, mm/inch, ABS/INC, data output
- Automatic power off
- Data output
- Ratchet stop

unit: mm





Code	Range	Accuracy
319-001-01	0-25mm/0-1"	±4µm

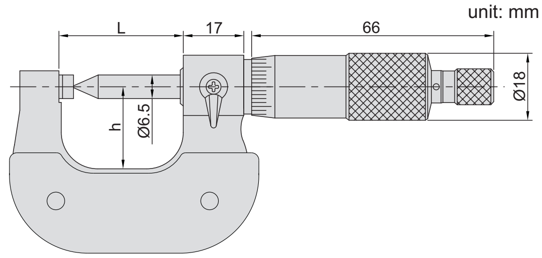
SERIES 346 CRIMP HEIGHT MICROMETER

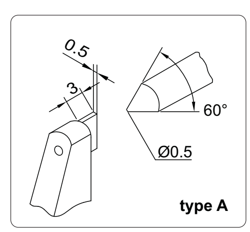
- Measure the height of crimp contact
- Graduation 0.01mm
- Ratchet stop
- Supplied with setting standards (except **0-25mm**)

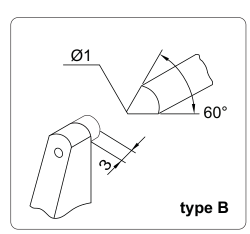
346-001-01

Setting standards(included)

unit: mm







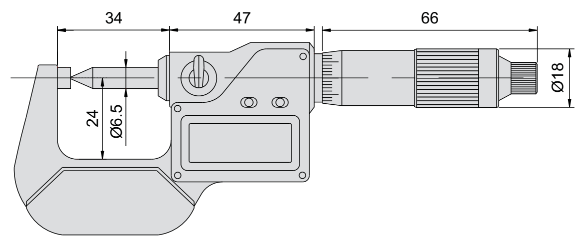
Code	Range	Accuracy	Type	L	h	Setting standards (included)
346-001-01	0-25mm	4µm	A	34	24	-
346-001-02	0-25mm	4µm	B	34	24	-
346-002-02	25-50mm	4µm	B	59	32	25
346-003-02	50-75mm	5µm	B	85	45	50
346-004-02	75-100mm	5µm	B	110	57	75

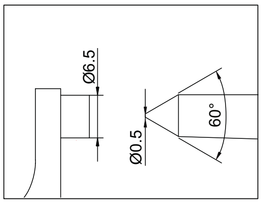
319 DIGITAL POINT MICROMETER

IP65
Data output

- Measure the height of crimp contact
- Resolution 0.001mm/0.00005"
- IP65 protection level
- Button: on/off, set, mm/inch, ABS/INC, data output
- Automatic power off
- Data output
- Ratchet stop

unit: mm





Code	Range	Accuracy
319-001-21	0-25mm/0-1"	±4μm

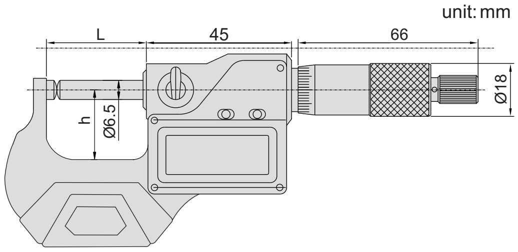
SERIES 331 DIGITAL SPHERICAL ANVIL TUBE MICROMETER

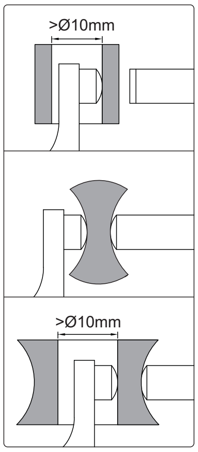
IP65
Data output

- Measure wall thickness of tubes
- Resolution 0.001mm/0.00005"
- IP65 protection level
- Button: on/off, set, mm/inch,ABS/INC, data output
- Automatic power off
- Data output
- Ratchet stop
- Carbide measuring faces
- Supplied with setting standards (except 0-25mm/0-1")

331-001-02

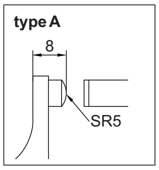
unit: mm

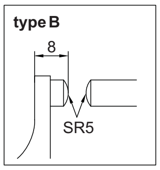




Code	Range	Accuracy	Type	L	h	Setting standards(included)
331-001-01	0-25mm/0-1"	4μm	A	32	24	-
331-002-01	25-50mm/1-2"	4μm	A	57	32	25mm
331-003-01	50-75mm/2-3"	5μm	A	82	44.5	50mm
331-004-01	75-100mm/3-4"	5μm	A	107	57	75mm
331-001-02	0-25mm/0-1"	4μm	B	32	24	100mm
331-002-02	25-50mm/1-2"	4μm	B	57	32	125mm
331-003-02	50-75mm/2-3"	5μm	B	82	44.5	150mm
331-004-02	75-100mm/3-4"	5μm	B	107	57	175mm

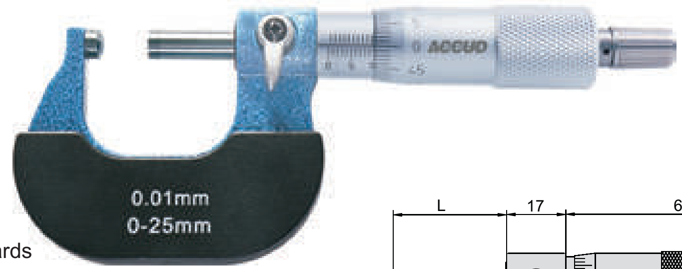
Setting standards (included)





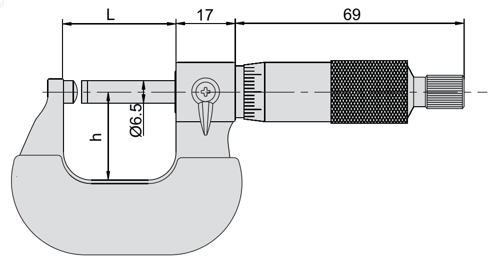
SERIES 340 SPHERICAL ANVIL TUBE MICROMETER

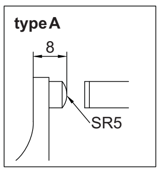
- Measure wall thickness of tubes
- Graduation: 0.01mm
- Carbide measuring faces
- Ratchet stop
- Setting standards are included (except **0-25mm**)

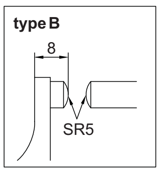


340-001-01

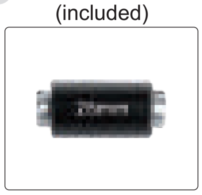
unit: mm





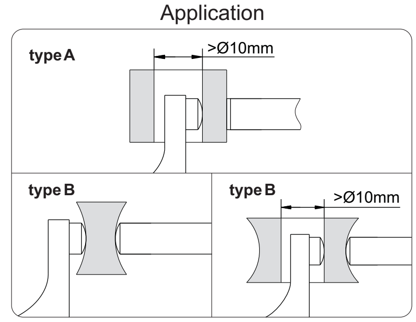


Setting standards (included)



Code	Range	Type	Accuracy	L	h	Setting standards (included)
340-001-01	0-25mm	A	4μm	57	24	-
340-002-01	25-50mm	A	4μm	82	32	25mm
340-003-01	50-75mm	A	5μm	107	44.5	50mm
340-004-01	75-100mm	A	5μm	133	57	75mm
340-001-02	0-25mm	B	4μm	57	24	-
340-002-02	25-50mm	B	4μm	82	32	25mm
340-003-02	50-75mm	B	5μm	107	44.5	50mm
340-004-02	75-100mm	B	5μm	133	57	75mm

Application



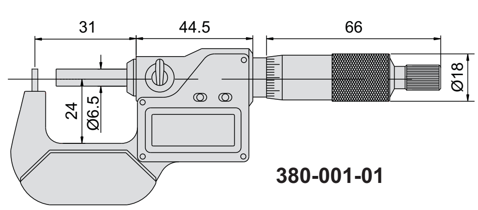
SERIES 380 DIGITAL CYLINDRICAL ANVIL TUBE MICROMETER

IP65 Data output

- Measure wall thickness of tubes
- Resolution 0.001mm/0.00005"
- IP65 protection level
- Button: on/off, set, mm/inch, ABS/INC, data output
- Automatic power off
- Data output
- Ratchet stop
- Carbide spindle tip

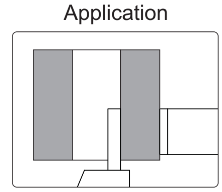
380-001-04

unit: mm

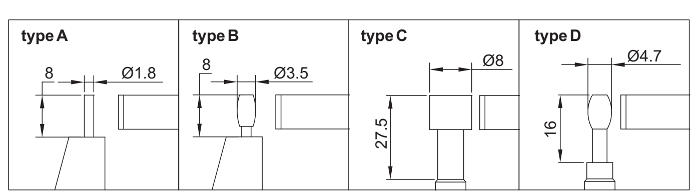


380-001-01

Application



Code	Range	Accuracy	Type
380-001-01	0-25mm/0-1"	±6μm	A
380-001-02	0-25mm/0-1"	±6μm	B
380-001-03	0-25mm/0-1"	±6μm	C
380-001-04	0-25mm/0-1"	±6μm	D

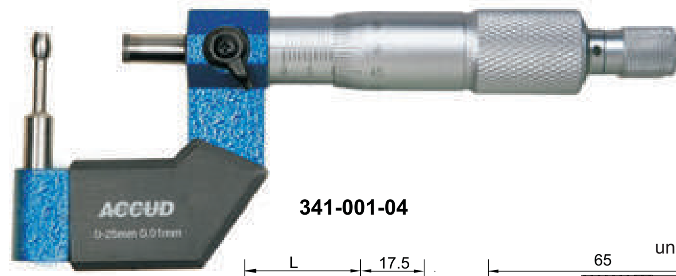


ACCUD

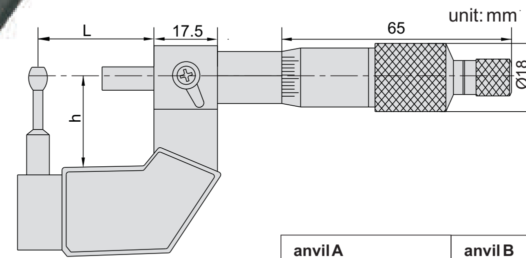
MICROMETER

SERIES 341 TUBE MICROMETER

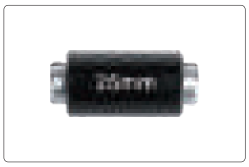
- Measure the wall thickness of tube, bearing and rings
- Graduation: 0.01mm
- Carbide measuring faces
- Ratchet stop
- Setting standards are included (except **0-25mm**)



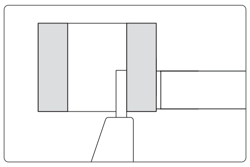
341-001-04



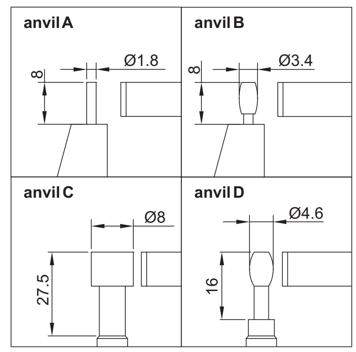
Setting standards(included)



Application



Code	Range	Anvil	Accuracy	h	L	Setting standards (included)
341-001-01	0-25mm	A	6μm	24	31	-
341-002-01	25-50mm	A	6μm	32	57	25mm
341-001-02	0-25mm	B	6μm	24	31	-
341-002-02	25-50mm	B	6μm	32	57	25mm
341-001-03	0-25mm	C	6μm	24	31	-
341-001-04	0-25mm	D	6μm	24	31	-

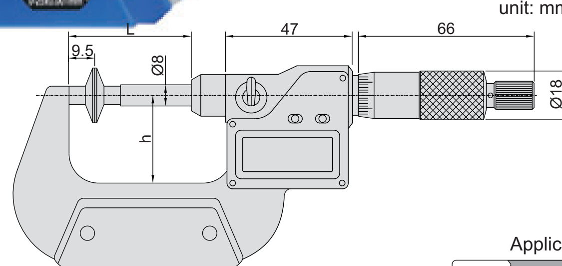


332 DIGITAL NON ROTATING SPINDLE DISK MICROMETER

Data output

- Measure root tangent length of gear
- Resolution 0.001mm/0.00005"
- Non-rotating spindle
- Button: on/off, set, mm/inch, ABS/INC, data output
- Automatic power off
- Data output
- Ratchet stop
- Supplied with setting standards (except **332-001-01**)

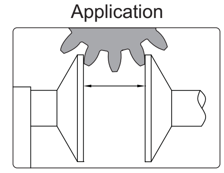
332-001-01

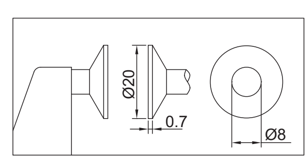


Setting standards(included)

Code	Range	Accuracy	L	h	Setting standards (included)
332-001-01	0-25mm/0-1"	±4μm	43	32	-
332-002-01	25-50mm/1-2"	±4μm	68	44.5	25mm
332-003-01	50-75mm/2-3"	±5μm	93	57	50mm
332-004-01	75-100mm/3-4"	±5μm	118.5	70	75mm
332-005-01	100-125mm/4-5"	±6μm	144	82	100mm
332-006-01	125-150mm/5-6"	±6μm	169.5	94.5	125mm

Application

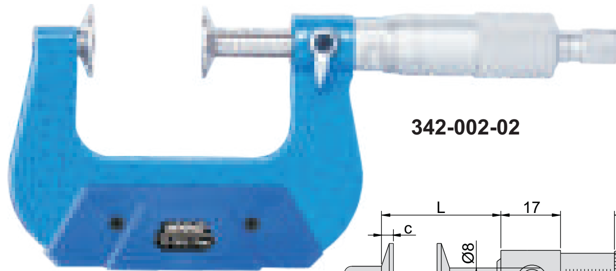




MICROMETER

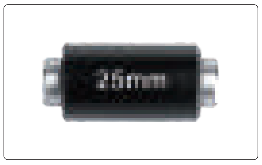
SERIES 342 DISK MICROMETER

- Measure root tangent length of gear
- Graduation 0.01mm
- Ratchet stop
- Supplied with setting standards (except 0-25mm)

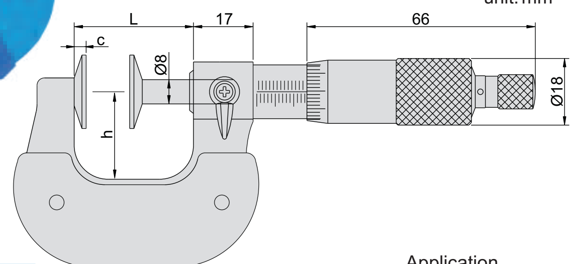


342-002-02

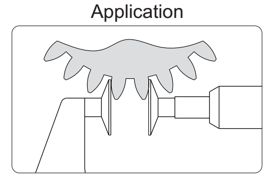
Setting standards(included)

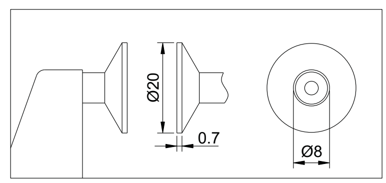


unit: mm



Application

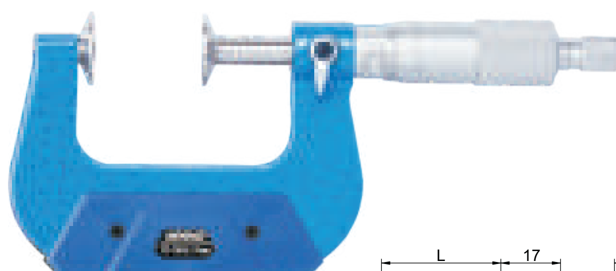




Code	Range	Accuracy	L	h	c	Setting standards (included)
342-001-02	0-25mm	4μm	34	24	3.3	-
342-002-02	25-50mm	4μm	59	32	3.3	25mm
342-003-02	50-75mm	5μm	85	45	3.3	50mm
342-004-02	75-100mm	5μm	110	57	3.3	75mm
342-005-02	100-125mm	6μm	138	70	4.3	100mm
342-006-02	125-150mm	6μm	163	82	4.3	125mm
342-007-02	150-175mm	7μm	188	95	4.3	150mm
342-008-02	175-200mm	7μm	214	107	4.3	175mm

SERIES 342 NON-ROTATING SPINDLE DISK MICROMETERS(ECONOMIC TYPE)

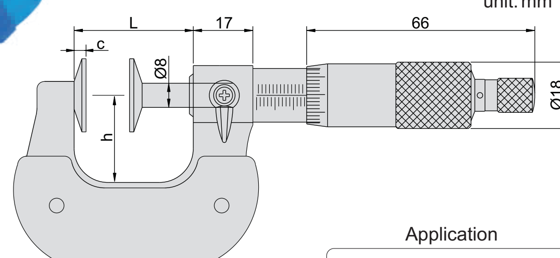
- Measure root tangent length of gear
- Graduation 0.01mm
- Non-rotating spindle
- Ratchet stop
- Supplied with setting standards (except 0-25mm)



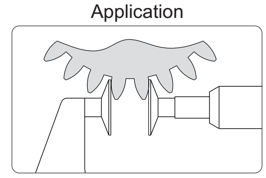
342-002-01

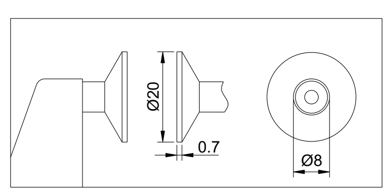
Setting standards(included)

unit: mm



Application





Code	Range	Accuracy	Parallelism	L	h	c	Setting standards (included)
342-001-01	0-25mm	4μm	5μm	34	24	3.3	-
342-002-01	25-50mm	4μm	5μm	59	32	3.3	25mm
342-003-01	50-75mm	5μm	5μm	85	45	3.3	50mm
342-004-01	75-100mm	5μm	5μm	110	57	3.3	75mm
342-005-01	100-125mm	6μm	5μm	138	70	4.3	100mm
342-006-01	125-150mm	6μm	5μm	163	82	4.3	125mm

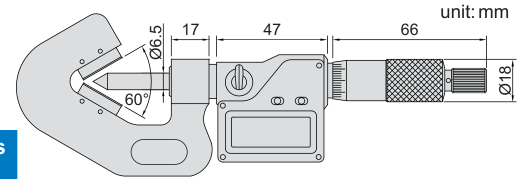
SERIES 334 DIGITAL V-ANVIL MICROMETER

IP65
Data output

- Measure the outside diameter of cutting tools (such as taps, reamers, end mills) with 3 or 5 flutes
- Resolution: 0.001mm/0.00005"
- Button: on/off, set, mm/inch, ABS/INC, data output
- Automatic power off, Ratchet stop
- Data output
- Carbide measuring faces

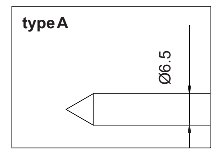
334-020-01

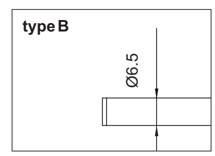
unit: mm



Code	Range	Accuracy	Flutes	Type	Setting standards (included)
334-015-01	1-15mm/0.04-0.6"	±4μm	3	A	5mm
334-020-01	5-20mm/0.2-0.8"	±4μm	3	B	5mm
334-035-01	20-35mm/0.8-1.4"	±5μm	3	B	20mm
334-050-01	35-50mm/1.4-2.0"	±5μm	3	B	35mm
334-025-55	5-25mm/0.2-1.0"	±4μm	5	B	5mm
334-045-55	25-45mm/1.0-1.8"	±5μm	5	B	25mm
334-065-55	45-65mm/1.8-2.6"	±6μm	5	B	50mm
334-085-55	65-85mm/2.6-3.4"	±6μm	5	B	65mm
334-105-55	85-105mm/3.3-4.2"	±6μm	5	B	85mm

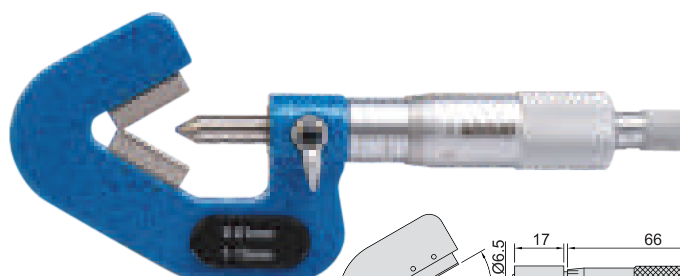
Setting standards (included)





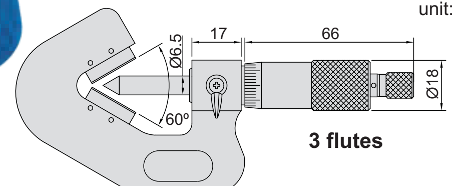
SERIES 334 V-ANVIL MICROMETER

- Measure the outside diameter of cutting tools(such as taps, reamers, end mills) with 3 or 5 flutes
- Graduation 0.01mm
- Ratchet stop
- Carbide measuring faces
- Supplied with setting standards

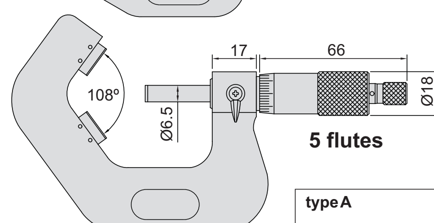


334-006-01

unit: mm



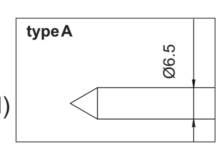
3 flutes

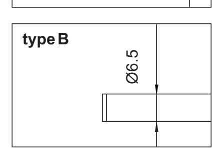


5 flutes

Code	Range	Accuracy	Flutes	Type	Setting standards(included)
334-006-01	1-15mm	4μm	3	A	5mm
334-008-01	5-20mm	4μm	3	B	5mm
334-012-01	20-35mm	5μm	3	B	20mm
334-019-01	35-50mm	5μm	3	B	35mm
334-024-01	50-65mm	6μm	3	B	50mm
334-032-01	65-80mm	6μm	3	B	65mm
334-036-01	80-95mm	7μm	3	B	80mm
334-025-05	5-25mm	4μm	5	B	5mm
334-045-05	25-45mm	5μm	5	B	25mm
334-065-05	45-65mm	6μm	5	B	50mm
334-085-05	65-85mm	7μm	5	B	65mm

Setting standards(included)





MICROMETER

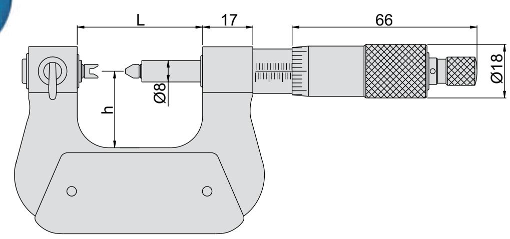
SERIES 343 SCREW THREAD MICROMETER

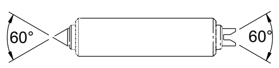
- Measure pitch diameter of screw threads
- Graduation 0.01mm
- Non-rotating spindle
- Ratchet stop
- Supplied with 60° setting standards (except 0-25mm)
- Optional accessory: 55° setting standards, measuring tips

Measuring tips are not included

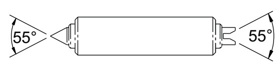
343-002-02

unit: mm





60° setting standards **(included)**

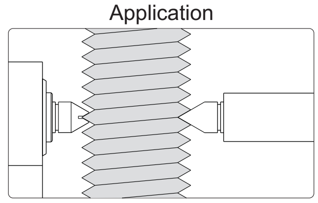


55° setting standards **(optional)**

Code	Range	Micrometer head accuracy	Measuring tips accuracy	L	h	Setting standards (included)
343-001-02	0-25mm	4μm	8μm	42	26	-
343-002-02	25-50mm	4μm	8μm	67	38	25mm
343-003-02	50-75mm	5μm	10μm	92	50	50mm
343-004-02	75-100mm	5μm	10μm	118	62	75mm
343-005-02	100-125mm	6μm	15μm	143	70	100mm
343-006-02	125-150mm	6μm	15μm	168	82	125mm
343-007-02	150-175mm	7μm	15μm	192	94.5	150mm
343-008-02	175-200mm	7μm	15μm	217	107	175mm

Setting standards

Application

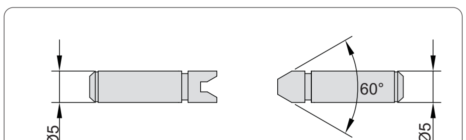


SERIES 343 MEASURING TIPS FOR SCREW THREAD MICROMETER

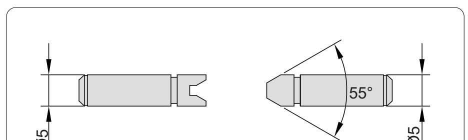
- For series 343 screw thread micrometer

343-000-01

unit: mm



60° thread angle



55° thread angle

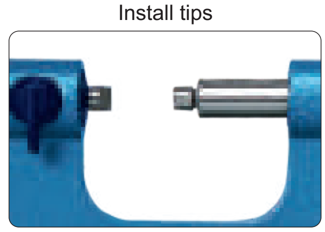
Whitworth thread (55° thread angle)

Code	Pitch
343-000-11	60-48TPI
343-000-12	48-40TPI
343-000-13	40-32TPI
343-000-14	32-24TPI
343-000-15	24-18TPI
343-000-16	18-14TPI
343-000-17	14-10TPI
343-000-18	10-7TPI
343-000-19	7-4.5TPI
343-000-20	4.5-3.5TPI
343-000-2TS	10 pairs/set, including all above tips

Metric and unified thread (60° thread angle)

Code	Pitch
343-000-01	0.4-0.5mm/ 64-48TPI
343-000-02	0.6-0.9mm/ 44-28TPI
343-000-03	1-1.75mm/ 24-14TPI
343-000-04	2-3mm/ 13-9TPI
343-000-05	3.5-5mm/ 8-5TPI
343-000-06	5.5-7mm/ 4.5-3.5TPI
343-000-TS	6 pairs/set, including all above tips

Install tips



SERIES 333 DIGITAL SCREW THREAD MICROMETER

Data output

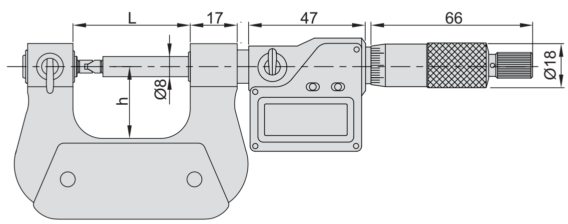
- Measure pitch diameter of screw threads
- Resolution 0.001mm/0.00005"
- Button: on/off, set, mm/inch, ABS/INC, data output
- Automatic power off
- Data output
- Non-rotating spindle
- Ratchet stop
- Supplied with 60° setting standards (except **333-001-01**)
- Optional accessory: 55° setting standards

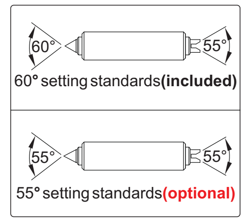
Setting standards

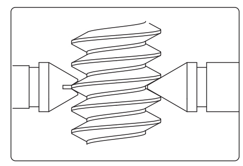
Measuring tips are not included

333-001-01

unit: mm







Code	Range	Micrometer head accuracy	L	h	Setting standards (included)
333-001-01	0-25mm/0-1"	±4μm	42	26	-
333-002-01	25-50mm/1-2"	±4μm	67	38	25mm
333-003-01	50-75mm/2-3"	±5μm	92	50	50mm
333-004-01	75-100mm/3-4"	±5μm	117.6	62	75mm
333-005-01	100-125mm/4-5"	±6μm	143	70	100mm
333-006-01	125-150mm/5-6"	±6μm	168	82	125mm
333-007-01	150-175mm/6-7"	±7μm	192	94.5	150mm
333-008-01	175-200mm/7-8"	±7μm	217	107	175mm

Accuracy of micrometers with tips

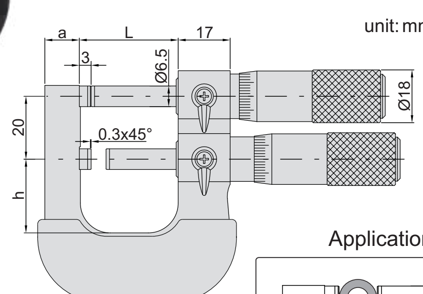
Pitch	Range (mm)					
	0-25	25-50	50-75	75-100	100-125	125-200
0.4-0.5	±0.01	-	-	-	-	-
0.6-0.8	±0.01	±0.013	-	-	-	-
1-1.25	±0.012	±0.015	±0.017	±0.017	-	-
1.5-2.0	±0.014	±0.017	±0.019	±0.019	±0.020	±0.023
2.5-3.5	±0.016	±0.019	±0.021	±0.021	±0.023	±0.025
4.0-7.0	-	±0.021	±0.023	±0.023	±0.025	±0.028

SERIES 335 LIMIT MICROMETER

- Used as Go/No-Go gauge by setting upper and lower limits
- Graduation 0.002mm
- Carbide measuring faces
- Supplied with setting standard (except **335-001-01**)

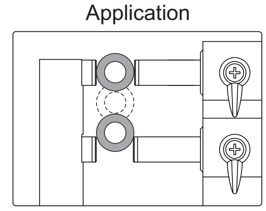
335-001-01

unit: mm



Setting standards(included)

Application



Code	Range	Accuracy	L	a	h	Setting standards(included)
335-001-01	0-25mm	4μm	32	12	24	-
335-002-01	25-50mm	4μm	57	15	32	25mm

MICROMETER

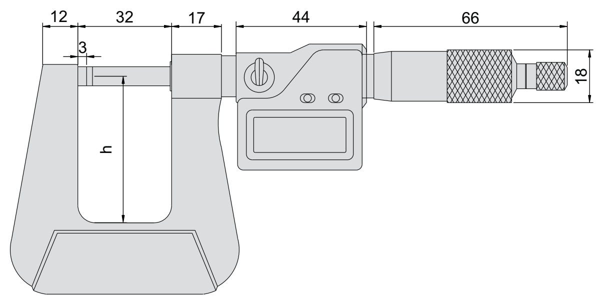
SERIES 350 DIGITAL SHEET METAL MICROMETER

Data output

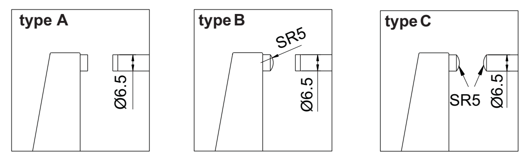
- Deep frame suitable for sheet metal, paper and plastic
- Resolution: 0.001mm/0.00005"
- IP65 protection level
- Button: on/off, mm/inch,set, zero, ABS/INC,date output
- Automatic power off
- Data output
- Carbide measuring faces, ratchet stop

350-001-11

unit: mm

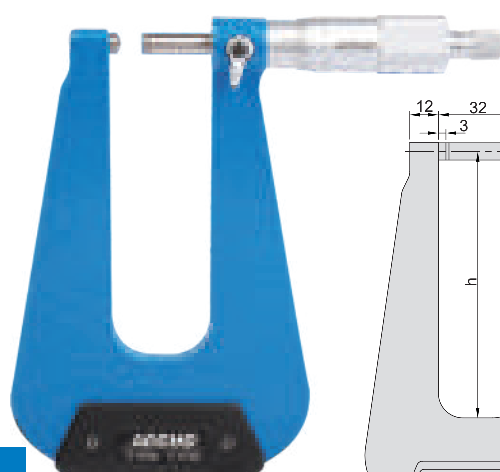


Code	Range	Accuracy	Type	h
350-001-11	0-25mm/0-1"	±3μm	A	50
350-001-12	0-25mm/0-1"	±5μm	A	100
350-001-13	0-25mm/0-1"	±7μm	A	150
350-001-21	0-25mm/0-1"	±3μm	B	50
350-001-22	0-25mm/0-1"	±5μm	B	100
350-001-23	0-25mm/0-1"	±7μm	B	150
350-001-31	0-25mm/0-1"	±3μm	C	50
350-001-32	0-25mm/0-1"	±5μm	C	100
350-001-33	0-25mm/0-1"	±7μm	C	150



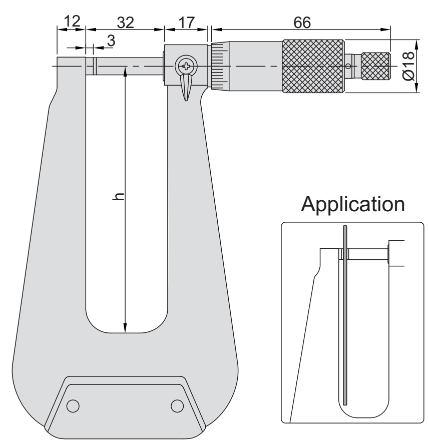
SERIES 336 SHEET METAL MICROMETER

- Deep frame suitable for sheet metal, paper and plastic
- Graduation 0.01mm
- Ratchet stop
- Carbide measuring faces



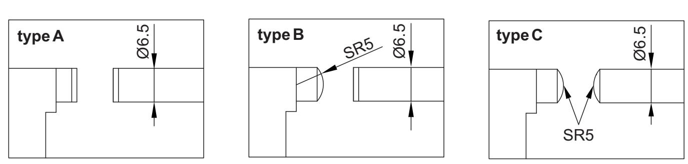
336-001-01

unit: mm



Application

Code	Range	Accuracy	Type	h
336-001-11	0-25mm	4μm	A	50
336-001-21	0-25mm	4μm	B	50
336-001-31	0-25mm	4μm	C	50
336-001-01	0-25mm	7μm	B	100
336-001-02	0-25mm	7μm	A	155
336-001-03	0-25mm	7μm	B	155
336-001-04	0-25mm	7μm	C	155
336-001-05	0-25mm	10μm	B	310



MICROMETER

SERIES 339 DIGITAL JAW TYPE MICROMETER

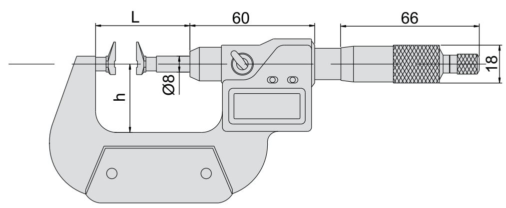
Data output

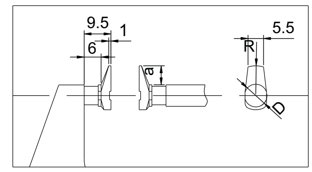
- Resolution: 0.001mm/0.00005"
- Buttons: on/off, set, mm/inch, ABS/INC data output
- Automatic power off
- Data output
- Non-rotating spindle
- Supplied with setting standards (except **339-001-01**)

339-001-01

Setting standards(included)

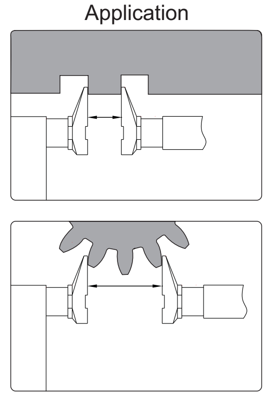
unit: mm





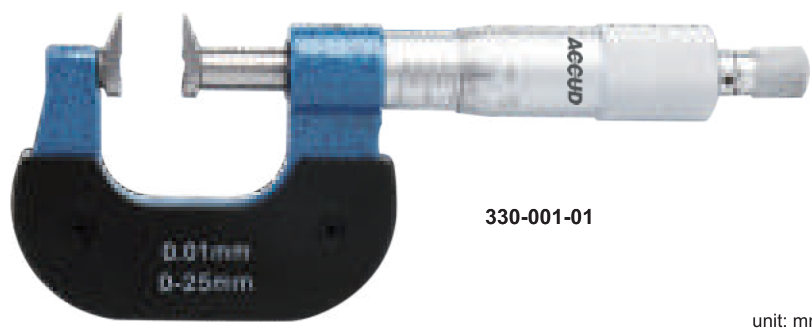
Code	Range	Accuracy	L	a	h	R	D	Setting standards(included)
339-001-01	0-25mm/0-1"	4µm	43	6.5	32	10	8	-
339-002-01	25-50mm/1-2"	4µm	85	6.5	44.5	10	8	25mm
339-003-01	50-75mm/2-3"	5µm	110	6.5	57	10	8	50mm
339-004-01	75-100mm/3-4"	5µm	135	6.5	70	10	8	75mm
339-005-01	100-125mm/4-5"	6µm	160	11.5	86	15	12	100mm
339-006-01	125-150mm/5-6"	6µm	186	11.5	94.5	15	12	125mm
339-007-01	150-175mm/6-7"	7µm	211	11.5	107	15	12	150mm
339-008-01	175-200mm/7-8"	7µm	236	11.5	120	15	12	175mm

Application



SERIES 330 JAW TYPE MICROMETER

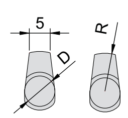
- Graduation :0.01mm
- Non-rotating spindle, painted frame,
- Ratchet stop
- Supplied with setting standards (except **330-001-01**)

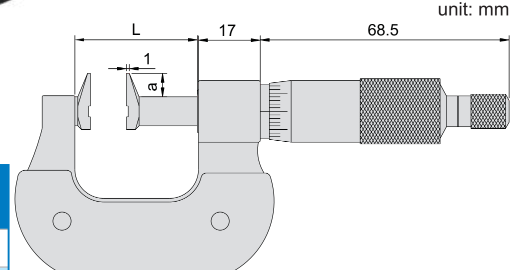


330-001-01

Setting standards(included)

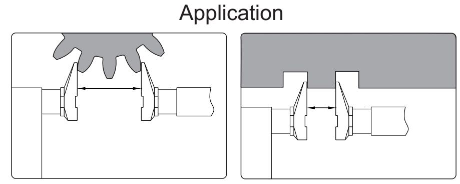
unit: mm





Code	Range	Accuracy	L	a	R	D	Setting standards (included)
330-001-01	0-25mm	4µm	34	6	10	8	-
330-002-01	25-50mm	4µm	59	6	10	8	25mm
330-003-01	50-75mm	5µm	85	6	10	8	50mm
330-004-01	75-100mm	5µm	110	6	10	8	75mm
330-005-01	100-125mm	6µm	138	9	15	12	100mm
330-006-01	125-150mm	6µm	163	9	15	12	125mm
330-007-01	150-175mm	7µm	188	9	15	12	150mm
330-008-01	175-200mm	7µm	214	9	15	12	175mm

Application

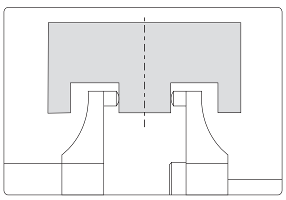


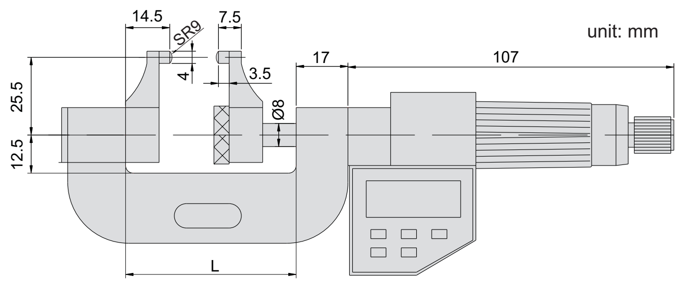
SERIES 338 DIGITAL CALIPER TYPE MICROMETER

Data output

- Resolution: 0.001mm/0.00005"
- Buttons: on/off, set, mm/inch, ABS/INC data output
- Automatic power off
- Date output
- Supplied with setting standards (except **338-001-01**)

338-001-01



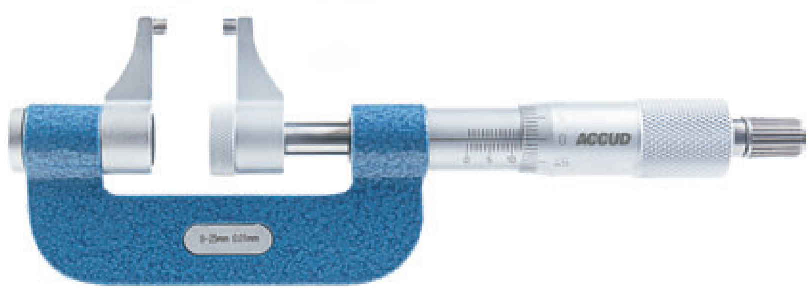


Code	Range	Accuracy	L	Setting standards(included)
338-001-01	0-25mm/0-1"	10μm	56	-
338-002-01	25-50mm/1-2"	10μm	81	25mm
338-003-01	50-75mm/2-3"	11μm	106	50mm
338-004-01	75-100mm/3-4"	11μm	131	75mm

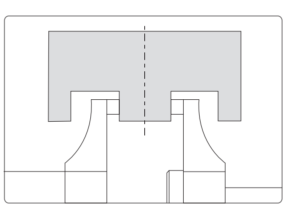
Setting standards(included)

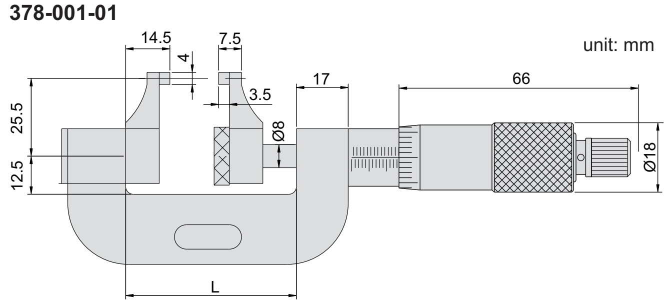
SERIES 378 CALIPER TYPE MICROMETERS

- Graduation 0.01mm
- Non-rotating spindle
- Ratchet stop
- Carbide measuring faces
- Supplied with setting standards (except **378-001-01**)



378-001-01



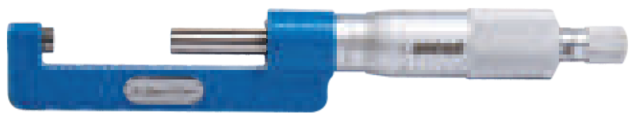


Code	Range	Accuracy	L	Setting standards(included)
378-001-01	0-25mm	10μm	56	-
378-002-01	25-50mm	10μm	81	25mm
378-003-01	50-75mm	11μm	106	50mm
378-004-01	75-100mm	11μm	131	75mm

Setting standards(included)

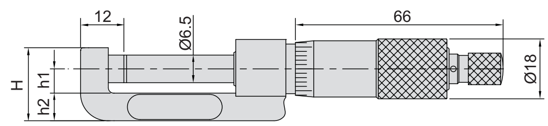
SERIES 337 HUB MICROMETER

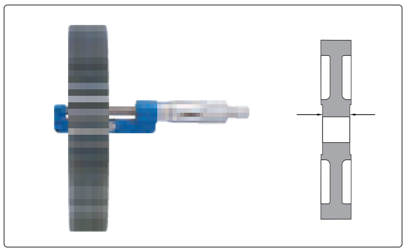
- Measure hub thickness and shoulder inside a bore
- Graduation 0.01mm
- Ratchet stop
- Carbide measuring faces
- Supplied with setting standards (except **337-001-01**)



337-002-01

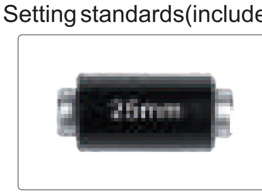
unit: mm





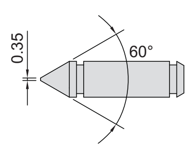
Code	Range	Accuracy	h1	h2	H	Setting standards(included)
337-001-01	0-25mm	4μm	6	9	18.7	-
337-002-01	25-50mm	4μm	6.5	11	21.2	25mm
337-003-01	50-75mm	5μm	6.5	11	21.2	50mm
337-004-01	75-100mm	5μm	6.5	11	21.2	75mm

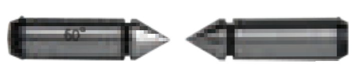
Setting standards(included)



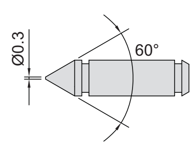
SERIES 301 UNIVERSAL MICROMETER TIPS

301-000-11



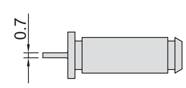


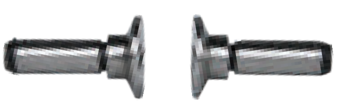
301-000-12



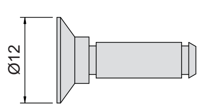
301-000-13

unit: mm

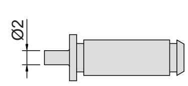




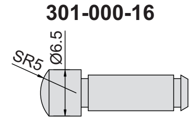
301-000-14



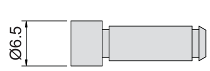
301-000-15



301-000-16



301-000-17



Code	Name
301-000-11	Knife-edge
301-000-12	Point
301-000-13	Blade
301-000-14	Disk
301-000-15	Spline
301-000-16	Spherical
301-000-17	Flat
301-000-TS	7pairs/set, including all above tips

- For series 301 non rotating spindle universal micrometer and series 302 digital universal micrometer

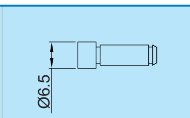
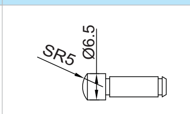
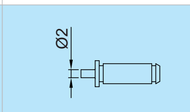
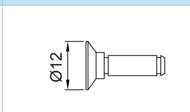
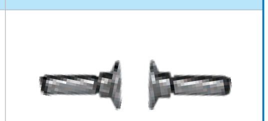
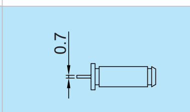
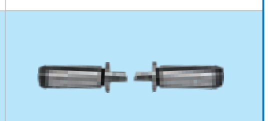
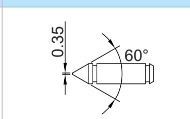
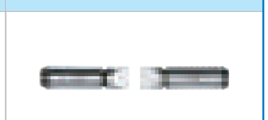
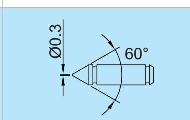
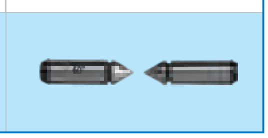
SERIES 302 DIGITAL UNIVERSAL MICROMETER

Data output CR2032

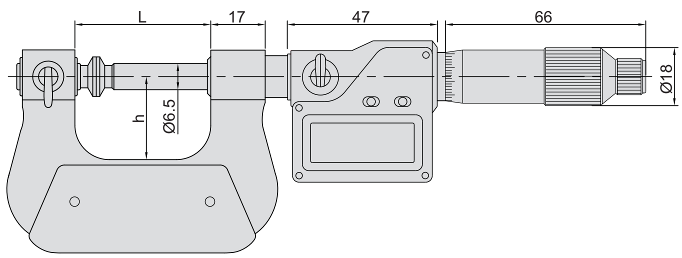
- Resolution 0.001mm/0.00005"
- Button: on/off, set, mm/inch, ABS/INC, data output
- Automatic power off
- Data output
- Ratchet stop
- Supplied with 7 pairs of anvil/spindle tips
- Setting standards are included (except 0-25mm/0-1")
- Optional accessory: 55° anvil/spindle tip

302-001-01

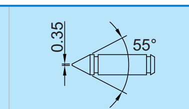
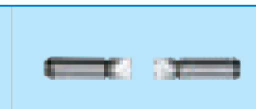
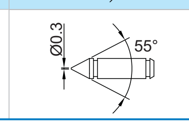
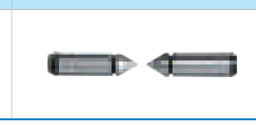
standard anvil/spindle tip

Flat		
Spherical		
Spline		
Disk		
Blade		
Knife-edge		
Point		

unit: mm

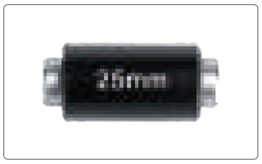


optional 55° anvil/spindle tip

301-000-01 Knife-edge		
301-000-02 Point		

Code	Range	Accuracy	L	h	Setting standards(included)
302-001-01	0-25mm/0-1"	4μm	42	26	-
302-002-01	25-50mm/1-2"	4μm	67	38	25mm
302-003-01	50-75mm/2-3"	5μm	92	50	50mm
302-004-01	75-100mm/3-4"	5μm	118	62	75mm
302-005-01	100-125mm/4-5"	6μm	143	70	100mm
302-006-01	125-150mm/5-6"	6μm	168	82	125mm
302-007-01	150-175mm/6-7"	7μm	192	95	150mm
302-008-01	175-200mm/7-8"	7μm	217	107	175mm

Setting standards(included)



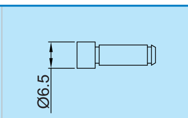
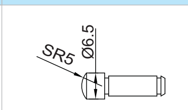
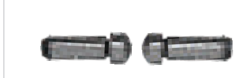
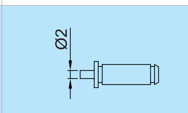
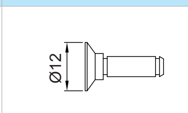
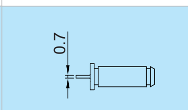
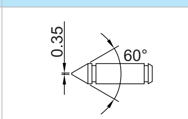
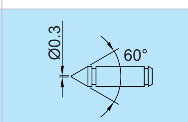
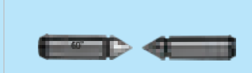
ACCUD

SERIES 301 NON ROTATING SPINDLE UNIVERSAL MICROMETER

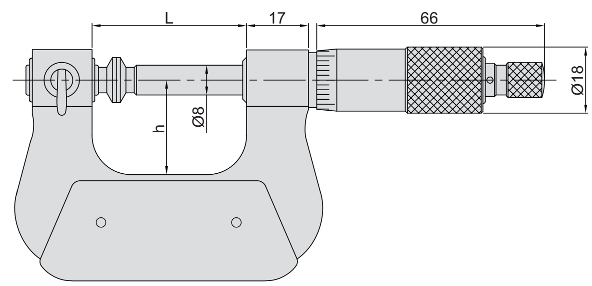
- Graduation 0.01mm
- Non-rotating spindle
- Ratchet stop
- Supplied with7 pairs of anvil/spindle tips
- Setting standards are included (except 0-25mm)
- Optional accessory:55°anvil/spindle tip

301-001-01

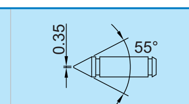
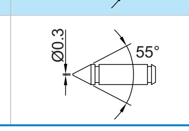
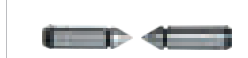
standard anvil/spindle tip

Flat		
Spherical		
Spline		
Disk		
Blade		
Knife-edge		
Point		

unit: mm



optional 55°anvil/spindle tip

301-000-01 Knife-edge		
301-000-02 Point		

Code	Range	Accuracy	L	h	Setting standards(included)
301-001-01	0-25mm	4μm	42	26	-
301-002-01	25-50mm	4μm	67	38	25mm
301-003-01	50-75mm	5μm	92	50	50mm
301-004-01	75-100mm	5μm	118	62	75mm
301-005-01	100-125mm	6μm	143	70	100mm
301-006-01	125-150mm	6μm	168	82	125mm
301-007-01	150-175mm	7μm	192	95	150mm
301-008-01	175-200mm	7μm	217	107	175mm

Setting standards(included)

MICROMETER

SERIES 304 DIGITAL GEAR TOOTH MICROMETER

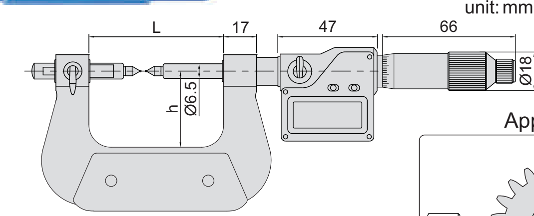
Data output | IP65 | CR2032

- Measure over-pin diameter of gears
- Resolution 0.001mm/0.00005"
- IP65 dust/waterproof
- Button function: on/off, set, mm/inch, ABS/INC
- Data output (cable code: 300-03 or 300-04)
- Automatic power off
- Ratchet stop
- Supplied with setting standards (except **304-001-01**)
- Optional accessory: ball tips (code: series 345-000-XX)

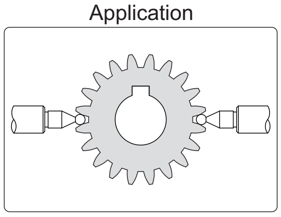
point (optional)

304-002-01

unit: mm

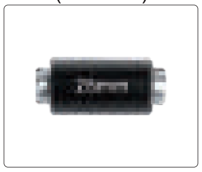


Application

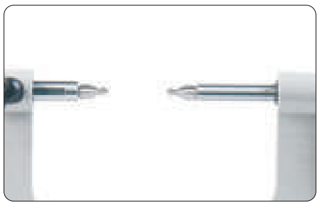


Code	Range	Accuracy	L	h	Setting standards (included)
304-001-01	0-25mm/0-1"	4μm	67	38	-
304-002-01	25-50mm/1-2"	4μm	92.4	50	25mm
304-003-01	50-75mm/2-3"	5μm	117.6	62	50mm
304-004-01	75-100mm/3-4"	5μm	143	70	75mm
304-005-01	100-125mm/4-5"	6μm	168.2	82	100mm
304-006-01	125-150mm/5-6"	6μm	192	94.5	125mm
304-007-01	150-175mm/6-7"	7μm	217	107	150mm

Setting standards (included)



Install points



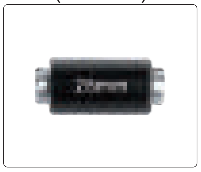
SERIES 345 GEAR TOOTH MICROMETER

- Measure over-pin diameter of gears
- Graduation 0.01mm
- Ratchet stop
- Supplied with setting standards (except **345-001-01**)
- Optional accessory: ball tips

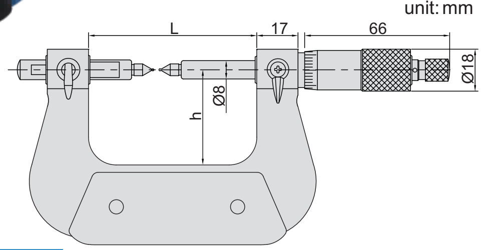
points (optional)

345-001-01

Setting standards (included)

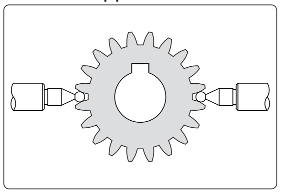


unit: mm



Code	Range	Accuracy	L	h	Setting standards(included)
345-001-01	0-25mm	4μm	67	38	-
345-002-01	25-50mm	4μm	92.4	50	25mm
345-003-01	50-75mm	5μm	117.6	62	50mm
345-004-01	75-100mm	5μm	143	70	75mm
345-005-01	100-125mm	6μm	168.2	82	100mm
345-006-01	125-150mm	6μm	192	94.5	125mm
345-007-01	150-175mm	7μm	217	107	150mm

Application

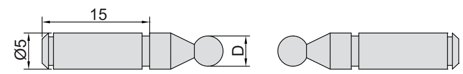


SERIES 345 BALL TIPS FOR GEAR TOOTH MICROMETER

- Supplied in pair

345-000-01

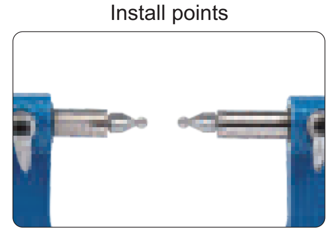
unit: mm



Code	Ball dia.(D)
345-000-01	SØ1mm
345-000-02	SØ1.5mm
345-000-03	SØ2.0mm
345-000-04	SØ2.5mm
345-000-05	SØ3.0mm
345-000-06	SØ3.5mm

Code	Ball dia.(D)
345-000-07	SØ4.0mm
345-000-08	SØ4.5mm
345-000-09	SØ5.0mm
345-000-10	SØ6.0mm
345-000-TS	10 pairs/set, including all above tips

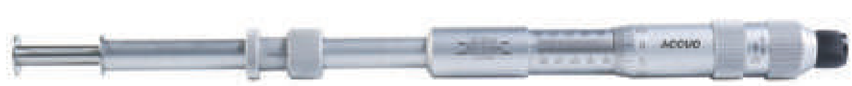
Install points



SERIES 344 GROOVE MICROMETER

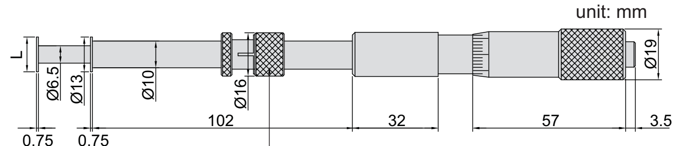
- Graduation 0.01mm
- Measure width of grooves inside bores
- Non-rotating spindle
- Two graduations for inside and outside measurement

344-004-01



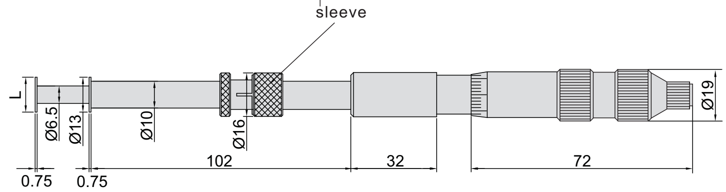
344-002-11

unit: mm



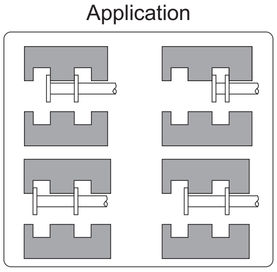
No ratchet stop

sleeve



Two-directional ratchet stop

Application



No ratchet stop

Code	Range(outside)	Range(inside)	Accuracy	L
344-001-01	0-25mm	1.6-26.5mm	10µm	13
344-002-01	25-50mm	26.5-51.5mm	10µm	13
344-003-01	50-75mm	51.5-76.5mm	10µm	13
344-004-01	75-100mm	76.5-101.5mm	10µm	13
344-001-02	0-25mm	1.6-26.5mm	10µm	6.5

Two-directional ratchet stop

Code	Range(outside)	Range(inside)	Accuracy	L
344-001-11	0-25mm	1.6-26.5mm	10µm	13
344-002-11	25-50mm	26.5-51.5mm	10µm	13
344-003-11	50-75mm	51.5-76.5mm	10µm	13
344-004-11	75-100mm	76.5-101.5mm	10µm	13
344-001-12	0-25mm	1.6-26.5mm	10µm	6.5

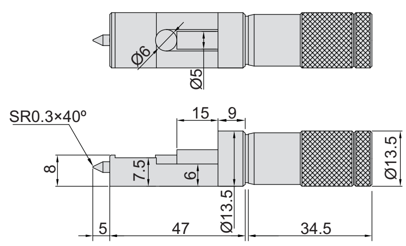
*344-001-02 and 344-001-12 do not have sleeve.

SERIES 348 CAN SEAM MICROMETER

- Measure the width, height and depth of can seams
- Graduation 0.01mm

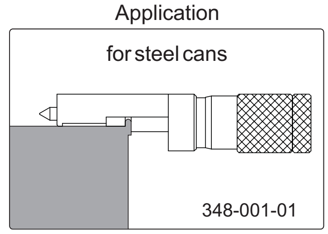
348-001-01

unit: mm



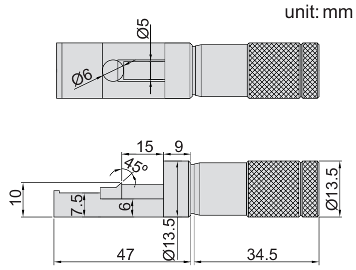
348-001-01

Application



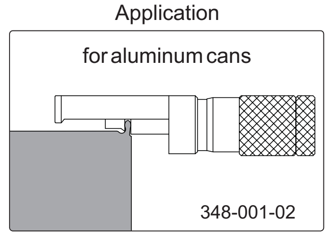
348-001-02

unit: mm



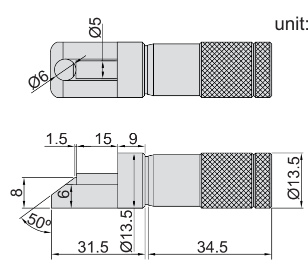
348-001-02

Application



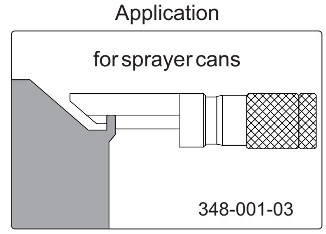
348-001-03

unit: mm



348-001-03

Application



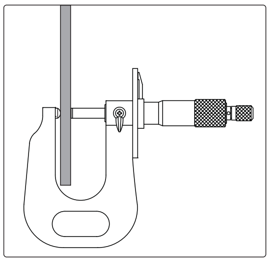
Code	Range	Accuracy
348-001-01	0-13mm	4μm
348-001-02	0-13mm	4μm
348-001-03	0-13mm	4μm

MICROMETER

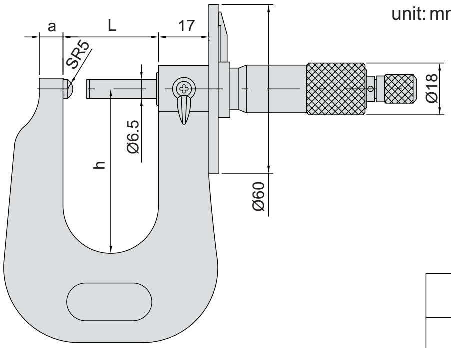
347 SHEET METAL MICROMETER

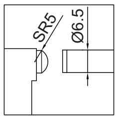
- Measure thickness of sheet metal, paper, plastic and rubber parts
- Graduation 0.01mm
- Ratchet stop
- Carbide measuring faces

Application



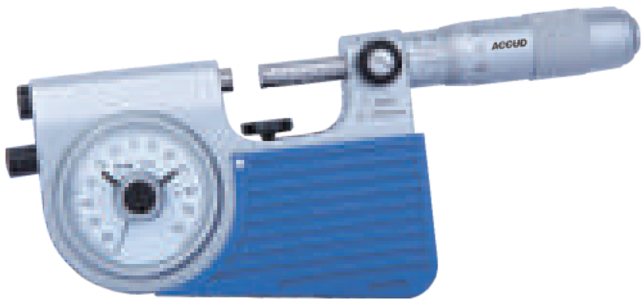
unit: mm





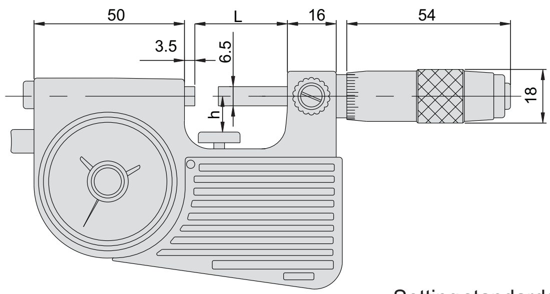
Code	Range	Accuracy	a	h	L
347-015-01	0-15mm	4µm	8	50	22
347-001-01	0-25mm	4µm	8	50	32
347-002-01	0-50mm	5µm	12	100	57

SERIES 349 INDICATING MICROMETER



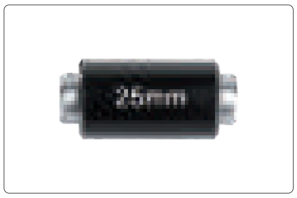
349-001-01

unit: mm



- Micrometer head graduation: 0.01mm
- Dial indicator: graduation 0.001mm, accuracy 0.001mm
- Carbide measuring faces
- Supplied with setting standards (except 0-25mm)

Setting standards(included)

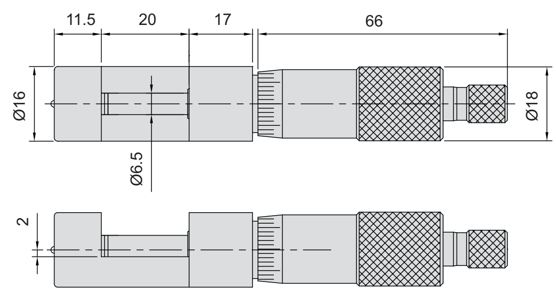


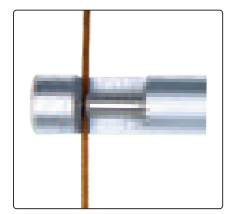
Code	Micrometer head range	Accuracy	Indicator range	L	h	Setting standards (included)
349-001-01	0-25mm	±3µm	60µm	28.5	19	-
349-002-01	25-50mm	±3µm	60µm	53.5	30	25mm
349-003-01	50-75mm	±4µm	60µm	78.5	45	50mm
349-004-01	75-100mm	±4µm	60µm	103.5	57	75mm

370 WIRE MICROMETER

- Measure diameter of wires and small balls
- Graduation 0.01mm
- Ratchet stop
- Carbide measuring faces

unit: mm





Code	Range	Accuracy
370-010-01	0-10mm	4μm

SERIES 305 NON MAGNETIC MICROMETER

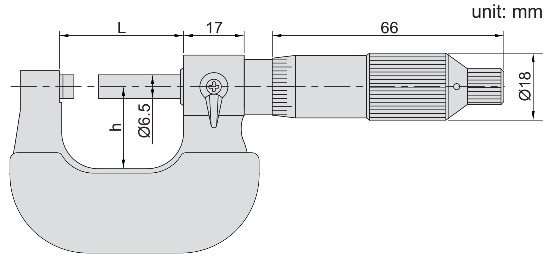
Non-magnetic

- Suitable for magnetic materials
- Graduation: 0.01 mm
- Non magnetic carbide measuring faces
- Ratchet stop
- Supplied with setting standards (except 0-25mm)

305-001-01

Setting standards(included)

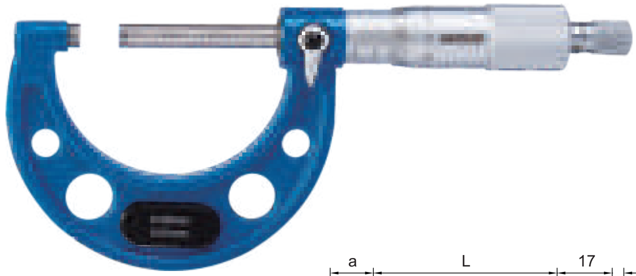
unit: mm

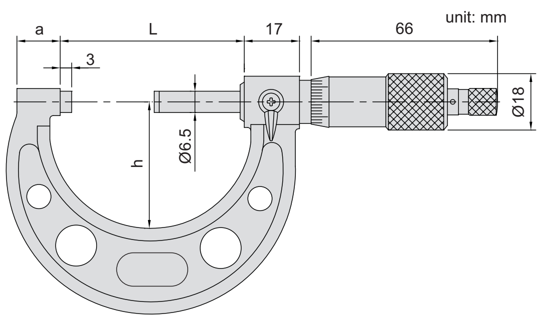


Code	Range	Accuracy	L	h	Setting standards (included)
305-001-01	0-25mm	4μm	32	24	-
305-002-01	25-50mm	4μm	57	32	25
305-003-01	50-75mm	5μm	82	45	50
305-004-01	75-100mm	5μm	105	57	75

379 LONG SPINDLE OUTSIDE MICROMETER

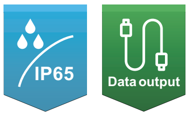
- Graduation 0.01mm
- Ratchet stop
- Carbide measuring faces





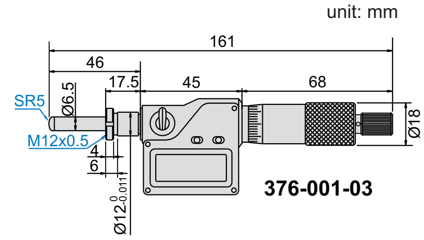
Code	Range	Accuracy	L	a	h
379-001-01	0-25mm	4μm	57	14	38

SERIES 376 DIGITAL MICROMETER HEAD

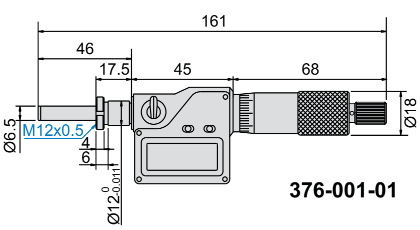


- Resolution 0.001mm/0.00005"
- IP65 protection level
- Button: on/off, set, mm/inch, ABS/INC, data output
- Automatic power off
- Data output
- Ratchet stop

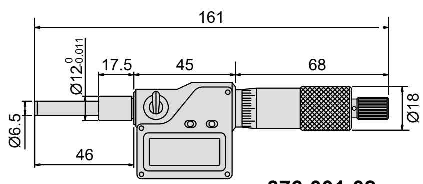
376-001-04



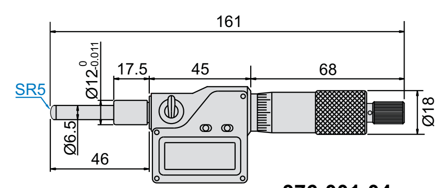
376-001-03



376-001-01



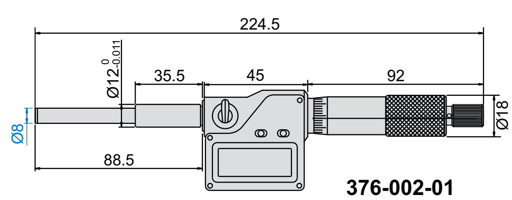
376-001-02



376-001-04

Rotating spindle

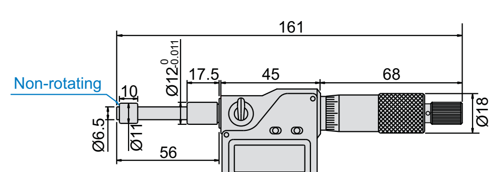
Code	Range	Accuracy	Stem	Spindle tip
376-001-01	0-25mm/0-1"	±2μm	with clamp nut	flat(carbide)
376-001-02	0-25mm/0-1"	±2μm	plain	flat(carbide)
376-001-03	0-25mm/0-1"	±2μm	with clamp nut	spherical(SR5)
376-001-04	0-25mm/0-1"	±2μm	plain	spherical(SR5)
376-002-01	0-50mm/0-2"	±4μm	plain	flat(carbide)



376-002-01

Non-rotating spindle

Code	Range	Accuracy	Stem	Spindle tip
376-001-05	0-25mm/0-1"	±2μm	plain	flat(carbide)



376-001-05

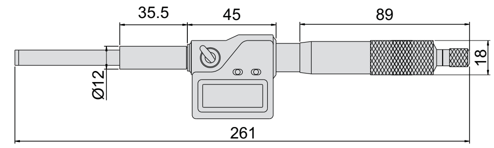
SERIES 376 DIGITAL MICROMETER HEAD

IP65
Data output

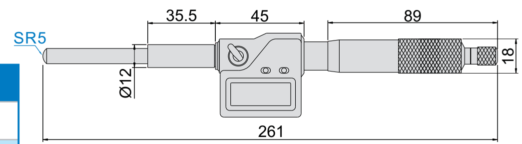
- Resolution 0.001mm/0.00005"
- IP65 protection level
- Button: on/off, set, mm/inch, ABS/INC, data output
- Automatic power off
- Data output
- Ratchet stop

376-002-03

unit: mm



376-002-03



376-002-04

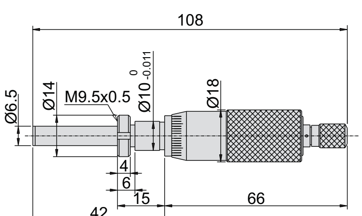
Code	Range	Accuracy	Stem	Spindle tip
376-002-03	0-50mm/0-2"	4μm	plain	flat (carbide)
376-002-04	0-50mm/0-2"	4μm	plain	spherical (SR5)

SERIES 371 MICROMETER HEAD

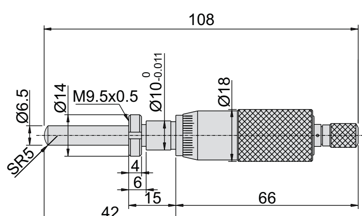
- Graduation: 0.01mm
- Carbide measuring faces
- Ratchet stop

371-001-02

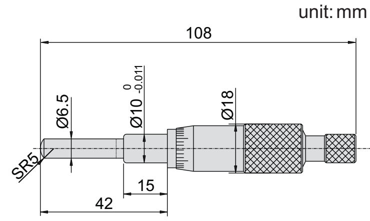
unit: mm



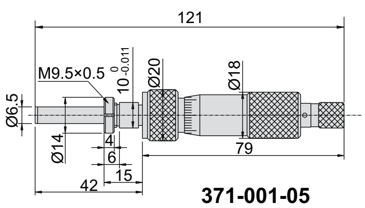
371-001-02



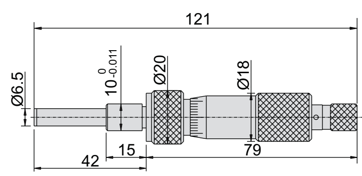
371-001-03



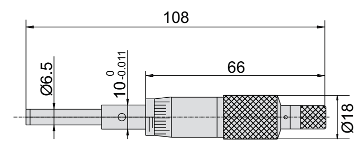
371-001-04



371-001-05



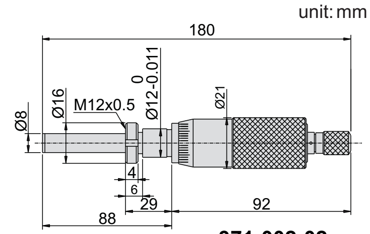
371-001-06



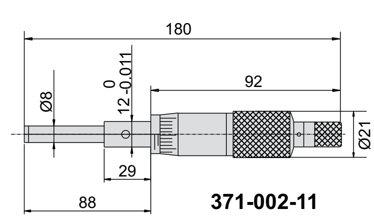
371-001-11

371-002-11

unit: mm



371-002-02

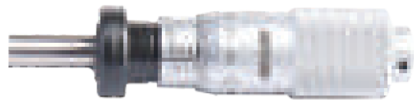


371-002-11

Code	Range	Accuracy	Stem	Spindle tip	Remark
371-001-02	0-25mm	0.003mm	with clamp nut	flat (carbide)	
371-001-03	0-25mm	0.003mm	with clamp nut	spherical (SR5)	
371-001-04	0-25mm	0.003mm	plain	spherical (SR5)	
371-001-05	0-25mm	0.003mm	with clamp nut	flat (carbide)	with spindle lock
371-001-06	0-25mm	0.003mm	plain	flat (carbide)	with spindle lock
371-001-11	0-25mm	0.003mm	plain	flat (carbide)	
371-002-02	0-50mm	5μm	with clamp nut	flat (carbide)	
371-002-11	0-50mm	5μm	plain	flat (carbide)	

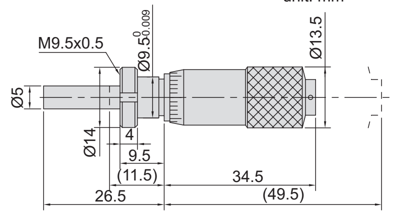
SERIES 373 MICROMETER HEAD

- Graduation 0.01mm

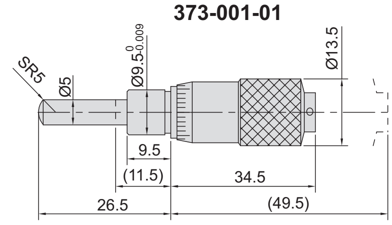


373-001-01

unit: mm



373-001-01



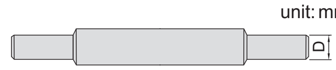
373-001-04

Code	Range	Accuracy	Stem	Spindle tip
373-001-01	0-15mm	3μm	with clamp nut	flat (carbide)
373-001-02	0-15mm	3μm	plain	flat (carbide)
373-001-03	0-15mm	3μm	with clamp nut	spherical (SR5)
373-001-04	0-15mm	3μm	plain	spherical (SR5)

SERIES 321 MICROMETER SETTING STANDARD

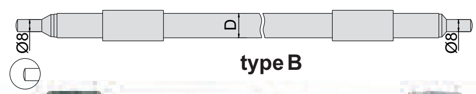
unit: mm

321-004-ST



type A

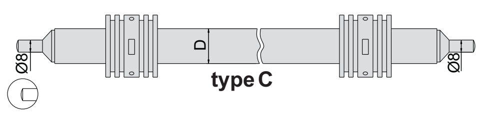
321-015-ST



type B

321-042-ST

- For standard value setting



type C

Code	Length	Accuracy	D	Type
321-001-ST	25mm	±1.5μm	Ø7mm	A
321-002-ST	50mm	±2μm	Ø7mm	A
321-003-ST	75mm	±2.5μm	Ø7mm	A
321-004-ST	100mm	±3μm	Ø8mm	A
321-005-ST	125mm	±3.5μm	Ø8mm	A
321-006-ST	150mm	±4μm	Ø8mm	A
321-007-ST	175mm	±4.5μm	Ø8mm	A
321-008-ST	200mm	±5μm	Ø8mm	A
321-009-ST	225mm	±5.5μm	Ø8mm	A
321-010-ST	250mm	±6μm	Ø8mm	A
321-011-ST	275mm	±6.5μm	Ø8mm	A
321-012-ST	300mm	±7μm	Ø16mm	B
321-013-ST	325mm	±7.5μm	Ø16mm	B
321-014-ST	350mm	±8μm	Ø16mm	B
321-015-ST	375mm	±8.5μm	Ø16mm	B
321-016-ST	400mm	±9μm	Ø16mm	B
321-017-ST	425mm	±9.5μm	Ø16mm	B
321-018-ST	450mm	±10μm	Ø16mm	B
321-019-ST	475mm	±10.5μm	Ø16mm	B
321-020-ST	500mm	±11μm	Ø16mm	B

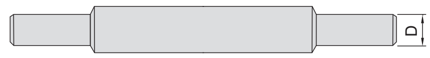
Code	Length	Accuracy	D	Type
321-021-ST	525mm	±11.5μm	Ø16mm	B
321-023-ST	575mm	±12.5μm	Ø16mm	B
321-025-ST	625mm	±13.5μm	Ø16mm	B
321-027-ST	675mm	±14.5μm	Ø16mm	B
321-029-ST	725mm	±15.5μm	Ø16mm	B
321-031-ST	775mm	±16.5μm	Ø16mm	B
321-033-ST	825mm	±17.5μm	Ø16mm	B
321-035-ST	875mm	±18.5μm	Ø16mm	B
321-037-ST	925mm	±19.5μm	Ø16mm	B
321-039-ST	975mm	±20.5μm	Ø16mm	B
321-042-ST	1050mm	±22μm	Ø23mm	C
321-046-ST	1150mm	±24μm	Ø23mm	C
321-050-ST	1250mm	±26μm	Ø23mm	C
321-054-ST	1350mm	±28μm	Ø23mm	C
321-058-ST	1450mm	±30μm	Ø23mm	C
321-062-ST	1550mm	±32μm	Ø23mm	C
321-066-ST	1650mm	±34μm	Ø23mm	C
321-070-ST	1750mm	±36μm	Ø23mm	C
321-074-ST	1850mm	±38μm	Ø23mm	C
321-078-ST	1950mm	±40μm	Ø23mm	C

SERIES 324 INCH MICROMETER SETTING STANDARD

- For standard value setting

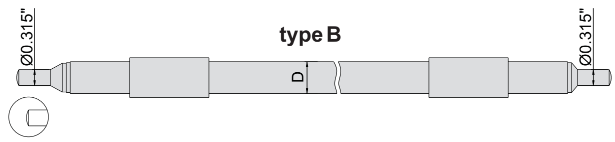
324-004-ST

type A



324-012-ST

type B



Code	Length	Accuracy	D	Type
324-001-ST	1"	±0.00006"	Ø0.276"	A
324-002-ST	2"	±0.00008"	Ø0.276"	A
324-003-ST	3"	±0.00010"	Ø0.276"	A
324-004-ST	4"	±0.00012"	Ø0.315"	A
324-005-ST	5"	±0.00014"	Ø0.315"	A
324-006-ST	6"	±0.00016"	Ø0.315"	A

Code	Length	Accuracy	D	Type
324-007-ST	7"	±0.00018"	Ø0.315"	A
324-008-ST	8"	±0.00020"	Ø0.315"	A
324-009-ST	9"	±0.00022"	Ø0.315"	A
324-010-ST	10"	±0.00024"	Ø0.315"	A
324-011-ST	11"	±0.00026"	Ø0.315"	A
324-012-ST	12"	±0.00028"	Ø0.630"	B

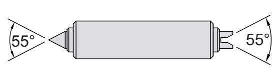
SERIES 343 SCREW THREAD MICROMETER SETTING STANDARD

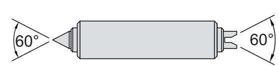
- For screw thread micrometer (series 333 or 343)

343-001-ST

343-001-ST1

unit: mm





55° thread angle

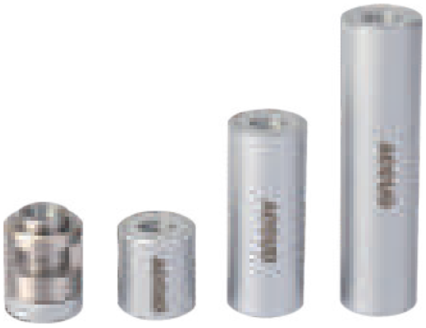
Code	Length	Accuracy
343-001-ST	25mm	±3μm
343-002-ST	50mm	±3.5μm
343-003-ST	75mm	±4μm
343-004-ST	100mm	±4.5μm
343-005-ST	125mm	±5μm
343-006-ST	150mm	±5.5μm
343-007-ST	175mm	±6μm
343-008-ST	200mm	±6μm

60° thread angle

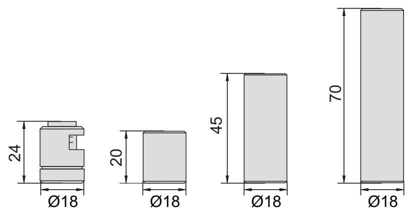
Code	Length	Accuracy
343-001-ST1	25mm	±3μm
343-002-ST1	50mm	±3.5μm
343-003-ST1	75mm	±4μm
343-004-ST1	100mm	±4.5μm
343-005-ST1	125mm	±5μm
343-006-ST1	150mm	±5.5μm
343-007-ST1	175mm	±6μm
343-008-ST1	200mm	±6μm

387 MICROMETER MEASURING FORCE DETECTOR

- For outside micrometers 0-25mm, 25-50mm, 50-75mm and 75-100mm



unit: mm



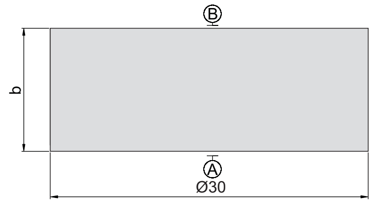
Code	Measuring force
387-000-00	5-12N

SERIES 551 OPTICAL PARALLEL

- Check the flatness and parallelism of measuring faces of micrometer
- Flatness of A and B≤0.1μm
- Parallelism between A and B≤0.6μm

551-001-02

unit: mm



Application

micrometer is optional

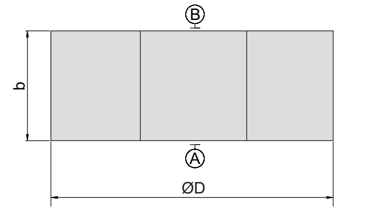
Code	Parallels included
551-001-02	12, 12.12, 12.25, 12.37mm
551-002-02	25, 25.12, 25.25, 25.37mm

SERIES 551 OPTICAL PARALLELS

551-001-01

- Check the flatness and parallelism of measuring faces of micrometer
- Flatness of A and B: 0.03μm
- Parallelism between A and B: 0.6μm

unit: mm



Application

micrometer is optional

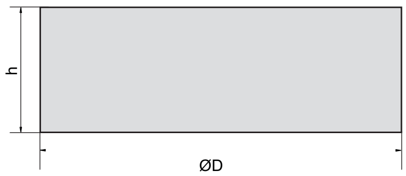
Code	Parallels included (b)	ØD	Applicable micrometer
551-001-01	15.62mm,15.75mm,15.87mm,16.00mm	30mm	0-25mm
551-002-01	40.62mm,40.75mm,40.87mm,41.00mm	30mm	25-50mm
551-003-01	65.62mm,65.75mm,65.87mm,66.00mm	40mm	50-75mm
551-004-01	90.62mm,90.75mm,90.87mm,91.00mm	50mm	75-100mm

SERIES 553 OPTICAL FLATS

- Check the flatness of measuring faces

553-045-01

unit: mm



Code	Flatness	Parallels included(h)	ØD
553-045-01	0.1μm	15mm	45mm
553-060-01	0.1μm	15mm	60mm

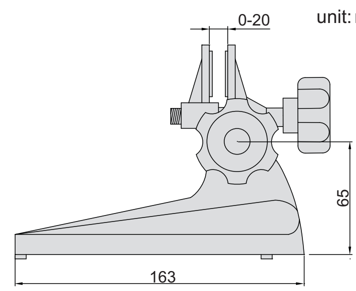
381 MICROMETER STAND

- For micrometers which measuring range is less than 100mm

Application

micrometer is optional

unit: mm



Code
381-000-00

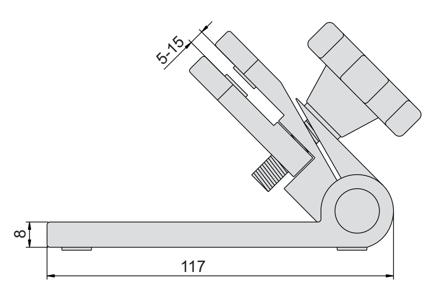
383 MICROMETER STAND

- For micrometers which measuring range is less than 100mm

Application

micrometer is optional

unit: mm



Code
383-000-00

SERIES 361 DIGITAL THREE POINTS INSIDE MICROMETER

Data output

IP65

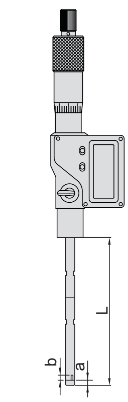
- Resolution: 0.001mm/0.00005"
- IP65 protection level
- Button: on/off, set, mm/inch, ABS/INC, data output
- Automatic power off
- Data output
- Ratchet stop
- Carbide measuring faces (over 12mm series)
- Extension rod are included
- Setting rings are included (Range<100mm)

VIDEO

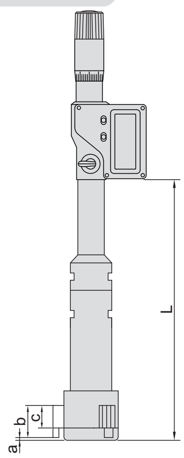
361-002-01

361-007-01

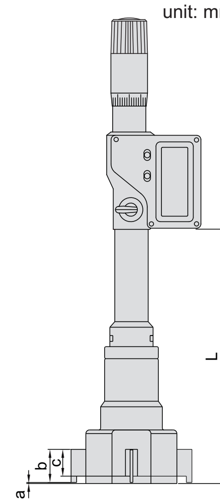
unit: mm



Range 6-20mm



Range 20-50mm



Range 50-300mm

Code	Range	Accuracy	Setting ring	Extension rod	a	b	c	L
361-001-01	6-8mm/0.24-0.31"	4μm	Ø6mm(included)	100mm	1.5	2.5	/	54.5
361-002-01	8-10mm/0.31-0.4"	4μm	Ø8mm(included)	100mm	1.5	2.5	/	63
361-003-01	10-12mm/0.4-0.47"	4μm	Ø10mm(included)	100mm	1.5	2.5	/	63
361-004-01	12-16mm/0.47-0.63"	4μm	Ø16mm(included)	150mm	0.5	6	4.5	80
361-005-01	16-20mm/0.63-0.8"	4μm	Ø16mm(included)	150mm	0.5	6	4.5	80
361-006-01	20-25mm/0.8-1"	4μm	Ø25mm(included)	150mm	0.5	8	6	105
361-007-01	25-30mm/1-1.2"	4μm	Ø25mm(included)	150mm	0.5	8	6	105
361-008-01	30-40mm/1.2-1.6"	4μm	Ø40mm(included)	150mm	0.5	14	12	110
361-009-01	40-50mm/1.6-2"	5μm	Ø40mm(included)	150mm	0.5	14	12	110
361-010-01	50-63mm/2-2.5"	5μm	Ø62mm(included)	150mm	0.5	17.5	14.5	114
361-011-01	62-75mm/2.5-3"	5μm	Ø62mm(included)	150mm	0.5	17.5	14.5	114
361-012-01	75-88mm/3-3.5"	5μm	Ø87mm(included)	150mm	0.5	17.5	14.5	114
361-013-01	87-100mm/3.5-4"	5μm	Ø87mm(included)	150mm	0.5	17.5	14.5	114
361-014-01	100-125mm/3.94-4.92"	6μm	optional	150mm	0.9	29	25	175
361-015-01	125-150mm/4.92-5.91"	6μm	optional	150mm	0.9	29	25	175
361-016-01	150-175mm/5.91-6.89"	7μm	optional	150mm	0.9	29	25	175
361-017-01	175-200mm/6.89-7.87"	7μm	optional	150mm	0.9	29	25	175
361-018-01	200-225mm/7.87-8.86"	8μm	optional	150mm	0.9	29	25	175
361-019-01	225-250mm/8.86-9.84"	8μm	optional	150mm	0.9	29	25	175
361-020-01	250-275mm/9.84-10.83"	9μm	optional	150mm	0.9	29	25	175
361-024-01	275-300mm/10.83-11.81"	9μm	optional	150mm	0.9	29	25	175

setting ring

Range<100mm **(included)**
Range>100mm **(optional)**

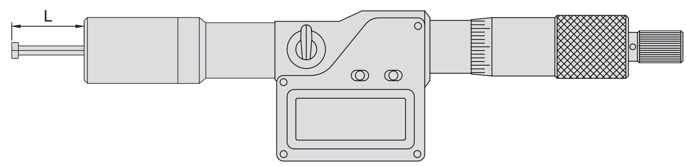
extension rod**(included)**

SERIES 361 DIGITAL TWO POINTS INSIDE MICROMETER

- Resolution: 0.001mm/0.00005"
- IP65 protection level
- Button: on/off, set, mm/inch,ABS/INC, data output
- Automatic power off
- Data output
- Ratchet stop
- Carbide measuring faces
- Setting rings are included

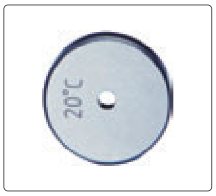
361-000-50

unit: mm



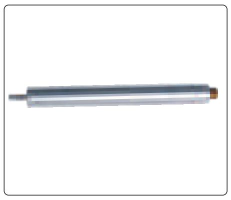
Code	Range	Accuracy	Setting ring	L
361-000-25	2-2.5mm/0.08-0.10"	6μm	Ø2.5mm	12
361-000-30	2.5-3mm/0.10-0.12"	6μm	Ø2.5mm	12
361-000-40	3-4mm/0.12-0.16"	6μm	Ø4mm	22
361-000-50	4-5mm/0.16-0.20"	6μm	Ø5mm	22
361-000-60	5-6mm/0.20-0.24"	6μm	Ø6mm	22

setting ring **(included)**

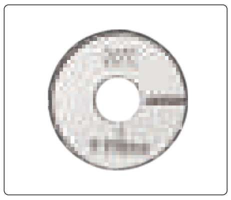


SERIES 361 DIGITAL POINTS INSIDE MICROMETER SET

extension rod **(included)**



setting ring **(included)**



361-103-03

Digital two points inside micrometer set

Code	Range	Micrometers included	Setting ring
361-000-02	2-3mm/0.08-0.12"	2-2.5mm, 2.5-3mm	Ø2.5mm
361-000-03	3-6mm/0.12-0.24"	3-4mm, 4-5mm,5-6mm	Ø4mm,Ø5mm,Ø6mm

Digital three points inside micrometer set

Code	Range	Micrometers included	Setting ring	Extension rod
361-103-03	6-12mm	6-8, 8-10, 10-12mm	Ø6, Ø8, Ø10mm	100mm
361-305-03	12-20mm	12-16, 16-20mm	Ø16mm	150mm
361-509-05	20-50mm	20-25, 25-30, 30-40, 40-50mm	Ø25mm, Ø40mm	150mm
361-913-05	50-100mm	50-63, 62-75, 75-88, 87-100mm	Ø62mm, Ø87mm	150mm

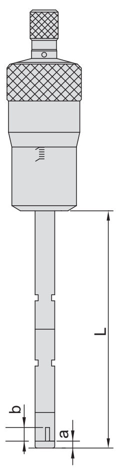
SERIES 362 THREE POINTS INSIDE MICROMETER

- **6-12mm** graduation: 0.001mm
  Steel measuring faces
  12-300mm graduation: 0.005mm
  Carbide measuring faces
- Ratchet stop
- Extension rod are included
- Setting rings are included (Range<100mm)

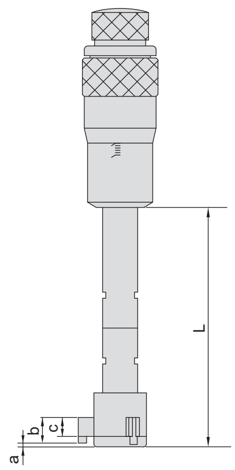
362-009-01

362-014-01

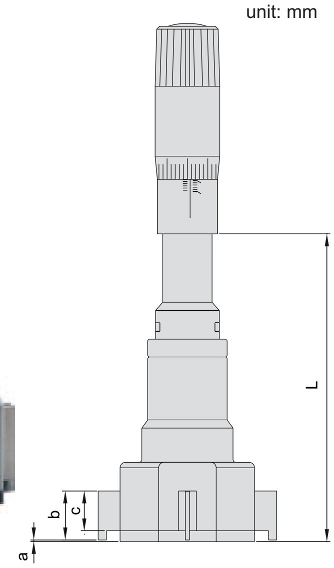
unit: mm



Range 6-12mm



Range 12-50mm



Range 50-300mm

Code	Range	Accuracy	Setting ring	Extension rod	a	b	c	L
362-001-01	6-8mm	4μm	Ø6mm(included)	100mm	1.5	2.5	/	54.5
362-002-01	8-10mm	4μm	Ø8mm(included)	100mm	1.5	2.5	/	54.5
362-003-01	10-12mm	4μm	Ø10mm(included)	100mm	1.5	2.5	/	54.5
362-004-01	12-16mm	4μm	Ø16mm(included)	150mm	0.5	6	4.5	80
362-005-01	16-20mm	4μm	Ø16mm(included)	150mm	0.5	6	4.5	80
362-006-01	20-25mm	4μm	Ø25mm(included)	150mm	0.5	8	6	90
362-007-01	25-30mm	4μm	Ø25mm(included)	150mm	0.5	8	6	90
362-008-01	30-40mm	4μm	Ø40mm(included)	150mm	0.5	14	12	97
362-009-01	40-50mm	5μm	Ø40mm(included)	150mm	0.5	14	12	97
362-010-01	50-63mm	5μm	Ø62mm(included)	150mm	0.5	17.5	14.5	114
362-011-01	62-75mm	5μm	Ø62mm(included)	150mm	0.5	17.5	14.5	114
362-012-01	75-88mm	5μm	Ø87mm(included)	150mm	0.5	17.5	14.5	114
362-013-01	87-100mm	5μm	Ø87mm(included)	150mm	0.5	17.5	14.5	114
362-014-01	100-125mm	6μm	optional	150mm	0.9	29	25	140
362-015-01	125-150mm	6μm	optional	150mm	0.9	29	25	140
362-016-01	150-175mm	7μm	optional	150mm	0.9	29	25	140
362-017-01	175-200mm	7μm	optional	150mm	0.9	29	25	140
362-018-01	200-225mm	8μm	optional	150mm	0.9	29	25	140
362-019-01	225-250mm	8μm	optional	150mm	0.9	29	25	140
362-020-01	250-275mm	9μm	optional	150mm	0.9	29	25	140
362-024-01	275-300mm	9μm	optional	150mm	0.9	29	25	140

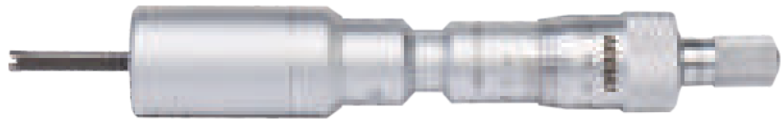
setting ring

Range<100mm **(included)**
Range>100mm **(optional)**

extension rod **(included)**

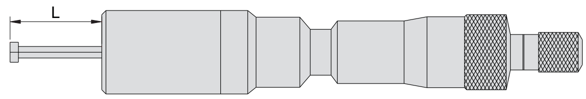
SERIES 362 TWO POINTS INSIDE MICROMETER

- Graduation: 0.001mm
- Carbide measuring faces
- Ratchet stop
- Setting rings are included



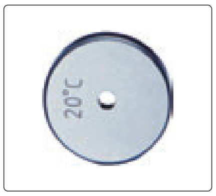
362-000-25

unit: mm



Code	Range	Accuracy	Setting ring	L
362-000-25	2-2.5mm	6μm	Ø2.5mm	12
362-000-30	2.5-3mm	6μm	Ø2.5mm	12
362-000-40	3-4mm	6μm	Ø4mm	22
362-000-50	4-5mm	6μm	Ø5mm	22
362-000-60	5-6mm	6μm	Ø6mm	22

setting ring **(included)**



SERIES 362 POINTS INSIDE MICROMETER SET

362-913-05

Two points inside micrometer set

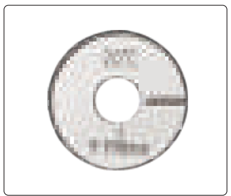
Code	Range	Micrometers included	Setting ring
362-000-02	2-3mm	2-2.5mm, 2.5-3mm	Ø2.5mm
362-000-03	3-6mm	3-4mm, 4-5mm, 5-6mm	Ø4mm, Ø5mm, Ø6mm

Three points inside micrometer set

Code	Range	Micrometers included	Setting ring	Extension rod
362-103-03	6-12mm	6-8, 8-10, 10-12mm	Ø6, Ø8, Ø10mm	100mm
362-305-03	12-20mm	12-16, 16-20mm	Ø16mm	150mm
362-509-05	20-50mm	20-25, 25-30, 30-40, 40-50mm	Ø25mm, Ø40mm	150mm
362-913-05	50-100mm	50-63, 62-75, 75-88, 87-100mm	Ø62mm, Ø87mm	150mm

extension rod **(included)**

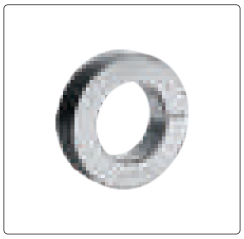
setting ring **(included)**

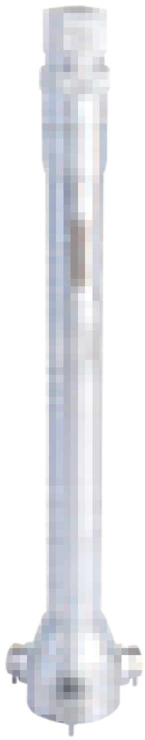


SERIES 363 WIDE RANGE THREE POINTS INTERNAL MICROMETER

- Graduation 0.001mm
- Ratchet stop
- Carbide measuring faces
- Setting rings are included(except 200-300mm)

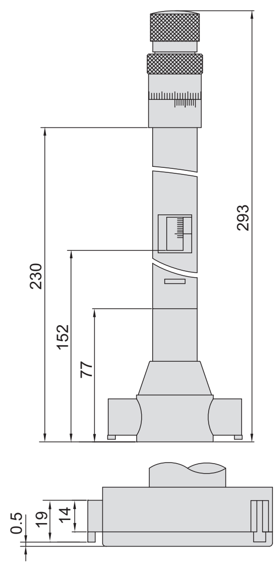
setting ring





363-003-01

unit: mm



Code	Range	Accuracy	Setting ring
363-003-01	50-70mm	5μm	Ø50mm(included)
363-004-01	70-100mm	5μm	Ø70mm(included)
363-006-01	100-150mm	6μm	Ø100mm(included)
363-010-01	150-250mm	8μm	Ø150mm(included)
363-012-01	200-300mm	9μm	Ø200mm(optional)

SERIES 364 DIGITAL WIDE RANGE THREE POINTS INTERNAL MICROMETER

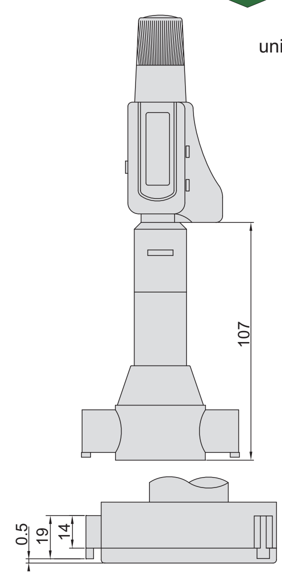
Data output

IP54

- Resolution: 0.001mm/0.00005"
- IP54 protection level
- Buttons: on/off, set, mm/inch, ABS/INC
- Data output
- Automatic power off
- Carbide measuring faces
- Ratchet stop
- Supplied with extension rods
- Setting rings are included(except 200-300mm)

364-003-01

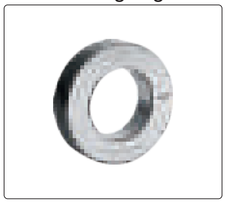
unit: mm



Code	Range	Accuracy	Setting ring	Extension rod
364-003-01	50-70mm/1.97-2.76"	5μm	Ø50mm(included)	150mm
364-004-01	70-100mm/2.76-3.94"	5μm	Ø70mm(included)	150mm
364-006-01	100-150mm/3.94-5.91"	6μm	Ø100mm(included)	150mm
364-010-01	150-250mm/5.91-9.84"	8μm	Ø150mm(included)	150mm
364-012-01	200-300mm/7.87-11.81"	9μm	Ø200mm(optional)	150mm

extension rod **(included)**

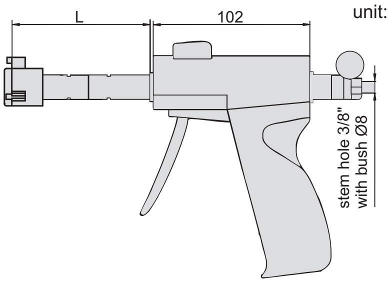
setting ring



SERIES 365 PISTOL GRIP THREE POINTS BORE GAUGE

Data output CR2032

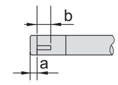
unit: mm



216-010-01

digital indicator is optional

365-007-01



Range 6-12mm
steel measuring faces

Indicators **(optional)**

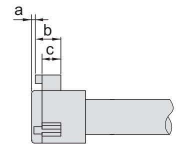
Series 211

Series 216

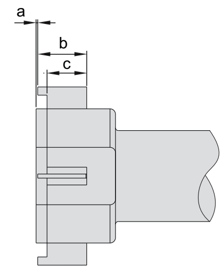
setting ring

6-100mm **(included)**
100-300mm **(optional)**

extension rod **(included)**



Range 12-50mm
carbide measuring faces



Range 50-300mm
carbide measuring faces

INDIVIDUAL

Code	Range	Accuracy	Setting ring	Extension rod	a	b	c	L
365-001-01	6-8mm/0.275-0.35"	4μm	Ø6mm (included)	100mm	1.5	2.5	/	50
365-002-01	8-10mm/0.35-0.425"	4μm	Ø8mm (included)	100mm	1.5	2.5	/	50
365-003-01	10-12mm/0.425-0.5"	4μm	Ø10mm (included)	100mm	1.5	2.5	/	50
365-004-01	12-16mm/0.5-0.65"	4μm	Ø16mm (included)	150mm	0.5	6	4.5	65
365-005-01	16-20mm/0.65-0.8"	4μm	Ø16mm (included)	150mm	0.5	6	4.5	65
365-006-01	20-25mm/0.8-1"	4μm	Ø25mm (included)	150mm	0.5	8	6	91
365-007-01	25-30mm/1-1.2"	4μm	Ø25mm (included)	150mm	0.5	8	6	91
365-008-01	30-40mm/1.2-1.6"	4μm	Ø40mm (included)	150mm	0.5	14	12	97
365-009-01	40-50mm/1.6-2"	5μm	Ø40mm (included)	150mm	0.5	14	12	97
365-010-01	50-63mm/2-2.5"	5μm	Ø62mm (included)	150mm	0.5	17.5	14.5	112
365-011-01	62-75mm/2.5-3"	5μm	Ø62mm (included)	150mm	0.5	17.5	14.5	112
365-012-01	75-88mm/3-3.5"	5μm	Ø87mm (included)	150mm	0.5	17.5	14.5	112
365-013-01	87-100mm/3.5-4"	5μm	Ø87mm (included)	150mm	0.5	17.5	14.5	112
365-014-01	100-125mm/4-5"	6μm	**optional**	150mm	0.9	29	25	140
365-015-01	125-150mm/5-6"	6μm	**optional**	150mm	0.9	29	25	140
365-016-01	150-175mm/6-7"	7μm	**optional**	150mm	0.9	29	25	140
365-017-01	175-200mm/7-8"	7μm	**optional**	150mm	0.9	29	25	140
365-018-01	200-225mm/8-9"	8μm	**optional**	150mm	0.9	29	25	140
365-019-01	225-250mm/9-10"	8μm	**optional**	150mm	0.9	29	25	140
365-020-01	250-275mm/10-11"	9μm	**optional**	150mm	0.9	29	25	140
365-024-01	275-300mm/11-12"	9μm	**optional**	150mm	0.9	29	25	140

SET

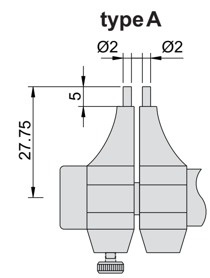
Code	Range	Micrometers included	Setting ring (included)	Extension rod (included)
365-103-03	6-12mm	6-8, 8-10, 10-12mm	Ø6, Ø8, Ø10mm	100mm
365-305-03	12-20mm	12-16, 16-20mm	Ø16mm	150mm
365-509-05	20-50mm	20-25, 25-30, 30-40, 40-50mm	Ø25mm, Ø40mm	150mm
365-913-05	50-100mm	50-63, 62-75, 75-88, 87-100mm	Ø62mm, Ø87mm	150mm

SERIES 351 INSIDE MICROMETER

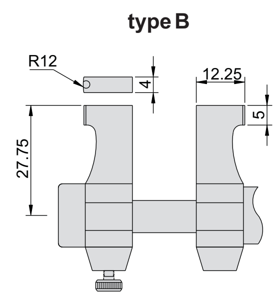
- Graduation: 0.01mm
- Carbide measuring faces
- Ratchet stop

unit: mm

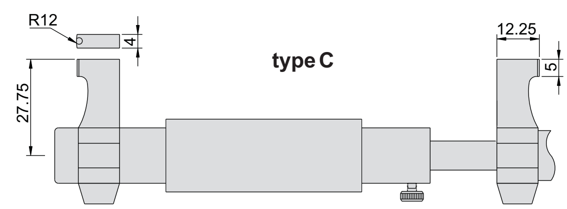
351-001-01



351-002-01

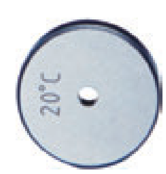


351-003-01



Code	Range	Accuracy	Type	Setting ring
351-001-01	5-30mm	5μm	A	5mm
351-002-01	25-50mm	6μm	B	25mm
351-003-01	50-75mm	7μm	C	optional
351-004-01	75-100mm	8μm	C	optional
351-005-01	100-125mm	9μm	C	optional
351-006-01	125-150mm	9μm	C	optional
351-007-01	150-175mm	10μm	C	optional
351-008-01	175-200mm	10μm	C	optional
351-009-01	200-225mm	11μm	C	optional
351-010-01	225-250mm	11μm	C	optional
351-011-01	250-275mm	12μm	C	optional
351-012-01	275-300mm	14μm	C	optional

setting ring



Range<50mm **(included)**

Range>50mm **(optional)**

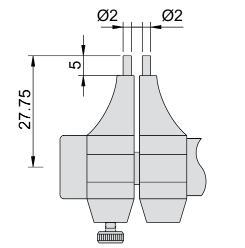
SERIES 356 DIGITAL INSIDE MICROMETER

ATTENTION: LOW PARALLELISM OF TWO MEASURING FACES

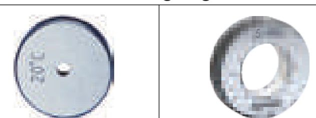
Data output

- Resolution 0.001mm/0.00005"
- Button function: on/off, set, mm/inch, ABS/INC, data output
- Data output
- Automatic power off
- Ratchet stop
- Carbide measuring faces

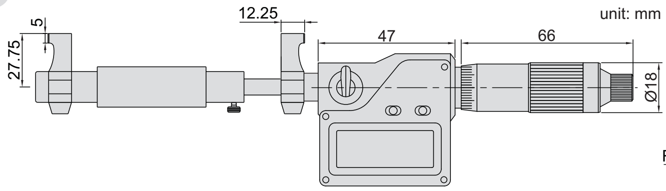
356-003-01

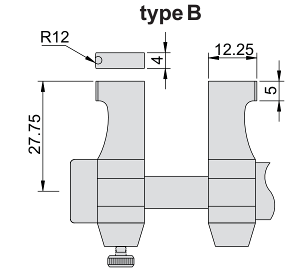


Setting ring

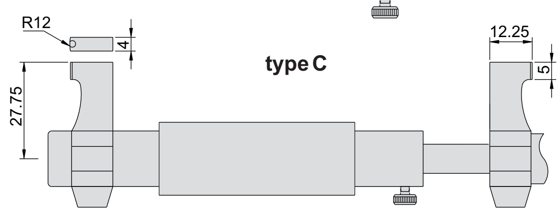


Range<50mm **(included)** | Range>50mm **(optional)**





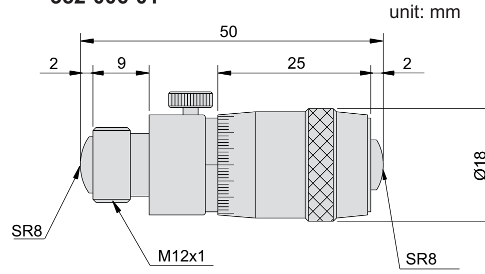
Code	Range	Accuracy	Type	Setting ring
356-001-01	5-30mm/0.2-1.2"	±5μm	A	5mm
356-002-01	25-50mm/1-2"	±6μm	B	25mm
356-003-01	50-75mm/2-3"	±7μm	C	optional
356-004-01	75-100mm/3-4"	±8μm	C	optional
356-005-01	100-125mm/4-5"	±9μm	C	optional
356-006-01	125-150mm/5-6"	±9μm	C	optional
356-007-01	150-175mm/6-7"	±10μm	C	optional
356-008-01	175-200mm/7-8"	±10μm	C	optional



SERIES 352 TUBULAR INSIDE MICROMETER

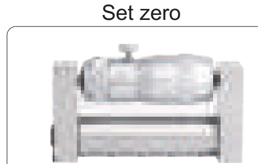
352-006-01

- Graduation: 0.01mm
- Travel of micrometer head: 13mm
- Accuracy: (3+n+L/50)μm, n is number of rods, L is max. measuring length in mm
- Supplied with setting standards
- Carbide measuring faces



Code	Range	Extension rods (mm)
352-002-01	50-63mm	—
352-006-01	50-150mm	13, 25, 50
352-012-01	50-300mm	13, 25, 50(2pcs), 100
352-020-01	50-500mm	13, 25, 50(2pcs), 100, 200
352-024-01	50-600mm	13, 25, 50, 100, 150, 200
352-040-01	50-1000mm	13, 25, 50(2pcs), 100, 200(2pcs), 300
352-060-01	50-1500mm	13, 25, 50(2pcs), 100, 200(3pcs), 300(2pcs)

Set zero

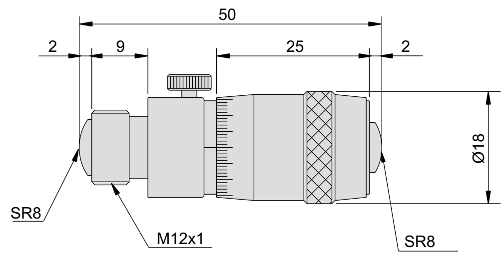


INSIDE/OUTSIDE MEASUREMENT

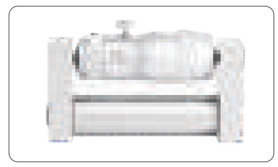
352 TUBULAR INSIDE MICROMETER

- Graduation: .001"
- Accuracy: [.00005(3+n+L/2)]", n = number of rods, L = maximum measuring length (inch)
- Supplied with setting standards
- Carbide measuring faces

unit: mm



Set zero



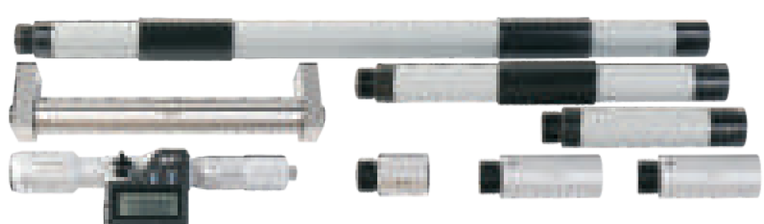
Code	Range	Travel of micrometer head	Extension rods
352-024-E01	2-24"	.5"	.5", 1", 2", 4", 6", 8"

SERIES 359 DIGITAL TUBULAR INSIDE MICROMETERS

Data output

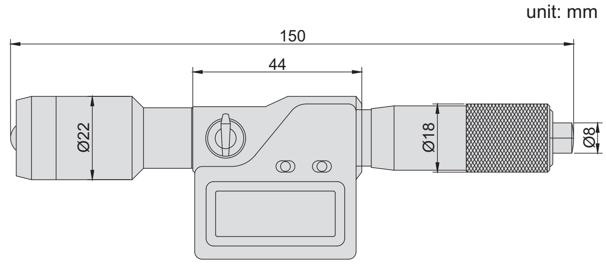
IP65

- Micrometer head: 150-175mm
- Graduation:0.001mm/0.00005"
- Accuracy:(3+n+L/50)μm
  n= number of rods
  L=maximum measuring length (mm)
- Carbide measuring faces
- The diameter of extension rods is 22mm
- IP65 dust/waterproof
- Button function: on/off, set, mm/inch, ABS/INC
- Data output
- Automatic power off
- Supplied with setting standards



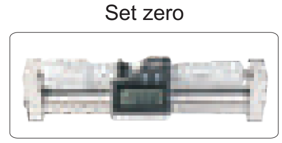
359-007-01

unit: mm



Code	Range	Travel of micrometer head	Extension rods
359-007-01	150-175mm	25mm	—
359-040-01	150-1000mm	25mm	25, 50(2pcs), 100, 200, 400
359-060-01	150-1500mm	25mm	25, 50(2pcs), 100(2pcs), 200, 400(2pcs)
359-080-01	150-2000mm	25mm	25, 50(2pcs), 100, 200(2pcs), 400(3pcs)

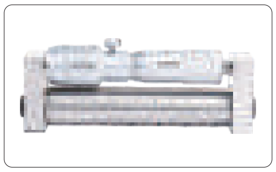
Set zero



SERIES 353 TUBULAR INSIDE MICROMETER

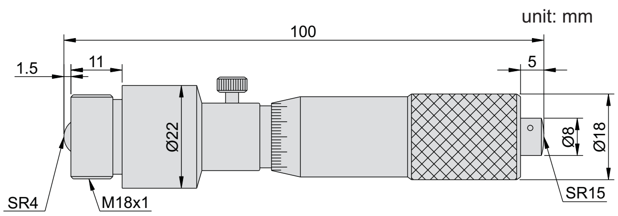
- Graduation 0.01mm
- Accuracy: (3+n+L/50)μm
  n is number of rods, L is maximum measuring length in mm
- Travel of micrometer head: 25mm
- Supplied with setting standards
- Carbide measuring faces

Set zero

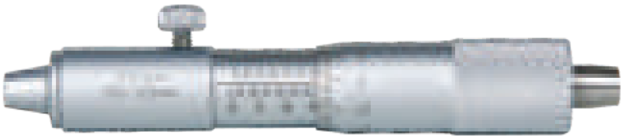


353-020-01

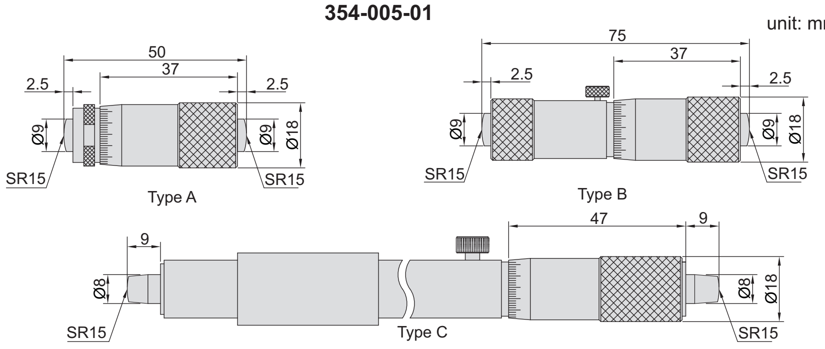
Code	Range	Extension rods (mm)
353-005-01	100-125mm	—
353-020-01	100-500mm	25, 50, 100, 200
353-036-01	100-900mm	25, 50, 100, 200, 400
353-052-01	100-1300mm	25, 50, 100, 200, 400(2pcs)
353-068-01	100-1700mm	25, 50, 100, 200, 400(3pcs)
353-084-01	100-2100mm	25, 50 100, 200, 400(4pcs)



SERIES 354 TUBULAR INSIDE MICROMETER



354-005-01



- Graduation 0.01mm
- Carbide measuring faces

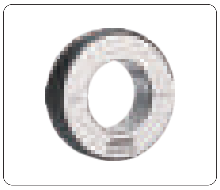
Code	Range	Type	Accuracy
354-003-01	50-75mm	A	5μm
354-004-01	75-100mm	B	5μm
354-005-01	100-125mm	C	6μm
354-006-01	125-150mm	C	6μm
354-007-01	150-175mm	C	7μm
354-008-01	175-200mm	C	7μm
354-009-01	200-225mm	C	8μm
354-010-01	225-250mm	C	8μm
354-011-01	250-275mm	C	9μm

Code	Range	Type	Accuracy
354-012-01	275-300mm	C	9μm
354-013-01	300-325mm	C	9μm
354-014-01	325-350mm	C	9μm
354-015-01	350-375mm	C	10μm
354-016-01	375-400mm	C	10μm
354-017-01	400-425mm	C	10μm
354-018-01	425-450mm	C	10μm
354-019-01	450-475mm	C	11μm
354-020-01	475-500mm	C	11μm

SERIES 355 TUBULAR INSIDE MICROMETER

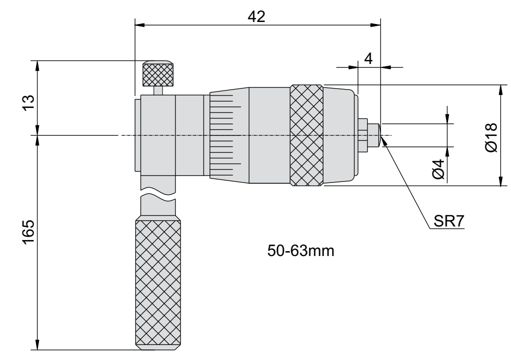
- Graduation 0.01mm
- Accuracy: (6+L/50)µm
  L=maximum measuring length(mm)
- Optional accessory: setting ring(code **531**)

setting ring**(optional)**



355-008-01

unit: mm



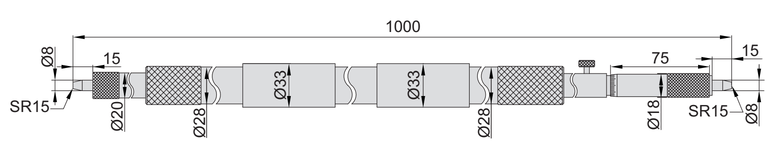
Code	Range	Extension rods	Travel of micrometer head
355-001-01	25-32mm	—	7mm
355-002-01	25-50mm	2pcs	7mm
355-003-01	50-63mm	—	13mm
355-008-01	50-200mm	6pcs	13mm
355-009-01	200-225mm	—	25mm
355-012-01	50-300mm	10pcs	13mm
355-020-01	200-500mm	3pcs	25mm
355-040-01	200-1000mm	8pcs	25mm

SERIES 357 TUBULAR INSIDE MICROMETER

- Graduation 0.01mm
- Accuracy: (7+n+L/50)µm
  n=number of rods
  L=maximum measuring length(mm)
- Carbide measuring faces

357-080-01

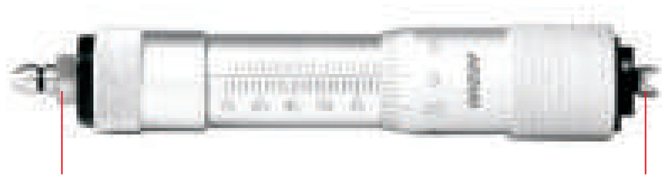
unit: mm



Code	Range	Travel of micrometer head	Extension rods
357-080-01	1000-2000mm	50mm	50mm, 100mm(2pcs), 200mm, 500mm
357-120-01	1000-3000mm	50mm	50mm, 100mm(2pcs), 200mm, 500mm, 1000mm
357-160-01	1000-4000mm	50mm	50mm, 100mm(2pcs), 200mm, 500mm, 1000mm(2pcs)
357-200-01	1000-5000mm	50mm	50mm, 100mm(2pcs), 200mm, 500mm, 1000mm(3pcs)

SERIES 358 INTERNAL SCREW THREAD MICROMETERS

- Graduation: 0.01mm

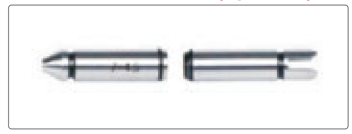


measuring tips for screw thread **(optional)**

measuring tips for screw thread **(optional)**

358-004-01

Measuring tips for internal screw thread micrometer **(optional)**



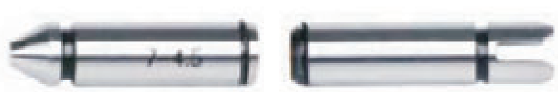
Code	Range
358-004-01	75-100mm
358-005-01	100-125mm
358-006-01	125-150mm

Code	Range
358-007-01	150-175mm
358-008-01	175-200mm
358-009-01	200-225mm

Code	Range
358-010-01	225-250mm
358-011-01	250-275mm
358-012-01	275-300mm

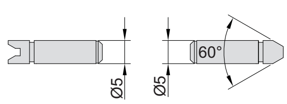
SERIES 358 MEASURING TIPS FOR INTERNAL SCREW THREAD MICROMETER

- Supplied in pair
- For **358** series micrometers

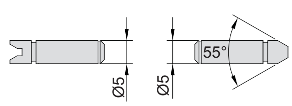


358-000-19

unit: mm



60° thread angle



55° thread angle

Metric and unified thread (60° thread angle)

Code	Pitch
358-000-01	0.4-0.5mm/ 64-48TPI
358-000-02	0.6-0.9mm/ 44-28TPI
358-000-03	1-1.75mm/ 24-14TPI
358-000-04	2-3mm/ 13-9TPI
358-000-05	3.5-5mm/ 8-5TPI
358-000-06	5.5-7mm/ 4.5-3.5TPI
358-000-TS	6 pairs/set, including all above tips

Whitworth thread (55° thread angle)

Code	Pitch
358-000-11	60-48TPI
358-000-12	48-40TPI
358-000-13	40-32TPI
358-000-14	32-24TPI
358-000-15	24-18TPI
358-000-16	18-14TPI
358-000-17	14-10TPI

Code	Pitch
358-000-18	10-7TPI
358-000-19	7-4.5TPI
358-000-20	4.5-3.5TPI
358-000-2TS	10 pairs/set, including all above tips

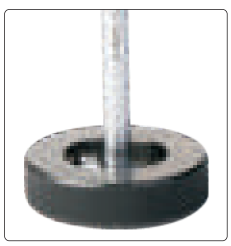
SERIES 251 DIAL BORE GAUGE SET

- Optional accessory: series 531 setting rings

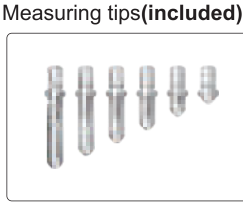
251-046-11

Bore gauge setter for setting zero**(optional)**

Setting ring**(optional)**



Measuring tips**(included)**



gasket**(included)**

series 215**(optional)**

251-346-13

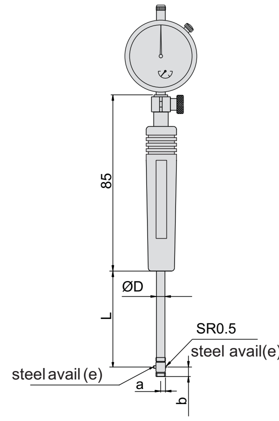
Code	Range	indicator	Accuracy	Repeatability	Bore gages included
251-046-11	35-160mm	range 10mm graduation 0.01mm	35-50mm ±0.018mm 50-160mm ±0.018mm	0.003mm	35-50mm anvil (dial indicator and handle are not included) 50-160mm bore gage
251-346-13	18-160mm	range 10mm graduation 0.01mm	18-35mm ±0.015mm 35-60mm ±0.018mm 50-160mm ±0.018mm	0.003mm	18-35mm bore gage 35-60mm (dial indicator is not included) 50-160mm (dial indicator is not included)

SERIES 251 DIAL BORE GAUGE

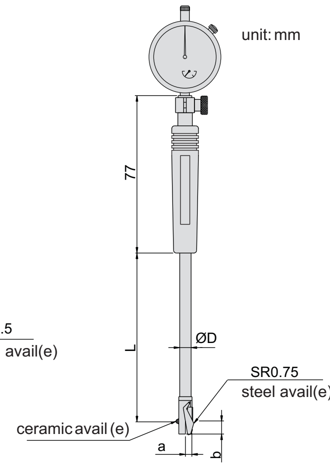
- Optional accessory: series 531 setting rings

251-160-11

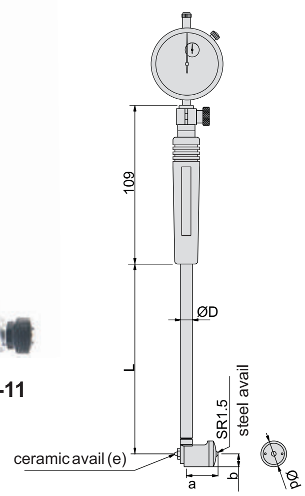
unit: mm



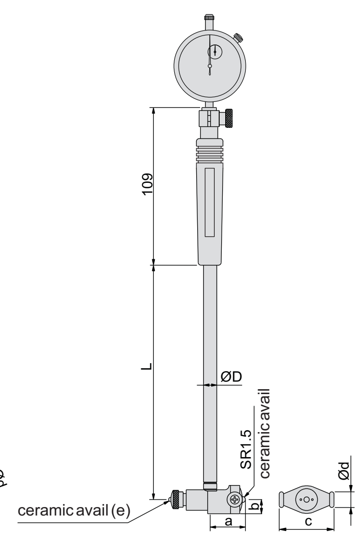
Range: 6-10mm



Range: 10-18mm



Range: 18-35mm

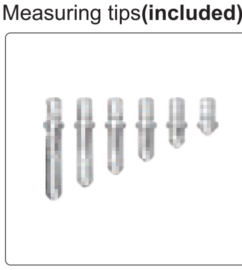


Range: 35-450mm

Bore gauge setter for setting zero**(optional)**

Setting ring**(optional)**

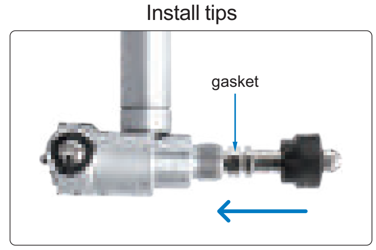
Measuring tips**(included)**



gasket**(included)**

series 215**(optional)**

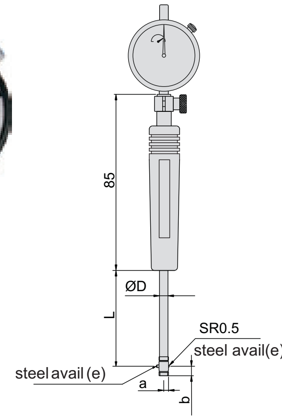
Install tips



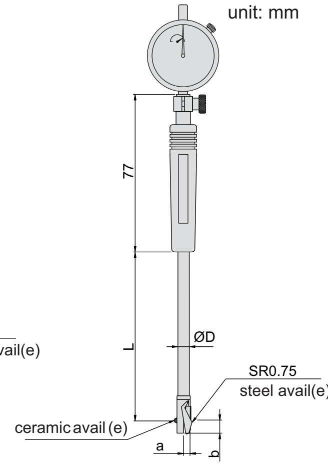
Code	Range	Dial indicator	Tips	Gasket	Accuracy	Repeatability	a	b	c	Ød	ØD	e	L
251-010-11	6-10mm	Range: 3mm graduation: 0.01mm	9pcs	2pcs	±0.012mm	3μm	3.6	5.7	/	/	4.5	SR1	48
251-018-11	10-18mm		9pcs	2pcs	±0.012mm	3μm	5.6	7.8	/	/	6	SR1	105
251-035-11	18-35mm	Range: 10mm graduation: 0.01mm	9pcs	2pcs	±0.015mm	3μm	12.2	6.4	/	12.7	9	SR1	141
251-060-11	35-60mm		6pcs	4pcs	±0.018mm	3μm	26	9	27	13	12.8	SR2	141
251-100-11	50-100mm		11pcs	4pcs	±0.018mm	3μm	26	9	35	13	12.8	SR2	141
251-160-11	50-160mm		12pcs	4pcs	±0.018mm	3μm	26	9	35	13	12.8	SR2	141
251-160-12	100-160mm		12pcs	4pcs	±0.018mm	3μm	26	9	35	13	12.8	SR2	141
251-250-11	160-250mm		5pcs	5pcs	±0.018mm	3μm	56.5	13	74.5	15	14.5	SR3.5	400
251-450-11	250-450mm		5pcs	5pcs	±0.018mm	3μm	86.5	15	101.5	15	14.5	SR3.5	400

- Optional accessory: series 531 setting rings and long handle series 250.

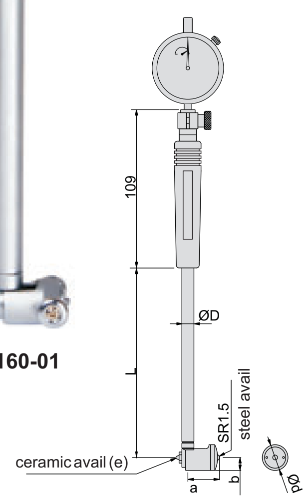
251-160-01



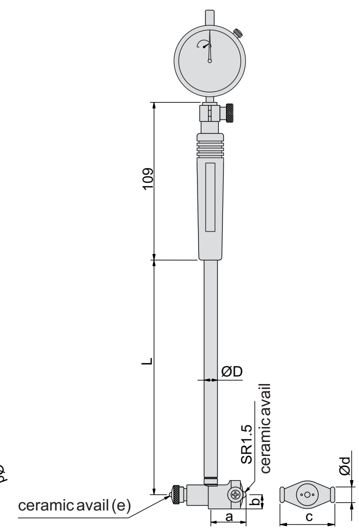
Range: 6-10mm



Range: 10-18mm



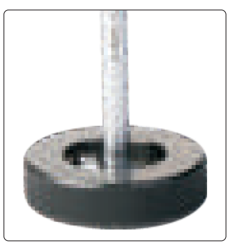
Range: 18-35mm



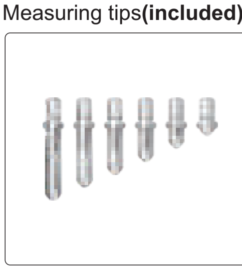
Range: 35-450mm

Bore gauge setter for setting zero**(optional)**

Setting ring**(optional)**



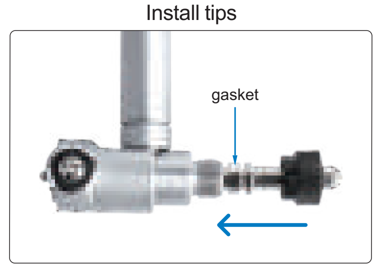
Measuring tips**(included)**



gasket**(included)**

series 215**(optional)**

Install tips

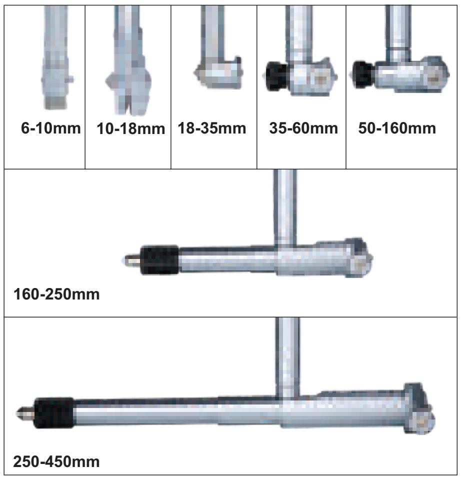


Code	Range	Dial indicator	Tips	Gasket	Accuracy	Repeatability	a	b	c	Ød	ØD	e	L
251-010-01	6-10mm	Range: 1mm graduation: 0.001mm	9pcs	2pcs	±0.005mm	2μm	3.6	5.7	/	/	4.5	SR1	48
251-018-01	10-18mm		9pcs	2pcs	±0.005mm	2μm	5.6	7.8	/	/	6	SR1	105
251-035-01	18-35mm		9pcs	2pcs	±0.006mm	2μm	12.2	6.4	/	12.7	9	SR1	141
251-060-01	35-60mm		6pcs	4pcs	±0.007mm	2μm	26	9	27	13	12.8	SR2	141
251-160-01	50-160mm		12pcs	4pcs	±0.007mm	2μm	26	9	35	13	12.8	SR2	141
251-250-01	160-250mm		5pcs	5pcs	±0.007mm	2μm	56.5	13	74.5	15	14.5	SR3.5	400
251-450-01	250-450mm		5pcs	5pcs	±0.007mm	2μm	86.5	15	101.5	15	14.5	SR3.5	400

SERIES 241 DIGITAL PRECISION BORE GAUGE

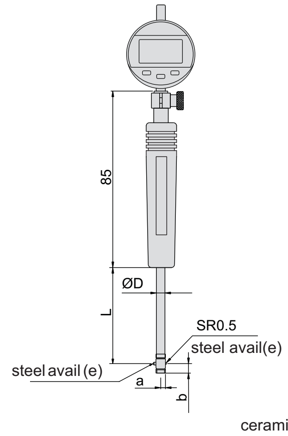
Data output CR2032

- With min. value tracking function, get the diameter automatically
- Optional accessory: series 531 setting rings

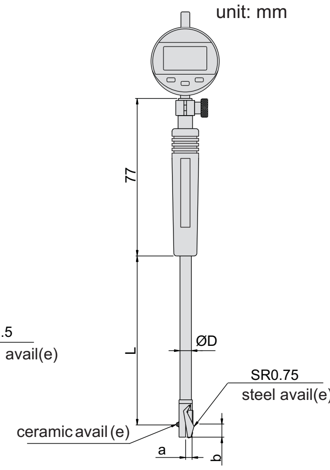


241-035-01

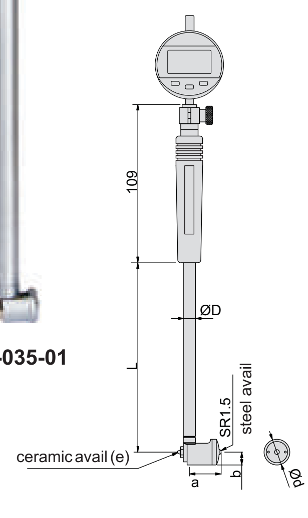
unit: mm



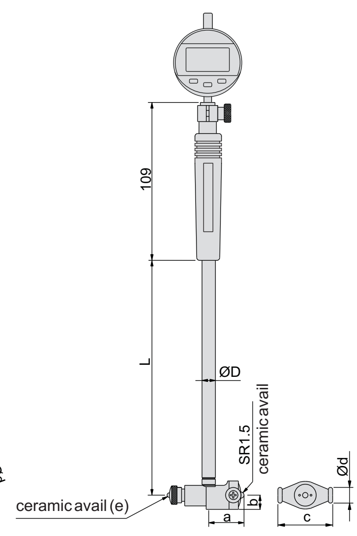
Range: 6-10mm



Range: 10-18mm



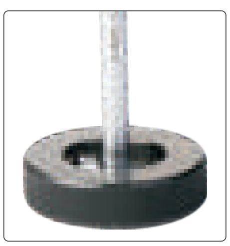
Range: 18-35mm



Range: 35-450mm

Bore gauge setter for setting zero**(optional)**

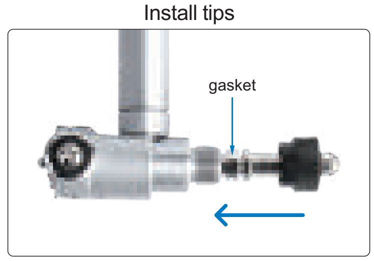
Setting ring**(optional)**



Measuring tips**(included)**

Gasket**(included)**

Install tips

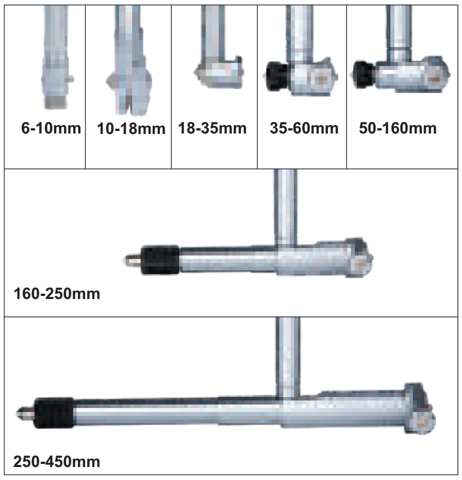


Code	Range	Digital indicator	Tips	Gasket	Accuracy	Repeatability	a	b	c	Ød	ØD	e	L
241-010-01	6-10mm	Range: 12.7mm resolution: 0.001mm	9pcs	2pcs	±0.005mm	2μm	3.6	5.7	/	/	4.5	SR1	48
241-018-01	10-18mm		9pcs	2pcs	±0.005mm	2μm	5.6	7.8	/	/	6	SR1	105
241-035-01	18-35mm		9pcs	2pcs	±0.006mm	2μm	12.2	6.4	/	12.7	9	SR1	141
241-060-01	35-60mm		6pcs	4pcs	±0.007mm	2μm	26	9	27	13	12.8	SR2	141
241-160-01	50-160mm		12pcs	4pcs	±0.007mm	2μm	26	9	35	13	12.8	SR2	141
241-160-02	100-160mm		12pcs	4pcs	±0.007mm	2μm	26	9	35	13	12.8	SR2	141
241-250-01	160-250mm		5pcs	5pcs	±0.007mm	2μm	56.5	13	74.5	15	14.5	SR3.5	400
241-450-01	250-450mm		5pcs	5pcs	±0.007mm	2μm	86.5	15	101.5	15	14.5	SR3.5	400

SERIES 241 DIGITAL BORE GAUGE

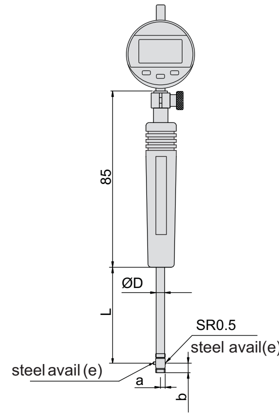
Data output
CR2032

- With min. value tracking function, get the diameter automatically
- Optional accessory: series 531 setting rings

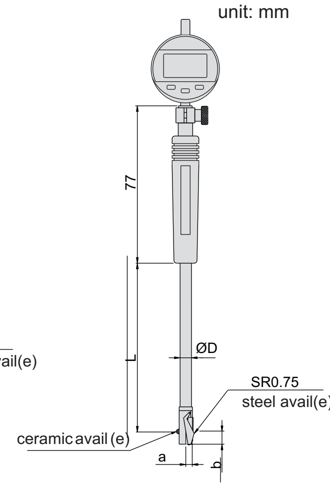


241-160-11

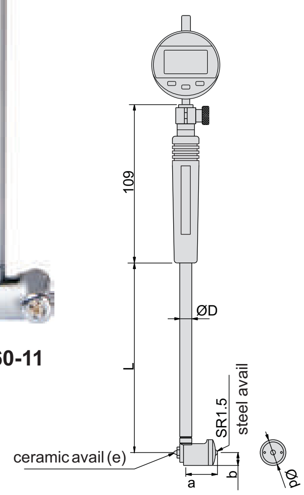
unit: mm



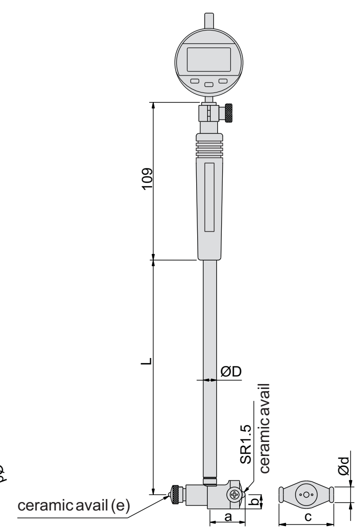
Range: 6-10mm



Range: 10-18mm



Range: 18-35mm

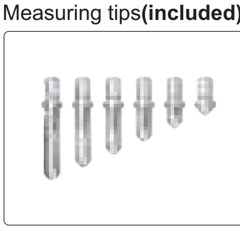


Range: 35-450mm

Bore gauge setter for setting zero**(optional)**

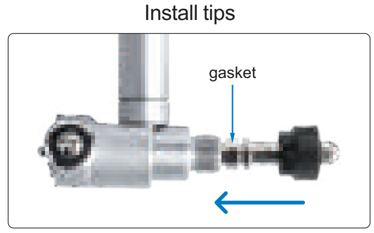
Setting ring**(optional)**

Measuring tips**(included)**



gasket**(included)**

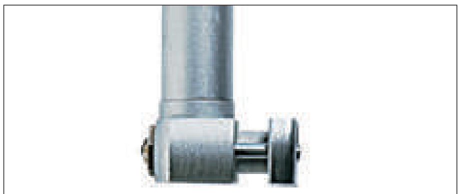
Install tips



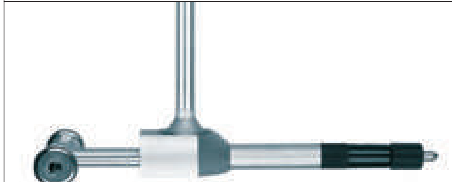
Code	Range	Digital indicator	Tips	Gasket	Accuracy	Repeatability	a	b	c	Ød	ØD	e	L
241-010-11	6-10mm	Range: 12.7mm resolution: 0.002mm	9pcs	2pcs	±0.012mm	3μm	3.6	5.7	/	/	4.5	SR1	48
241-018-11	10-18mm		9pcs	2pcs	±0.012mm	3μm	5.6	7.8	/	/	6	SR1	105
241-035-11	18-35mm		9pcs	2pcs	±0.015mm	3μm	12.2	6.4	/	12.7	9	SR1	141
241-060-11	35-60mm		6pcs	4pcs	±0.018mm	3μm	12.2	9	27	13	12.8	SR2	141
241-100-11	50-100mm		11pcs	4pcs	±0.018mm	3μm	26	9	35	13	12.8	SR2	141
241-160-11	50-160mm		12pcs	4pcs	±0.018mm	3μm	26	9	35	13	12.8	SR2	141
241-160-12	100-160mm		12pcs	4pcs	±0.018mm	3μm	26	9	35	13	12.8	SR2	141
241-250-11	160-250mm		5pcs	5pcs	±0.018mm	3μm	56.5	13	74.5	15	14.5	SR3.5	400
241-450-11	250-450mm		5pcs	5pcs	±0.018mm	3μm	86.5	15	101.5	15	14.5	SR3.5	400

SERIES 245 LARGE DIAMETER DIAL BORE GAUGE

- Carbide tipped contact point, wheel guide
- Optional accessory: series 531 setting rings



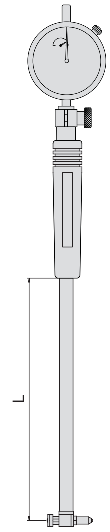
245-050-11



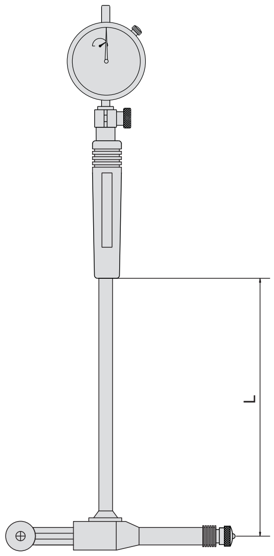
except 245-050-11

245-050-11

unit: mm



Range: 18-50mm

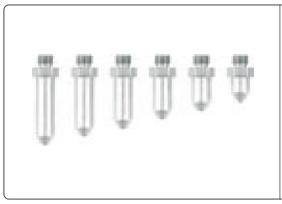


Range: 30-1000mm

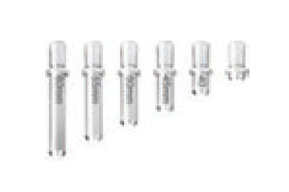
Bore gauge setter for setting zero(optional)

Setting ring(optional)

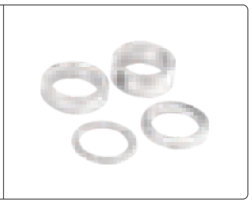
Measuring tips(included)



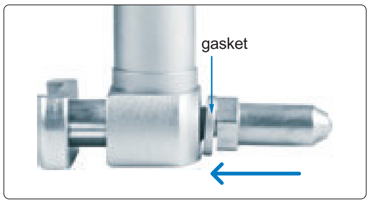
Measuring tips(included)



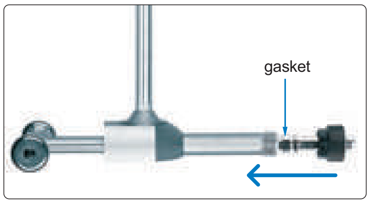
gasket(included)



Install tips(245-050-11)



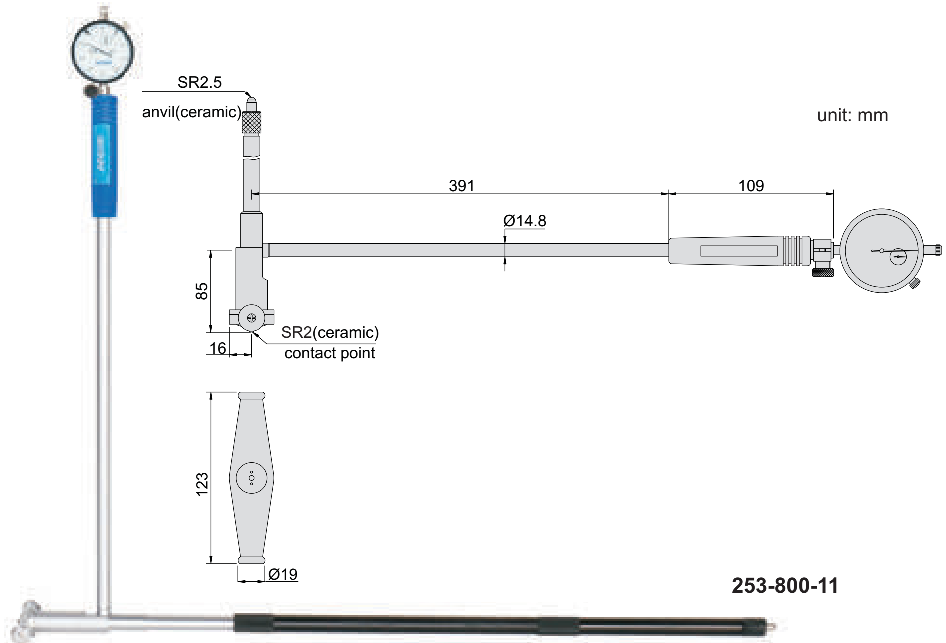
Install tips(except 245-050-11)



Code	Range	Dial indicator	Tips	Gasket	Probe Travel	Extensionrod	L
245-050-11	18-50mm	Range: 10mm graduation: 0.01mm	8pcs	2pcs	1.5mm	1	150
245-100-11	30-100mm		5pcs	3pcs	1.8mm	2	150
245-100-12	50-100mm		10pcs	2pcs	4mm	-	200
245-160-11	100-160mm		7pcs	4pcs	4mm	-	300
245-250-11	160-250mm		6pcs	4pcs	3mm	2	250
245-300-11	100-300mm		5pcs	4pcs	4mm	2	400
245-450-11	250-450mm		5pcs	4pcs	6mm	2	500
245-700-11	450-700mm		5pcs	4pcs	8mm	4	500
245-1000-11	700-1000mm		5pcs	4pcs	8mm	5	500

243/253 BORE GAUGE

Digital indicator for
243-800-11



unit: mm

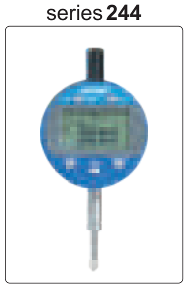
253-800-11

Code	Range	Accuracy	Repeatability	Indicator
253-800-11	400-800mm	±0.025mm	0.003mm	dial indicator (Code: 222-010-12) range 10mm, graduation 0.01mm
243-800-11	400-800mm	±0.025mm	0.003mm	digital indicator (Code: 215-010-12) range 12.7mm, resolution 0.002mm/0.0001"

SERIES 244/254 BORE GAUGE

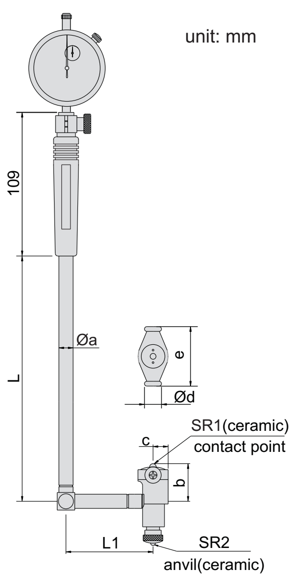
- Accuracy: 0.018mm
- Repeatability: 0.003mm

Digital indicator for
series **244**



254-060-11

unit: mm



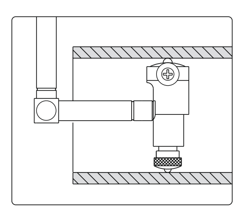
Dial type

Code	Range	Indicator
254-060-11	35-60mm	dial indicator: (Code: 222-010-12) range 10mm, graduation 0.01mm
254-160-11	50-160mm	
254-250-11	160-250mm	
254-450-11	250-450mm	

Digital type

Code	Range	Indicator
244-060-11	35-60mm	digital indicator (Code: 215-010-12) range: 12.7mm/0.5", graduation: 0.002mm/0.0001"
244-160-11	50-160mm	
244-250-11	160-250mm	
244-450-11	250-450mm	

Range	Øa	b	c	Ød	e	L	L1
35-60mm	12.8	22	9	13	27	141	75
50-160mm	12.8	28.5	9.2	13	35	141	76.2
160-250mm	14.5	62.0	12.7	15	74.5	391	100
250-450mm	14.5	91.5	15.0	15	101.5	391	100



INSIDE/OUTSIDE MEASUREMENT

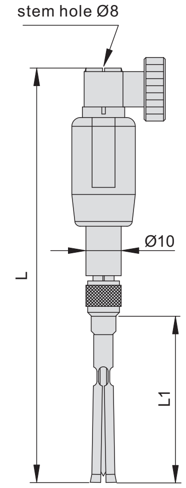
SERIES 240 SPLIT TYPE DIAL BORE GAGE SETS FOR BLIND HOLES

- Split type contact points
- Accuracy (without indicator): 3μm (measuring range 1 .5~10mm),
  4μm (measuring range 10~20.6mm)
- Repeatability (without indicator): 1μm
- Dial indicators are optional

240-120-11M

Code	Range	Quantity of points	Measuring range of point	Measuring depth (L1)	Total length(L)	Material of points	Setting ring (optional)
240-040-11M	1.5-4.2	10	1.5-1.9	17	93	carbide	Ø1.75
			1.8-2.2	17	93	carbide	Ø2
			2.05-2.45	17	93	carbide	Ø2.25
			2.3-2.7	25	101	carbide	Ø2.5
			2.55-2.95	25	101	carbide	Ø2.75
			2.8-3.2	25	101	carbide	Ø3
			3.05-3.45	25	101	carbide	Ø3.25
			3.3-3.7	25	101	carbide	Ø3.5
			3.55-3.9	25	101	carbide	Ø3.75
			5 3.8-4.2	25	101	carbide	Ø4
240-075-11M	4.15-7.8	7	4.15-4.8	41	118	hard chromed	Ø4.5
			4.7-5.3	41	118	hard chromed	Ø5
			5.2-5.8	41	118	hard chromed	Ø5.5
			5.7-6.3	41	118	hard chromed	Ø6
			6.2-6.8	41	118	hard chromed	Ø6.5
			6.7-7.3	41	118	hard chromed	Ø7
			7.2-7.8	45	118	hard chromed	Ø7.5
240-120-11M	7.7-12.5	6	7.7-8.3	45	118	hard chromed	Ø8
			8.2-8.8	45	118	hard chromed	Ø8.5
			8.7-9.3	45	118	hard chromed	Ø9
			9.2-10.5	45	118	hard chromed	Ø10
			10.2-11.5	45	118	hard chromed	Ø11
			11.2-12.5	45	118	hard chromed	Ø12
240-200-11M	12.2-20.6	8	12.2-13.5	45	118	hard chromed	Ø13
			13.4-14.6	45	118	hard chromed	Ø14
			14.4-15.6	45	118	hard chromed	Ø15
			15.4-16.6	45	118	hard chromed	Ø16
			16.4-17.6	45	118	hard chromed	Ø17
			17.4-18.6	45	118	hard chromed	Ø18
			18.4-19.6	45	118	hard chromed	Ø19
			19.4-20.6	45	118	hard chromed	Ø20

unit: mm



Setting ring **(optional)**

Series 531

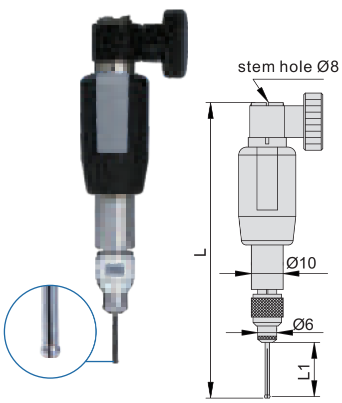
Optional indicators **(optional)**

Series 215

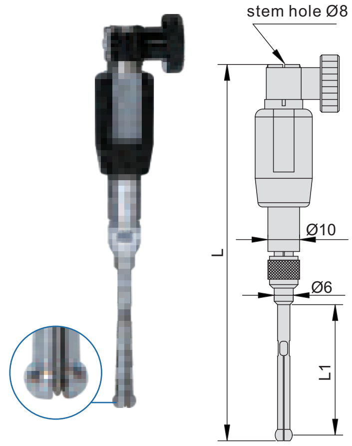
222-001-02

SERIES 240 SPLIT TYPE DIAL BORE GAUGE SET

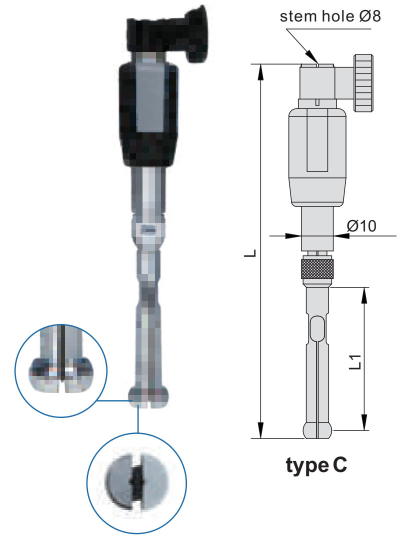
unit: mm



type A



type B



type C

- Split type contact points
- Accuracy (without indicator):
  3μm (measuring range 0.95~10mm),
  4μm (measuring range 10~20.6mm)
- Repeatability (without indicator): 1μm
- Dial indicators are optional

Setting ring **(optional)**

Series 531

Optional indicators **(optional)**

Series 215

222-001-02

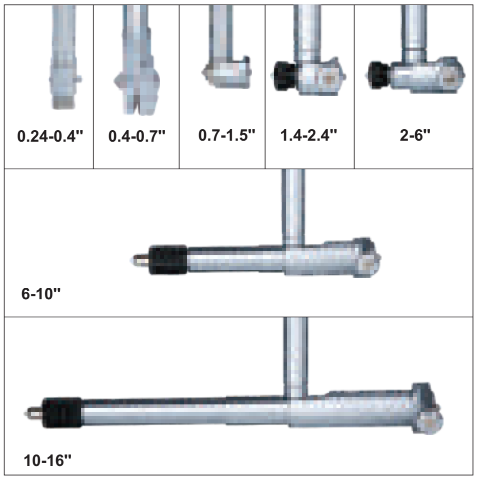
Code	Range	Quantity of points	Measuring range of point	Measuring depth (L1)	Total length (L)	Material of points	Type of point	Setting ring (optional)
240-014-11	0.95-1.55	5	0.95-1.15	13	89	carbide	A	Ø1
			1.07-1.25	13	89	carbide	A	Ø1.1
			1.17-1.35	13	89	carbide	A	Ø1.2
			1.27-1.45	13	89	carbide	A	Ø1.3
			1.37-1.55	13	89	carbide	A	Ø1.4
240-040-11	1.5-4.2	10	1.5-1.9	17	93	carbide	A	Ø1.75
			1.8-2.2	17	93	carbide	A	Ø2
			2.05-2.45	17	93	carbide	A	Ø2.25
			2.3-2.7	25	101	carbide	A	Ø2.5
			2.55-2.95	25	101	carbide	A	Ø2.75
			2.8-3.2	25	101	carbide	A	Ø3
			3.05-3.45	25	101	carbide	A	Ø3.25
			3.3-3.7	25	101	carbide	A	Ø3.5
			3.55-3.95	25	101	carbide	A	Ø3.75
			3.8-4.2	25	101	carbide	A	Ø4
			0.95-1.15	13	89	carbide	A	1
			1.07-1.25	13	89	carbide	A	Ø1.1
			1.17-1.35	13	89	carbide	A	Ø1.2

SERIES 240 SPLIT TYPE DIAL BORE GAUGE SET

Code	Range	Quantity of points	Measuring range of point	Measuring depth (L1)	Total length (L)	Material of points	Type of point	Setting ring (optional)
240-040-12	0.95-4.2	15	1.27-1.45	13	89	carbide	A	Ø1.3
			1.37-1.55	13	89	carbide	A	Ø1.4
			1.5-1.9	17	93	carbide	A	Ø1.75
			1.8-2.2	17	93	carbide	A	Ø2
			2.05-2.45	17	93	carbide	A	Ø2.25
			2.3-2.7	25	101	carbide	A	Ø2.5
			2.55-2.95	25	101	carbide	A	Ø2.75
			2.8-3.2	25	101	carbide	A	Ø3
			3.05-3.45	25	101	carbide	A	Ø3.25
			3.3-3.7	25	101	carbide	A	Ø3.5
			3.55-3.95	25	101	carbide	A	Ø3.75
			3.8-4.2	25	101	carbide	A	Ø4
240-075-11	4.15-7.8	7	4.15-4.8	41	118	hard chromed	B	Ø4.5
			4.7-5.3	41	118	hard chromed	B	Ø5
			5.2-5.8	41	118	hard chromed	B	Ø5.5
			5.7-6.3	41	118	hard chromed	B	Ø6
			6.2-6.8	41	118	hard chromed	B	Ø6.5
			6.7-7.3	41	118	hard chromed	B	Ø7
			7.2-7.8	45	118	hard chromed	C	Ø7.5
240-120-11	7.7-12.5	6	7.7-8.3	45	118	hard chromed	C	Ø8
			8.2-8.8	45	118	hard chromed	C	Ø8.5
			8.7-9.3	45	118	hard chromed	C	Ø9
			9.2-10.5	45	118	hard chromed	C	Ø10
			10.2-11.5	45	118	hard chromed	C	Ø11
			11.2-12.5	45	118	hard chromed	C	Ø12
240-120-12	4.15-12.5	13	4.15-4.8	41	118	hard chromed	B	Ø4.5
			4.7-5.3	41	118	hard chromed	B	Ø5
			5.2-5.8	41	118	hard chromed	B	Ø5.5
			5.7-6.3	41	118	hard chromed	B	Ø6
			6.2-6.8	41	118	hard chromed	B	Ø6.5
			6.7-7.3	41	118	hard chromed	B	Ø7
			7.2-7.8	45	118	hard chromed	C	Ø7.5
			7.7-8.3	45	118	hard chromed	C	Ø8
			8.2-8.8	45	118	hard chromed	C	Ø8.5
			8.7-9.3	45	118	hard chromed	C	Ø9
			9.2-10.5	45	118	hard chromed	C	Ø10
			10.2-11.5	45	118	hard chromed	C	Ø11
			11.2-12.5	45	118	hard chromed	C	Ø12
240-200-11	12.2-20.6	8	12.2-13.5	45	118	hard chromed	C	Ø13
			13.4-14.6	45	118	hard chromed	C	Ø14
			14.4-15.6	45	118	hard chromed	C	Ø15
			15.4-16.6	45	118	hard chromed	C	Ø16
			16.4-17.6	45	118	hard chromed	C	Ø17
			17.4-18.6	45	118	hard chromed	C	Ø18
			18.4-19.6	45	118	hard chromed	C	Ø19
			19.4-20.6	45	118	hard chromed	C	Ø20

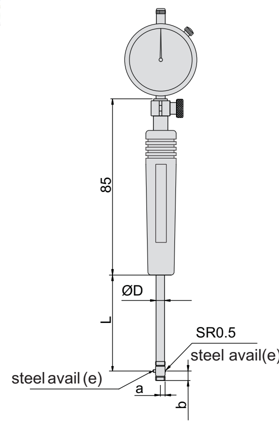
SERIES 252 INCH DIAL BORE GAUGE

- Optional accessory: Long handle series 250

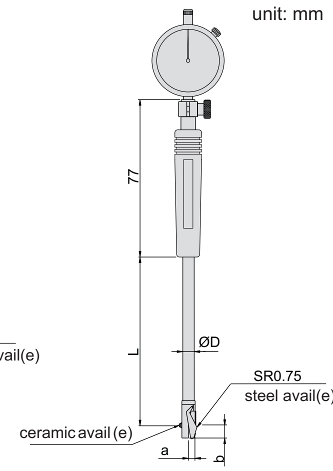


252-015-11

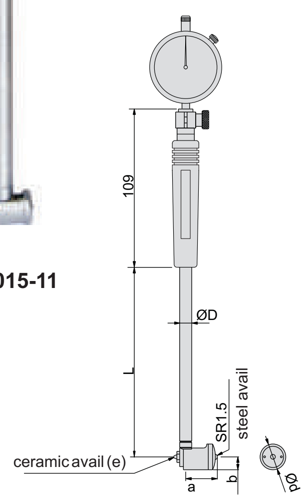
unit: mm



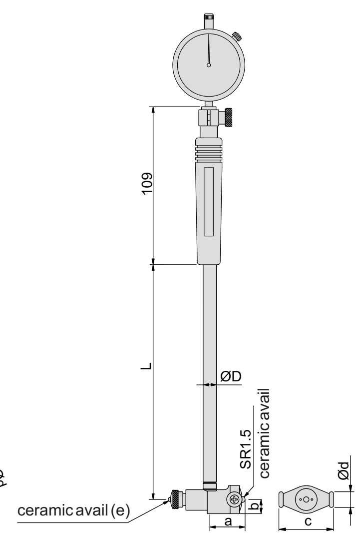
Range: 0.24-0.4"



Range: 0.4-0.7"



Range: 0.7-1.5"

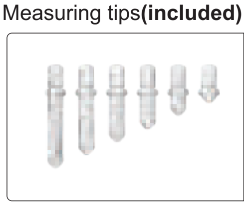


Range: 1.4-16"

Bore gauge setter for setting zero **(optional)**

Setting ring **(optional)**

Measuring tips **(included)**

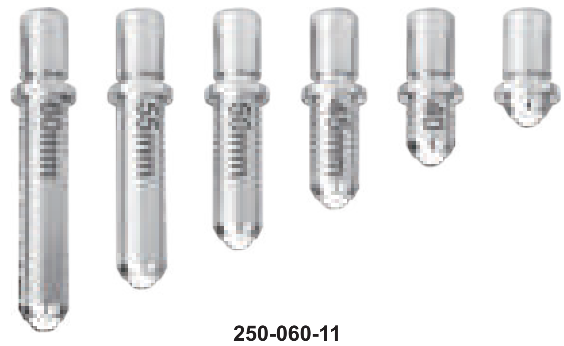


gasket **(included)**

Code	Range	Dial indicator	Accuracy	Repeatability	a	b	c	Ød	ØD	e	L
252-004-11	0.24-0.4"	dial indicator, range 0.25", graduation 0.0005"	±0.00075"	0.00015"	3.6	5.7	/	/	4.5	SR1	48
252-007-11	0.4-0.7"		±0.00075"	0.00015"	5.6	7.8	/	/	6	SR1	105
252-015-11	0.7-1.5"		±0.00075"	0.00015"	12.2	6.4	/	12.7	9	SR1	141
252-024-11	1.4-2.4"		±0.0009"	0.00015"	26	9	27	13	12.8	SR2	141
252-060-11	2-6"		±0.0009"	0.00015"	26	9	35	13	12.8	SR2	141
252-100-11	6-10"		±0.0009"	0.00015"	56.5	13	74.5	15	14.5	SR3.5	400
252-160-11	10-16"		±0.0009"	0.00015"	86.5	15	101.5	15	14.5	SR3.5	400

SERIES 250 ANVIL FOR BORE GAUGES

- Measuring face is made of ceramic



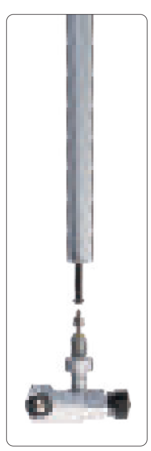
250-060-11

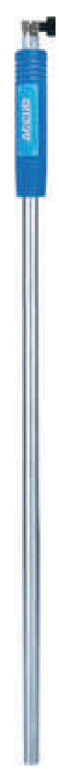
Code	For bore gauges	QTY. per set	Measuring tip material	Measuring range of anvil (mm)
250-010-11	6-10mm	9pcs	steel	6, 6.5, 7, 7.5, 8, 8.5, 9, 9.5, 10
250-018-11	10-18.5mm	9pcs	ceramic	10, 11, 12, 13, 14, 15, 16, 17, 18
250-035-11	18-35mm	9pcs	ceramic	18, 20, 22, 24, 26, 28, 30, 32, 34
250-060-11	35-60mm	6pcs	ceramic	35, 40, 45, 50, 55, 60
250-100-11	50-100mm	11pcs	ceramic	50, 55, 60, 65, 70, 75, 80, 85, 90, 95, 100
250-160-11	50-160mm	12pcs	ceramic	50, 55, 60, 65, 70, 75, 80, 85, 90, 95, 100, 105
250-160-12	100-160mm	12pcs	ceramic	50, 55, 60, 65, 70, 75, 80, 85, 90, 95, 100, 105
250-250-11	160-250mm	5pcs	ceramic	160, 170, 180, 190, 200
250-450-11	250-450mm	5pcs	ceramic	250, 260, 270, 280, 290

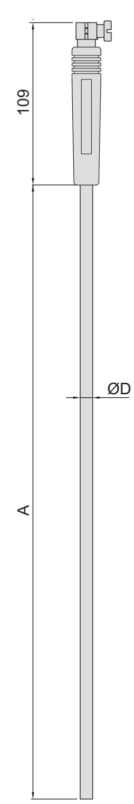
SERIES 250 LONG HANDLE

- To assist deep-hole measurement

Install





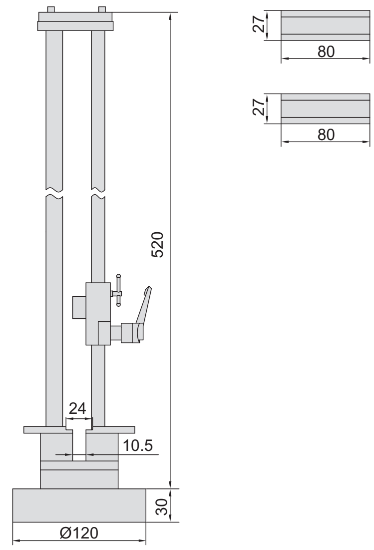


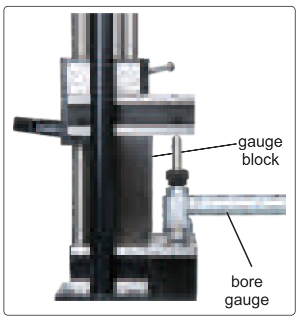
Code	For bore gauges	A	ØD
250-000-01	35-60mm, 50-100mm, 50-160mm, 100-160mm	473	13
250-000-02		980	13
250-000-03	160-250mm, 250-450mm	480	14.5
250-000-04		980	14.5

255 BORE GAUGE CHECKER

- Used together with gauge blocks to set bore gauges

unit: mm



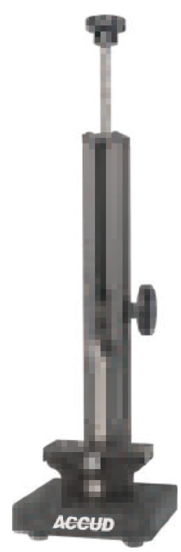


Code	Range
255-016-11	18-400mm

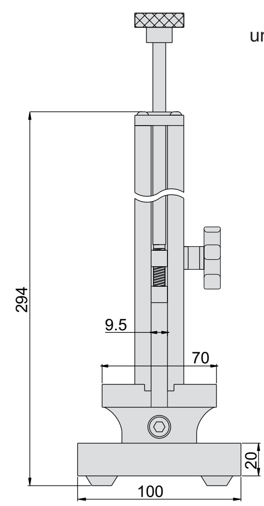
SERIES 256 BORE GAUGE SETTER

Certificate

- Can be used in vertical and horizontal
- To be used with gauge blocks



unit: mm



Gauge block set (grade 2,ISO3650) for 256-160-11

Blocks per set	Size(mm)	Step(mm)	Quantity(pcs)
33	1.005	–	1
	1.01-1.09	0.01	9
	1.1-1.9	0.1	9
	1-9	1	9
	10-30	10	3
	50	–	1
	100	–	1

Application

Gauge block set for 256-160-11

Code	Range	Repeatability	Gauge block set
256-160-11*	0-160mm	1.2μm	with
256-160-10	0-160mm	1.2μm	without

*** with calibration certificate**

INSIDE/OUTSIDE MEASUREMENT

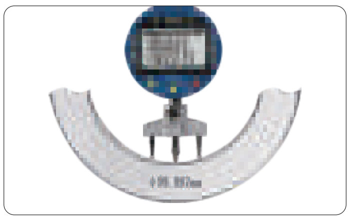
296 DIGITAL RADIUS GAUGE

Data output CR2032

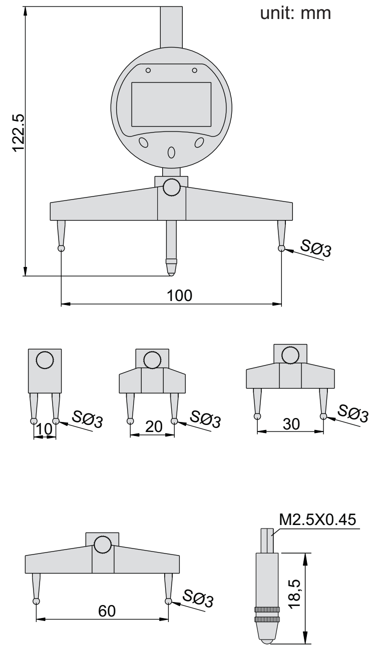
- Measure radius of internal and external arcs
- Accuracy: ±0.01R, R is the radius to be measured in mm
- Data output (cable code: 200-01 or 200-02)
- Supplied with 5 jaws for different sizes of arc

Measure shaft

Measure bore



unit: mm



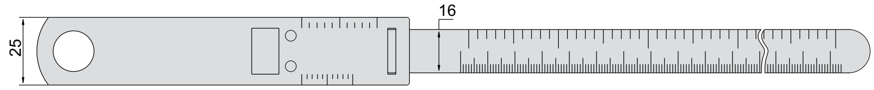
Code	Range of radius	Resolution
296-700-11	5-700mm/0.2-27.5"	0.01mm/0.001"

SERIES 956 CIRCUMFERENCE TAPE

- Measure diameter and circumference of pipes, trees, etc.
- Guaduation: 0.1mm
- Accuracy:
  Circumference:±1.5mm
  Diamater: ±0.5mm
- Laser engraved scale
- Made of stainless steel

956-012-11

unit: mm



Code	Range	
	Diameter	Circumference
956-012-11	20 - 300mm	60 - 950mm
956-028-11	300 - 700mm	940 - 2200mm
956-044-11	700 - 1100mm	2190 - 3460mm

SERIES 201 LINEAR GAUGE

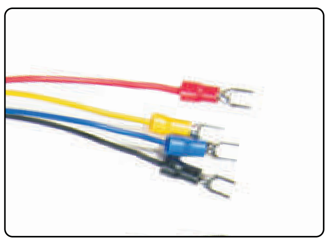
IP65

- Suitable for measuring the height, thickness, squareness, coaxiality and so on.
- IP65 protection level
- High frequence: 100 times/s, can measure high speed workpiece
- Output signal : 90° phase difference wave
- Standard cable length: 2m
- Long working life due to the special bearing

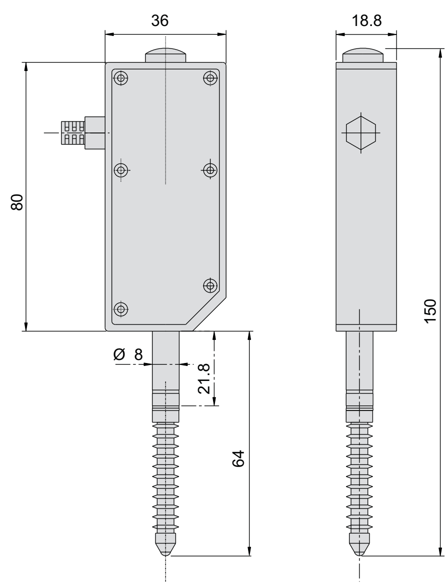
201-010-11

Interface(RS232)

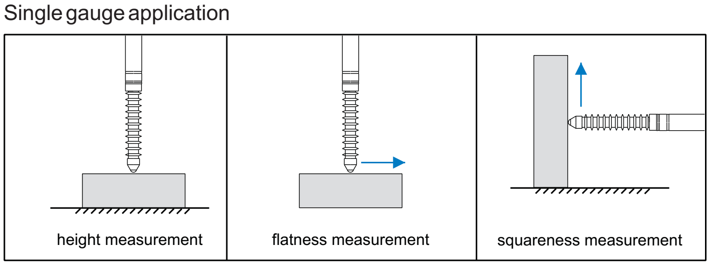
Interface(Pin4)



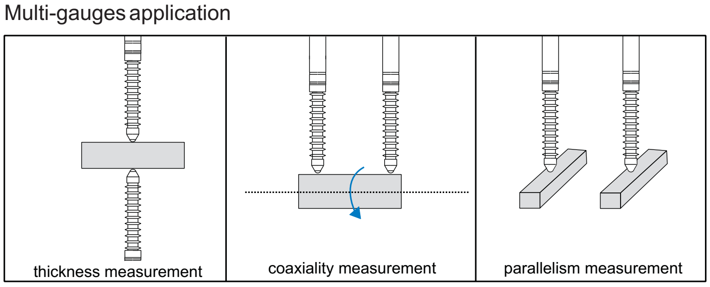
unit: mm



Single gauge application



Multi-gauges application



Resolution 0.001mm

Code	Interface	Range	Measuring force	Stem	Accuracy	Hysteresis
201-010-01	Pin4	0-12.7mm	1.5N	Ø8mm	5μm	2μm
201-010-02	RS232	0-12.7mm	1.5N	Ø8mm	5μm	2μm

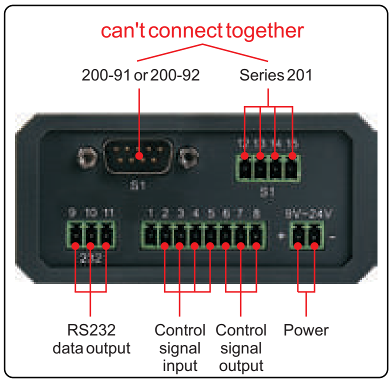
Resolution 0.01mm

Code	Interface	Range	Measuring force	Stem	Accuracy	Hysteresis
201-010-11	Pin4	0-12.7mm	1.5N	Ø8mm	20μm	10μm
201-010-12	RS232	0-12.7mm	1.5N	Ø8mm	20μm	10μm

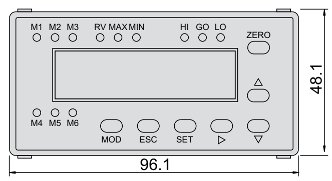
206 DISPLAY UNIT FOR LINEAR GAUGE

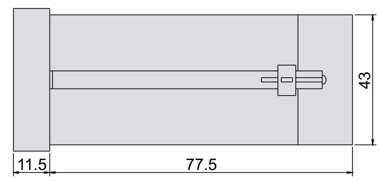
- High and low limits with judgement
- With control signal input interface
- With input/output interface
- Power: supply DC9-24V

Signal

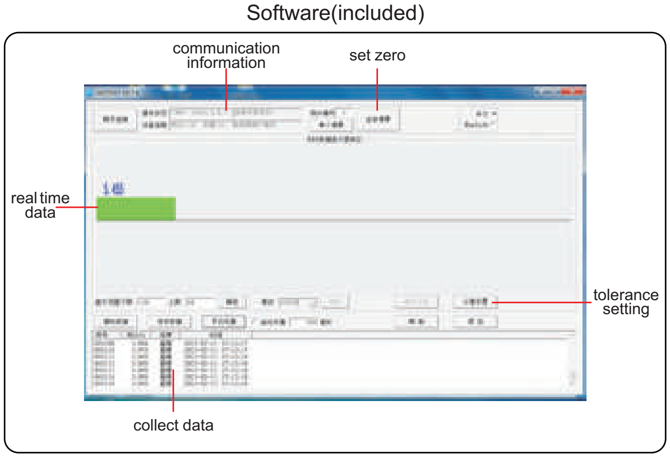


unit: mm

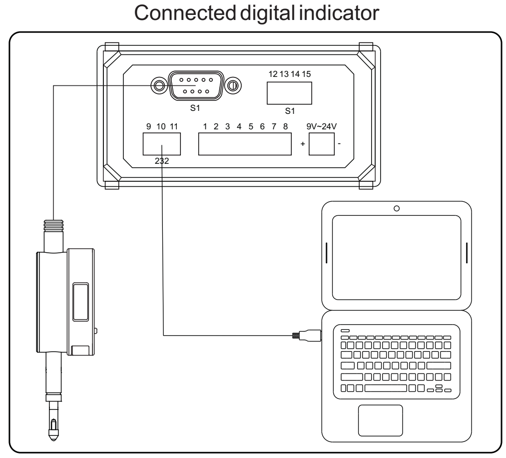




Software(included)

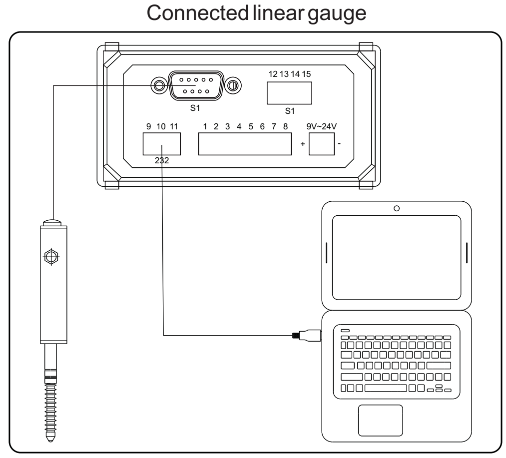


Connected digital indicator



Code	206-010-01
Display	6 digits
Quantity of linear gauge or digital indicator to be connected	1pc
Tolerance signal	tolerance and judgement with alarm and lights(out of upper tolerance, within tolerance, out of lower tolerance)
Output control	output the tolerance judgement (out of upper tolerance, within tolerance, out of lower tolerance) to control external devices
External control	control the display units from external devices (set zero, hold reading and collect data)
Data output	connect to computer software and serial communication port
Power supply	DC 9~24V

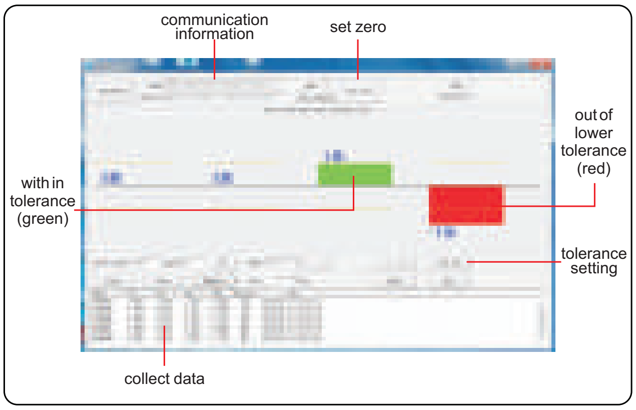
Connected linear gauge



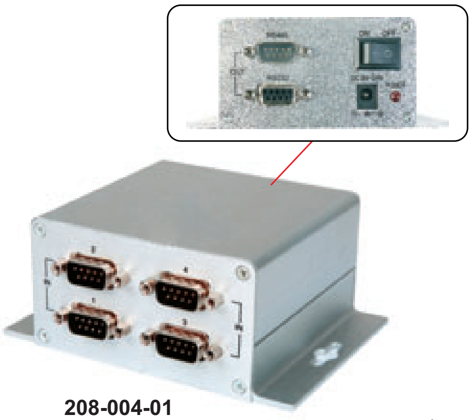
SERIES 208 COUNTER FOR LINEAR GAUGE

- With data recording software, can transfer the data into Excel

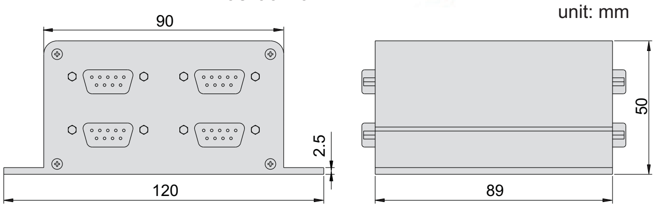
Software(included)



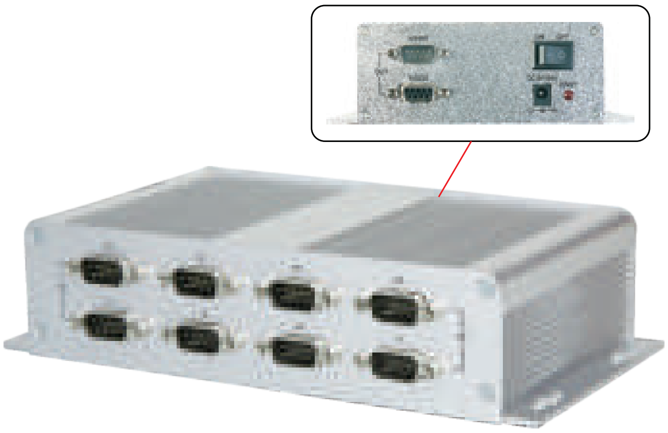
back



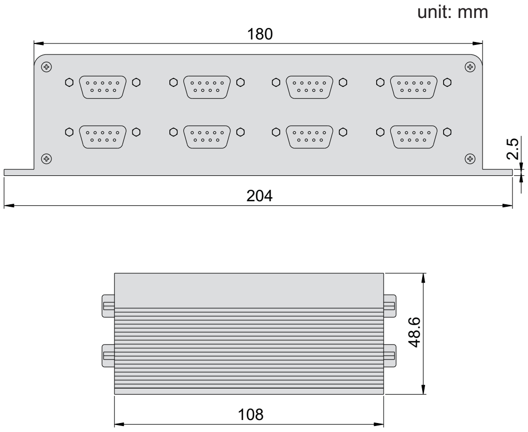
208-004-01



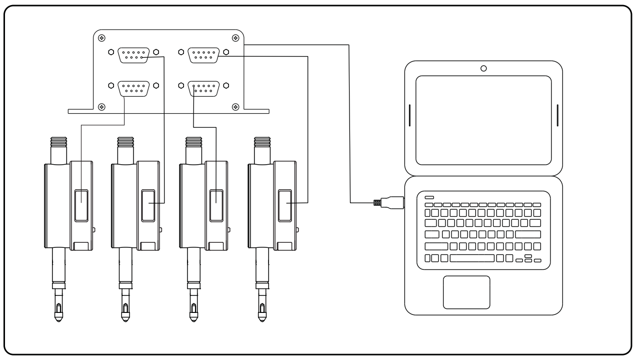
back



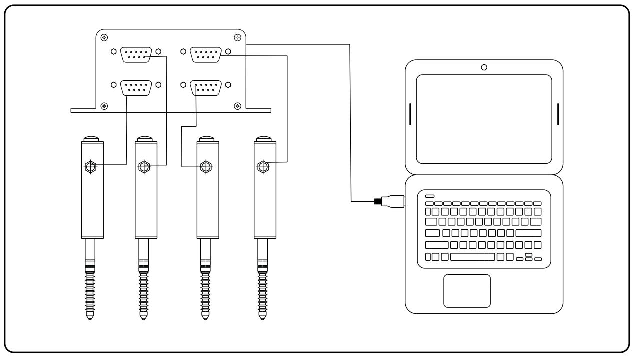
208-008-01



Connected digital indicator



Connected linear gauge



Code	Gauges input	Interface
208-004-01	4	RS232/485
208-008-01	8	RS232/485

INDICATOR

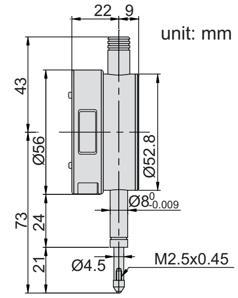
SERIES 210 DIGITAL INDICATOR

Certificate | Data output | CR2032

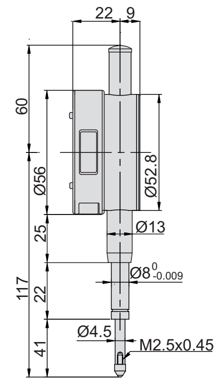
- Button: tolerance set, data preset, inch/mm conversion, measuring direction set, max./min./range measurement, absolute/incremental measurement
- Data output(cable code:200-03 or 200-04)
- Automatic power off
- Supplied with flat and lug back

VIDEO

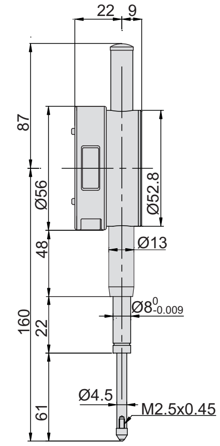
210-010-03



Range: 0-12.7mm



Range: 0-25.4mm



Range: 0-50.8mm

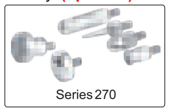
Resolution 0.001mm/0.00005"

Code	Range	Accuracy	Hysteresis
210-010-03	12.7mm/0.5"	5μm	2μm
210-025-03	25.4mm/1"	5μm	3μm
210-050-03	50.8mm/2"	6μm	3μm

Resolution 0.01mm/0.0005"

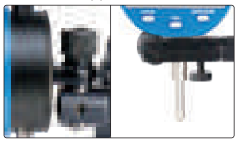
Code	Range	Accuracy	Hysteresis
210-010-13	12.7mm/0.5"	20μm	10μm
210-025-13	25.4mm/1"	20μm	10μm
210-050-13	50.8mm/2"	30μm	10μm

Styli(optional)



Series 270

Application



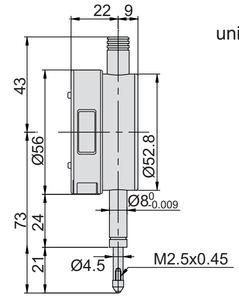
SERIES 211 DIGITAL INDICATOR

Certificate | Data output | CR2032

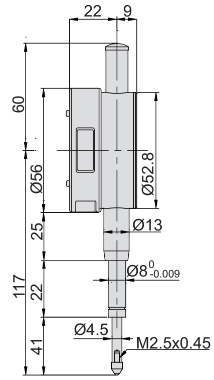
- With analog reading
- Button: tolerance set, data preset, inch/mm conversion, measuring direction set, max./min./range measurement, absolute/incremental measurement
- Data output(cable code:200-03 or 200-04)
- Automatic power off
- Supplied with flat and lug back

VIDEO

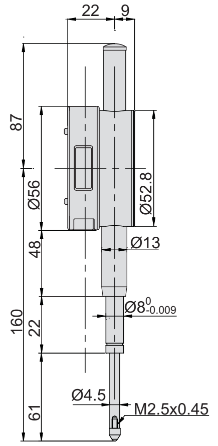
211-010-13



Range: 0-12.7mm



Range: 0-25.4mm



Range: 0-50.8mm

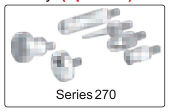
Resolution 0.001mm/0.00005"

Code	Range	Accuracy	Hysteresis
211-010-03	12.7mm/0.5"	5μm	2μm
211-025-03	25.4mm/1"	5μm	3μm
211-050-03	50.8mm/2"	6μm	3μm

Resolution 0.01mm/0.0005"

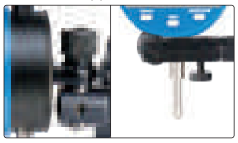
Code	Range	Accuracy	Hysteresis
211-010-13	12.7mm/0.5"	20μm	10μm
211-025-13	25.4mm/1"	20μm	10μm
211-050-13	50.8mm/2"	30μm	10μm

Styli(optional)



Series 270

Application



SERIES 212 DIGITAL INDICATOR

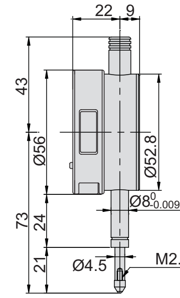
Certificate | Data output | CR2032

- Button: on/off, zero, inch/mm conversion, measuring direction set, data preset absolute/incremental measurement
- Data output(cable code:200-03 or 200-04)
- Automatic power off
- Supplied with flat and lug back

VIDEO

212-010-13

unit: mm

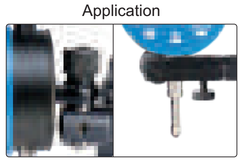


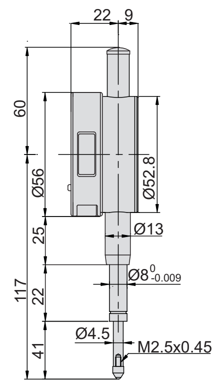
Range: 0-12.7mm

Styli(optional)

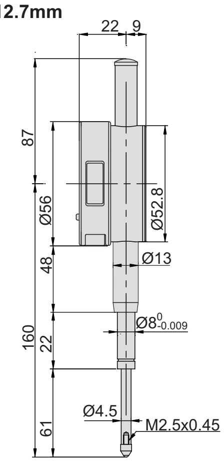
Series 270

Application





Range: 0-25.4mm



Range: 0-50.8mm

Resolution 0.001mm/0.00005"

Code	Range	Accuracy	Hysteresis
212-010-03	12.7mm/0.5"	5μm	2μm
212-025-03	25.4mm/1"	5μm	3μm
212-050-03	50.8mm/2"	6μm	3μm

Resolution 0.01mm/0.0005"

Code	Range	Accuracy	Hysteresis
212-010-13	12.7mm/0.5"	20μm	10μm
212-025-13	25.4mm/1"	20μm	10μm
212-050-13	50.8mm/2"	30μm	10μm

SERIES 215 DIGITAL INDICATOR FOR BORE GAUGE

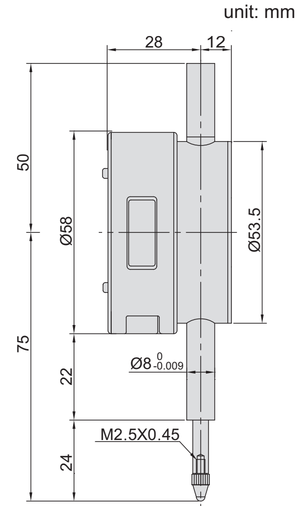
Certificate | Data output | CR2032

- Specially designed for bore gauges
- The minimum value tracking function can find the diameter automatically
- Read the diameter directly, after inputting the size of setting ring
- Reading in digit and analog
- Button: minimum value tracking, calibration, data preset, inch/metric conversion, absolute/incremental measurement
- Automatic power off
- Data output(cable code:200-03 or 200-04)

VIDEO

215-010-12

unit: mm



Resolution 0.001mm/0.00005"

Code	Range	Accuracy(fges)	Hysteresis(fu)	Remark
215-010-02	12.7mm/0.5"	5μm	2μm	flat back

Resolution 0.002mm/0.0001"

Code	Range	Accuracy(fges)	Hysteresis(fu)	Remark
215-010-12	12.7mm/0.5"	20μm	10μm	flat back

Application

Series 251 (optional)

SERIES 216 DIGITAL INDICATOR

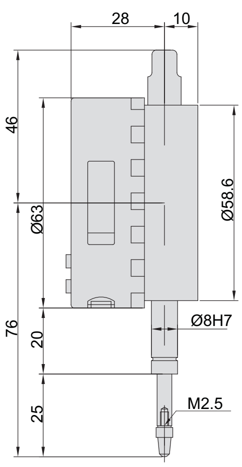
Certificate | Data output | CR2032

- Reading in digital and analog
- Display can be rotated by 320°
- Button : on/off, zero, tolerance Go and No-Go display, data preset, measuring direction change, max./min./TIR, absolute/incremental measurement,mm/inch,data output
- Keep preset data and tolerance data in memory after restart
- Automatic power off
- Data output (cable code: 200-01 or 200-02)
- Supplied with lug and flat back

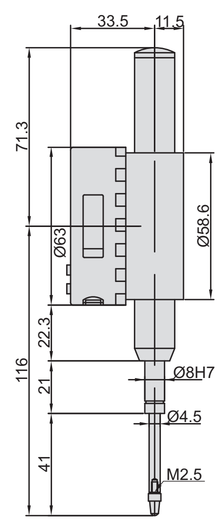
216-010-01

display can be rotated by 320°

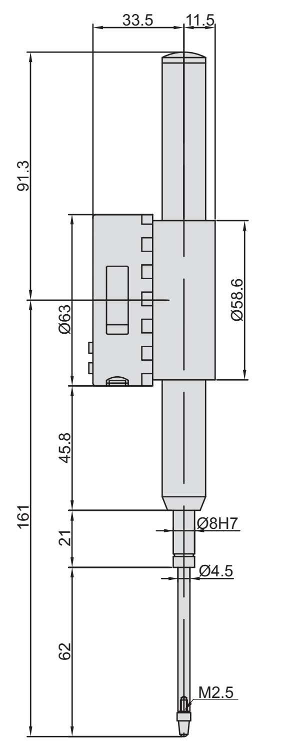
unit: mm



Range:0-12.7mm



Range: 0-25.4mm



Range: 0-50.8mm

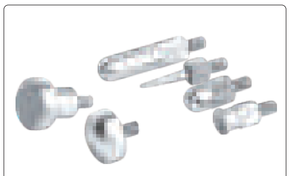
Resolution 0.001mm/0.00005"

Code	Range	Accuracy	Hysteresis
216-010-01	12.7mm/0.5"	5μm	2μm
216-025-01	25.4mm/1"	5μm	3μm
216-050-01	50.8mm/2"	6μm	3μm

Resolution 0.002mm/0.0005"

Code	Range	Accuracy	Hysteresis
216-010-11	12.7mm/0.5"	20μm	10μm
216-025-11	25.4mm/1"	20μm	10μm
216-050-11	50.8mm/2"	30μm	10μm

Contact points **(optional)**



Series 270

Application

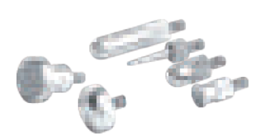
SERIES 213 WATERPROOF DIGITAL INDICATOR

- Dust/waterproof
- Button: on/off, zero, inch/mm conversion, measuring direction set, data preset absolute/incremental measurement
- Automatic power off
- Data output(cable code:200-01 or 200-02)
- Supplied with lug and flat back

VIDEO

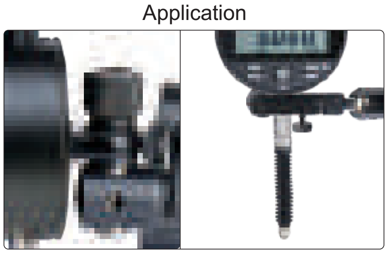
213-010-01

Styli**(optional)**

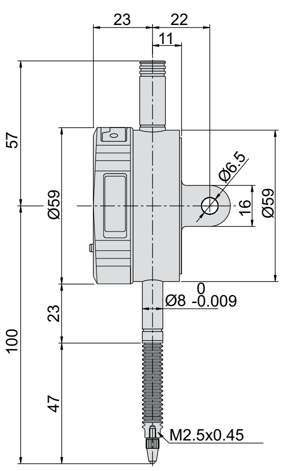


Series 270

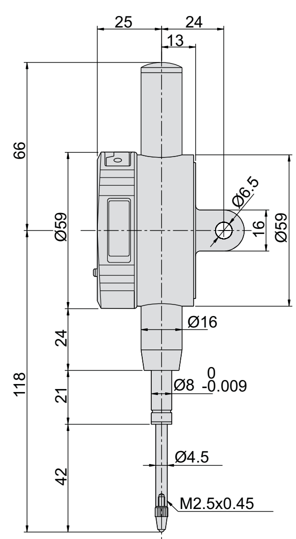
Application



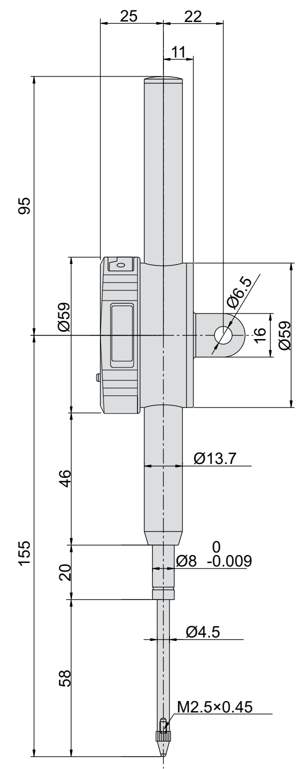
unit: mm



Range: 0-12.7mm



Range: 0-25.4mm



Range: 0-50.8mm

Resolution 0.001mm/0.00005"

Code	Range	Proof level	Accuracy	Hysteresis
213-010-01	12.7mm/0.5"	IP65	5μm	2μm
213-025-01	25.4mm/1"	IP54	5μm	3μm
213-050-01	50.8mm/2"	IP54	6μm	3μm

Resolution 0.01mm/0.0005"

Code	Range	Proof level	Accuracy	Hysteresis
213-010-11	12.7mm/0.5"	IP65	20μm	10μm
213-025-11	25.4mm/1"	IP54	20μm	10μm
213-050-11	50.8mm/2"	IP54	30μm	10μm

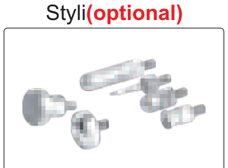
SERIES 214 DIGITAL INDICATOR

Certificate | Data output | CR2032

- Button: on/off, zero, inch/mm conversion, measuring direction set, data preset absolute/incremental measurement
- Automatic power off
- Data output(cable code:200-01 or 200-02)
- Supplied with flat back

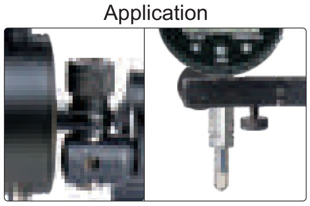
VIDEO

Styli(**optional**)



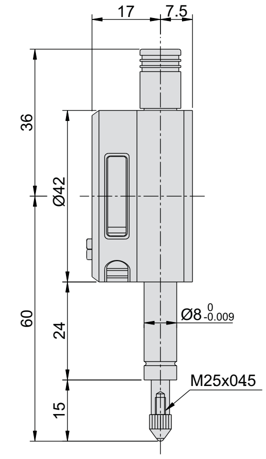
Series 270

Application



214-005-12

unit: mm



Resolution 0.001mm/0.00005"

Code	Range	Accuracy	Hysteresis
214-005-02	5mm/0.2"	5μm	3μm

Resolution 0.01mm/0.0005"

Code	Range	Accuracy	Hysteresis
214-005-12	5mm/0.2"	20μm	10μm

SERIES 214 DIGITAL INDICATOR

Data output | CR2032

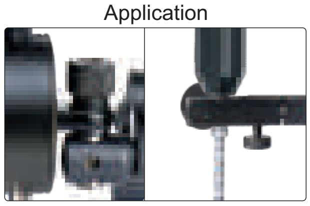
- Button: on/off, zero, inch/mm conversion, measuring direction set, data preset absolute/incremental measurement
- Automatic power off
- Data output(cable code:200-01 or 200-02)
- Supplied with lug and flat back

VIDEO

Styli(**optional**)

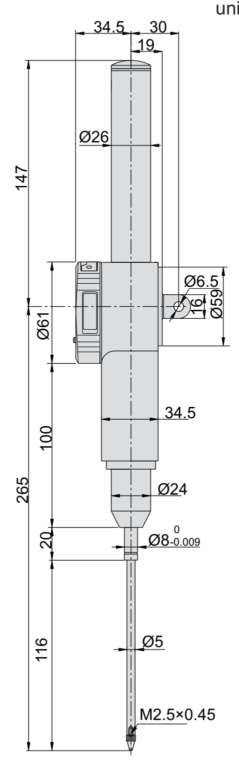
Series 270

Application



214-100-11

unit: mm



Resolution 0.001mm/0.00005"

Code	Range	Accuracy	Hysteresis
214-100-01	100mm/4"	9μm	3μm

Resolution 0.01mm/0.0005"

Code	Range	Accuracy	Hysteresis
214-100-11	100mm/4"	30μm	10μm

INDICATOR

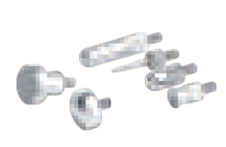
SERIES 217 HIGH PRECISION DIGITAL INDICATOR

IP54 Charge

- With analog reading
- Supplied with cable for communication
- Button: data output, on/off, zero, inch/mm conversion, measuring direction set, data preset absolute/ incremental measurement, max./min./range measurement, tolerance set, hold
- IP54 protection level
- Automatic power off
- Power: rechargeable battery, for 30 hours continuous working(full charge)

217-015-01

Contact points **(optional)**

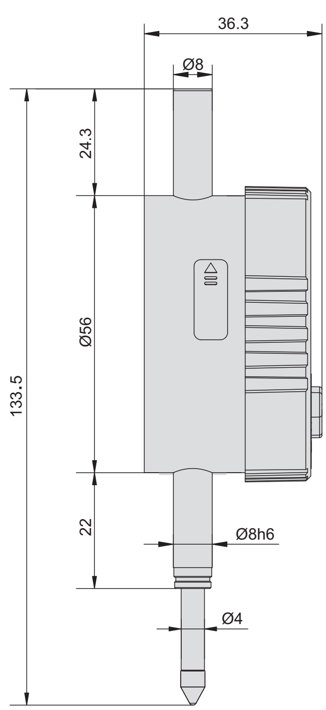


Series **270**

Included

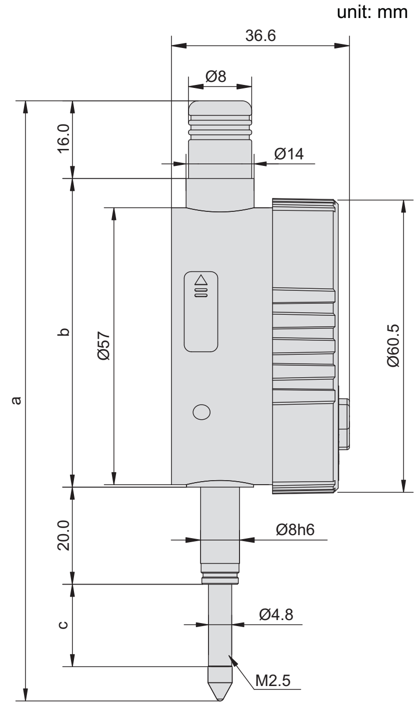
Application

display can be rotated by 270°



217-015-01

unit: mm



217-010-01, 217-025-01 and 217-050-01

Code	Range	Resolution	Accuracy	Hysteresis	Styli
217-015-01	15mm/0.6"	0.0005mm/0.00002"	2μm	1.5μm	Carbide

Code	Range	Resolution	Accuracy	Hysteresis	Styli	a	b	c
217-010-01	12.7mm/0.5"	0.0005mm/ 0.00002"	2μm	1.5μm	Carbide	118.7	61	14.7
217-025-01	25. 4mm/1"		2μm	1.5μm	Carbide	151.7	81	27.7
217-050-01	50. 8mm/2"		2μm	1.5μm	Carbide	222.2	126	53.2

ACCUD

SERIES 217 HIGH PRECISION DIGITAL INDICATOR

IP54 Charge

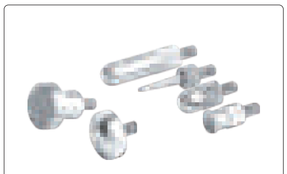
- Built-in bluetooth
- Supplied with cable for communication
- Button: data output, on/off, zero, inch/mm conversion, measuring direction set, data preset absolute/ incremental measurement, max./min./range measurement, tolerance set, hold, resolution adjustment
- IP54 protection level
- Automatic power off
- Power: rechargeable battery, for 30 hours continuous working(full charge)

217-015-01H

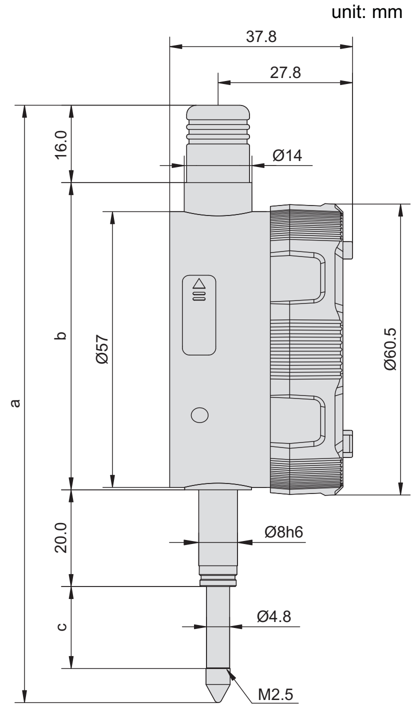
Included

Application

Contact points **(optional)**


Series **270**

unit: mm



display can be rotated by 270°

Smart phone, Computer, Ipad

Code	Range	Resolution(adjustable)	Accuracy	Hysteresis	Styli	a	b	c
217-010-01H	12.7mm/0.5"	0.0005mm/0.00002" 0.001mm/0.00005"	2µm	1.5µm	Carbide	118.7	61	14.7
217-015-01H	15mm/0.6"		2µm	1.5µm	Carbide	123.7	63.5	17
217-025-01H	25. 4mm/1"		2µm	1.5µm	Carbide	151.7	81	27.7
217-050-01H	50. 8mm/2"		2µm	1.5µm	Carbide	222.2	126	53.2

SERIES 218 HIGH PRECISION DIGITAL INDICATOR

Charge

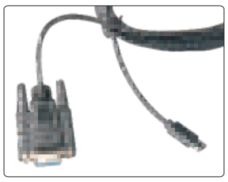
- Linear ball bearings for ten million times use
- Absolute encoder, the original data remains after power off
- Reading in digital and analog
- Supplied with RS232 cable (with software)
- Button: tolerance, data preset, data hold, measuring direction change, max./min./TIR, power off time, on/off, mm/inch, resolution adjustment
- Power: rechargeable battery, for 24 hours continuous working(full charge)

218-010-01

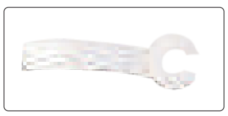
218-025-01

VIDEO

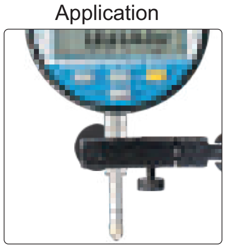
Included



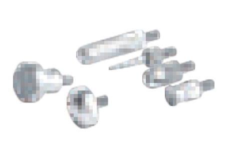
Lifting lever (Included)



Application



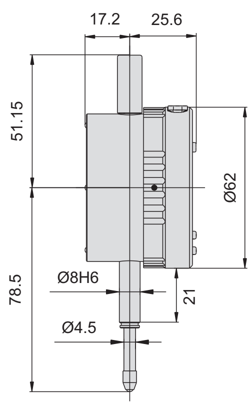
Contact points **(optional)**



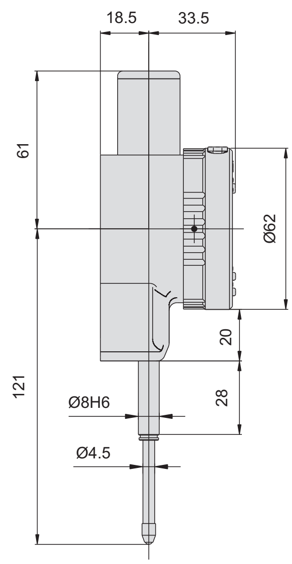
Series **270**

display can be rotated by 320°

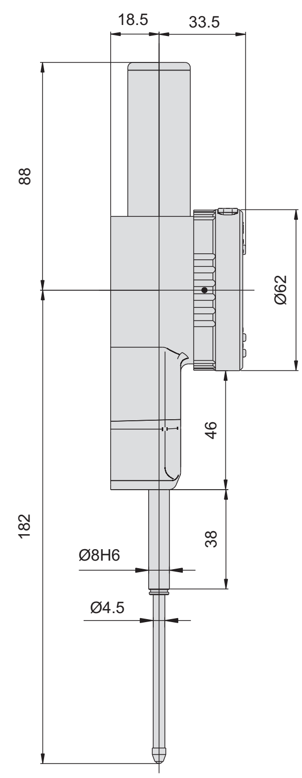
unit: mm



Range:0-12.7mm



Range:0-25.4mm



Range:0-50.8mm

Code	Range	Resolution(adjustable)	Accuracy	Hysteresis	Styli	Back
218-010-01	12.7mm/0.5"	0.0002mm/0.00001" 0.001mm/0.00005" 0.01mm/0.0005"	1.5μm	1μm	Ruby	flat
218-025-01	25.4mm/1"		1.8μm	1μm	Ruby	flat

Code	Range	Resolution(adjustable)	Accuracy	Hysteresis	Styli	Back
218-010-11	12.7mm/0.5"	0.0005mm/0.00002" 0.001mm/0.00005" 0.01mm/0.0005"	3μm	1.5μm	Carbide	flat
218-025-11	25.4mm/1"		3μm	1.5μm	Carbide	flat
218-050-11	50.8mm/2"		3μm	1.5μm	Carbide	flat

SERIES 218 WIRELESS HIGH PRECISION DIGITAL INDICATOR

Charge

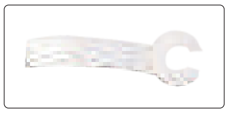
- Built-in wireless transmission, Zigbee singal
- Built-in bluetooth
- Absolute encoder, the original data remains after power off
- Reading in digital and analog
- Supplied with RS232 cable (with software)
- Button: data output, tolerance, data preset, data hold, measuring direction change, max./min./TIR, power off time, on/off, mm/inch, resolution adjustment
- Power: rechargeable battery, for 24 hours continuous working(full charge)

218-010-01W

218-025-01W

VIDEO

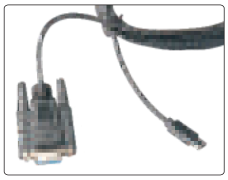
Lifting lever (Included)



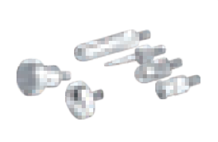
unit: mm

display can be rotated by 320°

Included

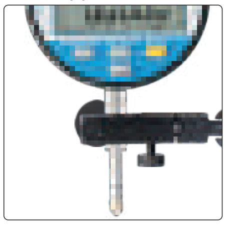


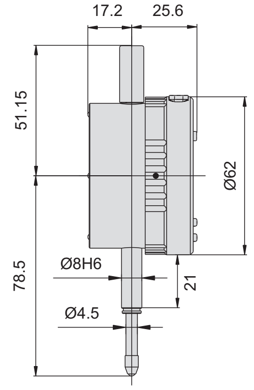
Contact points **(optional)**



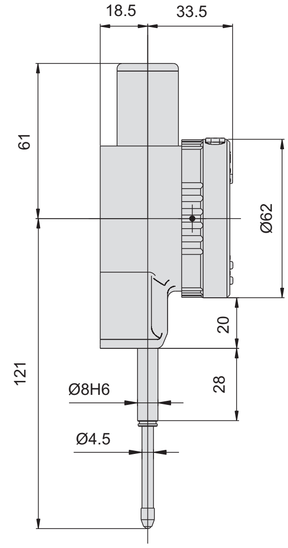
Series **270**

Application

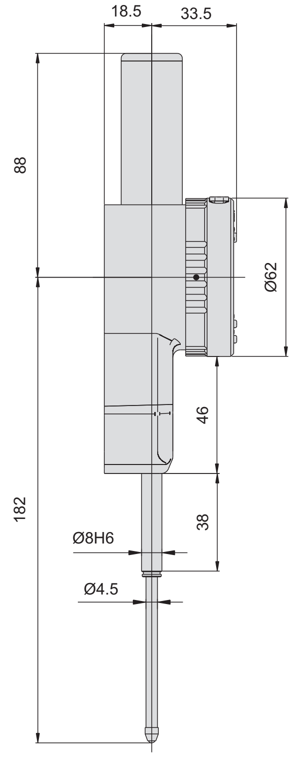




0-12.7mm



0-25.4mm



0-50.8mm

Code	Range	Resolution(adjustable)	Accuracy	Hysteresis	Styli	Back
218-010-01W	12.7mm/0.5"	0.0002mm/0.00001" 0.001mm/0.00005" 0.01mm/0.0005"	1.5µm	1µm	Ruby	flat
218-025-01W	25.4mm/1"		1.8µm	1µm	Ruby	flat

Code	Range	Resolution(adjustable)	Accuracy	Hysteresis	Styli	Back
218-010-11W	12.7mm/0.5"	0.0005mm/0.00002" 0.001mm/0.00005" 0.01mm/0.0005"	3µm	1.5µm	Carbide	flat
218-025-11W	25.4mm/1"		3µm	1.5µm	Carbide	flat
218-050-11W	50.8mm/2"		3µm	1.5µm	Carbide	flat

SERIES 227 DIGITAL INDICATOR WITH LIFTING LEVER

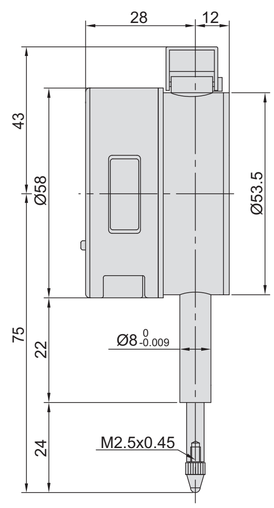
Data output | CR2032

- Button: on/off, zero, inch/mm conversion, measuring direction set, data preset absolute/incremental measurement
- Data output(cable code:200-03 or 200-04)
- Automatic power off

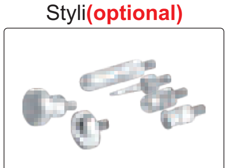
VIDEO

227-010-12

unit: mm

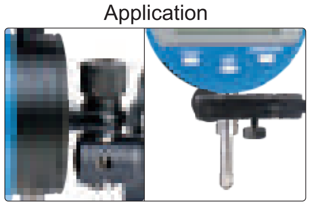


Styli(optional)



Series 270

Application



Resolution 0.001mm/0.00005"

Code	Range	Accuracy(fges)	Hysteresis(fu)	Remark
227-010-02	10mm/0.4"	5µm	2µm	flat back

Resolution 0.01mm/0.0005"

Code	Range	Accuracy(fges)	Hysteresis(fu)	Remark
227-010-12	10mm/0.4"	20µm	10µm	flat back

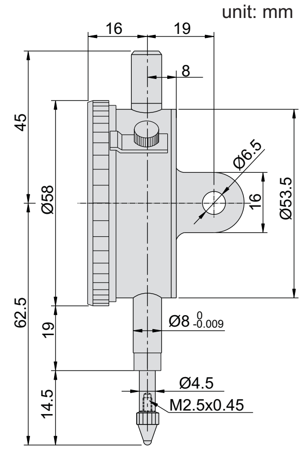
SERIES 222 DIAL INDICATOR

Certificate | Jeweled

- Graduation: 0.001mm
- With limit hands
- Jeweled bearing
- Rang per revolution: 0.2mm
- With lock screw

222-001-01

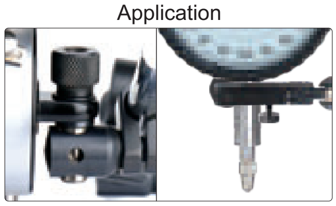
unit: mm



Styli(optional)

Series 270

Application



Code	Range	Back	Scale	Accuracy	Hysteresis
222-001-01	1mm	lug	0-100-0	5µm	2µm
222-001-02	1mm	flat	0-100-0	5µm	2µm

ACCUD

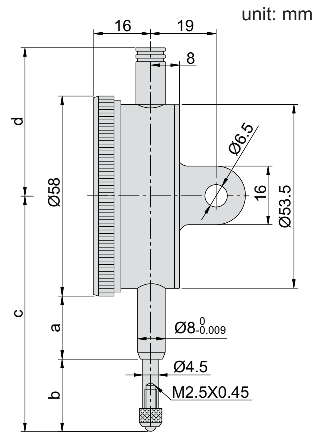
INDICATOR

SERIES 221 DIAL INDICATOR

Certificate
Jeweled

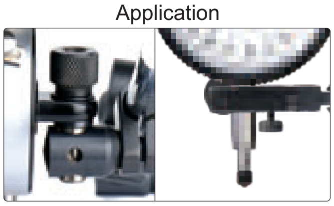
- Graduation: 0.001mm
- With limit hands
- Jeweled bearing
- Rang per revolution: 0.2mm
- Supplied with lug and flat back

221-001-01



Styli(**optional**)

Application



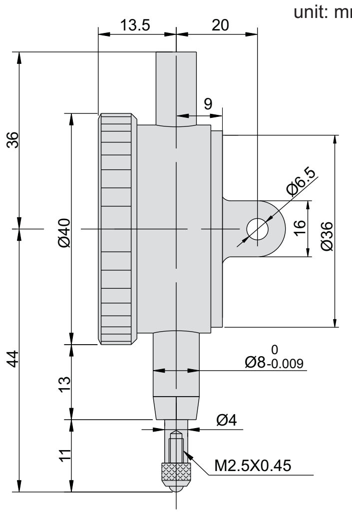
Code	Range	Scale	Accuracy	Hysteresis	a	b	c	d
221-001-01	1mm	0-200	5μm	2μm	15	19.5	62.5	45
221-003-01	3mm	0-200	10μm	4μm	10	21.5	59.5	41.5
221-005-01	5mm	0-200	10μm	4μm	10	21.5	59.5	41.5

228 DIAL INDICATOR

Certificate
Jeweled

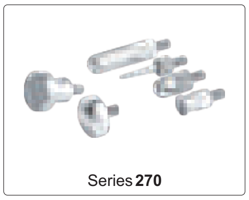
- Bezel: Ø40mm
- Graduation: 0.001mm
- With limit hands
- Jeweled bearing
- Supplied with lug and flat back

228-001-01



Application

Contact points **(optional)**



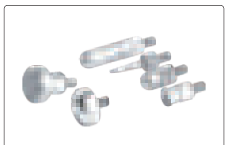
Code	Range	Accuracy	Hysteresis	Range/rev	Scale
228-001-01	1mm	5μm	2μm	0.1mm	0-100

INDICATOR

SERIES 222 DIAL INDICATOR

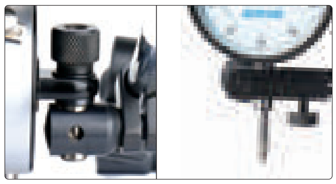
- Graduation: 0.01mm
- With limit hands
- Jeweled bearing
- Range per revolution: 1mm
- With lock screw

Styli(optional)



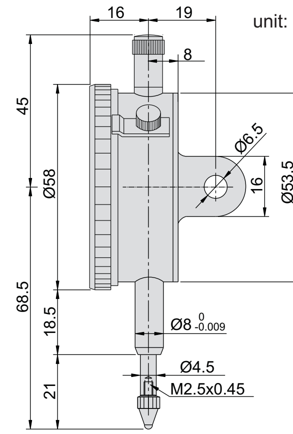
Series 270

Application



222-010-11

unit: mm



Code	Range	Back	Accuracy	Hysteresis	Scale
222-003-11	3mm	lug	14μm	3μm	0-100
222-005-11	5mm	lug	16μm	3μm	0-100
222-010-11	10mm	lug	17μm	3μm	0-100
222-003-12	3mm	flat	14μm	3μm	0-100
222-005-12	5mm	flat	16μm	3μm	0-100
222-010-12	10mm	flat	17μm	3μm	0-100

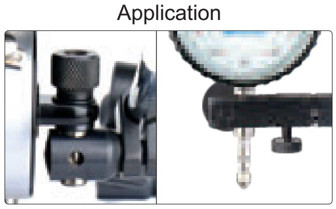
SERIES 223 DIAL INDICATOR

- Graduation: 0.01mm
- With limit hands
- Range per revolution: 1mm
- With lock screw

Styli(optional)

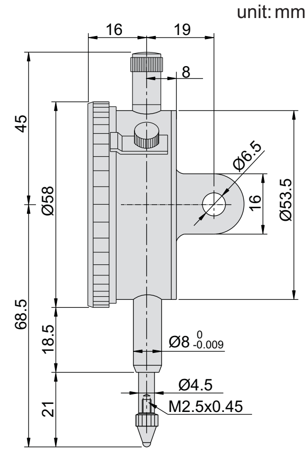
Series 270

Application



223-010-11

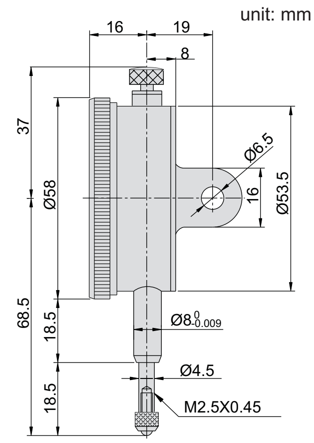
unit: mm



Code	Range	Back	Accuracy	Hysteresis	Scale
223-010-11	10mm	lug	20μm	3μm	0-100
223-010-12	10mm	flat	20μm	3μm	0-100

SERIES 226 SHOCKPROOF DIAL INDICATOR

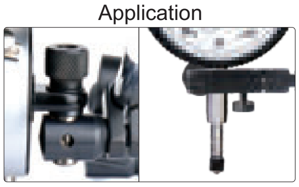
- Shockproof
- Graduation: 0.01mm
- With limit hands
- Jeweled bearing
- Rang per revolution: 1mm
- Supplied with lug and flat back



Styli(optional)

Series 270

Application

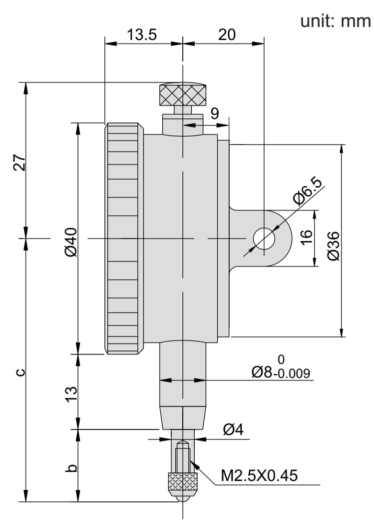


226-010-11

Code	Range	Accuracy	Hysteresis	Scale
226-005-11	5mm	16μm	3μm	0-100
226-010-11	10mm	17μm	3μm	0-100

SERIES 228 DIAL INDICATOR

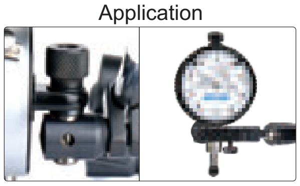
- Bezel: Ø40mm
- Graduation: 0.01mm
- With limit hands
- Jeweled bearing
- Rang per revolution: 1mm
- Supplied with lug and flat back



Styli(optional)

Series 270

Application



228-005-11

Code	Range	Accuracy	Hysteresis	Scale	b	c
228-003-11	3mm	14μm	3μm	0-100	11mm	44mm
228-005-11	5mm	16μm	3μm	0-100	12.5mm	45.5mm

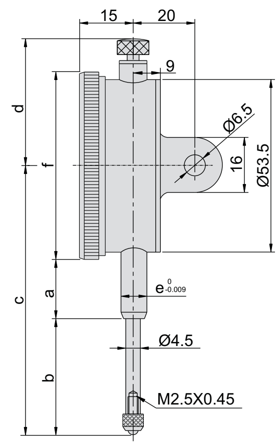
SERIES 229 DIAL INDICATOR

Certificate

- Graduation: 0.01mm
- With limit hands
- Rang per revolution: 1mm
- Supplied with lug and flat back

229-030-11

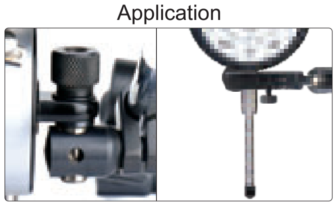
unit: mm



Styli(optional)

Series 270

Application



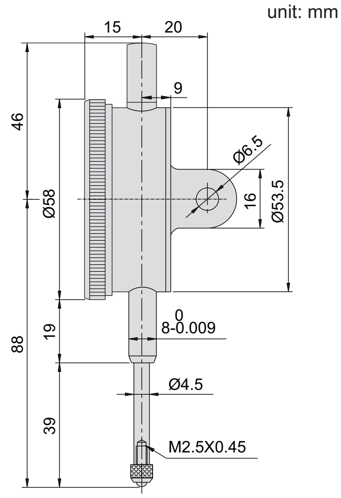
Code	Range	Accuracy	Hysteresis	Scale	a	b	c	d	e	f
229-020-11	20mm	25µm	5µm	0-100	20mm	35mm	83mm	37.5mm	Ø8mm	Ø58mm
229-030-11	30mm	35µm	7µm	0-100	20mm	40mm	88mm	37.5mm	Ø8mm	Ø58mm

229 DIAL INDICATOR

Certificate

- Graduation: 0.01mm
- With limit hands
- Rang per revolution: 1mm
- Supplied with lug and flat back

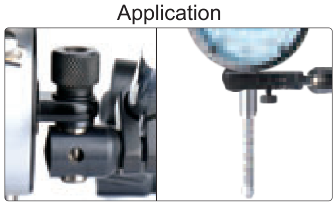
unit: mm



Styli(optional)

Series 270

Application



Code	Range	Accuracy	Hysteresis	Scale
229-025-11	25mm	35µm	7µm	0-100

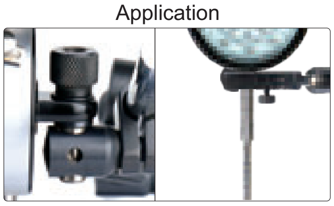
SERIES 229 DIAL INDICATOR

- Graduation: 0.01mm
- With limit hands
- Rang per revolution: 1mm
- Supplied with lug and flat back

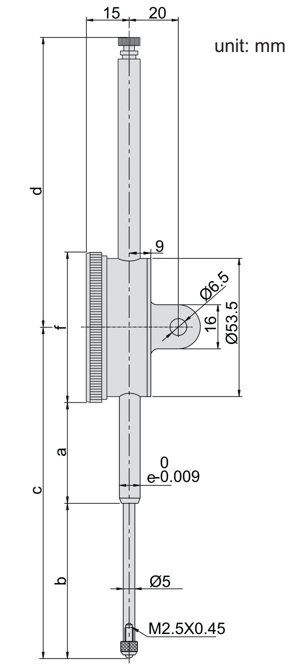
Styli(optional)

Series 270

Application



229-050-21



Code	Range	Accuracy	Hysteresis	Scale	a	b	c	d	e	f
229-050-21*	50mm	40µm	8µm	0-100	40mm	58mm	127mm	108mm	Ø8mm	Ø58mm
229-100-21	100mm	50µm	9µm	0-100	60mm	108mm	207mm	168mm	Ø10mm	Ø78mm

*with calibration certificate

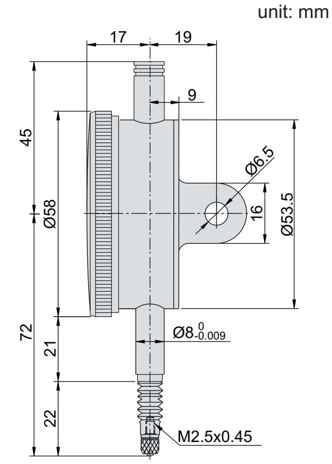
231 WATERPROOF DIAL INDICATOR

Certificate IP54 Jeweled Shock proof

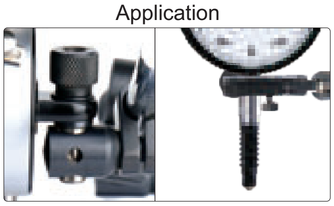
- IP54 dust/waterproof
- Graduation:0.01mm
- Jeweled bearing

Styli(optional)

Series 270



Application

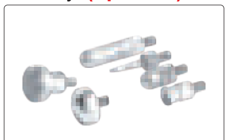


Code	Range	Accuracy(f_{ges})	Hysteresis(f_u)	Range/rev	Dial reading
231-010-11	10mm	17µm	3µm	1mm	0-100

SERIES 231 WATERPROOF DIAL INDICATOR

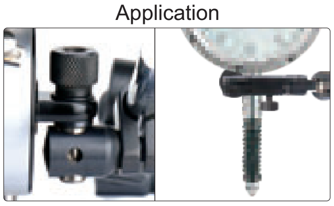
- Meet DIN878
- Graduation:0.01mm
- IP54 dust/waterproof
- Jeweled bearing

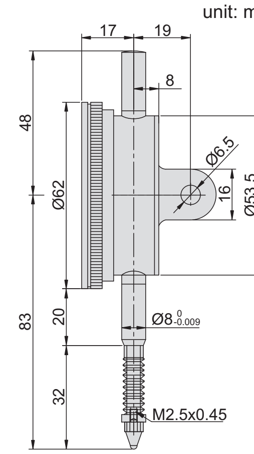
Styli(optional)



Series 270

Application





Code	Range	Accuracy	Hysteresis	Range/rev	Dial reading	Remark
231-010-21	10mm	17μm	3μm	1mm	0-100	lug back
231-010-22	10mm	17μm	3μm	1mm	0-100	flat back

SERIES 232 ONE REVOLUTION DIAL INDICATOR

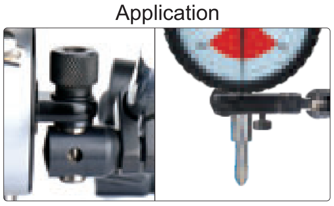
- Shock proof
- Supplied with lug and flat back

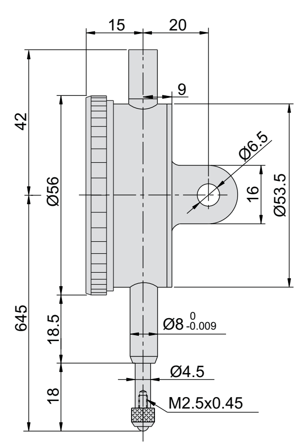
232-001-11

Styli(optional)

Series 270

Application





Code	Range	Graduation	Accuracy	Hysteresis	Dial reading
232-0005-11	0.5mm	0.01mm	9μm	3μm	25-0-25
232-001-11	1mm	0.01mm	9μm	3μm	50-0-50

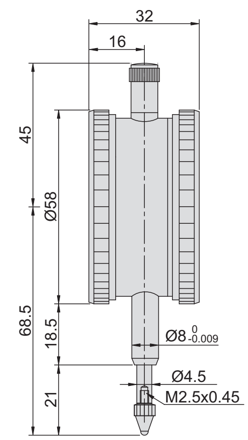
233 DOUBLE FACE DIAL INDICATOR

Certificate | Jeweled

front side

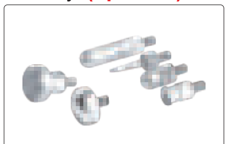
reverse side

unit: mm



- Meet DIN878
- Read from both sides
- Jeweled bearing
- Supplied with limit pointers

Styli(optional)



Series 270

Application

Code	Range	Graduation	Accuracy	Hysteresis	Range/rev	Dial reading
233-010-11	10mm	0.01mm	17μm	3μm	1mm	0-100

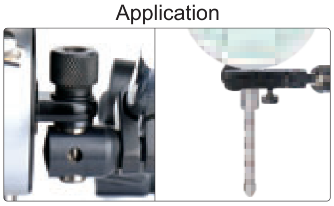
SERIES 230 DIAL INDICATOR

- Supplied with limit pointers and bezel clamp

Styli(optional)

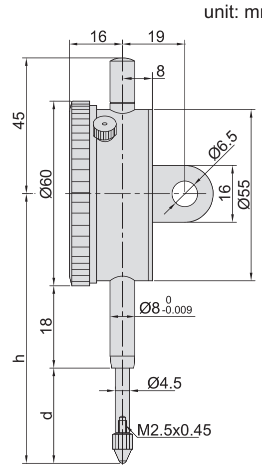
Series 270

Application



230-030-11

unit: mm

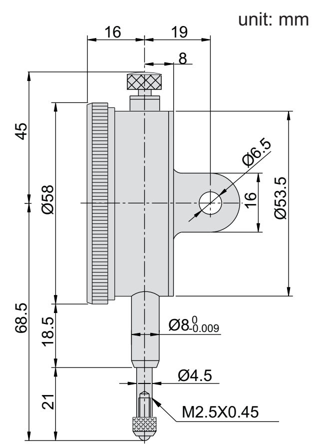


Code	Range	Graduation	Accuracy(fges)	Hysteresis(fu)	Range/rev	Dial reading	Remark	h	d
230-010-11	10mm	0.1mm	40μm	20μm	10mm	0-10mm	lug back	70mm	20mm
230-030-11	30mm	0.1mm	60μm	20μm	10mm	0-10mm	lug back	90mm	40mm

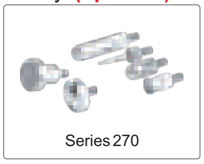
Jeweled Shock proof

291 REVERSE DIAL INDICATOR

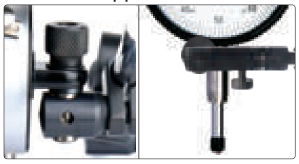
- Shockproof
- Graduation: 0.01mm
- Reverse reading
- With limit hands
- Jeweled bearing
- Rang per revolution: 1mm
- Supplied with lug and flat back



Styli(optional)



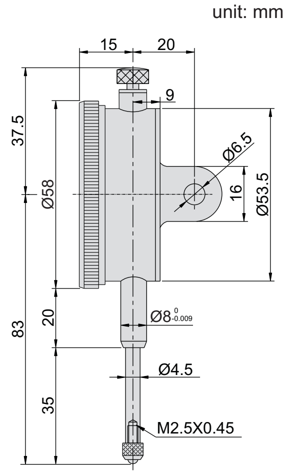
Application



Code	Range	Accuracy	Hysteresis	Scale
291-010-I	10mm	17μm	3μm	0-100

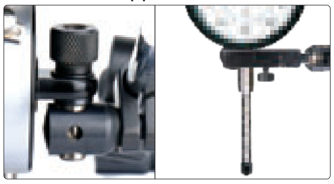
292 REVERSE DIAL INDICATOR

- Graduation: 0.01mm
- Reverse reading
- With limit hands
- Rang per revolution: 1mm
- Supplied with lug and flat back



Styli(optional)

Application



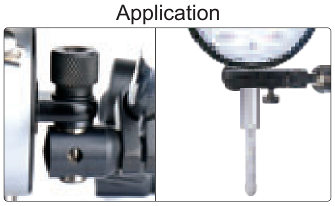
Code	Range	Accuracy	Hysteresis	Scale
292-030-I	30mm	35μm	7μm	0-100

SERIES 225 INCH DIAL INDICATOR

Certificate

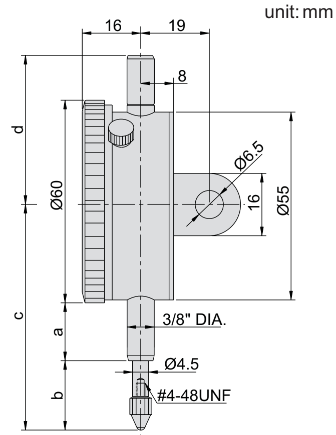
- Supplied with limit hands and bezel clamp
- Lug back

Application



225-025-11

unit: mm



Code	Range	Graduation	Dial reading	Range/rev	Accuracy(fges)	a	b	c	d
225-006-11	0.25"	0.001"	0-100	0.1"	0.004"	20	25	75	46
225-012-11	0.5"	0.001"	0-100	0.1"	0.004"	20	25	75	46
225-025-11	1"	0.001"	0-100	0.1"	0.004"	20	35	85	46
225-050-11	2"	0.001"	0-100	0.1"	0.008"	50	59	139	111

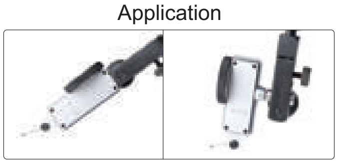
261 PRECISION DIAL TEST INDICATOR

Certificate

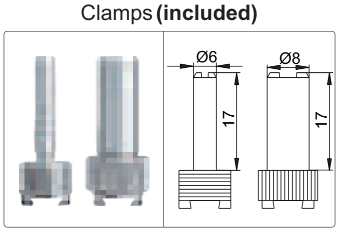
Jeweled

- Meet DIN2270
- Jeweled bearing
- Double scale spacing
- With two clamps: Ø6mm and Ø8mm

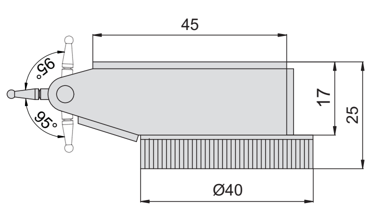
Application

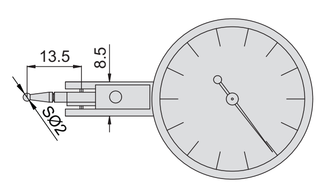


Clamps **(included)**



unit: mm





Code	Range	Bezel(d)	Graduation	Styli	Accuracy	Hysteresis	Scale
261-014-01	0.14mm	Ø40mm	0.001mm	carbide	4μm	2μm	0-70-0

INDICATOR

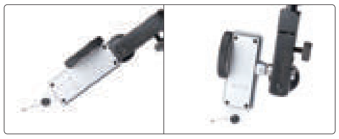
SERIES 261 DIAL TEST INDICATOR

Certificate
Jeweled

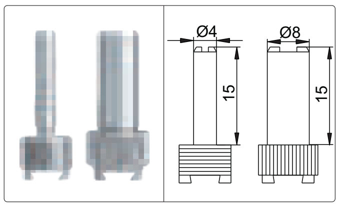
- Jeweled bearing
- Double scale spacing
- Anti-magnetic copper body
- With two clamps: Ø4mm and Ø8mm

261-002-01

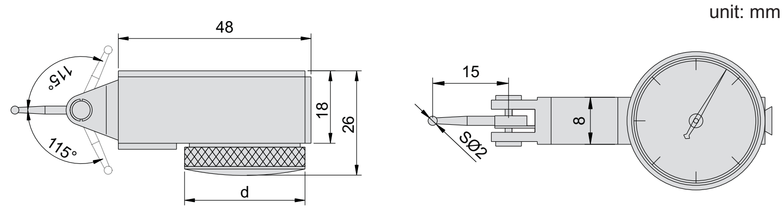
Application



Clamps **(included)**



unit: mm



Code	Range	Bezel(d)	Graduation	Styli	Accuracy	Hysteresis	Scale
261-002-01	0.2mm	Ø33mm	0.002mm	carbide	6μm	2μm	0-100-0
261-002-02	0.2mm	Ø37.5mm	0.002mm	carbide	6μm	2μm	0-100-0

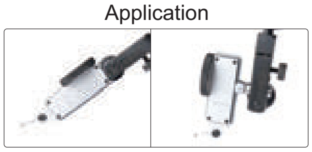
SERIES 261 DIAL TEST INDICATOR

Certificate
Jeweled

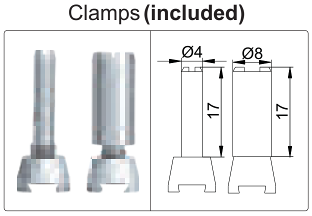
- Jeweled bearing
- Double scale spacing
- Anti-magnetic copper body
- With two clamps: Ø4mm and Ø8mm

261-008-12

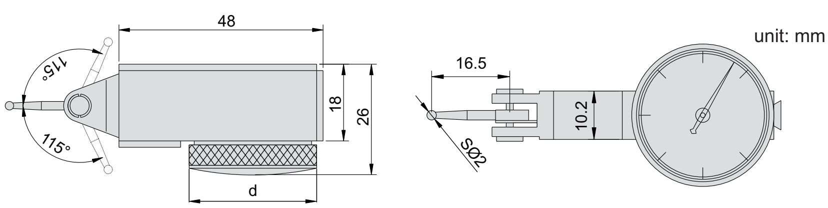
Application



Clamps **(included)**



unit: mm

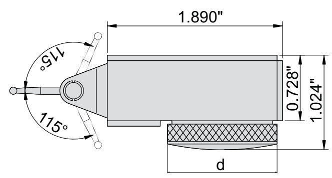


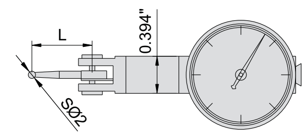
Code	Range	Bezel(d)	Graduation	Styli	Accuracy	Hysteresis	Scale
261-008-11	0.8mm	Ø30mm	0.01mm	carbide	13μm	3μm	0-40-0
261-008-12	0.8mm	Ø37.5mm	0.01mm	carbide	13μm	3μm	0-40-0

SERIES 261 DIAL TEST INDICATOR

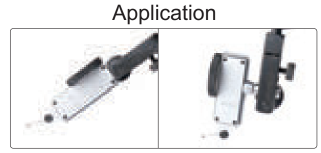
- Jeweled bearing
- Carbide contact point
- Two measuring directions
- Anti magnetic body
- Supplied with two clamps:5/32" DIA and 3/8" DIA

261-030-51

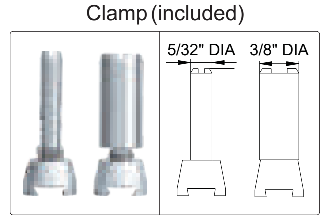




Application



Clamp (included)



Graduation 0.001"

Code	Range	Accuracy	Dial reading	d	L
261-030-11	0.03"	±0.001"	0-15-0	1.181"DIA	0.50"

Graduation 0.0001"

Code	Range	Accuracy	Dial reading	d	L
261-080-01	0.008"	±0.0001"	0-40-0	1.181"DIA	0.563"

Graduation 0.0005"

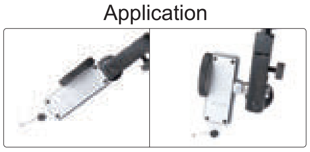
Code	Range	Accuracy	Dial reading	d	L
261-030-51	0.03"	±0.0005"	0-15-0	1.181"DIA	0.50"
261-030-52	0.03"	±0.0005"	0-15-0	1.457"DIA	0.50"

SERIES 263 LONG STYLI DIAL TEST INDICATOR

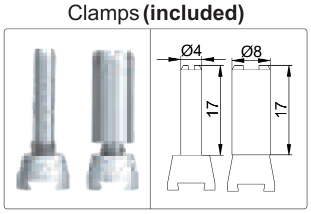
- Jeweled bearing
- Double scale spacing
- Anti-magnetic copper body
- With two clamps: Ø4mm and Ø8mm

263-008-11L

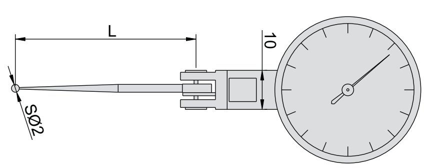
Application

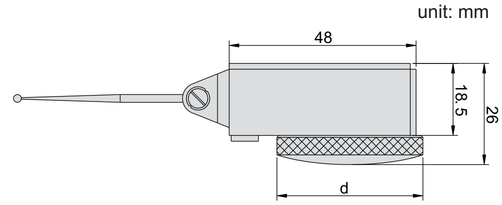


Clamps **(included)**



unit: mm





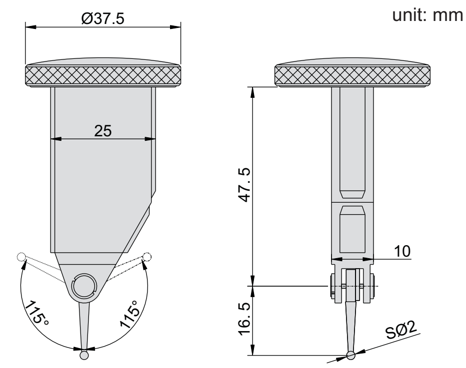
Code	Range	Bezel(d)	Graduation	Styli	Accuracy	Hysteresis	Scale	L
263-008-11	0.8mm	Ø37.5mm	0.01mm	carbide	13µm	3µm	0-40-0	30.5
263-008-11L	0.8mm	Ø37.5mm	0.01mm	ruby	13µm	9µm	0-40-0	46.4

264 BACK PLUNGER TYPE DIAL TEST INDICATOR

Certificate Jeweled

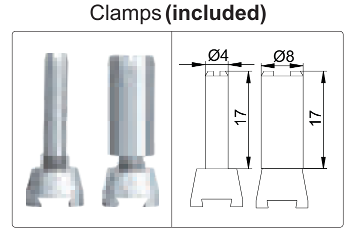
- Jeweled bearing
- Carbide contact point
- Two measuring directions
- Anti magnetic body
- Supplied with two clamps: diameter Ø4mm and Ø8mm
- Optional accessory: styli

unit: mm



Application

Clamps **(included)**



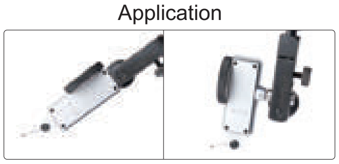
Code	Range	Graduation	Accuracy(fges)	Hysteresis(fu)	Dial Reading
264-008-11	0.8mm	0.01mm	13µm	3µm	0-40-0

265 DIAL TEST INDICATOR

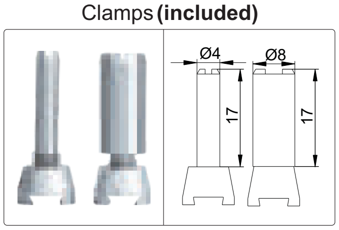
Certificate Jeweled

- Jeweled bearing
- Carbide contact point
- Two measuring directions
- Anti magnetic body
- Supplied with two clamps: diameter Ø4mm and Ø8mm
- Optional accessory: styli

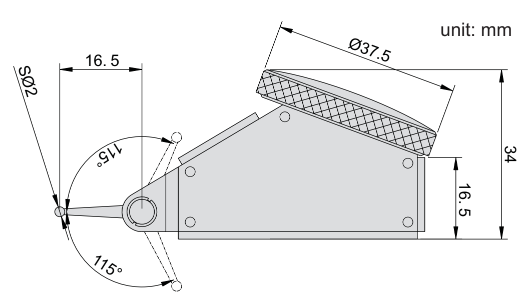
Application



Clamps **(included)**



unit: mm



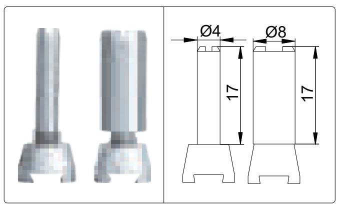
Code	Range	Graduation	Accuracy(fges)	Hysteresis	Dial Reading
265-008-11	0.8mm	0.01mm	13µm	3µm	0-40-0

266 LARGE RANGE DIAL TEST INDICATOR

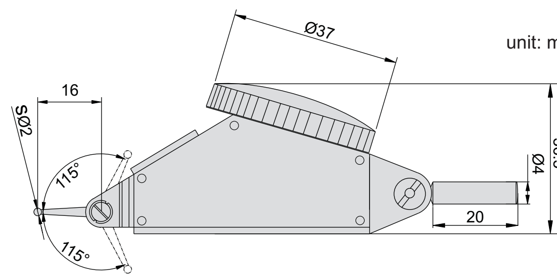
Certificate Jeweled

- Jeweled bearing
- Carbide contact point
- Two measuring directions
- Anti magnetic body
- Supplied with two clamps: diameter Ø4mm and Ø8mm
- Optional accessory: styli

Clamps **(included)**



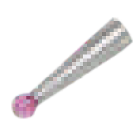
unit: mm



Code	Range	Graduation	Accuracy	Hysteresis	Dial reading
266-016-11	1.6mm	0.01mm	25µm	8µm	0-40-0

SERIES 260 STYLI FOR DIALTEST INDICATOR

260-002-02

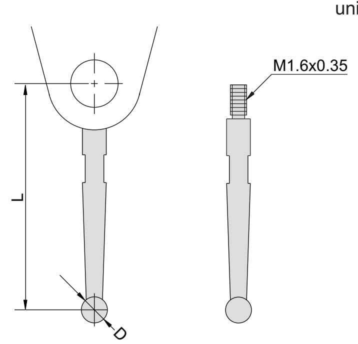


260-010-01
(For 261-008-11 and 261-008-12)

260-009-01
(For 261-002-01 and 261-002-02)

Code	For products	Tip material	D(mm)	L(mm)
260-001-01	261-008-11 261-008-12 266-016-11 264-008-11 265-008-11	steel	SØ1	16.5
260-002-02		carbide	SØ2	16.5
260-003-02		carbide	SØ3	16.5
260-010-01		ruby	SØ2	16.5
260-009-01	261-002-01 261-002-02	ruby	SØ2	15
260-010-02	263-008-11	carbide	SØ2	30.5
260-010-03	263-008-11L	ruby	SØ2	46.4

unit: mm

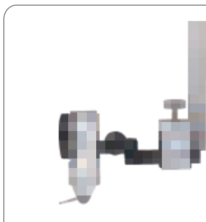


SERIES 267 HOLDER FOR INDICATOR

- Use as holder for dial/digital indicators, dial test indicators and height gages

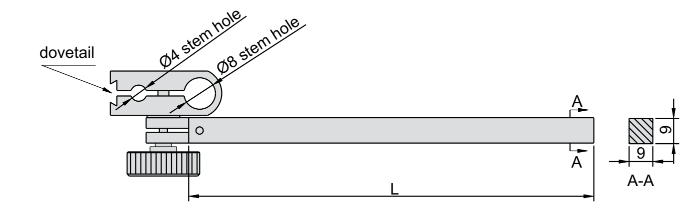
267-100-01

Application(optional)

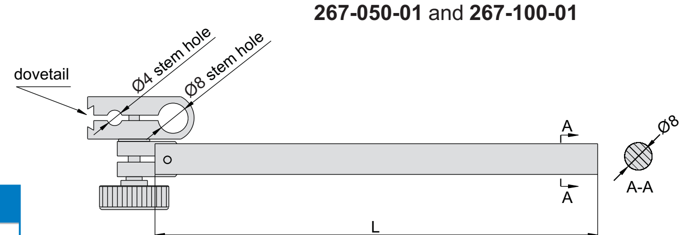


For series 261/267

For series 267/222



267-050-01 and **267-100-01**



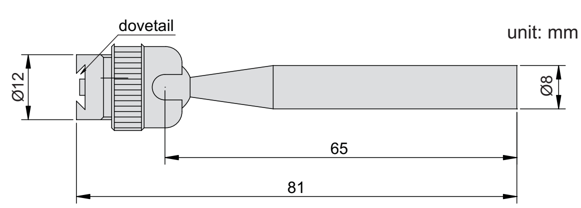
267-115-02

Code	Section size	Size(L)
267-050-01	9x9mm	50mm
267-100-01	9x9mm	100mm
267-115-02	Ø8mm	115mm

268 UNIVERSAL HOLDER FOR DIAL TEST INDICATOR

- Universal head

Application

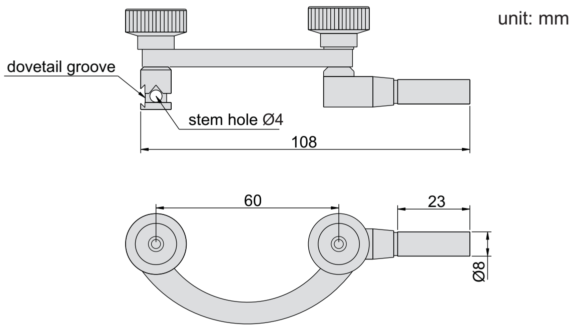


Code	Section size
268-055-01	Ø8mm

269 DIAL TEST INDICATOR CENTERING HOLDER

- Center cylinders or holes on a machine tool

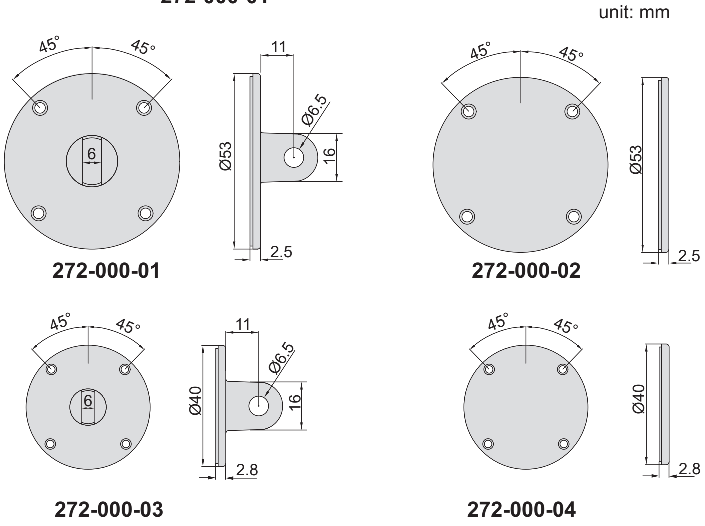
Application



Code
269-060-01

SERIES 272 LUG AND FLAT BACK

272-000-01



Code	Tpye	Material
272-000-01	lug	metal
272-000-02	flat	plastic
272-000-03	lug	metal
272-000-04	flat	plastic

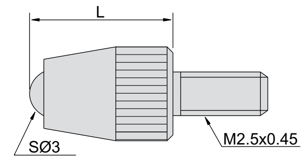
Ball Point

270-001-03

type A

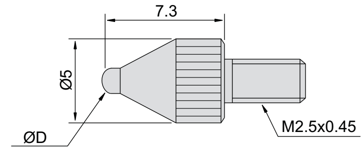
Code	Material	L(mm)
270-001-01	carbide	7.3
270-001-02	ceramic	7.3
270-001-03	carbide	8.3
270-001-04	carbide	12.1
270-001-05	carbide	14
270-001-06	carbide	15
270-001-07	ceramic	15
270-001-08	carbide	17
270-001-09	carbide	19.3
270-001-10	carbide	20
270-001-11	ceramic	20
270-001-12	carbide	22
270-001-13	carbide	25
270-001-14	ceramic	25
270-001-15	carbide	30
270-001-16	ceramic	30

type A



type B

unit: mm



type B

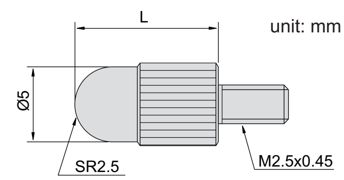
Code	Material	ØD(mm)
270-001-21	steel	1
270-001-22	carbide	1.5
270-001-23	carbide	1.8
270-001-24	carbide	2.5
270-001-25	carbide	4

Shell Type Point

Code	Material	L(mm)
270-002-01	steel	5
270-002-02	steel	10
270-002-03	steel	15
270-002-04	steel	20
270-002-05	steel	25
270-002-06	steel	30

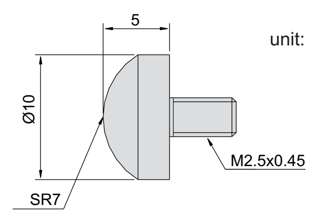
270-002-02

unit: mm



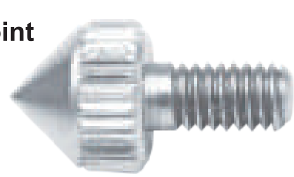
Spherical Point

unit: mm



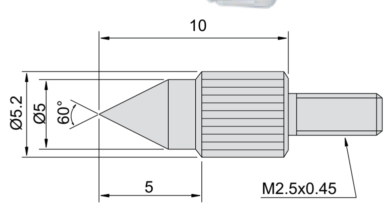
Code	Material
270-003-01	steel

Conical Point

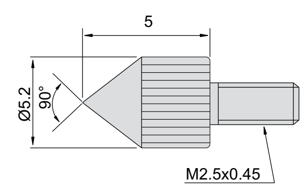


270-004-02

unit: mm



270-004-01



270-004-02

Code	Material
270-004-01	steel
270-004-02	steel

Flat Point

type A

Code	Material	L
270-005-01	steel	8
270-005-02	steel	10

type B

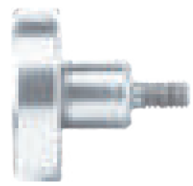
Code	Material	ØD
270-005-11	steel	10
270-005-12	steel	15
270-005-13	steel	20
270-005-14	steel	25
270-005-15	steel	30

type C

Code	Material	ØD
270-010-16	ceramic	10

type D

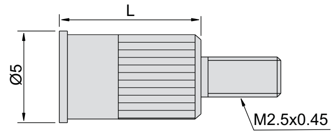
Code	Material
270-005-21	carbide



270-005-12

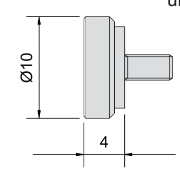
270-010-16

type A

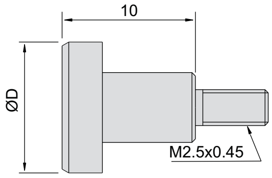


type C

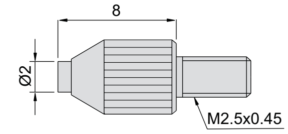
unit: mm



type B



type D

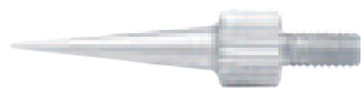


Needle Point

type A

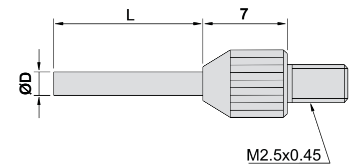
Code	Material	ØD	L
270-006-01	steel	0.45	3
270-006-02	steel	0.45	5
270-006-03	carbide	1	3
270-006-04	carbide	1	5
270-006-05	carbide	1	8
270-006-06	carbide	1	10
270-006-07	carbide	1	20
270-006-08	carbide	1	40
270-006-09	carbide	1.5	5
270-006-10	carbide	1.5	10
270-006-11	carbide	1.5	13
270-006-12	carbide	1.5	20
270-006-13	carbide	1.5	40
270-006-14	carbide	2	8
270-006-15	carbide	2	18
270-006-16	carbide	2	28
270-006-17	carbide	2	40

270-006-16



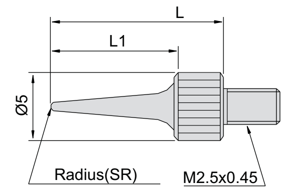
270-006-22

type A



type B

unit: mm



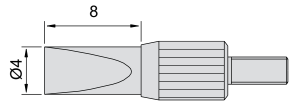
type B

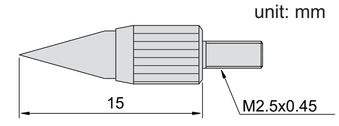
Code	Material	L1	L	SR
270-006-21	steel	11	15	0.4
270-006-22	steel	13	17	0.2
270-006-23	steel	21	25	0.4
270-006-24	steel	31	35	0.4

Knife Edge Point

Code	Material
270-007-01	steel

unit: mm



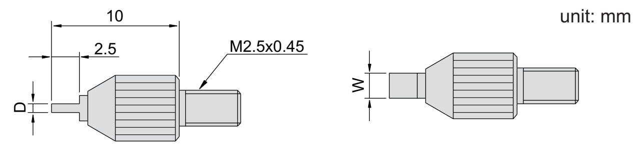


INDICATOR

SERIES 270 CONTACT POINTS

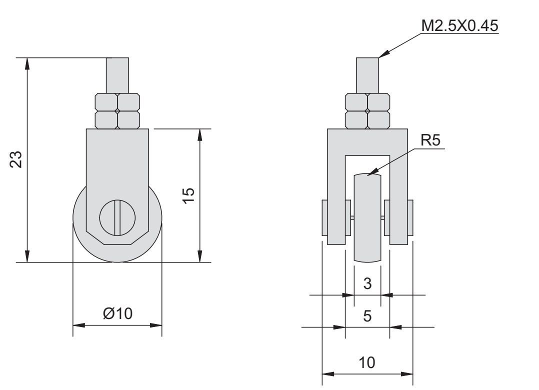
Blade Point

270-008-03



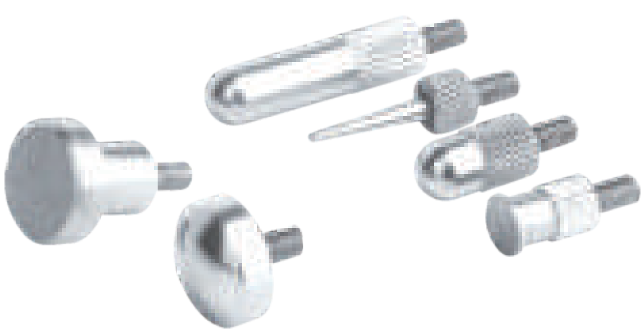
Code	Material	D	W
270-008-01	steel	0.4	2
270-008-02	steel	0.6	2
270-008-03	steel	1	4

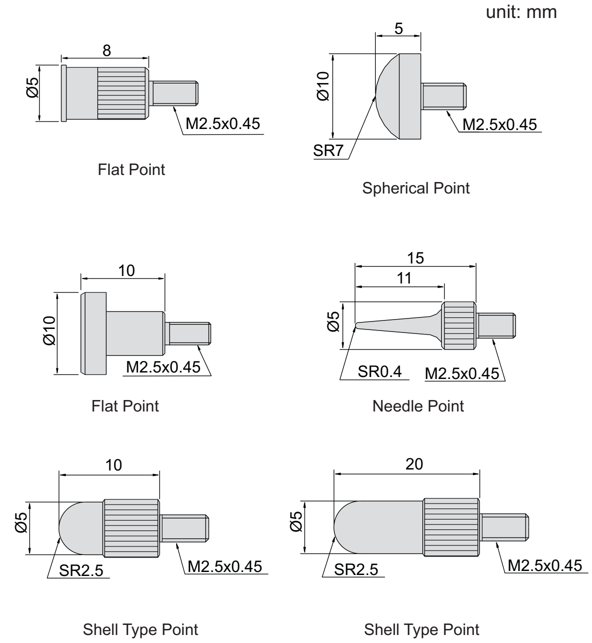
270 ROLLER POINT



Code	Material of measuring face
270-009-01	steel

270 POINT SET





Code	Material of measuring face
270-100-06	steel

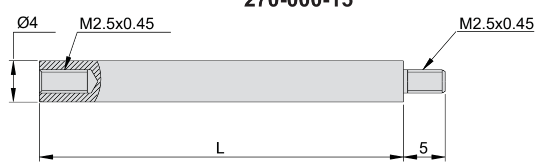
ACCUD

INDICATOR

SERIES 270 EXTENSION ROD FOR CONTACT POINTS

270-000-15

unit: mm



Code	Material	L
270-000-01	steel	10
270-000-02	steel	15
270-000-03	steel	20
270-000-04	steel	25
270-000-05	steel	30
270-000-06	steel	35

Code	Material	L
270-000-07	steel	40
270-000-08	steel	45
270-000-09	steel	50
270-000-10	steel	55
270-000-11	steel	60
270-000-12	steel	65

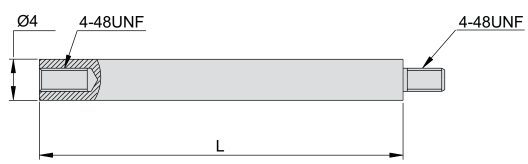
Code	Material	L
270-000-13	steel	70
270-000-14	steel	75
270-000-15	steel	80
270-000-16	steel	90
270-000-17	steel	100

SERIES 270 EXTENSION ROD FOR CONTACT POINTS

- For series 225 Inch indicator

270-000-04I

unit: mm



Code	Material	L
270-000-01I	steel	1"
270-000-02I	steel	2"
270-000-03I	steel	3"
270-000-04I	steel	4"

271 SPINDLE LIFT KNOB

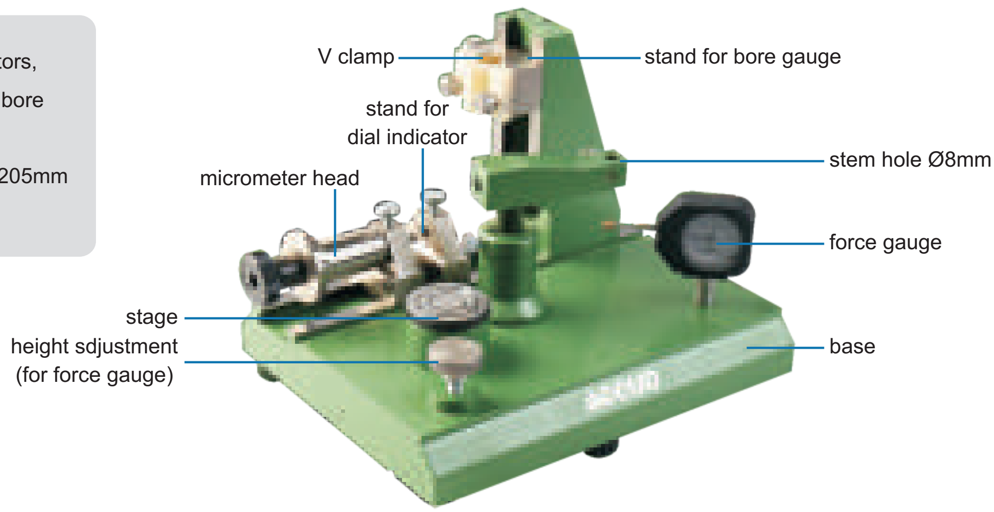
- For dial/digital indicators with spindle diameter Ø4.5mm or Ø5mm

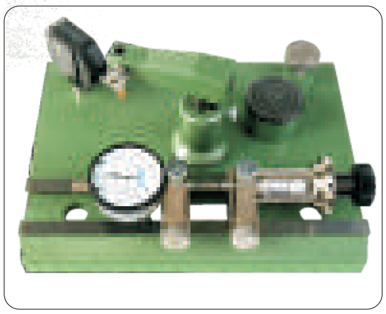
Code
271-045-01

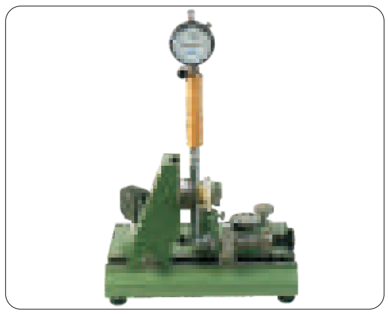
INDICATOR

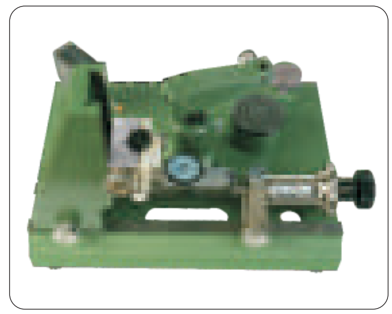
499 DIAL INDICATOR TESTER

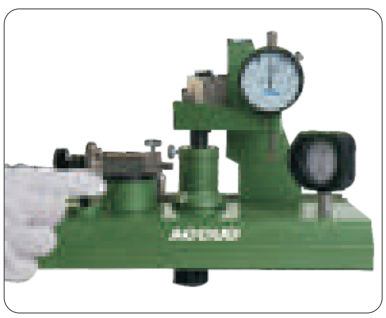
- To calibrate dial indicators, test indicators and dial bore gauges
- Dimension: 270x210x205mm
- Weight: 11kg

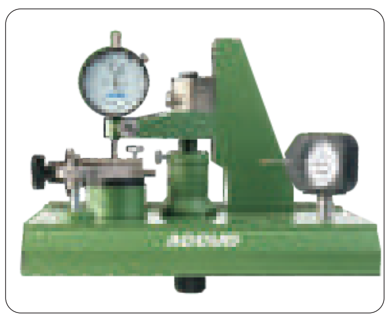


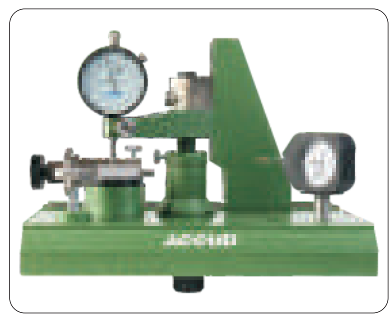

inspect accuracy of dial indicators (range 0-25mm)

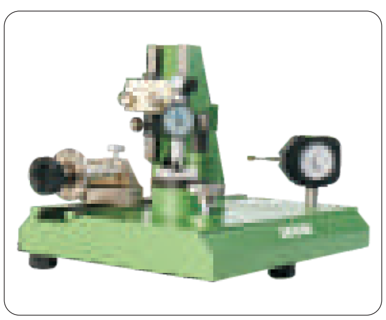

inspect accuracy of dial bore gauges (range 6-450mm)


inspect accuracy of test indicators


check force of dial indicators


check repeatability of dial indicators


check the effect of lateral force on accuracy of dial indicators


check the effect of lateral force on accuracy of test indicators

Micrometer head

Range	Sampling interval	Accuracy	Hysteresis
0-25mm	0.1mm	4μm(0-25mm), 3μm(any section 10mm), 2μm(any section 1mm)	1μm

Force gauge

Range	Graduation	Accuracy
0-1.6N	0.05N	±5%

Stage

Diameter	Flatness	Roughness
0-1.6N	1μm	0.05μm

Half round gauge block (included)

Dimension	Parallelism
10mm	1μm


half round gauge block (included)

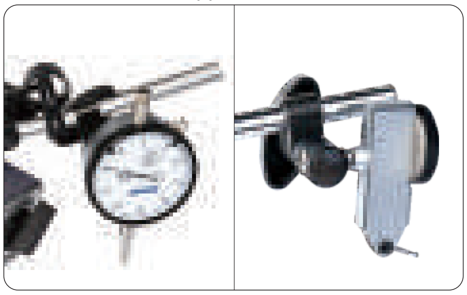
Code
499-025-01

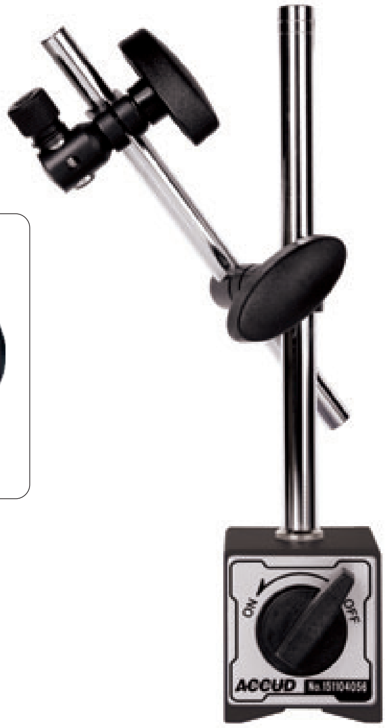
ACCUD

SERIES 281 MAGNETIC STAND

- For dial/digital indicators and dial test indicators
- V-block base

Application

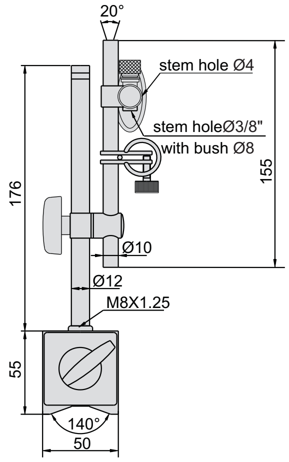




281-060-02

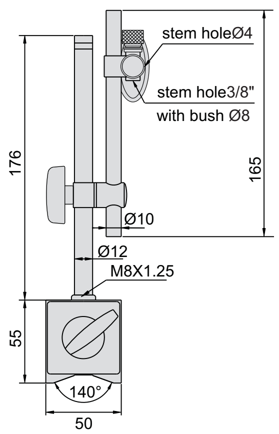
281-060-01

unit: mm



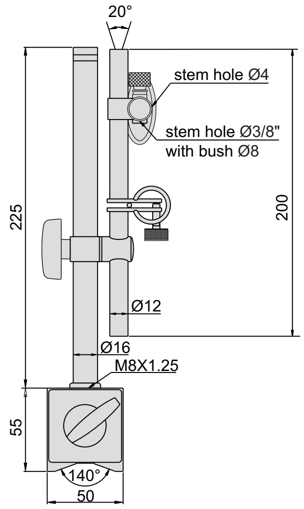
60(L)x50(W)

281-060-01



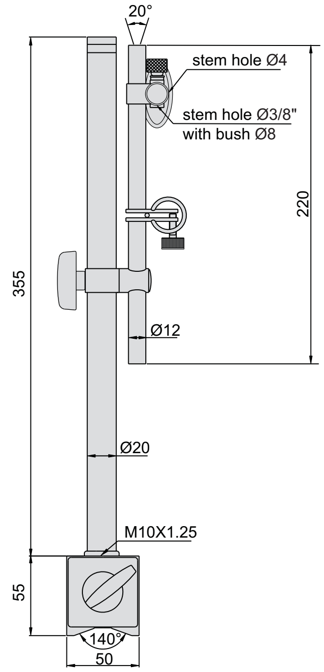
60(L)x50(W)

281-060-02



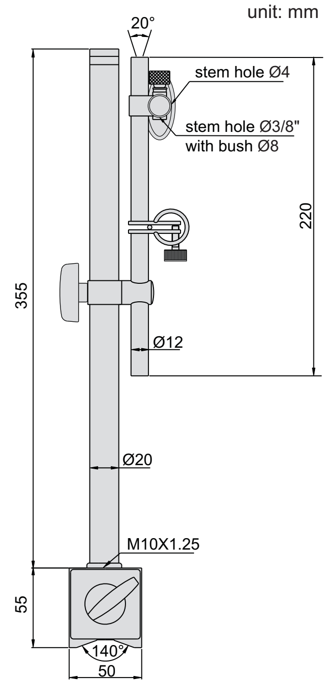
60(L)x50(W)

281-080-01



75(L)x50(W)

281-100-01



117(L)x50(W)

281-130-01

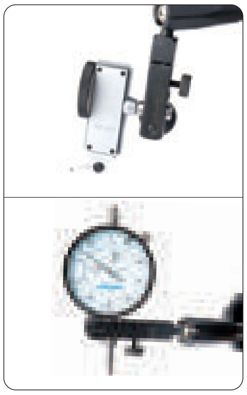
Code	Stem hole	Magnetic force	Fine adjustment
281-060-01	Ø8mm, Ø4mm, 3/8"	60kgf	With
281-060-02	Ø8mm, Ø4mm, 3/8"	60kgf	Without
281-080-01	Ø8mm, Ø4mm, 3/8"	80kgf	With
281-100-01	Ø8mm, Ø4mm, 3/8"	100kgf	With
281-130-01	Ø8mm, Ø4mm, 3/8"	130kgf	With

INDICATOR

SERIES 282 UNIVERSAL MAGNETIC STAND

- For dial/digital indicators and dial test indicators
- Stem hole: Ø8mm
- With find adjustment and dovetail
- V-block base

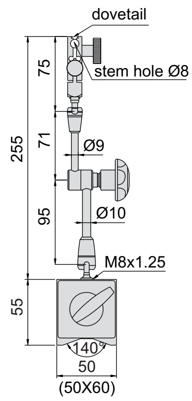
Application



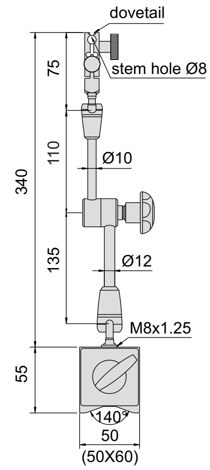
Code	Magnetic force
282-080-01	80kgf
282-080-02	80kgf
282-100-01	100kgf

282-080-01

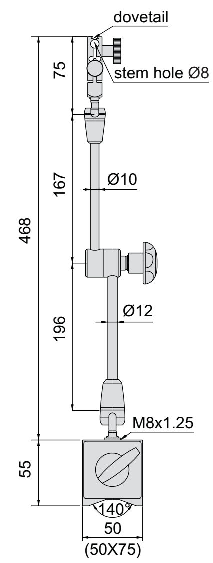
unit: mm



282-080-01



282-080-02



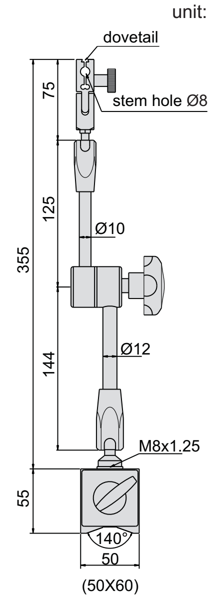
282-100-01

283 UNIVERSAL MAGNETIC STAND

- Economic type
- For dial/digital indicators and dial test indicators
- Stem hole: Ø8mm
- With find adjustment and dovetail
- V-block base

Application

unit: mm

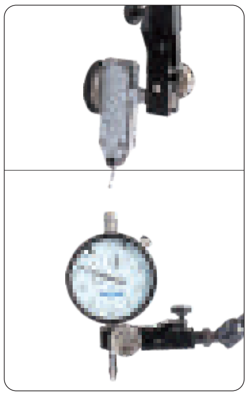


Code	Magnetic force
283-080-01	80kgf

SERIES 279 UNIVERSAL MAGNETIC STAND

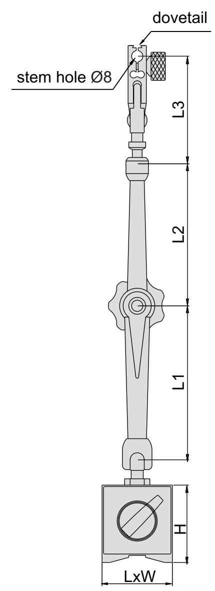
- For dial/digital indicators and dial test indicators
- Aluminum arm
- With fine adjustment and dovetail
- V-block base

Application



279-080-01

unit: mm

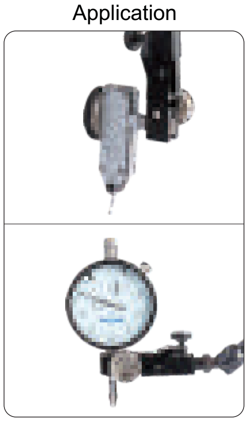


Code	Magnetic force	Base (LxWxH)	L1	L2	L3
279-030-01	30kgf	35x30x35	56	51	73
279-080-01	80kgf	60x50x55	110	101	76
279-100-01	100kgf	73x50x55	147	130	76

SERIES 278 UNIVERSAL MAGNETIC STAND

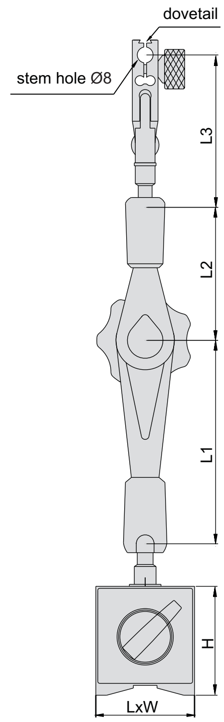
- For dial/digital indicators and dial test indicators
- Super strong arm
- With fine adjustment and dovetail
- V-block base

Application



278-080-01

unit: mm

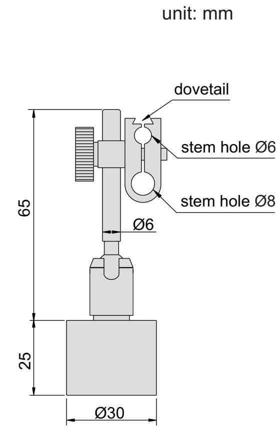


Code	Magnetic force	Base (LxWxH)	L1	L2	L3
278-050-01	50kgf	40x40x40	62	52	79
278-080-01	80kgf	60x50x55	100	67	81
278-100-01	100kgf	73x50x55	145	95	81

288 MINI MAGNETIC STAND

- For dial test indicators

Application

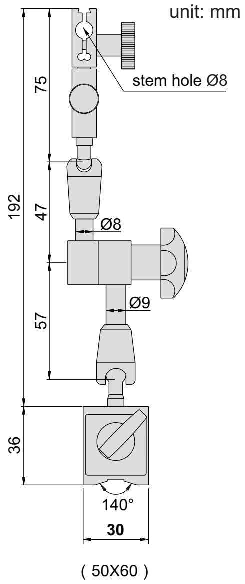


Code	Magnetic force	Stem hole
288-010-01	10kgf	Ø8mm, Ø6mm

286 MINI MAGNETIC STAND

- For dial test indicators
- Stem hole: Ø8mm
- With find adjustment and dovetail
- V-block base

Application

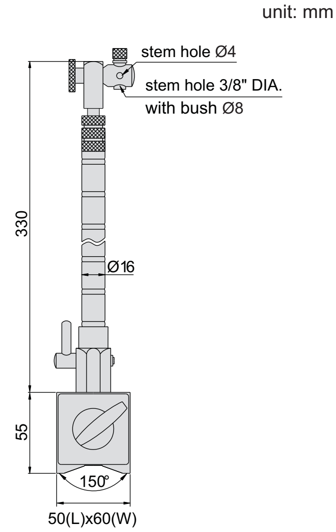


Code	Magnetic force	Stem hole
286-040-01	40kgf	Ø8mm

285 FLEX ARM MAGNETIC STAND

- For dial test indicators

Application

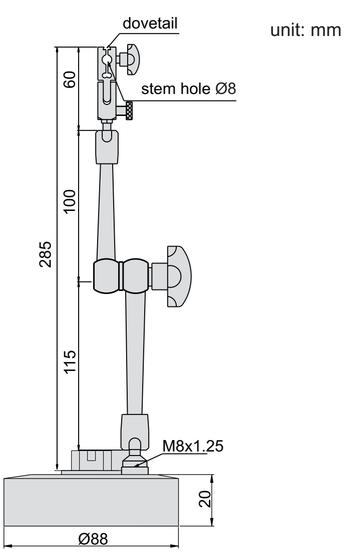


Code	Magnetic force	Applicable holding stem
285-080-01	80kgf	Ø8mm, Ø4mm, 3/8" DIA.

284 VACUUM STAND

- To be used on granite plates
- For digital/dial indicators and dial test indicators

Application



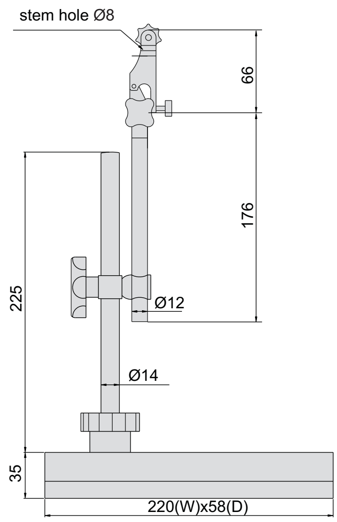
Code	Applicable holding stem	Remark
284-080-01	Ø8mm	with fine adjustment and dovetail groove

287 UNIVERSAL STAND

- For dial/digital indicators and dial test indicators

Application

unit: mm

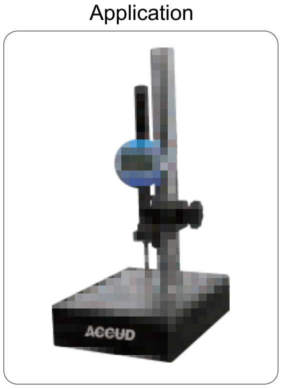


Code	Applicable holding stem	Remark
287-001-01	Ø8mm, Ø4mm	with fine adjustment

SERIES 289 INDICATOR STAND WITH GRANITE BASE

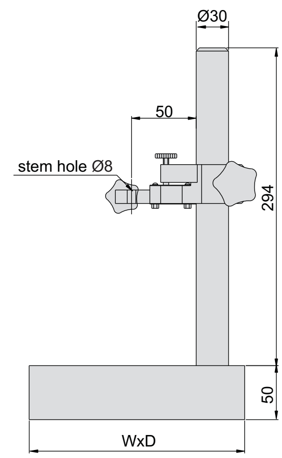
- Holder vertical travel: 150mm
- Fine adjustment range: 2mm

Application



289-008-01

unit: mm



Code	Stem hole	Base flatness	Base size (WxD)
289-008-01	Ø8mm	3.2μm	200x150mm
289-012-01	Ø8mm	3.2μm	300x200mm

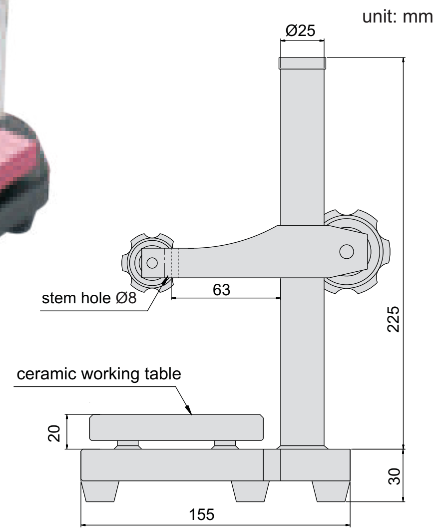
INDICATOR

SERIES 290 INDICATOR STAND WITH CERAMIC BASE

- Working table is made of ceramic
- Holder vertical travel: 150mm

290-080-01

290-100-01



Code	Stem hole	Ceramic flatness	Ceramic size
290-080-01	Ø8mm	1.5µm	Ø80mm

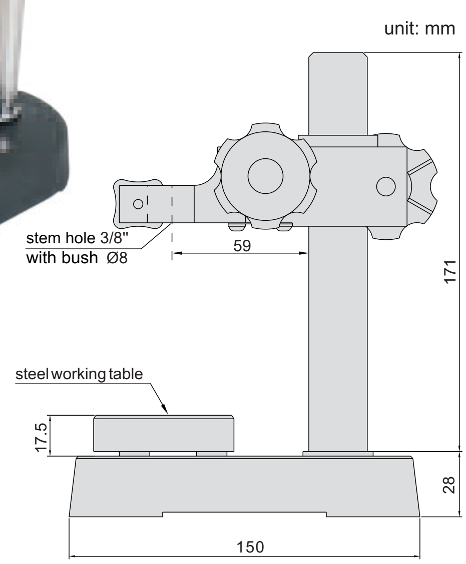
Code	Stem hole	Ceramic flatness	Ceramic size
290-100-01	Ø8mm	1.5µm	100x100mm

SERIES 294 INDICATOR STAND

- Working table is made of steel
- Holder vertical travel: 100mm
- With fine adjustment: ±1.5mm
- Working table surface hardness is 60±2HRC

294-080-12

294-060-11



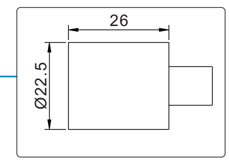
Code	Working table flatness	Working table size
294-060-11	1.5µm	Ø60mm

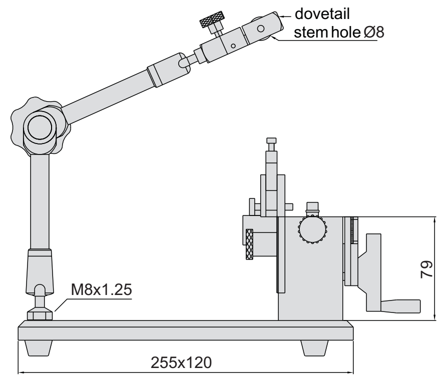
Code	Working table flatness	Working table size
294-080-12	1.5µm	80x80mm

660 CONCENTRICITY GAUGE

- Optional accessories: dial test indicator (code: 261-002-01 or 261-002-02) and Mini magnetic stand (code: 286-040-01)

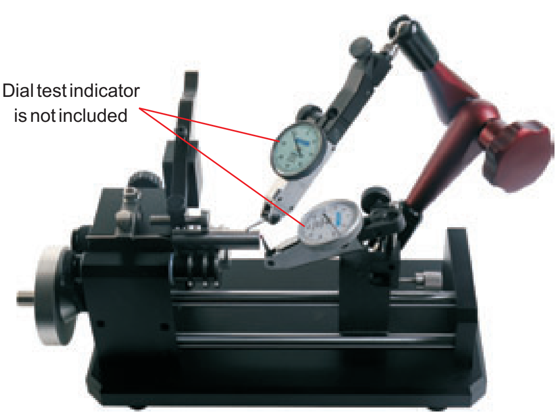
unit: mm



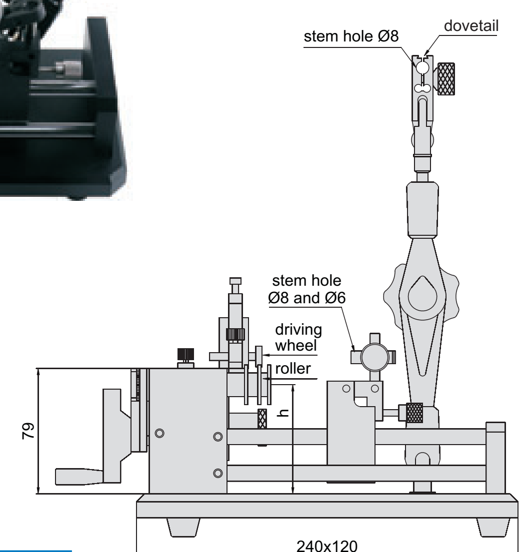


Code	Applicable diameter	Accuracy
660-001-01	Ø3-35mm	0.002mm

661 QUICK POSITIONING CONCENTRICITY GAUGE



unit: mm



- Quick positioning, suitable for mass measurement
- Optional accessories: dial test indicator (code: 261-002-01 or 261-002-02)

Code	Diameter range	Workpiece length	Accuracy	Center height (h)
661-002-01	Ø1-35mm	15-100mm	2μm	70mm

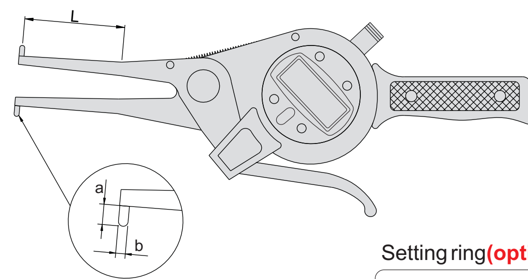
SERIES 410 DIGITAL INTERNAL CALIPER GAUGE

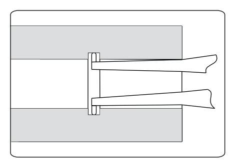
- Measure the internal dimension
- Resolution: 0.01mm/0.0005"

410-055-11

Code	Range	Accuracy	a	b	L
410-035-11	15-35mm/0.6-1.4"	±0.04mm	3	Ø3	50
410-035-11L	15-35mm/0.6-1.4"	±0.04mm	3	Ø3	200
410-055-11	35-55mm/1.4-2.2"	±0.04mm	6	Ø3	80
410-055-11L	35-55mm/1.4-2.2"	±0.04mm	6	Ø3	250
410-075-11	55-75mm/2.2-3"	±0.04mm	8	Ø3	90
410-075-11L	55-75mm/2.2-3"	±0.04mm	8	Ø3	250
410-095-11	75-95mm/3-3.8"	±0.04mm	8	Ø3	100
410-095-11L	75-95mm/3-3.8"	±0.04mm	8	Ø3	250
410-115-11	95-115mm/3.8-4.6"	±0.04mm	10	Ø3.2	120
410-115-11L	95-115mm/3.8-4.6"	±0.04mm	10	Ø3.2	250
410-135-11	115-135mm/4.6-5.4"	±0.04mm	10	Ø3.2	120
410-135-11L	115-135mm/4.6-5.4"	±0.04mm	10	Ø3.2	250

unit: mm





Setting ring **(optional)**

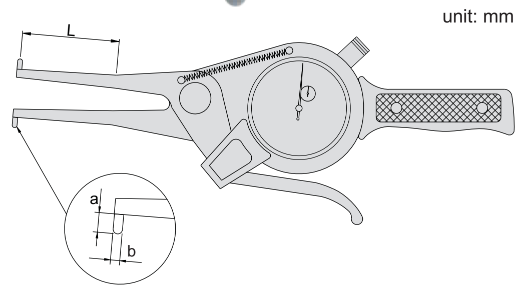
SERIES 411 INTERNAL DIAL CALIPER GAUGE

- Measure the internal dimension
- Graduation: 0.01mm

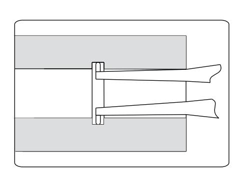
411-035-11

Code	Range	Accuracy	a	b	L
411-035-11	15-35mm	±0.04mm	3	Ø3	50
411-035-11L	15-35mm	±0.04mm	3	Ø3	200
411-055-11	35-55mm	±0.04mm	6	Ø3	80
411-055-11L	35-55mm	±0.04mm	6	Ø3	250
411-075-11	55-75mm	±0.04mm	8	Ø3	90
411-075-11L	55-75mm	±0.04mm	8	Ø3	250
411-095-11	75-95mm	±0.04mm	8	Ø3	100
411-115-11	95-115mm	±0.04mm	10	Ø3.2	120
411-135-11	115-135mm	±0.04mm	10	Ø3.2	120
411-155-11	135-155mm	±0.04mm	10	Ø3.4	190
411-175-11	155-175mm	±0.04mm	10	Ø3.4	190
411-195-11	175-195mm	±0.04mm	10	Ø3.4	190
411-215-11	195-215mm	±0.04mm	10	Ø3.4	190

unit: mm



Setting ring **(optional)**

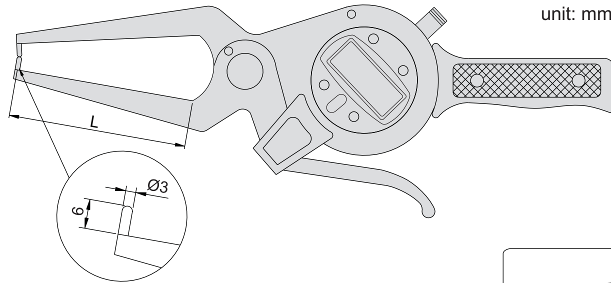


SERIES 420 DIGITAL EXTERNAL CALIPER GAUGE

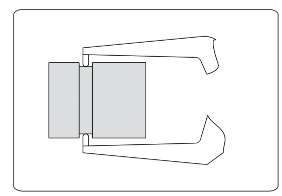
- Measure the external dimension
- Resolution: 0.01mm/0.0005"

420-020-11

unit: mm



Code	Range	Accuracy	L
420-020-11	0-20mm/0-0.8"	±0.04mm	60
420-040-11	20-40mm/0.8-1.6"	±0.04mm	60
420-060-11	40-60mm/1.6-2.4"	±0.04mm	55
420-080-11	60-80mm/2.4-3.2"	±0.04mm	55
420-100-11	80-100mm/3.2-4"	±0.04mm	55

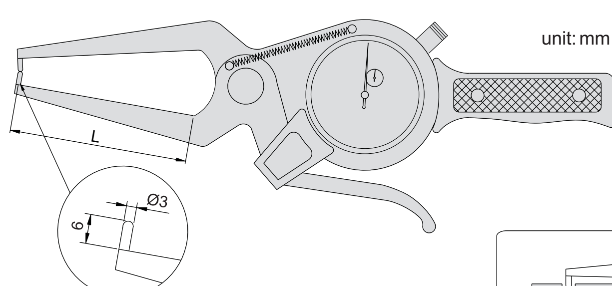


SERIES 421 EXTERNAL DIAL CALIPER GAUGE

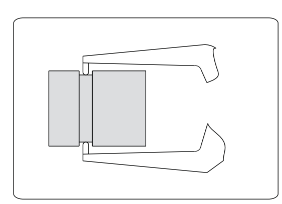
- Measure the external dimension
- Graduation: 0.01mm

421-020-11

unit: mm



Code	Range	Accuracy	L
421-020-11	0-20mm	±0.04mm	60
421-040-11	20-40mm	±0.04mm	60
421-060-11	40-60mm	±0.04mm	55
421-080-11	60-80mm	±0.04mm	55
421-100-11	80-100mm	±0.04mm	55



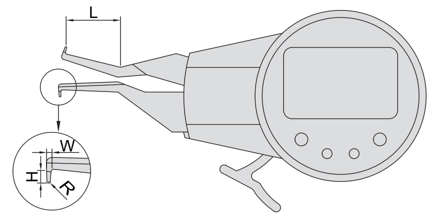
SERIES 412 DIGITAL INTERNAL CALIPER GAUGE

CR2032

- Resolution:0.005mm/0.0002"
- Reading in digit and analog
- Display can be rotated by 170°
- Button function: tolerance Go and No-Go display, data preset, max./min. measurement, data holding, inch/metric conversion, absolute/incremental measurement
- CR2032 battery, automatic power off

412-015-11

unit: mm



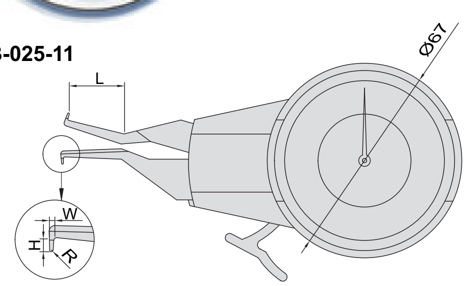
Code	Range	Repeatability	Accuracy	L	H	W	R
412-015-11	5-15mm	0.01mm	±0.03mm	20	2	1.5	R0.3
412-025-11	5-25mm	0.01mm	±0.03mm	35	1.5	1.0	R0.3
412-030-11	10-30mm	0.01mm	±0.03mm	55	5.5	2.5	R0.5
412-040-11	20-40mm	0.01mm	±0.03mm	80	6.0	3.0	R0.5
412-050-11	30-50mm	0.01mm	±0.03mm	80	8.0	3.0	R0.5
412-060-11	40-60mm	0.01mm	±0.03mm	80	8.0	3.0	R0.5

display can be rotated by 170°

SERIES 413 INTERNAL DIAL CALIPER GAUGE

413-025-11

unit: mm



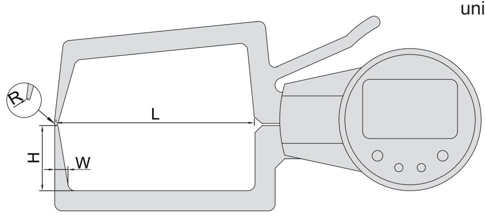
Code	Range	Graduation	Accuracy	L	H	W	R
413-015-11	5-15mm	0.01mm	±0.03mm	20	2	1.5	R0.3
413-025-11	5-25mm	0.01mm	±0.03mm	35	1.5	1.0	R0.3
413-030-11	10-30mm	0.01mm	±0.03mm	55	5.5	2.5	R0.5
413-040-11	20-40mm	0.01mm	±0.03mm	80	6.0	3.0	R0.5
413-050-11	30-50mm	0.01mm	±0.03mm	80	8.0	3.0	R0.5
413-060-11	40-60mm	0.01mm	±0.03mm	80	8.0	3.0	R0.5

SERIES 422 DIGITAL EXTERNAL CALIPER GAUGE

- Resolution:0.005mm/0.0002"
- Reading in digit and analog
- Display can be rotated by 170°
- Button function: tolerance Go and No-Go display, data preset, max./min. measurement, data holding, inch/metric conversion, absolute/incremental measurement
- CR2032 battery, automatic power off

422-020-11

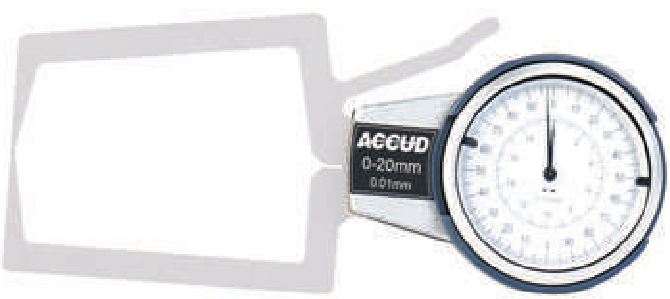
unit: mm



Code	Range	Repeatability	Accuracy	L	H	W	R
422-020-11	0-20mm	0.01mm	±0.03mm	80	25	6.5	R0.5
422-030-11	10-30mm	0.01mm	±0.03mm	80	25	6.5	R0.5
422-040-11	20-40mm	0.01mm	±0.03mm	80	25	6.5	R0.5
422-050-11	30-50mm	0.01mm	±0.03mm	80	25	6.5	R0.5
422-060-11	40-60mm	0.01mm	±0.03mm	80	25	6.5	R0.5

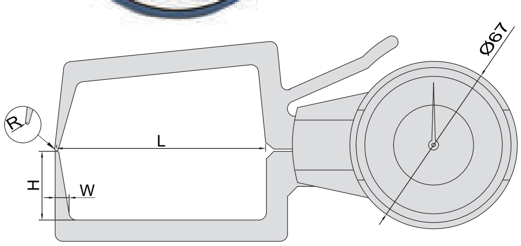
display can be rotated by 170°

SERIES 423 EXTERNAL DIAL CALIPER GAUGE



423-020-11

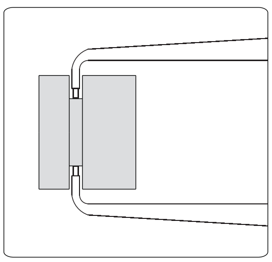
unit: mm



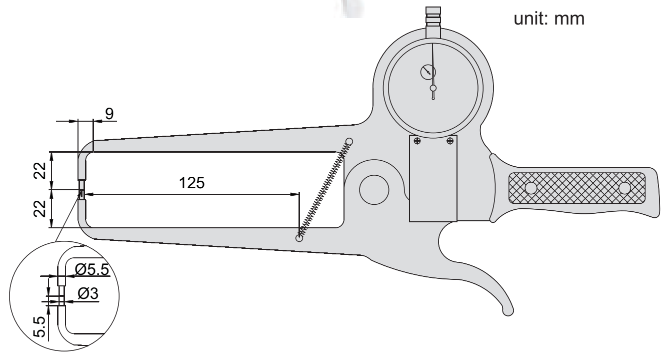
Code	Range	Graduation	Accuracy	L	H	W	R
423-020-11	0-20mm	0.01mm	±0.03mm	80	25	6.5	R0.5
423-030-11	10-30mm	0.01mm	±0.03mm	80	25	6.5	R0.5
423-040-11	20-40mm	0.01mm	±0.03mm	80	25	6.5	R0.5
423-050-11	30-50mm	0.01mm	±0.03mm	80	25	6.5	R0.5
423-060-11	40-60mm	0.01mm	±0.03mm	80	25	6.5	R0.5

428 EXTERNAL DIAL CALIPER GAUGE

- Measure the external dimension



unit: mm



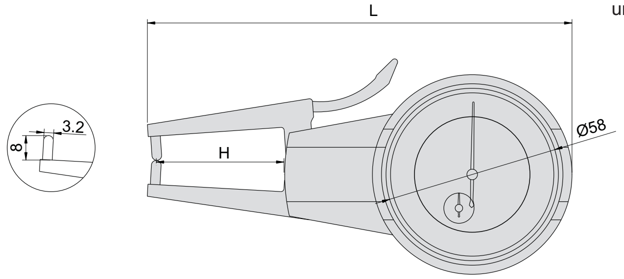
Code	Range	Graduation	Accuracy
428-050-05	0-50mm	0.05mm	±0.1mm

SERIES 425 EXTERNAL DIAL CALIPER GAUGE

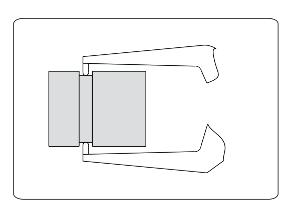
- Measure the external dimension

425-010-11

unit: mm



Code	Range	Graduation	Accuracy	L	H
425-010-11	0-10mm	0.01mm	±0.03mm	140mm	41mm
425-020-11	0-20mm	0.01mm	±0.03mm	192mm	92mm



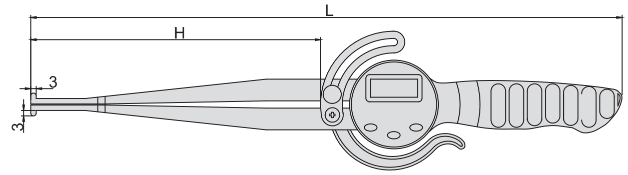
SERIES 419 DIGITAL INTERNAL CALIPER GAUGE

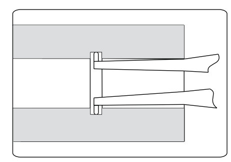
CR2032

- For measuring the internal dimension
- Buttons: on/off, zero, data preset, mm/inch, data hold
- With fraction reading
- Automatic power off

419-008-11

unit: mm





Code	Range	Resolution	Accuracy	L	H
419-006-11	12.7-165mm/0.5-6.5"	0.1mm/0.005"/1/64"	0.2mm/0.01"	252	85
419-008-11	12.7-216mm/0.5-8.5"	0.1mm/0.005"/1/64"	0.3mm/0.02"	327	160

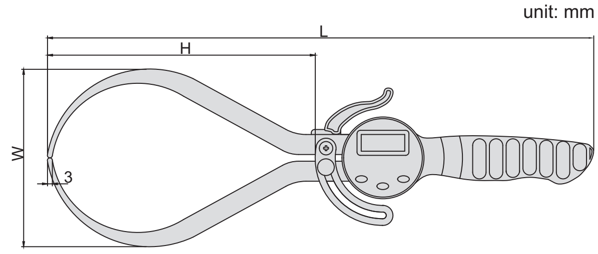
SERIES 429 DIGITAL EXTERNAL CALIPER GAUGE

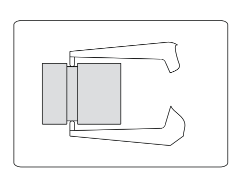
CR2032

- For measuring the thickness
- Buttons: on/off, zero, data preset, mm/inch, data hold
- With fraction reading
- Automatic power off

429-008-11

unit: mm





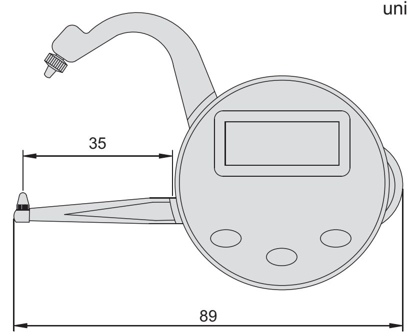
Code	Range	Resolution	Accuracy	L	H	W
429-006-11	0-150mm/0-6"	0.1mm/0.005"1/64"	0.2mm/0.01"	273	105	75
429-008-11	0-200mm/0-8"	0.1mm/0.005"1/64"	0.3mm/0.02"	328	160	106

457 DIGITAL THICKNESS GAUGE

CR2032

- Buttons: on/off, zero, unit (mm/in/fraction), data hold
- Automatic power off

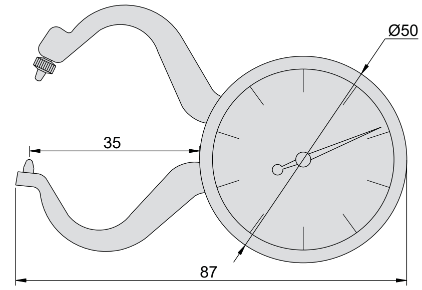
unit: mm



Code	Range	Resolution	Accuracy	Repeatability
457-001-01	0-25.4mm/0-1"	0.01mm, 0.001", 1/64"	0.05mm	0.02mm

451 THICKNESS GAUGE

unit: mm

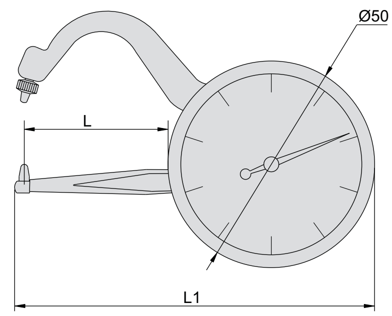


Code	Range	Graduation	Accuracy
451-010-11	0-10mm	0.05mm	±0.1mm

SERIES 452 THICKNESS GAUGE

452-010-11

unit: mm

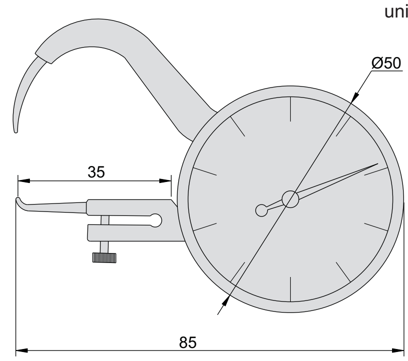


Code	Range	Graduation	Accuracy	L	L1
452-010-11	0-10mm	0.05mm	±0.1mm	35	85
452-010-12	0-10mm	0.05mm	±0.1mm	60	110

453 THICKNESS GAUGE WITH POINTED TIPS

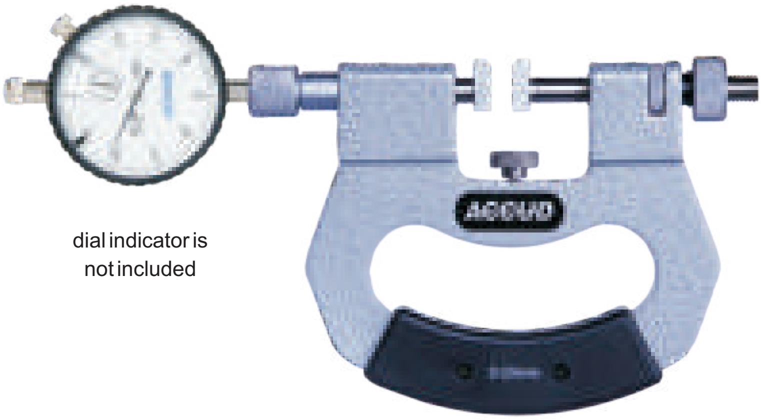
- Pointed tips can be used for small grooves and recesses

unit: mm



Code	Range	Graduation	Accuracy
453-010-11	0-10mm	0.05mm	±0.1mm

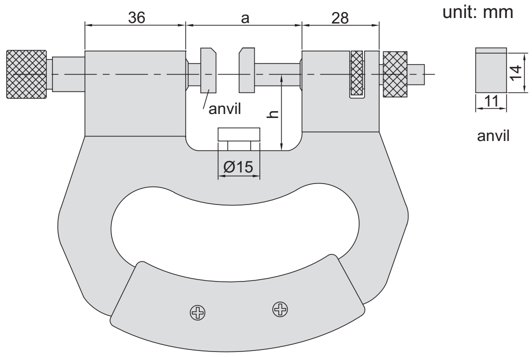
SERIES 431 DIAL SNAP GAUGE



dial indicator is
not included

431-025-11

- For quick Go/No-Go judgment of diameter of cylinders and shafts
- Anvil retracting stroke: 3mm
- Measuring force: 6-9N
- Carbide measuring faces
- Front edges of anvils are chamfered for easy workpiece insertion
- Optional indicators:
  --dial indicator, range 10mm, graduation 0.01mm (**code 222-010-11**)
  --digital indicator, range 12.7mm/0.5", resolution 0.001mm/0.00005" (**code 211-010-03**)
  --digital indicator, range 12.7mm/0.5", resolution 0.01mm/0.0005" (**code 211-010-13**)



Code	Range	a	h
431-025-11	0-25mm	42	20
431-050-11	25-50mm	69	32.5
431-075-11	50-75mm	94	45
431-100-11	75-100mm	119	57.5
431-125-11	100-125mm	144	70
431-150-11	125-150mm	169	82.5
431-175-11	150-175mm	194	95
431-200-11	175-200mm	219	107
431-225-11	200-225mm	244	120
431-250-11	225-250mm	269	132
431-275-11	250-275mm	294	145
431-300-11	275-300mm	319	157

Optional indicators (optional)

222-010-11

211-010-03

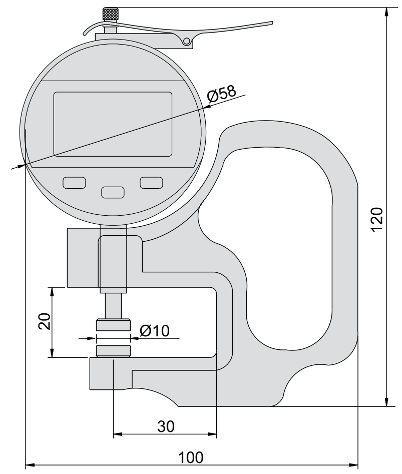
211-010-13

SERIES 441 THICKNESS GAUGE

Data output CR2032

- Ceramic anvil
- Buttons: on/off, zero, mm/inch
- Automatic power off
- Data output(cable code:200-03 or 200-04)

unit: mm



Resolution 0.001mm/0.00005"

Code	Range	Accuracy
441-010-01	0-10mm/0-0.4"	±0.005mm

441-010-11

Resolution 0.01mm/0.0005"

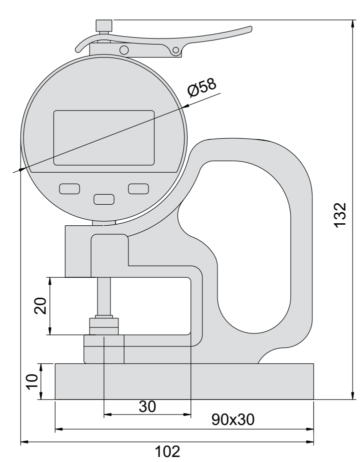
Code	Range	Accuracy
441-010-11	0-10mm/0-0.4"	±0.02mm

441 THICKNESS GAUGE

Data output CR2032

- Ceramic spindle tip and anvil
- Buttons: on/off, zero, mm/inch, ABS
- Automatic power off
- Data output(cable code:200-03 or 200-04)

unit: mm



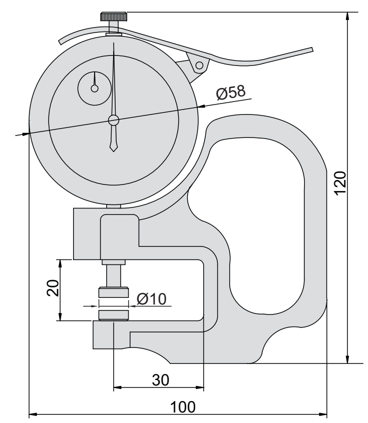
Code	Range	Resolution	Accuracy
441-010-11B	0-10mm/0-0.4"	0.01mm/0.0005"	±0.02mm

443 THICKNESS GAUGE

Jeweled

- Ceramic spindle tip and anvil

unit: mm

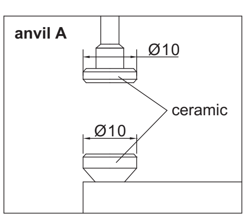


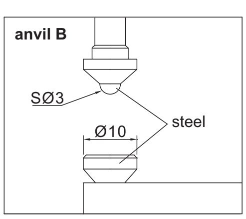
Code	Range	Graduation	Accuracy
443-001-01	0-1mm	0.001mm	±0.005mm

SERIES 443 THICKNESS GAUGE

Jeweled

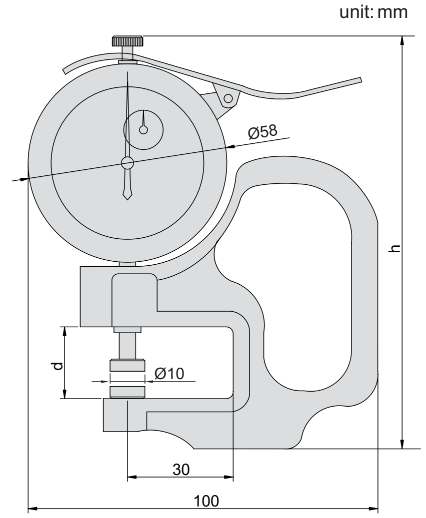
- Graduation: 0.01mm





443-010-11

unit: mm

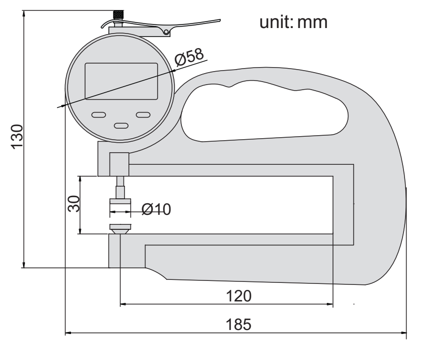


Code	Range	Accuracy	Anvil	d	h
443-010-11	0-10mm	±0.02mm	A	20	120
443-010-12	0-10mm	±0.02mm	B	20	120
443-030-11	0-30mm	±0.02mm	A	38	140

460 DIGITAL THICKNESS GAUGE

Data output | CR2032

- Ceramic spindle tip and anvil
- Buttons: on/off, zero, mm/inch, ABS
- Automatic power off
- Data output(cable code:200-03 or 200-04)

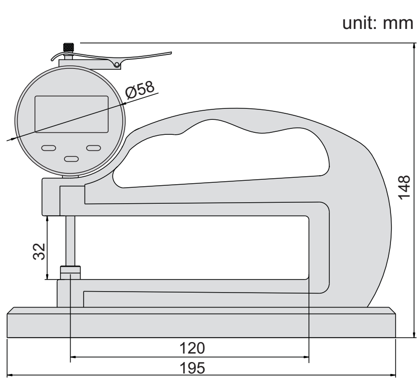


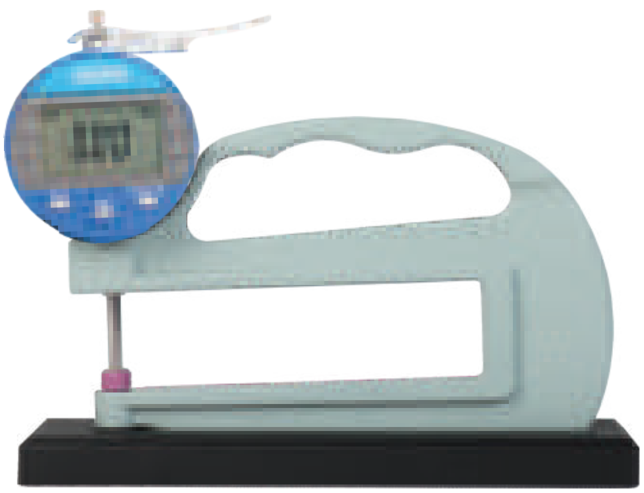
Code	Range	Resolution	Accuracy
460-010-11	0-10mm/0-0.4"	0.01mm/0.0005"	±0.02mm

460 DIGITAL THICKNESS GAUGE

Data output | CR2032

- Ceramic spindle tip and anvil
- Buttons: on/off, zero, mm/inch, ABS
- Automatic power off
- Data output(cable code:200-03 or 200-04)
- With metal base



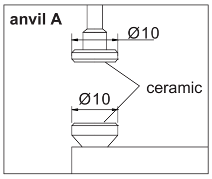


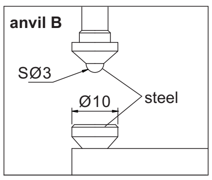
Code	Range	Resolution	Accuracy
460-010-11B	0-10mm/0-0.4"	0.01mm/0.0005"	±0.02mm

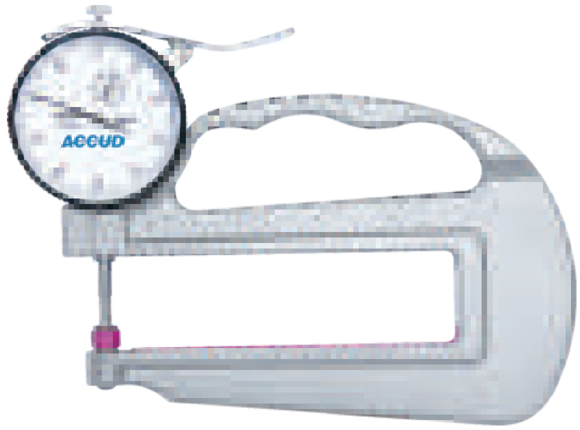
SERIES 444 THICKNESS GAUGE

Jeweled

- Large throat depth, for large workpiece measurement
- Graduation: 0.01mm

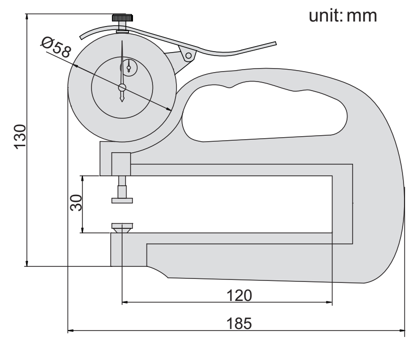






444-010-11

unit: mm

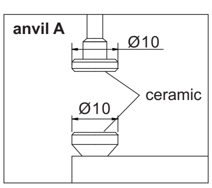


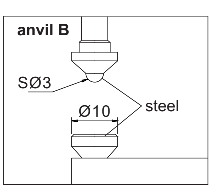
Code	Range	Accuracy	Anvil
444-010-11	0-10mm	±0.02mm	A
444-020-11	0-20mm	±0.03mm	A
444-010-12	0-10mm	±0.02mm	B
444-020-12	0-20mm	±0.03mm	B

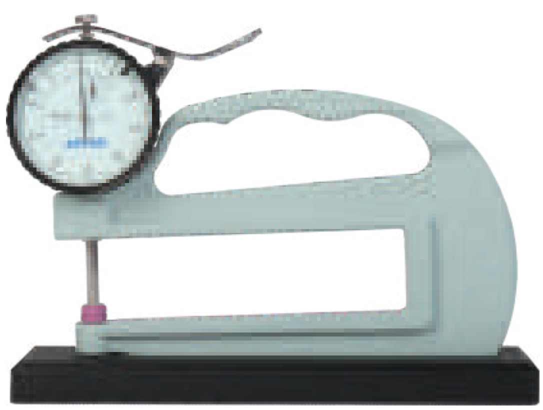
SERIES 444 THICKNESS GAUGE

Jeweled

- Large throat depth, for large workpiece measurement
- Graduation: 0.01mm

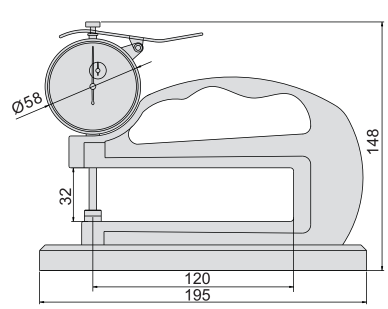






444-010-11B

unit: mm



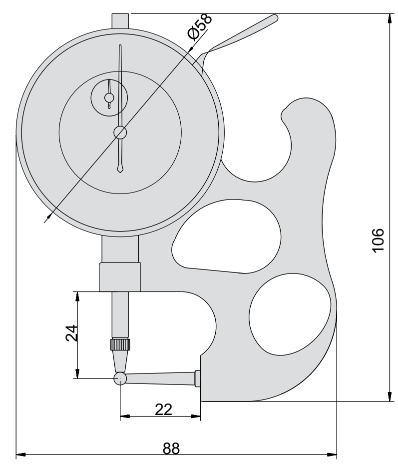
Code	Range	Accuracy	Anvil
444-010-11B	0-10mm	±0.02mm	A
444-020-11B	0-20mm	±0.03mm	A
444-010-12B	0-10mm	±0.02mm	B
444-020-12B	0-20mm	±0.03mm	B

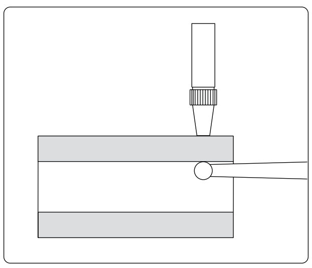
448 THICKNESS GAUGE

Jeweled

- Measure the wall thickness of tube

unit: mm





Code	Range	Accuracy	Graduation
448-010-11	0-10mm	±0.02mm	0.01mm

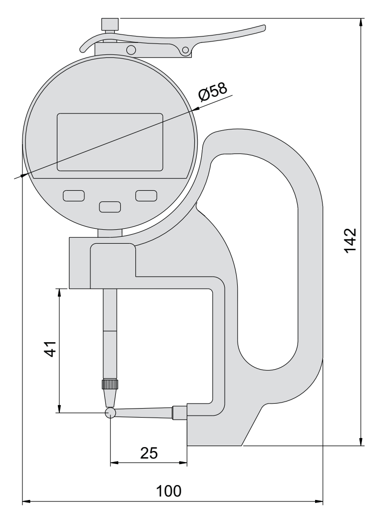
461 DIGITAL TUBE THICKNESS GAUGE

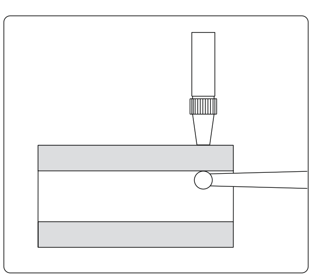
Data output

CR2032

- Buttons: on/off, zero, mm/inch, ABS
- Automatic power off
- Data output(cable code:200-03 or 200-04)

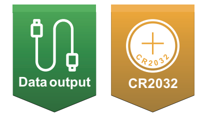
unit: mm



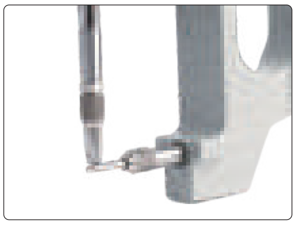


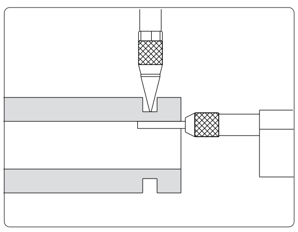
Code	Range	Resolution	Accuracy
461-010-11	0-10mm/0-0.4"	0.01mm/0.0005"	±0.02mm

462 DIGITAL TUBE THICKNESS GAUGE

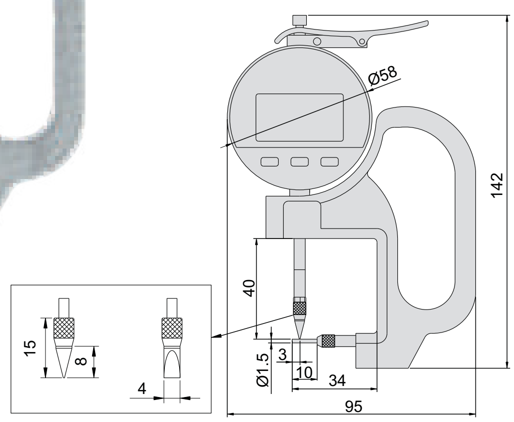


- Buttons: on/off, zero, mm/inch, ABS
- Automatic power off
- Data output(cable code:200-03 or 200-04)





unit: mm

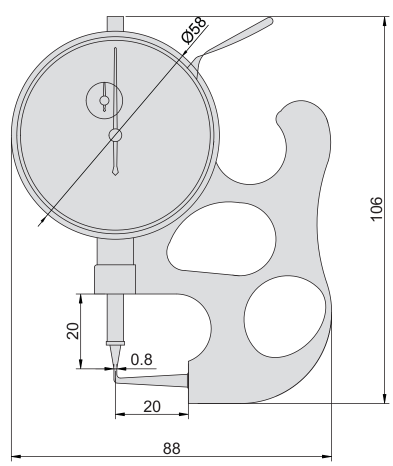


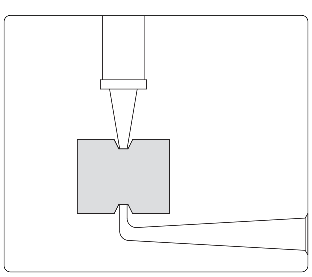
Code	Range	Resolution	Accuracy
462-010-11	0-10mm/0-0.4"	0.01mm/0.0005"	±0.02mm

464 POINT THICKNESS GAUGE

- Pointed tips can be used for small grooves and recesses

unit: mm





Code	Range	Accuracy	Graduation
464-010-11	0-10mm	±0.02mm	0.01mm

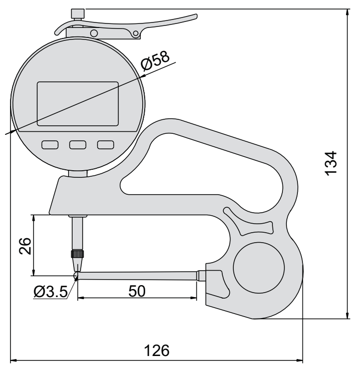
463 DIGITAL TUBE THICKNESS GAUGE

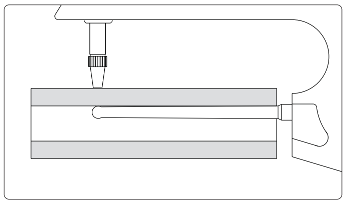
Data output

CR2032

- Buttons: on/off, zero, mm/inch, ABS
- Automatic power off
- Data output(cable code:200-03 or 200-04)

unit: mm



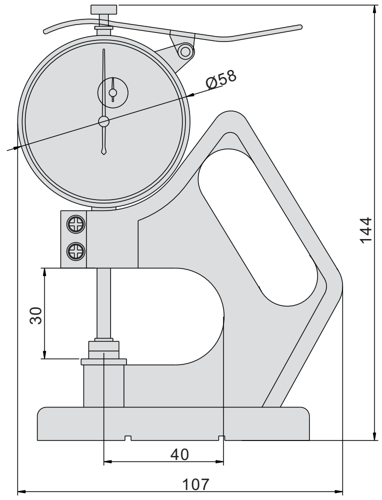


Code	Range	Resolution	Accuracy
463-010-11	0-10mm/0-0.4"	0.01mm/0.0005"	±0.02mm

449 THICKNESS GAUGE

- Graduation: 0.01mm
- Ceramic anvil,diameter: Ø10mm

unit: mm

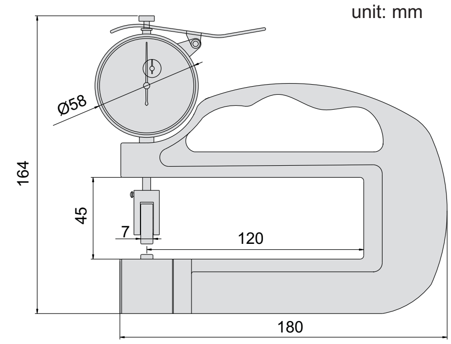


Code	Range	Accuracy
449-010-11	0-10mm	±0.02mm

445 THICKNESS GAUGE WITH ROLLING WHEEL

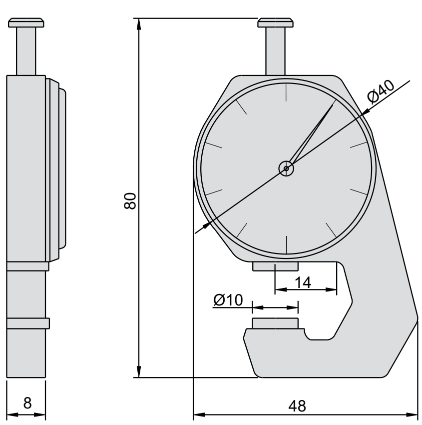
Jeweled

- For continuous measurement



Code	Range	Graduation	Accuracy
445-010-11	0-10mm	0.01mm	±0.02mm

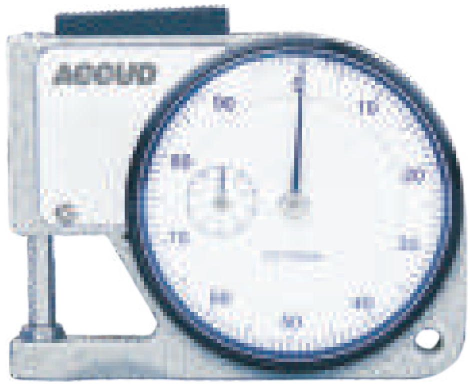
446 THICKNESS GAUGE



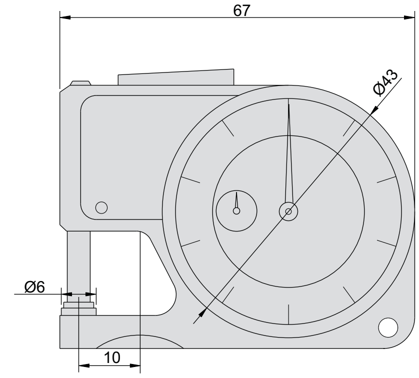
Code	Range	Graduation	Accuracy
446-010-11	0-10mm	0.1mm	±0.05mm

447 THICKNESS GAUGE

- Stainless steel spindle tip and anvil



unit: mm



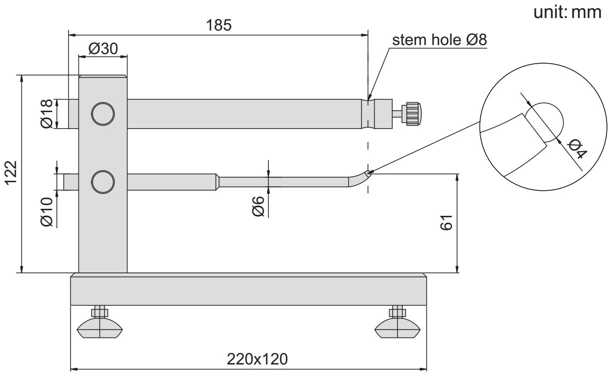
Code	Range	Graduation	Accuracy
447-010-11	0-10mm	0.01mm	±0.02mm

450 PET BOTTLE WALL THICKNESS GAUGE

- Optional accessories: digital indicator (code: 212-010-13)

Application

unit: mm



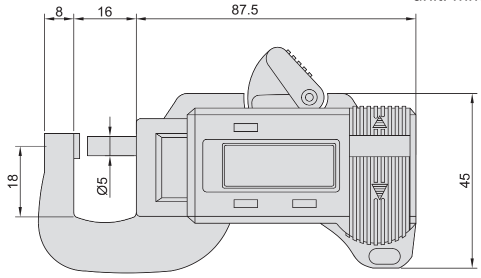
Code	Measuring thickness	Accuracy
450-010-11	12.7mm	±0.02mm

432 DIGITAL SNAP GAUGE

LR44

- Buttons: on/off, zero, mm/inch

unit: mm



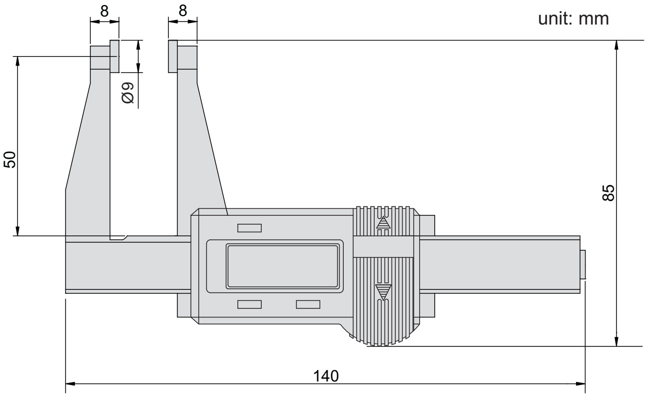
Code	Range	Resolution	Accuracy
432-012-11	0-12.7mm/0-0.5"	0.01mm/0.0005"	±0.03mm

433 DIGITAL SNAP GAUGE

Data output
CR2032

- Resolution: 0.01mm/0.0005"
- Buttons: on/off, zero, mm/inch
- Automatic power on/off
- Data output
- Made of stainless steel

unit: mm



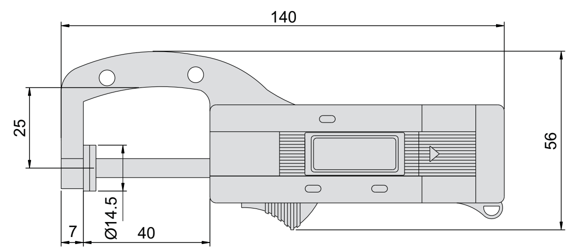
Code	Range	Accuracy
433-002-11	0-50mm/0-2"	±0.03mm

434 DIGITAL SNAP GAUGE

LR44

- Buttons: on/off, zero, mm/inch
- Automatic power on/off

unit: mm



Code	Range	Resolution	Accuracy
434-001-11	0-25mm/0-1"	0.01mm/0.0005"	±0.03mm

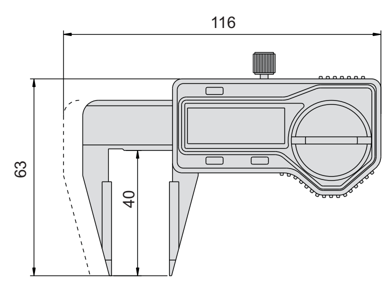
435 DIGITAL SNAP GAUGE

Data output

CR2032

- Resolution: 0.01mm/0.0005"
- Buttons: on/off, zero, mm/inch
- Automatic power on/off
- Data output(cable code:100-11 or 100-12)
- Made of stainless steel

unit: mm

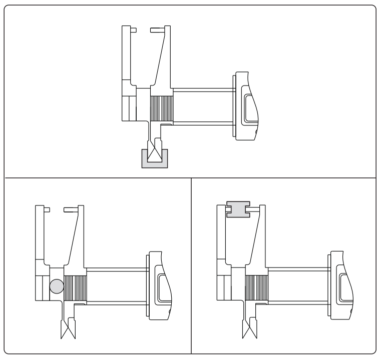


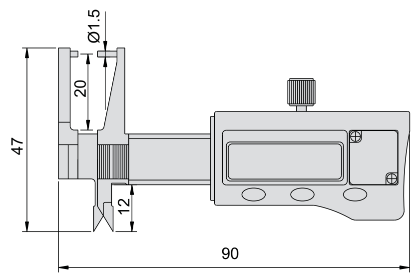
Code	Range	Accuracy
435-001-11	0-25mm/0-1"	±0.03mm

436 DIGITAL 3-PURPOSE SNAP GAUGE

LR44

- Resolution: 0.01mm/0.0005"
- Buttons: on/off, zero, mm/inch
- Made of stainless steel





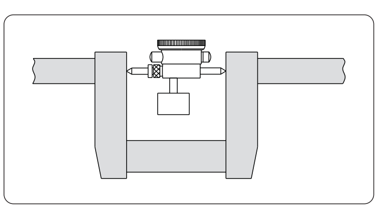
unit: mm

Code	Range	Accuracy
436-001-11	0-25mm/0-1"	±0.03mm

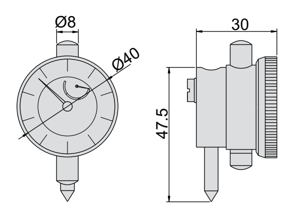
SERIES 298 CRANKSHAFT TESTER

unit: mm

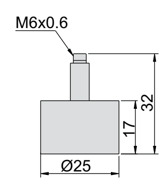
- To test crankshaft deflection
- The balance block is mounted on the back of dial indicator to keep the dial indicator facing up



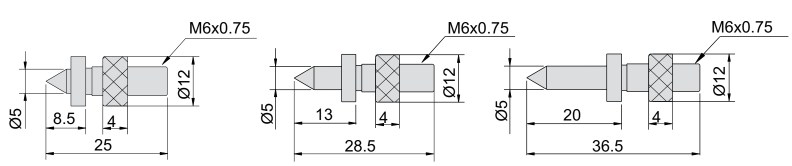
298-012-11



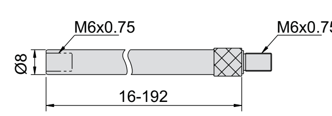
dial indicator



balance block



anvils



extension rods

Code	Range	Dial indicator range	Graduation	Accuracy	Extension rods
298-012-11	60-300mm	3mm	0.01mm	±0.016mm	16mm, 32mm, 64mm, 128mm
298-020-11	60-500mm	3mm	0.01mm	±0.016mm	16mm, 32mm, 64mm, 96mm, 128mm, 192mm

THICKNESS

SERIES 511 CERAMIC GAUGE BLOCK SET

Certificate

- Made of ceramic
- Meet ISO 3650
- With calibration certificate
- Code explanation

511-□□□-□X

→0: grade0
→1: grade1

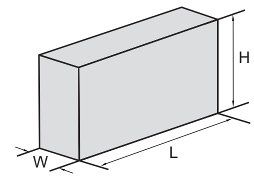
Example:

Code	Quantity	Grade
511-112-00	**112**	**0**
511-112-01	**112**	**1**

511-087-00

Size:

Size (L)	W	H
0.5mm≤L≤10mm	9mm	30mm
L>10mm	9mm	35mm



Code	Blocks per set	Block allocation		
		Size(mm)	Step(mm)	Quantity
511-122-0X	122	1.0005		1
		1.001-1.009	0.001	9
		1.01-1.49	0.01	49
		1.6-1.9	0.1	4
		0.5-24.5	0.5	49
		30-100	10	8
		25-75		2
511-112-0X	112	1.0005		1
		1.001-1.009	0.001	9
		1.01-1.49	0.01	49
		0.5-24.5	0.5	49
		25-100	25	4
511-103-0X	103	1.005		1
		1.01-1.49	0.01	49
		0.5-24.5	0.5	49
		25-100	25	4
511-088-0X	88	1.0005		1
		1.001-1.009	0.001	9
		1.01-1.49	0.01	49
		0.5-9.5	0.5	19
		10-100	10	10
511-087-0X	87	1.001-1.009	0.001	9
		1.01-1.49	0.01	49
		0.5-9.5	0.5	19
		10-100	10	10
511-076-0X	76	1.005		1
		1.01-1.49	0.01	49
		0.5-9.5	0.5	19
		10-40	10	4
		50-100	25	3

Code	Blocks per set	Block allocation		
		Size(mm)	Step(mm)	Quantity
511-056-0X	56	0.5		1
		1.001-1.009	0.001	9
		1.01-1.09	0.01	9
		1.1-1.9	0.1	9
		1-24	1	24
		25-100	25	4
511-047-0X	47	1.005		1
		1.01-1.09	0.01	9
		1.1-1.9	0.1	9
		1-24	1	24
		25-100	25	4
511-047-1X	47	1.005		1
		1.01-1.19	0.01	19
		1.2-1.9	0.1	8
		1-9	1	9
		10-100	10	10
511-046-0X	46	1.001-1.009	0.001	9
		1.01-1.09	0.01	9
		1.1-1.9	0.1	9
		1-9	1	9
		10-100	10	10
511-034-0X	34	1.0005		1
		1.001-1.009	0.001	9
		1.01-1.09	0.01	9
		1.1-1.9	0.1	9
		1-5	1	5
		10		1
511-032-0X	32	1.005		1
		1.01-1.09		9
		1.1-1.9	0.01	9
		1-9	0.1	9
		10-30	1	3
		60	10	1

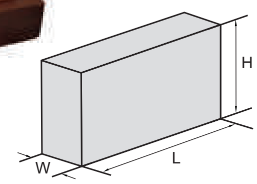
SERIES 512 STEEL GAUGE BLOCK SET

Certificate

- Made of steel
- Meet ISO 3650
- With calibration certificate
- Code explanation

512-□□□-□X
- 0: grade0
- 1: grade1
- 2: grade2

512-087-02



Example:

Code	Grade	Quantity
512-112-00	0	112
512-112-01	1	112
512-112-02	2	112

Size:

Size (L)	W	H
0.5mm≤L≤10mm	9mm	30mm
L>10mm	9mm	35mm

Plastic box

Code	Blocks per set	Block allocation Size(mm)	Step (mm)	Quantity
512-122-0X	122	1.0005		1
		1.001-1.009	0.001	9
		1.01-1.49	0.01	49
		1.6-1.9	0.1	4
		0.5-24.5	0.5	49
		30-100	10	8
		25-75	50	2
512-112-0X	112	1.0005		1
		1.001-1.009	0.001	9
		1.01-1.49	0.01	49
		0.5-24.5	0.5	49
		25-100	25	4
512-103-0X	103	1.005		1
		1.01-1.49	0.01	49
		0.5-24.5	0.5	49
		25-100	25	4
512-088-0X	88	1.0005		1
		1.001-1.009	0.001	9
		1.01-1.49	0.01	49
		0.5-9.5	0.5	19
		10-100	10	10
512-087-0X	87	1.001-1.009	0.001	9
		1.01-1.49	0.01	49
		0.5-9.5	0.5	19
		10-100	10	10

Code	Blocks per set	Block allocation Size(mm)	Step (mm)	Quantity
512-083-0X	83	0.5		1
		1		1
		1.005		1
		1.01-1.49	0.01	49
		1.5-1.9	0.1	5
		2-9.5	0.5	16
		10-100	10	10
512-076-0X	76	1.005		1
		1.01-1.49	0.01	49
		0.5-9.5	0.5	19
		10-40	10	4
		50-100	25	3
512-056-0X	56	0.5		1
		1.001-1.009	0.001	9
		1.01-1.09	0.01	9
		1.1-1.9	0.1	9
		1-24	1	24
		25-100	25	4
512-047-0X	47	1.005		1
		1.01-1.09	0.01	9
		1.1-1.9	0.1	9
		1-24	1	24
		25-100	25	4
512-047-1X	47	1.005		1
		1.01-1.19	0.01	19
		1.2-1.9	0.1	8
		1-9	1	9
		10-100	10	10

Code	Blocks per set	Block allocation Size(mm)	Step (mm)	Quantity
512-046-0X	46	1.001-1.009	0.001	9
		1.01-1.09	0.01	9
		1.1-1.9	0.1	9
		1-9	1	9
		10-100	10	10
512-038-0X	38	1.005		1
		1.01-1.09	0.01	9
		1.1-1.9	0.1	9
		1-9	1	9
		10-100	10	10
512-034-0X	34	1.0005		1
		1.001-1.009	0.001	9
		1.01-1.09	0.01	9
		1.1-1.9	0.1	9
		1-5	1	5
		10		1
512-032-0X	32	1.005		1
		1.01-1.09	0.01	9
		1.1-1.9	0.1	9
		1-9	1	9
		10-30	10	3
		50		1
512-032-1X	32	1.005		1
		1.01-1.09	0.01	9
		1.1-1.9	0.1	9
		1-9	1	9
		10-30	10	3
		60		1
512-008-0X	8	125-175	25	3
		200-250	50	2
		300-500	100	3

GAUGE

CARBIDE GAUGE BLOCK SET

Certificate

- Made of carbide
- Meet ISO 3650
- With calibration certificate
- Code explanation

512-□□□-□XT

0: grade0

1: grade1

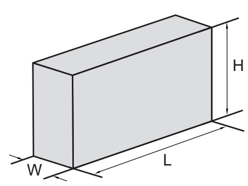
512-087-01T

Example:

Code	Grade	Quantity
512-112-00T	0	112
512-112-01T	1	112

Size:

Size (L)	W	H
0.5mm≤L≤10mm	9mm	30mm
L>10mm	9mm	35mm



Plastic box

Code	Blocks per set	Block allocation		
		Size(mm)	Step(mm)	Quantity
512-122-0XT	122	1.0005		1
		1.001-1.009	0.001	9
		1.01-1.49	0.01	49
		1.6-1.9	0.1	4
		0.5-24.5	0.5	49
		30-100	10	8
		25-75	50	2
512-112-0XT	112	1.0005		1
		1.001-1.009	0.001	9
		1.01-1.49	0.01	49
		0.5-24.5	0.5	49
		25-100	25	4
512-103-0XT	103	1.005		1
		1.01-1.49	0.01	49
		0.5-24.5	0.5	49
		25-100	25	4
512-087-0XT	87	1.001-1.009	0.001	9
		1.01-1.49	0.01	49
		0.5-9.5	0.5	19
		10-100	10	10
512-083-0XT	83	0.5		1
		1		1
		1.005		1
		1.01-1.49	0.01	49
		1.5-1.9	0.1	5
		2-9.5	0.5	16
		10-100	10	10

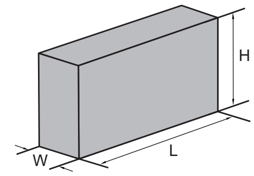
Code	Blocks per set	Block allocation		
		Size(mm)	Step(mm)	Quantity
512-076-0XT	76	1.005		1
		1.01-1.49	0.01	49
		0.5-9.5	0.5	19
		10-40	10	4
		50-100	25	3
512-047-0XT	47	1.005		1
		1.01-1.09	0.01	9
		1.1-1.9	0.1	9
		1-24	1	24
		25-100	25	4
512-047-1XT	47	1.005		1
		1.01-1.19	0.01	19
		1.2-1.9	0.1	8
		1-9	1	9
		10-100	10	10
512-046-0XT	46	1.001-1.009	0.001	9
		1.01-1.09	0.01	9
		1.1-1.9	0.1	9
		1-9	1	9
		10-100	10	10
512-032-0XT	32	1.005		1
		1.01-1.09	0.01	9
		1.1-1.9	0.1	9
		1-9	1	9
		10-30	10	3
		50		1

SERIES 512 STEEL GAUGE BLOCK SET

- Made of alloy steel
- Meet ASME B89.1.9
- With calibration certificate
- Code explanation

512-□□□-□XI
- →0: grade 0
- →1: grade1
- →2: grade2

512-081-00I



Size:

Size (L)	W	H
0.02≤L≤0.394"	0.354"	1.181"
L>0.394"	0.354"	1.378"

Plastic box

Example:

Code	Quantity	Grade
512-036-00I	36	0
512-036-01I	36	1
512-036-02I	36	2

Code	Blocks per set	Block allocation		
		Size(inch)	Step(inch)	Quantity
512-036-0XI	36	0.05		1
		0.1001-0.1009	0.0001	9
		0.101-0.109	0.001	9
		0.11-0.19	0.01	9
		0.1-0.5	0.1	5
		1		1
		2		1
		4		1

Code	Blocks per set	Block allocation		
		Size(inch)	Step(inch)	Quantity
512-081-0XI	81	0.1001-0.1009	0.0001	9
		0.101-0.149	0.001	49
		0.05-0.95	0.05	19
		1-4	1	4

SERIES 515 CERAMIC INDIVIDUAL GAUGE BLOCK (<10MM)

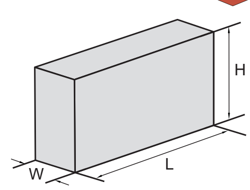
Certificate

- Made of ceramic
- Meet ISO 3650
- With calibration certificate
- Code explanation

515-□□□-□X
- →0: grade0
- →1: grade1

decimal ← integer

515-700-70



Size:

Size(L)	W	H
0.5mm≤L≤10mm	9mm	30mm
L>10mm	9mm	35mm

Supplied below size, unit:mm

0.5	1.01	1.13	1.25	1.37	1.49	5.1
1	1.02	1.14	1.26	1.38	1.5	5.5
1.0005	1.03	1.15	1.27	1.39	1.6	6
1.001	1.04	1.16	1.28	1.4	1.7	6.5
1.002	1.05	1.17	1.29	1.41	1.8	7
1.003	1.06	1.18	1.3	1.42	1.9	7.5
1.004	1.07	1.19	1.31	1.43	2	7.7
1.005	1.08	1.2	1.32	1.44	2.5	8
1.006	1.09	1.21	1.33	1.45	3.5	8.5
1.007	1.1	1.22	1.34	1.46	4	9
1.008	1.11	1.23	1.35	1.47	4.5	9.5
1.009	1.12	1.24	1.36	1.48	5	

Example:

Code	Grade	Size(mm)
515-500-00	0	0.5
515-500-01	1	0.5
515-000-10	0	1
515-0005-11	1	1.0005
515-400-11	1	1.4
515-480-11	1	1.48

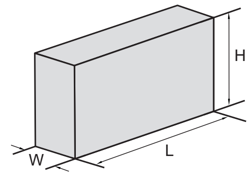
SERIES 516 CERAMIC INDIVIDUAL GAUGE BLOCK (≥10MM)

Certificate

- Made of ceramic
- Meet ISO 3650
- With calibration certificate
- Code explanation

516-□□□-□X
→0: grade0
→1: grade1

516-800-01



Example:

Code	Grade	Size(mm)
516-200-00	0	20
516-200-01	1	20

Size:

Size(L)	W	H
0.5mm≤L≤10mm	9mm	30mm
L>10mm	9mm	35mm

Code	Size(mm)	Code	Size(mm)	Code	Size(mm)	Code	Size(mm)	Code	Size(mm)
516-100-0X	10	516-140-0X	14	516-185-0X	18.5	516-228-0X	22.8	516-600-0X	60
516-103-0X	10.3	516-145-0X	14.5	516-190-0X	19	516-230-0X	23	516-700-0X	70
516-105-0X	10.5	516-150-0X	15	516-195-0X	19.5	516-235-0X	23.5	516-750-0X	75
516-110-0X	11	516-155-0X	15.5	516-200-0X	20	516-240-0X	24	516-800-0X	80
516-115-0X	11.5	516-160-0X	16	516-202-0X	20.2	516-245-0X	24.5	516-900-0X	90
516-120-0X	12	516-165-0X	16.5	516-205-0X	20.5	516-250-0X	25	516-004-1X	100
516-125-0X	12.5	516-170-0X	17	516-210-0X	21	516-300-0X	30	516-005-1X	125
516-129-0X	12.9	516-175-0X	17.5	516-215-0X	21.5	516-400-0X	40	516-006-1X	150
516-130-0X	13	516-176-0X	17.6	516-220-0X	22	516-413-0X	41.3		
516-135-0X	13.5	516-180-0X	18	516-225-0X	22.5	516-500-0X	50		

SERIES 513 STEEL INDIVIDUAL GAUGE BLOCK(<10MM)

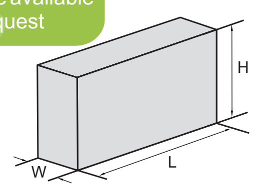
CUSTOM-MADE
other sizes are available upon request

Certificate

- Made of steel
- Meet ISO 3650
- With calibration certificate
- Code explanation

513-□□□-□X
→0: grade0
→1: grade1
→2: grade2
decimal
integer

513-700-70



Size:

Size (L)	W	H
0.5mm≤L≤10mm	9mm	30mm
L>10mm	9mm	35mm

Example:

Code	Size(mm)	Grade
513-500-00	0.5	0
513-500-01	0.5	1
513-500-02	0.5	2
513-000-10	1	0
513-0005-11	1.0005	1
513-400-12	1.4	2
513-480-11	1.48	1

Supplied below size, unit:mm

0.5	0.69	0.88	0.998	1.07	1.26	1.45	2.008	2.19	2.38	4
0.51	0.7	0.89	0.999	1.08	1.27	1.46	2.009	2.2	2.39	4.5
0.52	0.71	0.9	1	1.09	1.28	1.47	2.01	2.21	2.4	5
0.53	0.72	0.91	1.0005	1.1	1.29	1.48	2.02	2.22	2.41	5.1
0.54	0.73	0.92	1.001	1.11	1.3	1.49	2.03	2.23	2.42	5.5
0.55	0.74	0.93	1.002	1.12	1.31	1.5	2.04	2.24	2.43	6
0.56	0.75	0.94	1.003	1.13	1.32	1.6	2.05	2.25	2.44	6.5
0.57	0.76	0.95	1.004	1.14	1.33	1.7	2.06	2.26	2.45	7
0.58	0.77	0.96	1.005	1.15	1.34	1.8	2.07	2.27	2.46	7.5
0.59	0.78	0.97	1.006	1.16	1.35	1.9	2.08	2.28	2.47	7.7
0.6	0.79	0.98	1.007	1.17	1.36	2	2.09	2.29	2.48	8
0.61	0.8	0.99	1.008	1.18	1.37	2.0005	2.1	2.3	2.49	8.5
0.62	0.81	0.991	1.009	1.19	1.38	2.001	2.11	2.31	2.5	9
0.63	0.82	0.992	1.01	1.2	1.39	2.002	2.12	2.32	2.6	9.5
0.64	0.83	0.993	1.02	1.21	1.4	2.003	2.13	2.33	2.7	
0.65	0.84	0.994	1.03	1.22	1.41	2.004	2.14	2.34	2.8	
0.66	0.85	0.995	1.04	1.23	1.42	2.005	2.15	2.35	2.9	
0.67	0.86	0.996	1.05	1.24	1.43	2.006	2.16	2.36	3	
0.68	0.87	0.997	1.06	1.25	1.44	2.007	2.17	2.37	3.5	

SERIES 514 STEEL INDIVIDUAL GAUGE BLOCK (≥10MM)

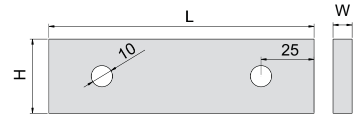
CUSTOM-MADE
other sizes are available upon request

Certificate

- Made of steel
- Meet ISO 3650
- With calibration certificate
- Code explanation

514-□□□-□X
→ 0: grade0
→ 1: grade1
→ 2: grade2

514-004-1X



With hole（size≥125mm）

Size:

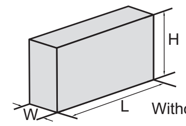
Size (L)	W	H
0.5mm≤L≤10mm	9mm	30mm
L>10mm	9mm	35mm

Code	Size(mm)
514-100-0X	10
514-103-0X	10.3
514-105-0X	10.5
514-110-0X	11
514-115-0X	11.5
514-120-0X	12
514-125-0X	12.5
514-129-0X	12.9
514-130-0X	13
514-135-0X	13.5
514-140-0X	14
514-145-0X	14.5
514-150-0X	15

Code	Size(mm)
514-155-0X	15.5
514-160-0X	16
514-165-0X	16.5
514-170-0X	17
514-175-0X	17.5
514-176-0X	17.6
514-180-0X	18
514-185-0X	18.5
514-190-0X	19
514-195-0X	19.5
514-200-0X	20
514-202-0X	20.2
514-205-0X	20.5

Code	Size(mm)
514-210-0X	21
514-215-0X	21.5
514-220-0X	22
514-225-0X	22.5
514-228-0X	22.8
514-230-0X	23
514-235-0X	23.5
514-240-0X	24
514-245-0X	24.5
514-250-0X	25
514-300-0X	30
514-350-0X	35
514-400-0X	40

Code	Size(mm)
514-413-0X	41.3
514-450-0X	45
514-500-0X	50
514-600-0X	60
514-700-0X	70
514-750-0X	75
514-800-0X	80
514-900-0X	90
514-004-1X	100
514-005-1X	125
514-006-1X	150
514-007-1X	175
514-008-1X	200



Without hole

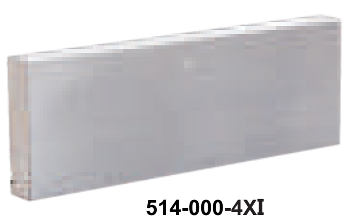
Code	Size(mm)
514-010-1X	250
514-012-1X	300
514-016-1X	400
514-020-1X	500
514-024-1X	600
514-028-1X	700
514-030-1X	750
514-032-1X	800
514-036-1X	900
514-040-1X	1000

SERIES 514 INDIVIDUAL STEEL GAUGE BLOCKS

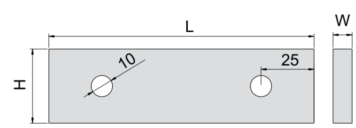
Certificate

- Made of alloy steel
- Meet ASME B89.1.9
- With calibration certificate
- Code explanation

514-□□□-□XI
→ 0: grade0
→ 1: grade1
→ 2: grade2



514-000-4XI



With hole（size≥5"）

Size:

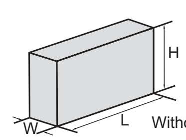
Size (L)	W	H
.02"≤L≤.394"	.354"	1.181"
L>.394"	.354"	1.378"

Example:

Code	Grade	Size (L)
514-000-10I	0	1"
514-000-11I	1	1"
514-000-12I	2	1"

Code	Size(L)
514-000-1XI	1"
514-000-2XI	2"
514-000-3XI	3"
514-000-4XI	4"
514-000-5XI	5"
514-000-6XI	6"

Code	Size(L)
514-000-7XI	7"
514-000-8XI	8"
514-010-0XI	10"
514-012-0XI	12"
514-016-0XI	16"
514-020-0XI	20"



Without hole

SERIES 517 GAUGE BLOCK SET FOR CALIPER INSPECTION

Certificate

- For checking calipers accuracy
- With ring gauges
- Meet ISO 3650
- Gauge blocks are made of alloy steel
- With inspection certificate

517-005-01

Code	Guage block allocation	Quantity	Grade	Ring gauge
517-005-01	30, 41.3, 131.4mm	5pcs	1	Ø4,Ø25mm
517-006-01	30, 41.3, 131.4, 243.5mm	6pcs	1	Ø4,Ø25mm

SERIES 517 GAUGE BLOCK SET FOR CALIPER INSPECTION

Certificate

- For checking calipers accuracy
- Meet ISO 3650
- Gauge blocks are made of alloy steel
- With inspection certificate

517-012-01

Code	Guage block allocation	Quantity	Grade
517-012-01	10, 20, 20, 41.2, 51.2, 81.5, 101.2, 121.5, 121.8, 191.8, 201.5, 291.8mm	12pcs	0
517-012-02	10, 20, 20, 41.2, 51.2, 81.5, 101.2, 121.5, 121.8, 191.8, 201.5, 291.8mm	12pcs	1
517-012-03	10, 20, 20, 41.2, 51.2, 81.5, 101.2, 121.5, 121.8, 191.8, 201.5, 291.8mm	12pcs	2

SERIES 518 GAUGE BLOCK SET FOR MICROMETER INSPECTION

Certificate

- For checking micrometers accuracy
- With optical parallel
- Grade 0
- Meet ISO 3650
- With inspection certificate

518-001-03

Measure

Code	Quantity	For micrometers	Material	Block allocation
518-001-02	11pcs	0-25mm	ceramic	2.5, 5.1, 7.7, 10.3, 12,9, 15, 17.6, 20.2, 22.8, 25mm
518-001-03	11pcs	0-25mm	alloy steel	2.5, 5.1, 7.7, 10.3, 12,9, 15, 17.6, 20.2, 22.8, 25mm

SERIES 518 GAUGE BLOCK SET FOR MICROMETER INSPECTION

Certificate

- For checking micrometers accuracy
- Grade 0
- Meet ISO 3650
- With inspection certificate

518-001-01

Code	Quantity	For micrometers	Material	Block allocation
518-001-01	10pcs	0-25mm	alloy steel	2.5, 5.1, 7.7, 10.3, 12,9, 15, 17.6, 20.2, 22.8, 25mm
518-002-01	11pcs	25-50mm	alloy steel	25, 27.5, 30.1, 32.7, 35.3, 37.9, 40, 42.6, 45.2, 47.8, 50mm
518-003-01	11pcs	50-75mm	alloy steel	50, 52.5, 55.1, 57.7, 60.3, 62.9, 65, 67.6, 70.2, 72.8, 75mm
518-004-01	11pcs	75-100mm	alloy steel	75, 77.5, 80.1, 82.7, 85.3, 87.9, 90, 92.6, 95.2, 97.8, 100mm

518 MICROMETER INSPECTION GAUGE BLOCK SET

Certificate

- Meet ISO3650
- Grade 0

Code	Quantity	Applicable micrometer	Material	Gauge blocks included in set
518-104-01	20pcs	0-100mm	alloy steel	5.12mm, 10.24mm, 15.36mm, 21.5mm, 25mm, 30.12mm, 35.24mm, 40.36mm, 46.5mm, 50mm, 55.12mm, 60.24mm, 65.36mm, 71.5mm, 75mm, 80.12mm, 85.24mm, 90.36mm, 96.5mm, 100mm

519 GAUGE BLOCK ACCESSORY

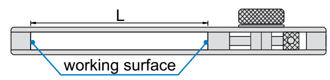
- To expand gage block applications

Code	Total quantity	Accessory allocation
519-016-01	**17pcs**	3pcs holder (50mm, 100mm, 200mm) 6pcs half round jaw (2mm, 5mm, 10mm, 2pcs each) 1pc holder base, 2pcs 100mm plain jaws, 1pc scriber point, 1pc center point, 2pcs triangular straight edge jaw 60mm 1pc 100mm straight edge

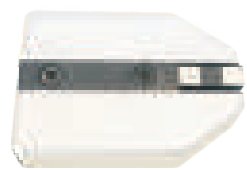
SERIES 520 GAUGE BLOCK ACCESSORIES

Code	Name	Clamping range (L)
520-002-11	holder	0-50mm
520-004-11	holder	50-100mm
520-008-11	holder	100-200mm
520-012-11	holder	200-300mm
520-016-11	holder	300-400mm
520-020-11	holder	400-500mm

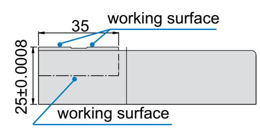
unit: mm **520-012-11**



Code	Name
520-100-11	base



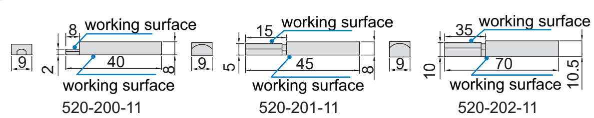
unit: mm



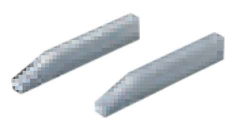
Code	Name	Size	Material
520-200-11	half round jaw	2mm	carbide
520-201-11	half round jaw	5mm	carbide
520-202-11	half round jaw	10mm	carbide

supplied a pair

unit: mm

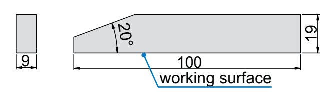


Code	Name	Material
520-300-11	plain jaw	carbide

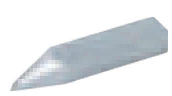


supplied a pair

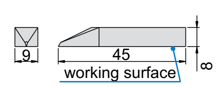
unit: mm



Code	Name	Material
520-400-11	scriber	carbide

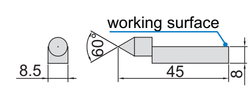


unit: mm

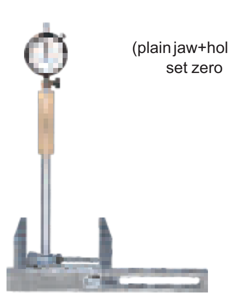


Code	Name	Tip Material
520-500-11	center point	carbide

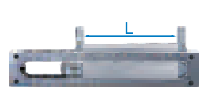
unit: mm



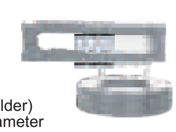
Application



(plain jaw+holder) set zero

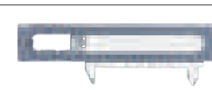


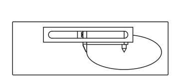
(half round jaw+holder) set a standard inside length L



(half round jaw+holder) measure inside diameter

(base+holder+scriber) measure height or scribe

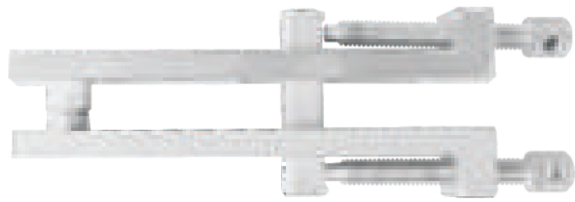




(scriber+centre point+holder) scribe circle

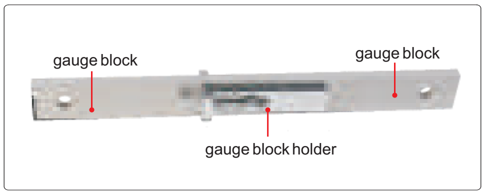
510 GAUGE BLOCK HOLDER

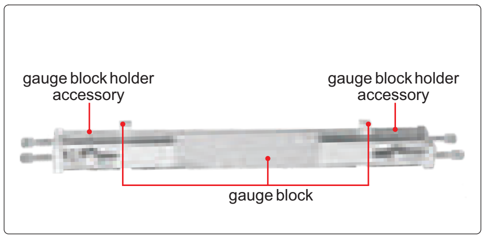
- For gauge blocks over 100mm with clamping holes
- Optional accessory: gauge block holder accessory, gauge block accessory



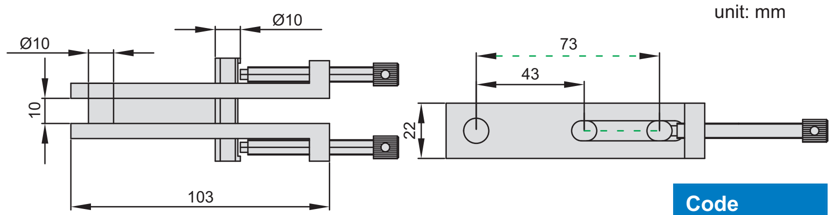
510-000-01

Application



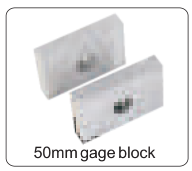


unit: mm



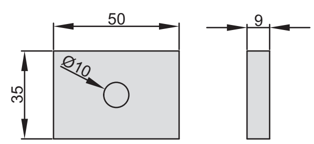
Code
510-000-01

Code	Include
510-302-01	510-000-01 (3 set) 510-000-02 (1pairs)



50mm gage block

unit: mm



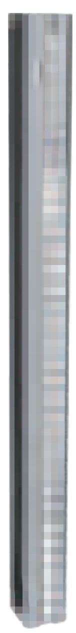
510-000-02

Code
510-000-02

SERIES 561 CHECK MASTER

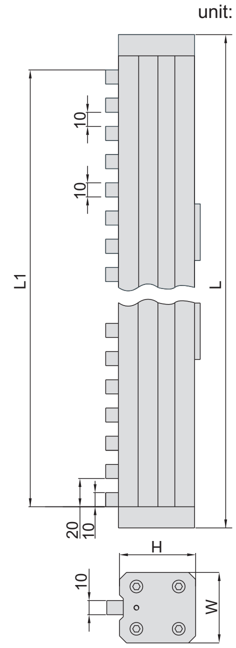
Certificate

- For checking the accuracy of measuring tools like calipers, height gage and so on
- Can be used in vertical and horizontal orientation
- Supplied with inspection certificate



561-024-01

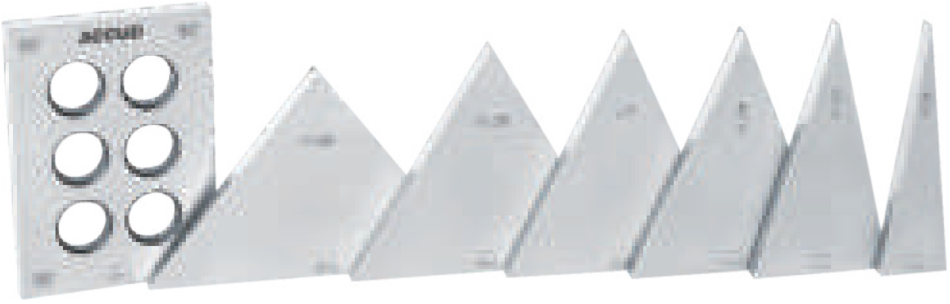
unit: mm



Code	Range	Parallelism of blocks	Accuracy	W	H	L1	L
561-012-01	300mm	1.2μm	±2.5μm	45	49	310	350
561-018-01	450mm	1.5μm	±3.5μm	50	54	470	510
561-024-01	600mm	1.5μm	±3.5μm	50	54	610	650

571 ANGLE GAUGE BLOCK SET

Certificate



571-007-01

- For angle comparison
- One angle can be as used in triangle blocks
  four angles can be as used in rectangle blocks

Code	Angle	Blocks per set	Accuracy	Sharp
571-007-01	15°10', 30°20' ,45°30', 50°,60°40' ,75°50' ,90°	7	±10"	triangle/rectangle

SERIES 522 PIN GAUGE

CUSTOM-MADE
Standard size above 40mm are available upon request

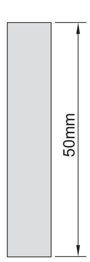
- Accuracy:
  ±1μm (range:0.1-13mm)
  ±2μm (range:13-40mm)
- Made of alloy steel
- Hardness HRC62-65
- Code explanation:

  522-□□□□□-2

  diameter

522-06933-2

unit: mm



Package

Example:

Code	Size(mm)	Accuracy
522-00125-2	0.125	±1μm
522-09125-2	9.125	±1μm
522-19125-2	19.125	±2μm

GAUGE

522 PIN GAUGE

CUSTOM-MADE
Size between 13 to 30mm, are available upon request

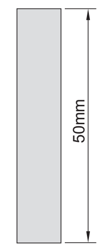
- Supplied diameter from 0.3 to 30mm,
- Accuracy:
  ±1μm (range:0.3-13mm)
  ±2μm (range:13-30mm)
- Carbide material
- Hardness HRC85-89
- Length 50mm
- Code explanation:

522-□□□□□-2T

diameter

522-06000-2T

unit: mm



Package

Example:

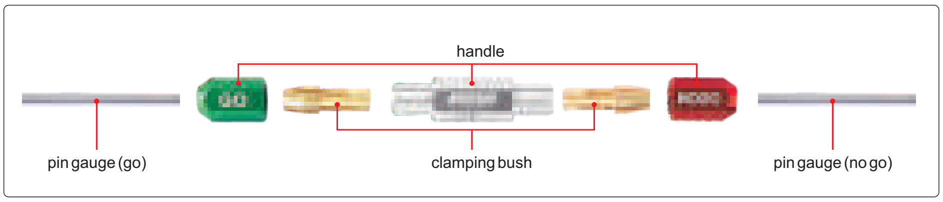
Code	Size(mm)	Accuracy
522-10000-2T	10	±1μm

SERIES 521 PIN GAUGE HANDLES

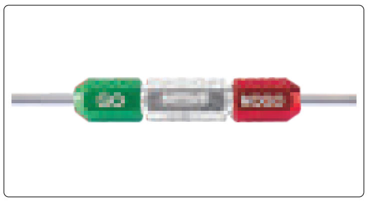
- Supplied with wrench for installing pin gauges
- Clamping bushes are made of brass

handle

before assemble



after assemble



Code	Applicable pin gauge diameter	Code	Applicable pin gauge diameter	Code	Applicable pin gauge diameter	Code	Applicable pin gauge diameter
521-001-11	0.2-1.0mm	521-007-11	6.0-7.0mm	521-013-11	12.0-13.0mm	521-019-11	18.0-19.0mm
521-002-11	1.0-2.0mm	521-008-11	7.0-8.0mm	521-014-11	13.0-14.0mm	521-020-11	19.0-20.0mm
521-003-11	2.0-3.0mm	521-009-11	8.0-9.0mm	521-015-11	14.0-15.0mm	521-021-11	20.0-21.0mm
521-004-11	3.0-4.0mm	521-010-11	9.0-10.0mm	521-016-11	15.0-16.0mm	521-022-11	21.0-22.0mm
521-005-11	4.0-5.0mm	521-011-11	10.0-11.0mm	521-017-11	16.0-17.0mm		
521-006-11	5.0-6.0mm	521-012-11	11.0-12.0mm	521-018-11	17.0-18.0mm		

SERIES 523 PIN GAUGE SET

523-650-51

523-300-101

- Made of alloy steel
- Hardness HRC62-65
- Accuracy:
  ±1μm (range:0.1-13mm)
  ±2μm (range:13-40mm)

Code	Diameter(mm)	Step	Quantity
523-100-091	0.1-1.00	0.01mm	91
523-200-101	1.00-2.00	0.01mm	101
523-300-101	2.00-3.00	0.01mm	101
523-400-101	3.00-4.00	0.01mm	101
523-500-101	4.00-5.00	0.01mm	101
523-600-101	5.00-6.00	0.01mm	101
523-700-101	6.00-7.00	0.01mm	101
523-800-101	7.00-8.00	0.01mm	101
523-900-101	8.00-9.00	0.01mm	101
523-1000-101	9.00-10.00	0.01mm	101

Code	Diameter(mm)	Step	Quantity
523-0110-100	0.1-10.00	0.1mm	100
523-500-41	1.0-5.0	0.1mm	41
523-500-51	5.0-10.0	0.1mm	51
523-1000-01	10.0-15.0	0.1mm	51
523-1500-01	15.0-20.0	0.1mm	51

Code	Diameter(mm)	Step	Quantity
523-010-41	0.10-0.50	0.01mm	41
523-020-31	0.20-0.50	0.01mm	31
523-050-51	0.50-1.00	0.01mm	51
523-100-51	1.00-1.50	0.01mm	51
523-150-51	1.50-2.00	0.01mm	51
523-200-51	2.00-2.50	0.01mm	51
523-250-51	2.50-3.00	0.01mm	51
523-300-51	3.00-3.50	0.01mm	51
523-350-51	3.50-4.00	0.01mm	51
523-400-51	4.00-4.50	0.01mm	51
523-450-51	4.50-5.00	0.01mm	51
523-500-01	5.00- 5.50	0.01mm	51
523-550-51	5.50-6.00	0.01mm	51
523-600-51	6.00-6.50	0.01mm	51
523-650-51	6.50-7.00	0.01mm	51
523-700-51	7.00-7.50	0.01mm	51
523-750-51	7.50-8.00	0.01mm	51
523-800-51	8.00-8.50	0.01mm	51
523-850-51	8.50-9.00	0.01mm	51
523-900-51	9.00-9.50	0.01mm	51
523-950-51	9.50-10.00	0.01mm	51

Code	Diameter(mm)	Step	Quantity
523-1000-51	10.00-10.50	0.01mm	51
523-1050-51	10.50-11.00	0.01mm	51
523-1100-51	11.00-11.50	0.01mm	51
523-1150-51	11.50-12.00	0.01mm	51
523-1200-51	12.00-12.50	0.01mm	51
523-1250-51	12.50-13.00	0.01mm	51
523-1300-51	13.00-13.50	0.01mm	51
523-1350-51	13.50-14.00	0.01mm	51
523-1400-51	14.00-14.50	0.01mm	51
523-1450-51	14.50-15.00	0.01mm	51
523-1500-51	15.00-15.50	0.01mm	51
523-1550-51	15.50-16.00	0.01mm	51
523-1600-51	16.00-16.50	0.01mm	51
523-1650-51	16.50-17.00	0.01mm	51
523-1700-51	17.00-17.50	0.01mm	51
523-1750-51	17.50-18.00	0.01mm	51
523-1800-51	18.00-18.50	0.01mm	51
523-1850-51	18.50-19.00	0.01mm	51
523-1900-51	19.00-19.50	0.01mm	51
523-1950-51	19.50-20.00	0.01mm	51

SERIES 523 CARBIDE PIN GAUGE SET

- Meet DIN2269, grade 1
- Made of carbide
- Hardness HRA90-90.5
- Diameter accuracy:±1μm


523-1000-51T


523-300-101T

Code	Diameter(mm)	Step	Quantity
523-100-091T	0. 10-1.00	0.01mm	91
523-200-101T	1.00-2.00	0.01mm	101
523-300-101T	2.00-3.00	0.01mm	101
523-400-101T	3.00-4.00	0.01mm	101
523-500-101T	4.00-5.00	0.01mm	101
523-600-101T	5.00-6.00	0.01mm	101
523-700-101T	6.00-7.00	0.01mm	101
523-800-101T	7.00-8.00	0.01mm	101
523-900-101T	8.00-9.00	0.01mm	101
523-1000-101T	9.00-10.00	0.01mm	101

Code	Diameter(mm)	Step	Quantity
523-1000-51T	10.00-10.50	0.01mm	51
523-1050-51T	10.50-11.00	0.01mm	51
523-1100-51T	11.00-11.50	0.01mm	51
523-1150-51T	11.50-12.00	0.01mm	51
523-1200-51T	12.00-12.50	0.01mm	51
523-1250-51T	12.50-13.00	0.01mm	51
523-1300-51T	13.00-13.50	0.01mm	51
523-1350-51T	13.50-14.00	0.01mm	51
523-1400-51T	14.00-14.50	0.01mm	51
523-1450-51T	14.50-15.00	0.01mm	51

SERIES 524 BOX FOR PIN GAUGE SET

- For containing pin gauges

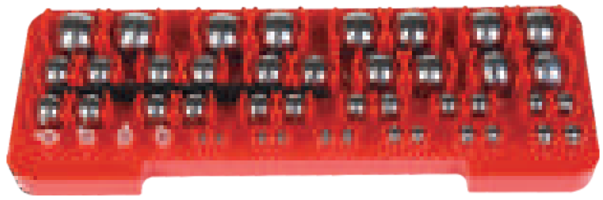

524-001-01

Code	Gauge range	Max. packed QTY
524-001-01	0.10-10mm	51
524-001-02	10-13mm	72
524-001-03	13-20mm	50
524-001-04	20-34mm	32

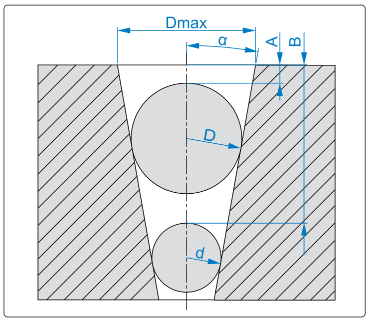
526 STEEL BALL SET

Certificate

- To measure diameter and angle of taper holes
- Each size has a pair of steel ball
- Material: tool steel
- Hardness: HRC63
- Diameter accuracy: ±2μm
- Roundness: 0.6μm



Calculate angle (α) and diameter (Dmax) according to the ball diameter (D, d), height (A) and depth(B)



Code	Steel balls per set	Diameter(mm)
526-025-01	25 pairs	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25

SERIES 525 MASTER SETTING DISC

CUSTOM-MADE
other sizes are available upon request

- Hardness: HRC60-62
- Conforms to standard ASME B89.1.5

525-020-01

Diameter	Supplied difference	Roundness and conicity
3-21mm	±0.8μm	0.5μm
21-30mm	±0.8μm	0.7μm
30-40mm	±1.1μm	0.7μm
40-65mm	±1.5μm	1.0μm

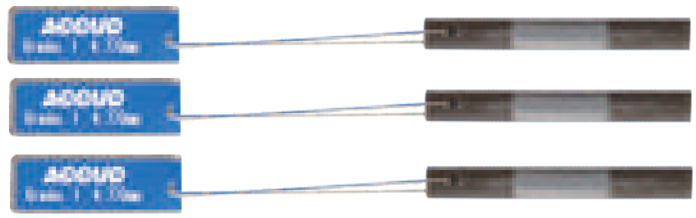
Diameter	Supplied difference	Roundness and conicity
65-110mm	±1.9μm	1.2μm
110-120mm	±1.9μm	1.6μm
120-130mm	±2.4μm	1.6μm

Code	Size(mm)	Code	Size(mm)	Code	Size(mm)	Code	Size(mm)	Code	Size(mm)
525-003-01	Ø3	525-016-01	Ø16	525-029-01	Ø29	525-042-01	Ø42	525-075-01	Ø75
525-004-01	Ø4	525-017-01	Ø17	525-030-01	Ø30	525-043-01	Ø43	525-080-01	Ø80
525-005-01	Ø5	525-018-01	Ø18	525-031-01	Ø31	525-044-01	Ø44	525-085-01	Ø85
525-006-01	Ø6	525-019-01	Ø19	525-032-01	Ø32	525-045-01	Ø45	525-090-01	Ø90
525-007-01	Ø7	525-020-01	Ø20	525-033-01	Ø33	525-046-01	Ø46	525-095-01	Ø95
525-008-01	Ø8	525-021-01	Ø21	525-034-01	Ø34	525-047-01	Ø47	525-100-01	Ø100
525-009-01	Ø9	525-022-01	Ø22	525-035-01	Ø35	525-048-01	Ø48	525-105-01	Ø105
525-010-01	Ø10	525-023-01	Ø23	525-036-01	Ø36	525-049-01	Ø49	525-110-01	Ø110
525-011-01	Ø11	525-024-01	Ø24	525-037-01	Ø37	525-050-01	Ø50	525-115-01	Ø115
525-012-01	Ø12	525-025-01	Ø25	525-038-01	Ø38	525-055-01	Ø55	525-120-01	Ø120
525-013-01	Ø13	525-026-01	Ø26	525-039-01	Ø39	525-060-01	Ø60	525-125-01	Ø125
525-014-01	Ø14	525-027-01	Ø27	525-040-01	Ø40	525-065-01	Ø65	525-130-01	Ø130
525-015-01	Ø15	525-028-01	Ø28	525-041-01	Ø41	525-070-01	Ø70		

SERIES 529 THREE WIRE MEASURING UNITS

- Made of alloy steel
- One unit includes 3pcs same size
- Hardness HRC60-62
- Accuracy:
  ±0.25μm (grade 0), ±0.5μm (grade 1)
- Roundness:
  0.25μm (grade 0), 0.5μm (grade 1)
- Code explanation

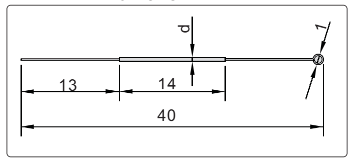
529-□□□□- 0X
→0: grade0
→1: grade1



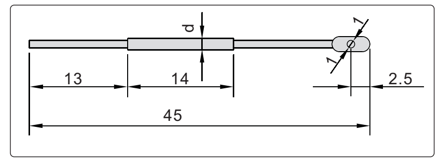
529-4773-01

unit: mm

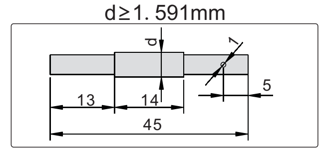
d≤0. 572mm



0. 572mm<d<1. 591mm



d≥1. 591mm



Example:

Code	Size(mm)	Grade
529-2886-00	2.886	0
529-2886-01	2.886	1

Supplied all 55 size as a set

Code	Quantity	Grade
529-055-00	55×3pcs	0
529-055-01	55×3pcs	1

Supplied 55 different size, unit:mm

0.118	0.260	0.572	1.302	2.020	2.886	3.580	4.773
0.142	0.291	0.724	1.441	2.050	3.106	3.666	5.150
0.170	0.343	0.796	1.553	2.071	3.177	4.091	5.176
0.185	0.402	0.866	1.591	2.217	3.287	4.120	5.493
0.201	0.433	1.008	1.732	2.311	3.310	4.141	6.212
0.232	0.461	1.047	1.833	2.595	3.468	4.211	6.585
0.250	0.511	1.157	1.883	2.866	3.550	4.400	

SERIES 531 SETTING RING

CUSTOM-MADE
other sizes are available upon request

- For inside micrometer and bore gage setting
- Deviation (difference between the order size and the size marked on supplied setting ring)
  Ø2-100: ±3.0μm Ø100-300: ±5.0μm
- Accuracy: Ø2-100: ±1.0μm
  Ø100-250: ±2.0μm Ø250-300: ±2.5μm
- Range: Ø2-300mm

531-040-01

Code	Size(mm)
531-002-01	Ø2
531-003-01	Ø3
531-004-01	Ø4
531-005-01	Ø5
531-006-01	Ø6
531-007-01	Ø7
531-008-01	Ø8
531-009-01	Ø9
531-010-01	Ø10
531-011-01	Ø11
531-012-01	Ø12
531-013-01	Ø13
531-014-01	Ø14
531-015-01	Ø15

Code	Size(mm)
531-016-01	Ø16
531-017-01	Ø17
531-018-01	Ø18
531-019-01	Ø19
531-020-01	Ø20
531-021-01	Ø21
531-022-01	Ø22
531-023-01	Ø23
531-024-01	Ø24
531-025-01	Ø25
531-026-01	Ø26
531-027-01	Ø27
531-028-01	Ø28
531-029-01	Ø29

Code	Size(mm)
531-030-01	Ø30
531-031-01	Ø31
531-032-01	Ø32
531-033-01	Ø33
531-034-01	Ø34
531-035-01	Ø35
531-036-01	Ø36
531-037-01	Ø37
531-038-01	Ø38
531-039-01	Ø39
531-040-01	Ø40
531-041-01	Ø41
531-042-01	Ø42
531-043-01	Ø43

Code	Size(mm)
531-044-01	Ø44
531-045-01	Ø45
531-046-01	Ø46
531-047-01	Ø47
531-048-01	Ø48
531-049-01	Ø49
531-050-01	Ø50
531-055-01	Ø55
531-060-01	Ø60
531-062-01	Ø62
531-065-01	Ø65
531-070-01	Ø70
531-075-01	Ø75
531-080-01	Ø80

Code	Size(mm)
531-085-01	Ø85
531-087-01	Ø87
531-090-01	Ø90
531-095-01	Ø95
531-100-01	Ø100
531-125-01	Ø125
531-150-01	Ø150
531-175-01	Ø175
531-200-01	Ø200
531-225-01	Ø225
531-250-01	Ø250
531-275-01	Ø275
531-300-01	Ø300

SERIES 541 PLAIN PLUG GAUGE

CUSTOM-MADE
other sizes are available upon request

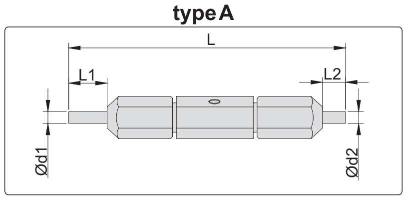
- Grade H7
- Hardness HRC 60±2
- Confirms to standard GB/T 1957-2006
- Supplied range from 1mm to 100mm

541-020-17

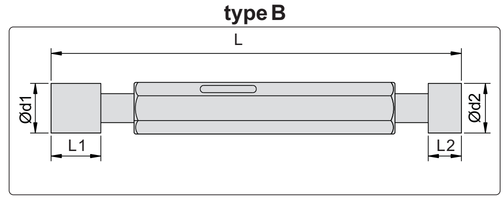
541-006-17

unit: mm

type A

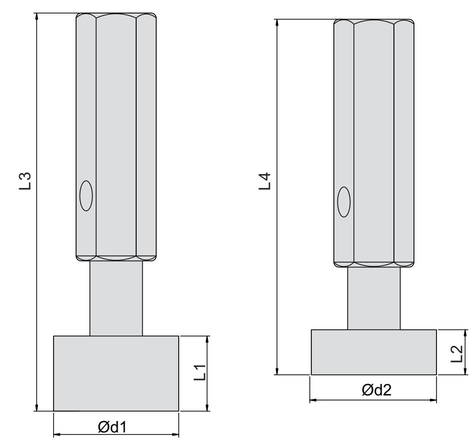


type B



Diameter Ød (mm)	Ød1 size tolerance of Go gage (mm)	Ød2 size tolerance of Go gage (mm)	L1	L2	L	L3	L4
≥2 ≤3	+0.0010, +0.0022	+0.0088, +0.010	6.5	4.5	62		
>3 ≤6	+0.0013, +0.0027	+0.0106, +0.012	8	6	74		
>6, ≤10	+0.0015, +0.0033	+0.0132, +0.015	10	7	87		
>10, ≤14	+0.0018, +0.0038	+0.0160, +0.018	12	8	99		
>14, ≤18	+0.0018, +0.0038	+0.0160, +0.018	14	10	114		
>18, ≤24	+0.0023, +0.0046	+0.0186, +0.021	16	12	132		
>24, ≤30	+0.0023, +0.0046	+0.0186, +0.021	18	14	136		
>30, ≤40	+0.0023, +0.0055	+0.0220, +0.025	20	15	155		
>40, ≤50	+0.0023, +0.0055	+0.0220, +0.025	25	18	169		
>50, ≤65	+0.0028, +0.0064	+0.0264, +0.030	30	18		164	165
>65, ≤80	+0.0028, +0.0064	+0.0264, +0.030	35	25		169	159
>80, ≤100	+0.0032, +0.0075	+0.0308, +0.035	35	25		169	159

type C

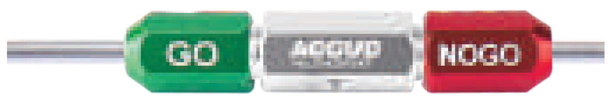


Code	Diameter Ød (mm)	Type	Code	Diameter Ød (mm)	Type	Code	Diameter Ød (mm)	Type	Code	Diameter Ød (mm)	Type
541-002-17	2	A	541-017-17	17	B	541-032-17	32	B	541-047-17	47	B
541-003-17	3	A	541-018-17	18	B	541-033-17	33	B	541-048-17	48	B
541-004-17	4	A	541-019-17	19	B	541-034-17	34	B	541-049-17	49	B
541-005-17	5	A	541-020-17	20	B	541-035-17	35	B	541-050-17	50	B
541-006-17	6	A	541-021-17	21	B	541-036-17	36	B	541-052-17	52	C
541-007-17	7	A	541-022-17	22	B	541-037-17	37	B	541-055-17	55	C
541-008-17	8	A	541-023-17	23	B	541-038-17	38	B	541-060-17	60	C
541-009-17	9	B	541-024-17	24	B	541-039-17	39	B	541-065-17	65	C
541-010-17	10	B	541-025-17	25	B	541-040-17	40	B	541-070-17	70	C
541-011-17	11	B	541-026-17	26	B	541-041-17	41	B	541-075-17	75	C
541-012-17	12	B	541-027-17	27	B	541-042-17	42	B	541-080-17	80	C
541-013-17	13	B	541-028-17	28	B	541-043-17	43	B	541-085-17	85	C
541-014-17	14	B	541-029-17	29	B	541-044-17	44	B	541-090-17	90	C
541-015-17	15	B	541-030-17	30	B	541-045-17	45	B	541-095-17	95	C
541-016-17	16	B	541-031-17	31	B	541-046-17	46	B	541-100-17	100	C

CARBIDE PLAIN PLUG GAUGE

CUSTOM-MADE
Size between 1 to 30mm, are available upon request

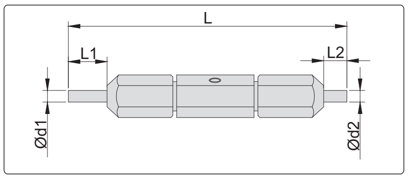
541-020-17T



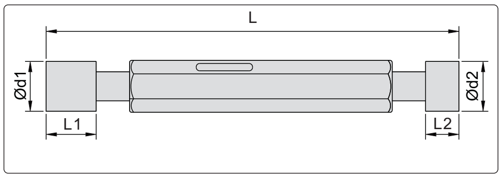
541-006-17T

unit: mm

type A



type B



- Grade H7
- Hardness HRC 85-89
- Supplied range from 1mm to 30mm

Diameter Ød (mm)	Ød1 size tolerance of Go gage (mm)	Ød2 size tolerance of Go gage (mm)	L1	L2	L
≥2 ≤3	+0.0010, +0.0022	+0.0088, +0.010	6.5	4.5	62
>3 ≤6	+0.0013 , +0.0027	+0.0106, +0.012	8	6	74
>6, ≤10	+0.0015 , +0.0033	+0.0132, +0.015	10	7	87
>10, ≤14	+0.0018 , +0.0038	+0.0160, +0.018	12	8	99
>14, ≤18	+0.0018, +0.0038	+0.0160, +0.018	14	10	114
>18, ≤24	+0.0023 , +0.0046	+0.0186, +0.021	16	12	132
>24, ≤30	+0.0023 , +0.0046	+0.0186, +0.021	18	14	136

Code	Diameter Ød (mm)	Type
541-002-17T	2	A
541-003-17T	3	A
541-004-17T	4	A
541-005-17T	5	A
541-006-17T	6	A
541-007-17T	7	A
541-008-17T	8	A
541-009-17T	9	B
541-010-17T	10	B
541-011-17T	11	B
541-012-17T	12	B
541-013-17T	13	B
541-014-17T	14	B
541-015-17T	15	B
541-016-17T	16	B

Code	Diameter Ød (mm)	Type
541-017-17T	17	B
541-018-17T	18	B
541-019-17T	19	B
541-020-17T	20	B
541-021-17T	21	B
541-022-17T	22	B
541-023-17T	23	B
541-024-17T	24	B
541-025-17T	25	B
541-026-17T	26	B
541-027-17T	27	B
541-028-17T	28	B
541-029-17T	29	B
541-030-17T	30	B

532/533/534/535 THREAD RING GAUGE

CUSTOM-MADE
other sizes are available upon request

- Grade 6g
- Meet ISO1502
- Hardness HRC60-62

532-020-01

533-020-01

STANDARD THREAD

Code(GO)	Code(NOGO)	Size(mm)
532-002-01	533-002-01	M2x0.4
532-002-21	533-002-21	M2.2x0.45
532-002-51	533-002-51	M2.5x0.45
532-003-01	533-003-01	M3x0.5
532-003-51	533-003-51	M3.5x0.6
532-004-01	533-004-01	M4x0.7
532-005-01	533-005-01	M5x0.8
532-006-01	533-006-01	M6x1
532-008-01	533-008-01	M8x1.25

Code(GO)	Code(NOGO)	Size(mm)
532-010-01	533-010-01	M10x1.5
532-012-01	533-012-01	M12x1.75
532-014-01	533-014-01	M14x2
532-016-01	533-016-01	M16x2
532-018-01	533-018-01	M18x2.5
532-020-01	533-020-01	M20x2.5
532-022-01	533-022-01	M22x2.5
532-024-01	533-024-01	M24x3
532-027-01	533-027-01	M27x3

Code(GO)	Code(NOGO)	Size(mm)
532-030-01	533-030-01	M30x3.5
532-033-01	533-033-01	M33x3.5
532-036-01	533-036-01	M36x4
532-042-01	533-042-01	M42x4.5
532-048-01	533-048-01	M48x5
532-052-01	533-052-01	M52x5
532-060-01	533-060-01	M60x5.5

FINE THREAD

Code(GO)	Code(NOGO)	Size(mm)
534-002-01	535-002-01	M2x0.25
534-002-21	535-002-21	M2.2x0.25
534-002-51	535-002-51	M2.5x0.35
534-003-01	535-003-01	M3x0.35
534-003-51	535-003-51	M3.5x0.35
534-004-01	535-004-01	M4x0.5
534-005-01	535-005-01	M5x0.5
534-006-01	535-006-01	M6x0.5
534-006-02	535-006-02	M6x0.75
534-007-01	535-007-01	M7x0.5
534-007-02	535-007-02	M7x0.75
534-008-01	535-008-01	M8x0.5
534-008-02	535-008-02	M8x0.75
534-008-03	535-008-03	M8x1
534-009-01	535-009-01	M9x0.5
534-009-02	535-009-02	M9x0.75
534-009-03	535-009-03	M9x1
534-010-01	535-010-01	M10x0.5
534-010-02	535-010-02	M10x0.75
534-010-03	535-010-03	M10x1
534-010-04	535-010-04	M10x1.25
534-011-02	535-011-02	M11x0.75
534-011-03	535-011-03	M11x1
534-012-01	535-012-01	M12x0.5
534-012-02	535-012-02	M12x0.75
534-012-03	535-012-03	M12x1
534-012-04	535-012-04	M12x1.25
534-012-05	535-012-05	M12x1.5
534-014-01	535-014-01	M14x0.5
534-014-02	535-014-02	M14x0.75
534-014-03	535-014-03	M14x1
534-014-04	535-014-04	M14x1.25
534-014-05	535-014-05	M14x1.5
534-016-01	535-016-01	M16x0.5
534-016-02	535-016-02	M16x0.75
534-016-03	535-016-03	M16x1
534-016-04	535-016-04	M16x1.5

Code(GO)	Code(NOGO)	Size(mm)
534-018-01	535-018-01	M18x0.5
534-018-02	535-018-02	M18x0.75
534-018-03	535-018-03	M18x1
534-018-04	535-018-04	M18x1.5
534-018-05	535-018-05	M18x2
534-020-01	535-020-01	M20x0.5
534-020-02	535-020-02	M20x0.75
534-020-03	535-020-03	M20x1
534-020-04	535-020-04	M20x1.5
534-020-05	535-020-05	M20x2
534-022-01	535-022-01	M22x0.5
534-022-02	535-022-02	M22x0.75
534-022-03	535-022-03	M22x1
534-022-04	535-022-04	M22x1.5
534-022-05	535-022-05	M22x2
534-024-01	535-024-01	M24x0.75
534-024-02	535-024-02	M24x1
534-024-03	535-024-03	M24x1.5
534-024-04	535-024-04	M24x2
534-027-01	535-027-01	M27x0.75
534-027-02	535-027-02	M27x1
534-027-03	535-027-03	M27x1.5
534-027-04	535-027-04	M27x2
534-030-01	535-030-01	M30x0.75
534-030-02	535-030-02	M30x1
534-030-03	535-030-03	M30x1.5
534-030-04	535-030-04	M30x2
534-030-05	535-030-05	M30x3
534-033-01	535-033-01	M33x0.75
534-033-02	535-033-02	M33x1
534-033-03	535-033-03	M33x1.5
534-033-04	535-033-04	M33x2
534-033-05	535-033-05	M33x3
534-036-01	535-036-01	M36x1
534-036-02	535-036-02	M36x1.5
534-036-03	535-036-03	M36x2
534-036-04	535-036-04	M36x3

Code(GO)	Code(NOGO)	Size(mm)
534-039-01	535-039-01	M39x1
534-039-02	535-039-02	M39x1.5
534-039-03	535-039-03	M39x2
534-039-04	535-039-04	M39x3
534-042-01	535-042-01	M42x1
534-042-02	535-042-02	M42x1.5
534-042-03	535-042-03	M42x2
534-042-04	535-042-04	M42x3
534-042-05	535-042-05	M42x4
534-045-01	535-045-01	M45x1
534-045-02	535-045-02	M45x1.5
534-045-03	535-045-03	M45x2
534-045-04	535-045-04	M45x3
534-045-05	535-045-05	M45x4
534-048-01	535-048-01	M48x1
534-048-02	535-048-02	M48x1.5
534-048-03	535-048-03	M48x2
534-048-04	535-048-04	M48x3
534-048-05	535-048-05	M48x4
534-052-01	535-052-01	M52x1
534-052-02	535-052-02	M52x1.5
534-052-03	535-052-03	M52x2
534-052-04	535-052-04	M52x3
534-052-05	535-052-05	M52x4
534-056-01	535-056-01	M56x1
534-056-02	535-056-02	M56x1.5
534-056-03	535-056-03	M56x2
534-056-04	535-056-04	M56x3
534-056-05	535-056-05	M56x4
534-060-01	535-060-01	M60x1
534-060-02	535-060-02	M60x1.5
534-060-03	535-060-03	M60x2
534-060-04	535-060-04	M60x3
534-060-05	535-060-05	M60x4

SERIES 542 THREAD PLUG GAUGE

CUSTOM-MADE
other sizes are available upon request

- Grade 6H
- Meet ISO1502
- Hardness HRC60-62

542-024-01

Code	Size(mm)	Code	Size(mm)	Code	Size(mm)	Code	Size(mm)
542-002-01	M2x0.4	542-007-01	M7x1	542-018-01	M18x2.5	542-039-01	M39x4
542-002-21	M2.2x0.45	542-008-01	M8x1.25	542-020-01	M20x2.5	542-042-01	M42x4.5
542-002-51	M2.5x0.45	542-009-01	M9x1.25	542-022-01	M22x2.5	542-045-01	M45x4.5
542-003-01	M3x0.5	542-010-01	M10x1.5	542-024-01	M24x3	542-048-01	M48x5
542-003-02	M3.5x0.6	542-011-01	M11x1.5	542-027-01	M27x3	542-052-01	M52x5
542-004-01	M4x0.7	542-012-01	M12x1.75	542-030-01	M30x3.5	542-056-01	M56x5.5
542-005-01	M5x0.8	542-014-01	M14x2	542-033-01	M33x3.5	542-060-01	M60x5.5
542-006-01	M6x1	542-016-01	M16x2	542-036-01	M36x4		

SERIES 543 FINE THREAD PLUG GAUGE

CUSTOM-MADE
other sizes are available upon request

- Grade 6H
- Meet ISO1502
- Hardness HRC60-62 , good wear resistance

543-020-01

Code	Size(mm)	Code	Size(mm)	Code	Size(mm)	Code	Size(mm)	Code	Size(mm)
543-002-01	M2x0.25	543-011-02	M11x0.75	543-020-02	M20x0.75	543-033-01	M33x0.75	543-045-05	M45x4
543-002-21	M2.2x0.25	543-011-03	M11x1	543-020-03	M20x1	543-033-02	M33x1	543-048-01	M48x1
543-002-31	M2.5x0.35	543-012-01	M12x0.5	543-020-04	M20x1.5	543-033-03	M33x1.5	543-048-02	M48x1.5
543-003-01	M3x0.35	543-012-02	M12x0.75	543-020-05	M20x2	543-033-04	M33x2	543-048-03	M48x2
543-003-02	M3.5x0.35	543-012-03	M12x1	543-022-01	M22x0.5	543-033-05	M33x3	543-048-04	M48x3
543-004-01	M4x0.5	543-012-04	M12x1.25	543-022-02	M22x0.75	543-036-01	M36x1	543-048-05	M48x4
543-005-01	M5x0.5	543-012-05	M12x1.5	543-022-03	M22x1	543-036-02	M36x1.5	543-052-01	M52x1
543-006-01	M6x0.5	543-014-01	M14x0.5	543-022-04	M22x1.5	543-036-03	M36x2	543-052-02	M52x1.5
543-006-02	M6x0.75	543-014-02	M14x0.75	543-022-05	M22x2	543-036-04	M36x3	543-052-03	M52x2
543-007-01	M7x0.5	543-014-03	M14x1	543-024-01	M24x0.75	543-039-01	M39x1	543-052-04	M52x3
543-007-02	M7x0.75	543-014-04	M14x1.25	543-024-02	M24x1	543-039-02	M39x1.5	543-052-05	M52x4
543-008-01	M8x0.5	543-014-05	M14x1.5	543-024-03	M24x1.5	543-039-03	M39x2	543-056-01	M56x1
543-008-02	M8x0.75	543-016-01	M16x0.5	543-024-04	M24x2	543-039-04	M39x3	543-056-02	M56x1.5
543-008-03	M8x1	543-016-02	M16x0.75	543-027-01	M27x0.75	543-042-01	M42x1	543-056-03	M56x2
543-009-01	M9x0.5	543-016-03	M16x1	543-027-02	M27x1	543-042-02	M42x1.5	543-056-04	M56x3
543-009-02	M9x0.75	543-016-04	M16x1.5	543-027-03	M27x1.5	543-042-03	M42x2	543-056-05	M56x4
543-009-03	M9x1	543-018-01	M18x0.5	543-027-04	M27x2	543-042-04	M42x3	543-060-01	M60x1
543-010-01	M10x0.5	543-018-02	M18x0.75	543-030-01	M30x0.75	543-042-05	M42x4	543-060-02	M60x1.5
543-010-02	M10x0.75	543-018-03	M18x1	543-030-02	M30x1	543-045-01	M45x1	543-060-03	M60x2
543-010-03	M10x1	543-018-04	M18x1.5	543-030-03	M30x1.5	543-045-02	M45x1.5	543-060-04	M60x3
543-010-04	M10x1.25	543-018-05	M18x2	543-030-04	M30x2	543-045-03	M45x2	543-060-05	M60x4
543-011-01	M11x0.5	543-020-01	M20x0.5	543-030-05	M30x3	543-045-04	M45x3		

SERIES 537/538

AMERICAN STANDARD THREAD RING GAUGE

CUSTOM-MADE
other sizes are available upon request

- Class 2A
- Conforms to standard ANSI B1.2
- Made of Oil Hardened Non-shringking steel
- Hardness HRC60-62

537-71620-UNF

Code(GO)	Code(NOGO)	Size
537-00440-UNC	538-00440-UNC	4-40UNC
537-04048-UNF	538-04048-UNF	4-48UNF
537-00632-UNC	538-00632-UNC	6-32UNC
537-06040-UNF	538-06040-UNF	6-40UNF
537-00832-UNC	538-00832-UNC	8-32UNC
537-08036-UNF	538-08036-UNF	8-36UNF
537-01024-UNC	538-01024-UNC	10-24UNC
537-01032-UNF	538-01032-UNF	10-32UNF
537-01420-UNC	538-01420-UNC	1/4-20UNC
537-01428-UNF	538-01428-UNF	1/4-28UNF
537-51618-UNC	538-51618-UNC	5/16-18UNC
537-51624-UNF	538-51624-UNF	5/16-24UNF
537-03816-UNC	538-03816-UNC	3/8-16UNC
537-03824-UNF	538-03824-UNF	3/8-24UNF

Code(GO)	Code(NOGO)	Size
537-71614-UNC	538-71614-UNC	7/16-14UNC
537-71620-UNF	538-71620-UNF	7/16-20 UNF
537-01213-UNC	538-01213-UNC	1/2-13 UNC
537-01220-UNF	538-01220-UNF	1/2-20 UNF
537-91612-UNC	538-91612-UNC	9/16-12UNC
537-91618-UNF	538-91618-UNF	9/16-18UNF
537-05811-UNC	538-05811-UNC	5/8-11UNC
537-05818-UNF	538-05818-UNF	5/8-18UNF
537-03410-UNC	538-03410-UNC	3/4-10UNC
537-03416-UNF	538-03416-UNF	3/4-16UNF
537-07809-UNC	538-07809-UNC	7/8-9UNC
537-07814-UNF	538-07814-UNF	7/8-14UNF
537-01080-UNC	538-01080-UNC	1-8 UNC
537-01012-UNF	538-01012-UNF	1-12UNF

SERIES 547

AMERICAN STANDARD THREAD PLUG GAUGE

CUSTOM-MADE
other sizes are available upon request

- Class 2B
- Conforms to standard ANSI B1.2
- Made of Oil Hardened Non-shringking steel
- Hardness HRC60-62

547-71620-UNF

Code(GO)	Size
547-00440-UNC	4-40UNC
547-04048-UNF	4-48UNF
547-00632-UNC	6-32UNC
547-06040-UNF	6-40UNF
547-00832-UNC	8-32UNC
547-08036-UNF	8-36UNF
547-01024-UNC	10-24UNC
547-01032-UNF	10-32UNF
547-01420-UNC	1/4-20UNC
547-01428-UNF	1/4-28UNF

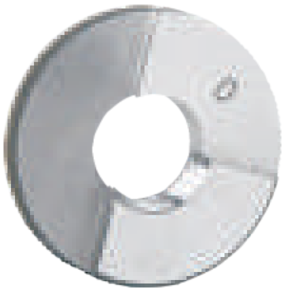
Code(GO)	Size
547-51618-UNC	5/16-18UNC
547-51624-UNF	5/16-24UNF
547-03816-UNC	3/8-16UNC
547-03824-UNF	3/8-24UNF
547-71614-UNC	7/16-14UNC
547-71620-UNF	7/16-20 UNF
547-01213-UNC	1/2-13 UNC
547-01220-UNF	1/2-20 UNF
547-91612-UNC	9/16-12UNC
547-91618-UNF	9/16-18UNF

Code(GO)	Size
547-05811-UNC	5/8-11UNC
547-05818-UNF	5/8-18UNF
547-03410-UNC	3/4-10UNC
547-03416-UNF	3/4-16UNF
547-07809-UNC	7/8-9UNC
547-07814-UNF	7/8-14UNF
547-01080-UNC	1-8 UNC
547-01012-UNF	1-12UNF

SERIES 544 NPT THREAD GAUGE

- Conforms to standard ANSI/ASME B1.20.1
- Taper: 1:16
- Made of Oil Hardened Non-shringking steel

RING GAUGE



544-014-01R

Code	Size	Code	Size
544-027-04R	NPT 1/16" x 27	544-11D5-12R	NPT1-1/4"x11.5
544-027-03R	NPT 1/8" x 27	544-11D5-11R	NPT1-1/2"x11.5
544-018-02R	NPT1/4" x 18	544-11D5-20R	NPT2"X11.5
544-018-33R	NPT3/8"x18	544-008-21R	NPT2-1/2"X8
544-014-01R	NPT1/2" x 14	544-008-30R	NPT3"X8
544-014-32R	NPT3/4"x14	544-008-32R	NPT3-1/2"X8
544-11D5-10R	NPT1"x11.5	544-008-40R	NPT4"X8

SERIES 544 NPT THREAD GAUGE

- Conforms to standard ANSI/ASME B1.20.1
- Taper: 1:16
- Made of Oil Hardened Non-shringking steel

PLUG GAUGE

544-014-01

Code	Size	Code	Size
544-027-04	NPT 1/16" x 27	544-11D5-12	NPT1-1/4"x11.5
544-027-03	NPT 1/8" x 27	544-11D5-11	NPT1-1/2"x11.5
544-018-02	NPT1/4" x 18	544-11D5-20	NPT2"X11.5
544-018-33	NPT3/8"x18	544-008-21	NPT2-1/2"X8
544-014-01	NPT1/2" x 14	544-008-30	NPT3"X8
544-014-32	NPT3/4"x14	544-008-32	NPT3-1/2"X8
544-11D5-10	NPT1"x11.5	544-008-40	NPT4"X8

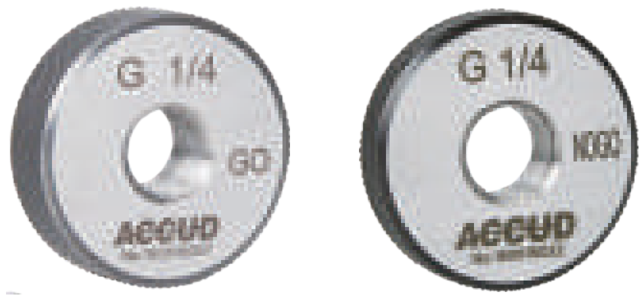
ACCUD

SERIES 535/536

WITHWORTH PIPE THREAD GAUGE (G SERIES)

- Conforms to standard ISO228
- Class B

RING GAUGE



535-0250-01　　536-0250-01

Code(GO)	Code(NOGO)	Size
535-0125-01	536-0125-01	G1/8-28
535-0250-01	536-0250-01	G1/4-19
535-0375-01	536-0375-01	G3/8-19
535-0500-01	536-0500-01	G1/2-14
535-0625-01	536-0625-01	G5/8-14
535-0750-01	536-0750-01	G3/4-14
535-0875-01	536-0875-01	G7/8-14
535-1000-01	536-1000-01	G1-11

Code(GO)	Code(NOGO)	Size
535-1125-01	536-1125-01	G1-1/8-11
535-1250-01	536-1250-01	G1-1/4-11
535-1500-01	536-1500-01	G1-1/2-11
535-1750-01	536-1750-01	G1-3/4-11
535-2000-01	536-2000-01	G2-11
535-2500-01	536-2500-01	G2-1/2-11
535-3000-01	536-3000-01	G3-11
535-4000-01	536-4000-01	G4-11

SERIES 545

WITHWORTH PIPE THREAD GAUGE (G SERIES)

- Conforms to standard ISO228

PLUG GAUGE

545-0500-01

Code	Size	Code	Size
545-0125-01	G1/8-28	545-1125-01	G1-1/8-11
545-0250-01	G1/4-19	545-1250-01	G1-1/4-11
545-0375-01	G3/8-19	545-1500-01	G1-1/2-11
545-0500-01	G1/2-14	545-1750-01	G1-3/4-11
545-0625-01	G5/8-14	545-2000-01	G2-11
545-0750-01	G3/4-14	545-2500-01	G2-1/2-11
545-0875-01	G7/8-14	545-3000-01	G3-11
545-1000-01	G1-11	545-4000-01	G4-11

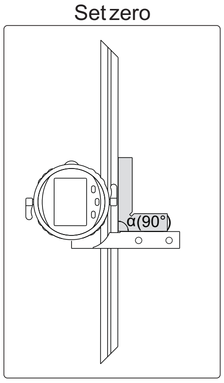
GAUGE

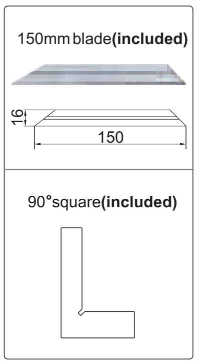
822 DIGITAL PROTRACTOR

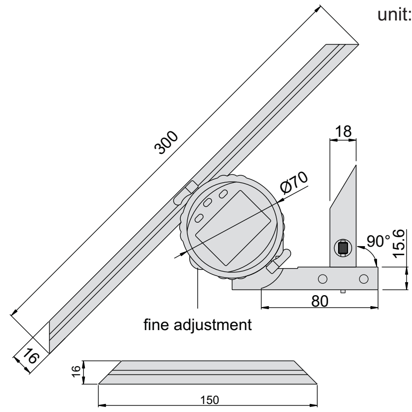
Data output
CR2032

- Button function:
  SET: preset the reading and change the measuring direction
  MODE: choose range 90°, 180°, 360°
  ZERO/ON/OFF: set zero and power on/off
- Data output
- With a 150mm blade and a 90° square
- Made of stainless steel

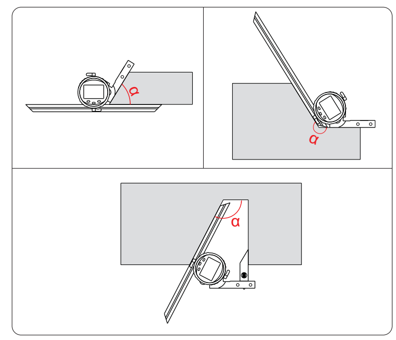
Set zero





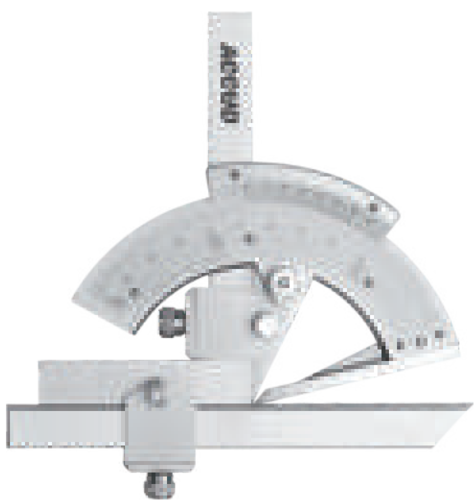


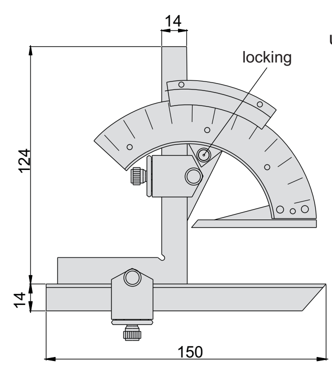
Application



Code	Range	Resolution	Accuracy
822-360-01	0 - 360°	10"/0.005°	±5'

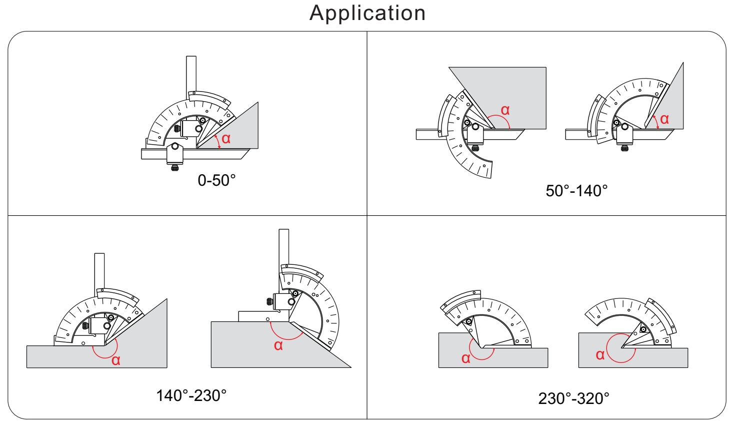
814 UNIVERSAL PROTRACTOR





- Graduation : 2'
- Made of stainless steel
- Satin chrome plated scale

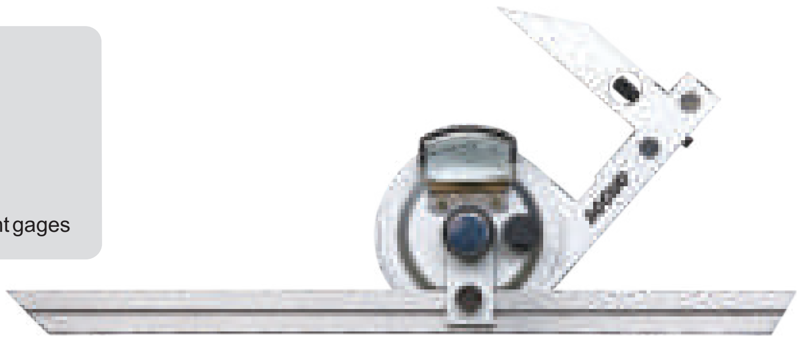
Application



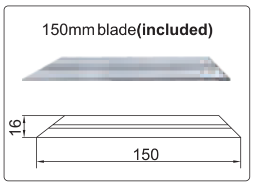
Code	Range	Accuracy
814-320-01	0 - 320°	±2'

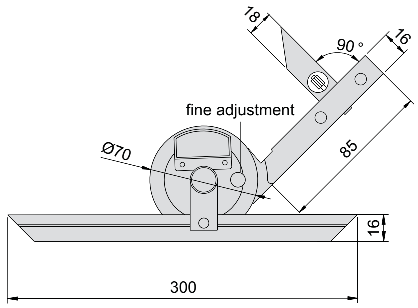
815 UNIVERSAL PROTRACTOR

- Graduation : 5'
- Parallax-free reading
- With one blade: 150mm
- Made of stainless steel
- Optional accessory: clamp for height gages

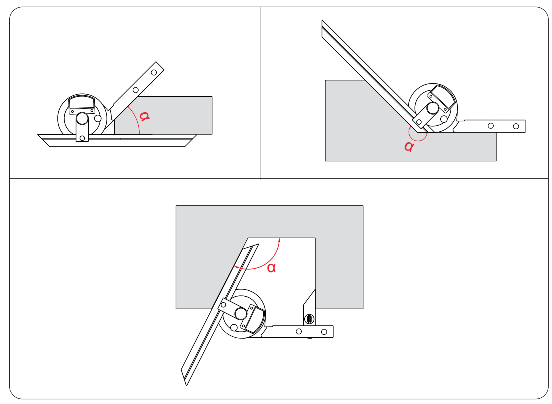


unit: mm





Application

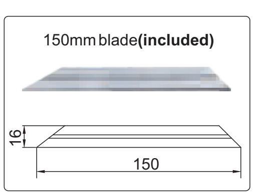


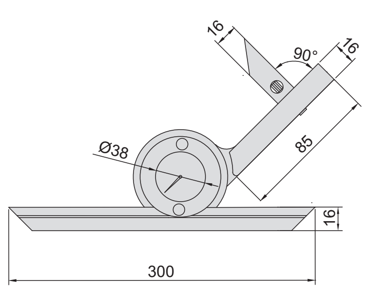
Code	Range	Accuracy
815-360-01	0-360°	±5'

816 UNIVERSAL PROTRACTOR

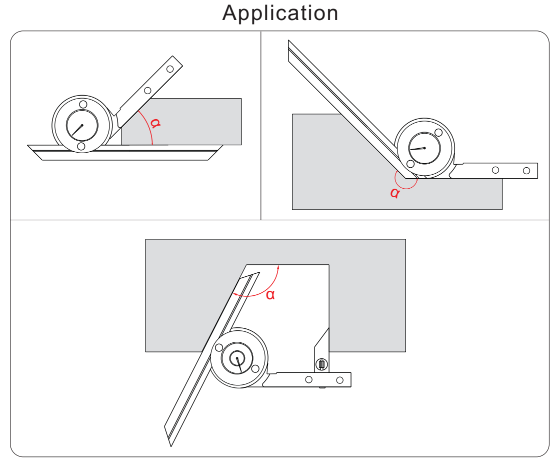
- Graduation : 5'
- With one blade: 150mm
- Made of carbon steel
- Optional accessory: clamp for height gages

unit: mm





Application

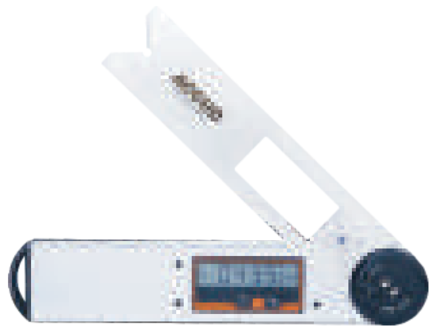


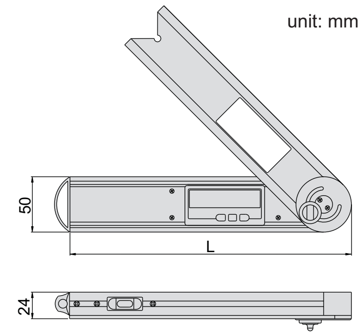
Code	Range	Accuracy
816-360-01	0-360°	±5'

726 DIGITAL PROTRACTOR

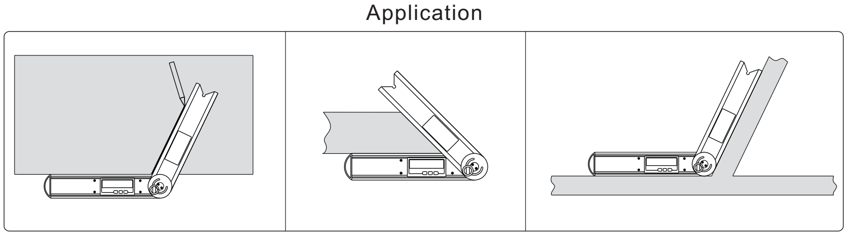
CR2032

- Buttons: ON/OFF, HOLD, ZERO, ABS
- Measuring ranges can be set 0°~225°, -225°~0°, -45°~180°, -180°~45°
- Remove the locking screw for 360° range
- With level vial
- Automatic power off





Application

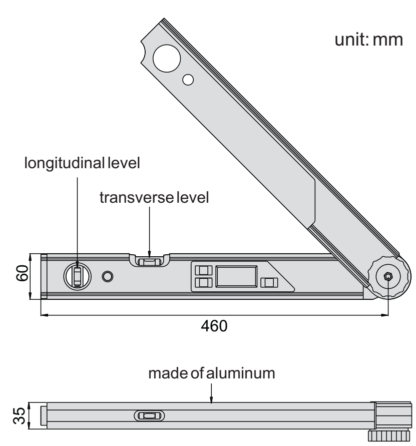


Code	Range	Resolution	Accuracy	Size(L)
726-360-01	0 - 360°	0.05°	±0.15°	250mm

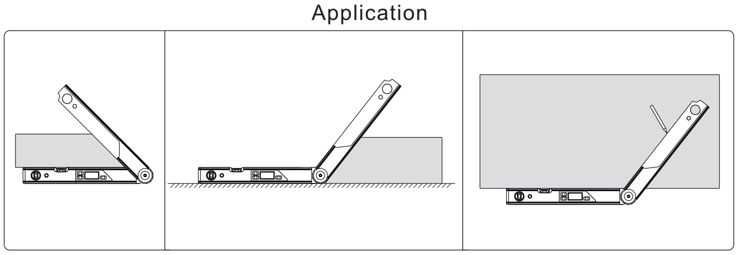
823 DIGITAL PROTRACTOR

AAA

- Suitable for setting horizontal and vertical mitre angles of cutting machines
- Buttons: on/off, HOLD/SUP, SPR/CNR/MTR/BVL
- IP54 dust/waterproof
- With transverse and longitudinal level
- Absolute level, zero setting is not needed when batteries are replaced
- Backlight turns off in one minute after reading is stable, automatic power off in 5 minutes



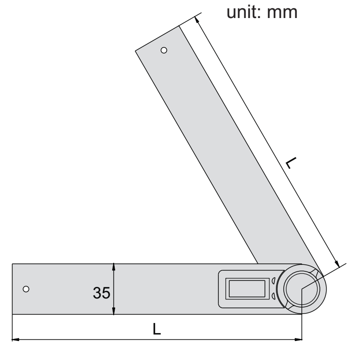
Application



Code	Range	Resolution	Accuracy
823-225-01	0 - 225°	0.05°	±0.10°

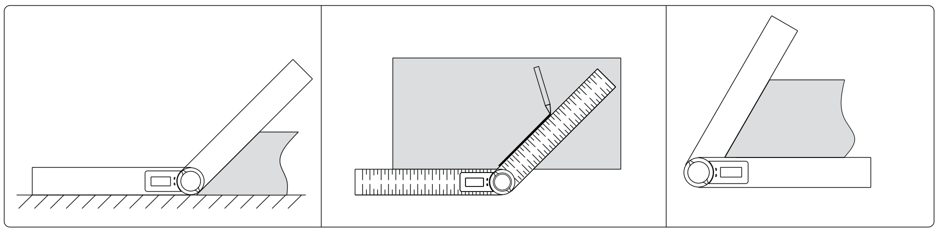
SERIES 821 DIGITAL PROTRACTOR

- Resolution: 0.1°
- Buttons: on/off, zero
- With locking attachment
- Rule graduation: 1mm and 1/32"
- Automatic power off



821-008-01

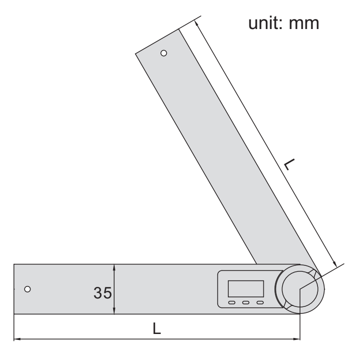
Application



Code	Size(L)	Range	Accuracy
821-008-01	200mm	0 - 360°	±0.3°
821-012-01	300mm	0 - 360°	±0.3°

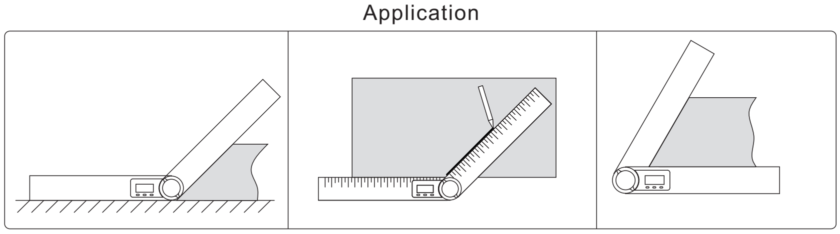
SERIES 821 DIGITAL PROTRACTOR

- Resolution: 0.1°
- Buttons: on/off, zero
- With locking attachment
- Rule graduation: 1mm and 1/32"
- Automatic power off



821-008-01N

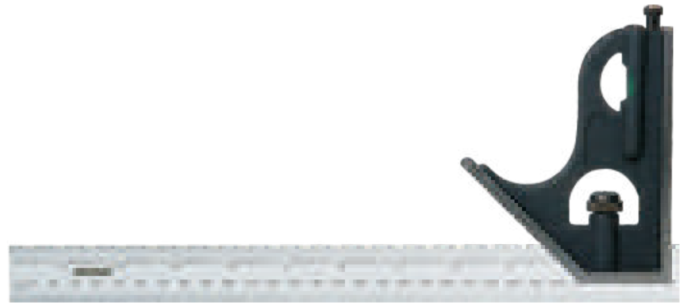
Application



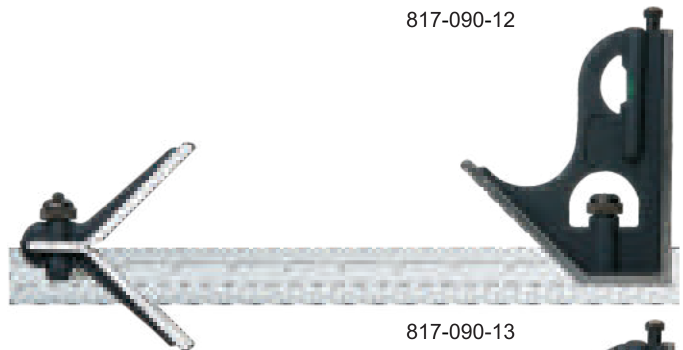
Code	Size(L)	Range	Accuracy
821-008-01N	200mm	0 - 360°	±0.3°
821-012-01N	300mm	0 - 360°	±0.3°

SERIES 817 COMBINATION SQUARE SET

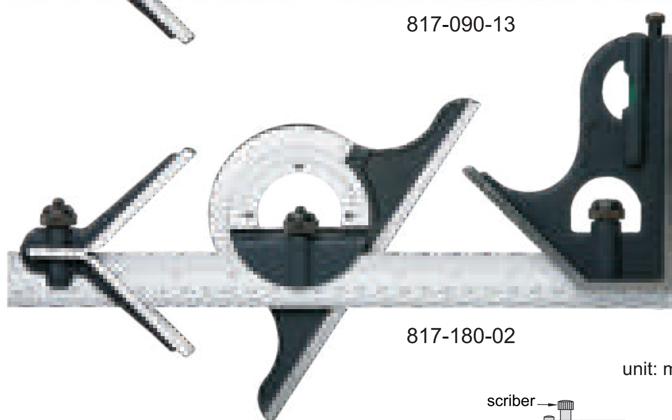
- Protractor (made of cast iron), only for **817-180-02**:
  Used to set an angle or angle measurement,
  measuring range: 0-180°, accuracy: ±20'
- Square (made of cast iron):
  Used as 90° square or 45° square
  accuracy of 90° square: ±8',
  accuracy of 45° square: ±10'
- Blade (made of stainless steel):
  Used as rule, measuring range: 300mm/12"
  front side graduation: 0.5mm and 1/32"
  reverse side graduation: 1mm and 1/64"
- Center finder (made of cast iron), only for **817-090-13** and **817-180-02**:
  To locate center of cylinders with diameter (Ød): 30-100mm, accuracy: ±0.15mm



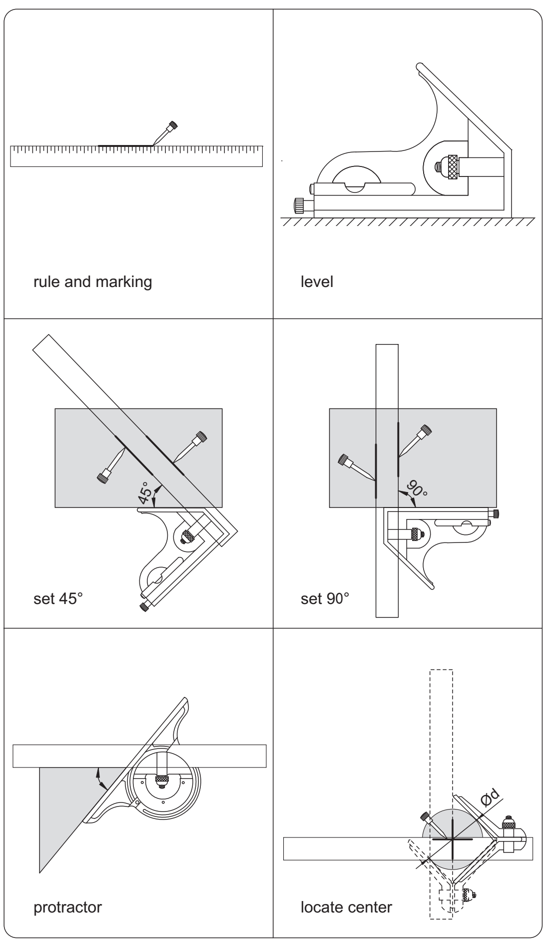
817-090-12



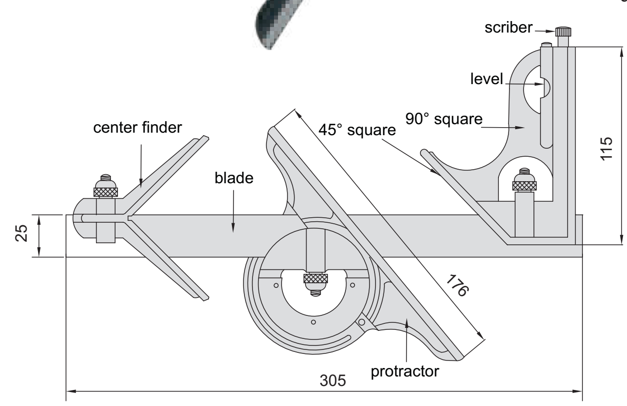
817-090-13



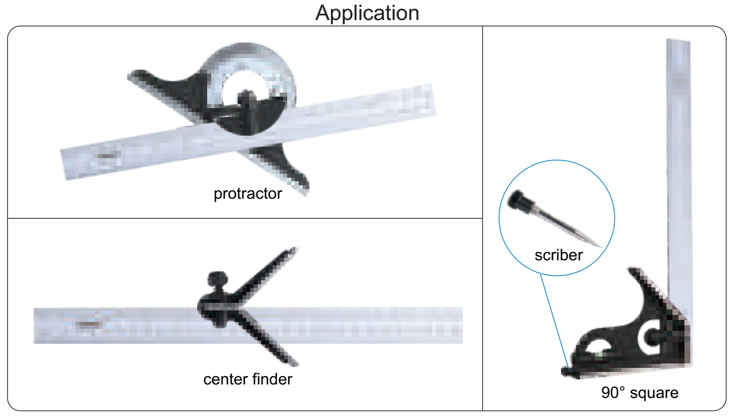
817-180-02



unit: mm



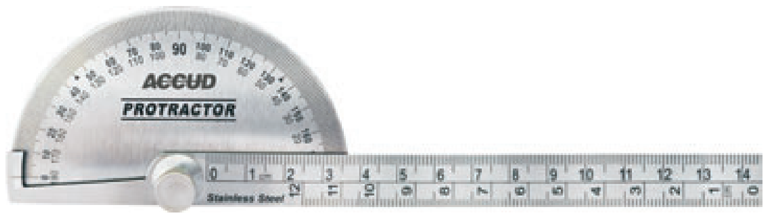
Application

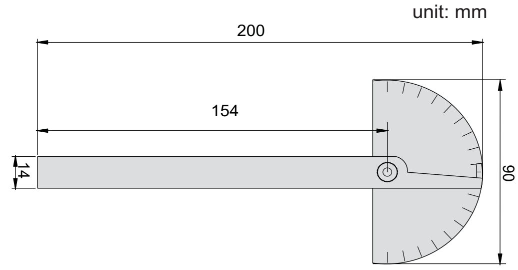


Code	Remark
817-090-12	2-piece set
817-090-13	3-piece set
817-180-02	4-piece set

811 PROTRACTOR

- Economic type
- Made of stainless steel
- With locking screw



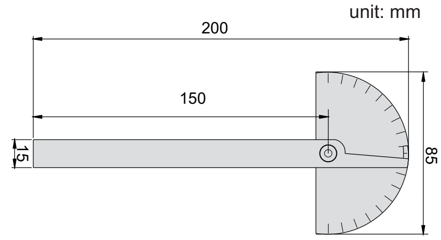


Code	Size	Range	Graduation	Accuracy
811-180-11	90x52mm	0 - 180°	1°	±0.3°

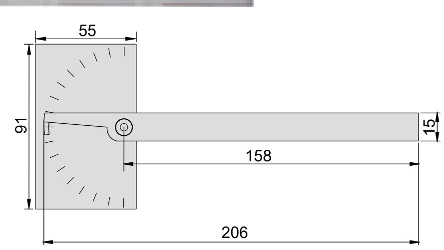
SERIES 811 PROTRACTOR

- Graduation : 1°
- Made of stainless steel
- Satin chrome plated scale
- With locking screw

811-180-01



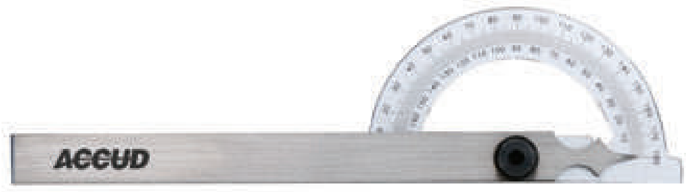
811-180-02



Code	Size	Range	Accuracy
811-180-01	85x150mm	0 - 180°	±0.3°
811-180-02	91x158mm	0 - 180°	±0.3°

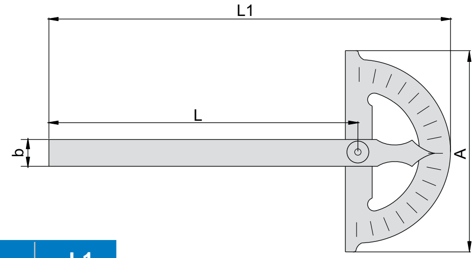
SERIES 812 PROTRACTOR

- Graduation : 1°
- Made of stainless steel
- Satin chrome plated scale
- With locking screw



812-003-01

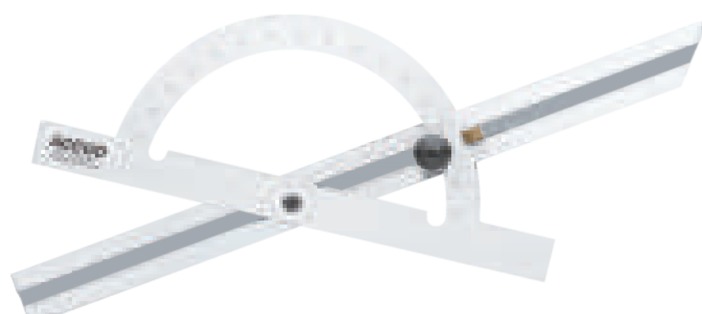
unit: mm



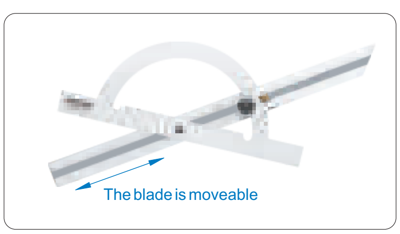
Code	Size(AxL)	Range	Accuracy	b	L1
812-003-01	80x120mm	0 - 180°	±0.3°	11	165
812-005-01	120x150mm	0 - 180°	±0.3°	13	215
812-006-01	150x200mm	0 - 180°	±0.3°	16	280
812-008-01	200x300mm	0 - 180°	±0.3°	20	410
812-012-01	300x500mm	0 - 180°	±0.3°	30	675

SERIES 813 PROTRACTOR

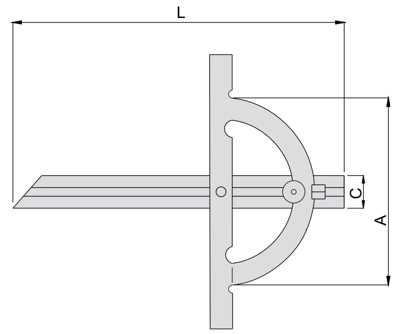
- Graduation : 1 °
- Made of stainless steel
- Satin chrome plated scale
- The blade is moveable



813-012-01



unit: mm



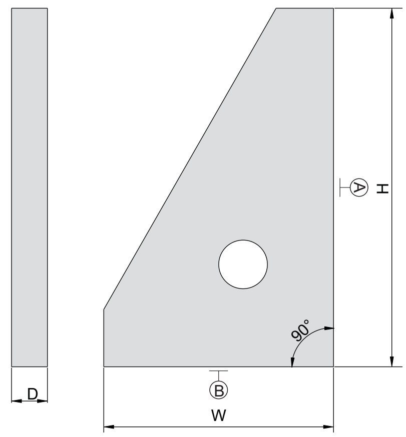
Code	Size(AxL)	Range	Accuracy	C
813-006-01	100x150mm	10 - 170°	±0.3°	18
813-012-01	150x300mm	10 - 170°	±0.3°	18
813-016-01	200x400mm	10 - 170°	±0.3°	20
813-020-01	250x500mm	10 - 170°	±0.3°	20
813-024-01	300x600mm	10 - 170°	±0.3°	20

SERIES 643 GRANITE SQUARE

CUSTOM-MADE
other sizes are available
upon request

643-010-01

unit: mm



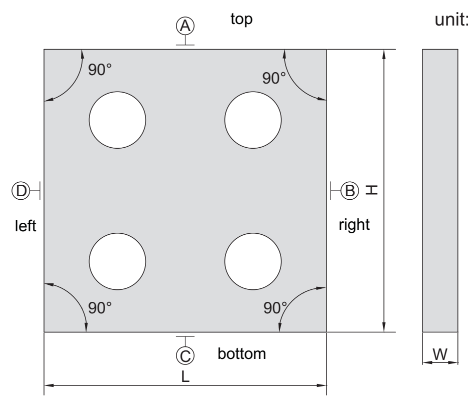
Code	Size(HxW)	Flatness (A)	Flatness (B)	Squareness(A and B)	D
643-010-01	250x160mm	1μm	1μm	2μm	50mm
643-016-01	400x250mm	1.5μm	1μm	3μm	50mm
643-024-01	630x400mm	2μm	1.5μm	4μm	60mm

SERIES 644 GRANITE SQUARE

CUSTOM-MADE
other sizes are available
upon request

644-012-01

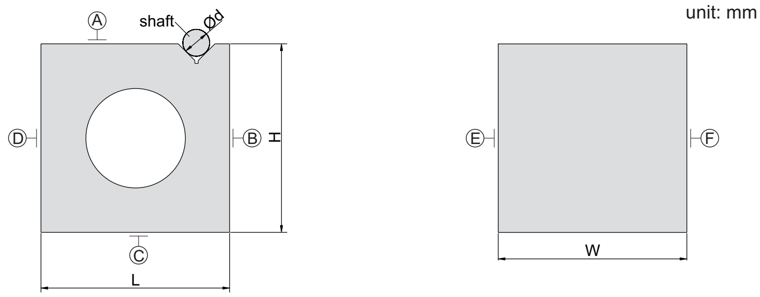
unit: mm



Code	Size(LxH)	Flatness (A, B, C and D)	Parallelism or squareness (A, B, C and D)	W
644-012-01	315x315mm	1.1μm	2.6μm	40
644-020-01	500x500mm	1.5μm	3.5μm	60

645 GRANITE SQUARE AND V-BLOCK

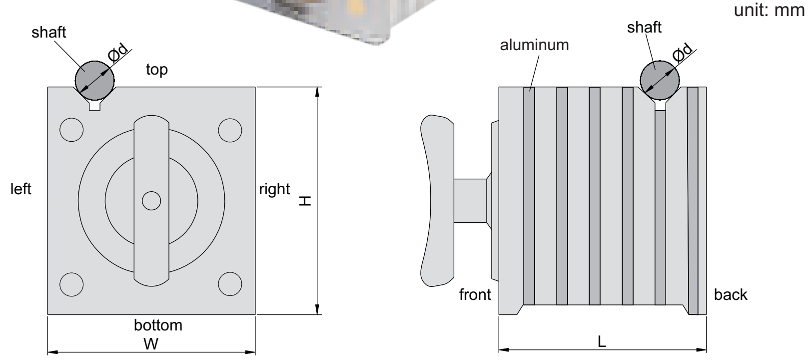
- Thread holes: M8



Code	Size(LxWxH)	Range of shafts (Ød)	Parallelism or squareness A, B, C, D, E and F	Parallelism or squareness of V grooves to A, B, C, D, E and F
645-006-01	160x160x160mm	6-42mm	6μm	6μm

SERIES 649 MAGNETIC SQUARE AND V-BLOCK

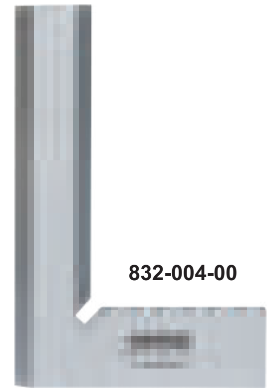
649-004-01



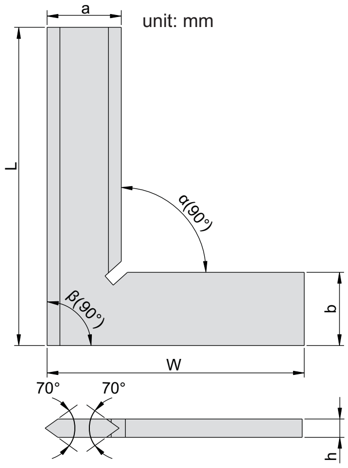
Code	Size(LxWxH)	Magnetic force	Range of shafts (Ød)	Parallelism or squareness between top, bottom, left, right and back sides	Parallelism or squareness of both V grooves to top, bottom, left, right and back sides
649-004-01	100x100x100mm	30kgf	6-36mm	10μm	10μm
649-006-01	150x150x150mm	40kgf	6-44mm	15μm	15μm

SERIES 832 90° BEVELED EDGE SQUARE

- Two beveled measuring faces
- Made of hardened stainless steel



832-004-00



Grade 00

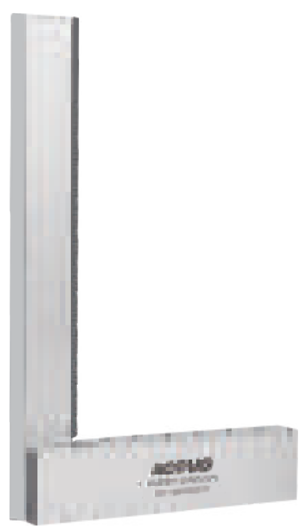
Code	Size(LxW)	Squareness(α)	Squareness(β)	Chrome plating	a	b	h
832-002-00	50x40mm	2.4μm	2.5μm	With	13	13	4
832-003-00	75x50mm	2.6μm	2.8μm	With	15	15	4
832-004-00	100x70mm	2.8μm	3.0μm	With	20	20	5
832-006-00	150x100mm	3.2μm	3.5μm	With	30	30	6
832-008-00	200x130mm	3.7μm	4.0μm	With	34	34	7
832-010-00	250x165mm	4.2μm	4.5μm	Without	35	35	7
832-012-00	300x200mm	4.6μm	5.0μm	Without	40	40	8

Grade 0

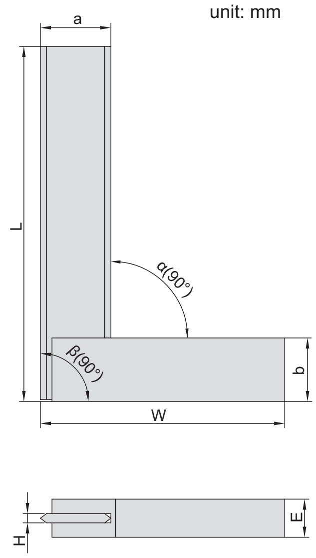
Code	Size(LxW)	Squareness(α)	Squareness(β)	Chrome plating	a	b	h
832-002-10	50x40mm	6μm	6μm	Without	13	13	4
832-003-10	75x50mm	6μm	7μm	Without	15	15	4
832-004-10	100x70mm	7μm	7μm	Without	20	20	5
832-006-10	150x100mm	7μm	8μm	Without	30	30	6
832-008-10	200x130mm	8μm	9μm	Without	34	34	7
832-010-10	250x165mm	9μm	10μm	Without	35	35	7
832-012-10	300x200mm	10μm	11μm	Without	40	40	8

SERIES 840 90° BEVELED EDGE SQUARE WITH WIDE BASE

- DIN875 grade 0
- Beveled edges for inside and outside measurement
- Made of hardened stainless steel



840-006-10

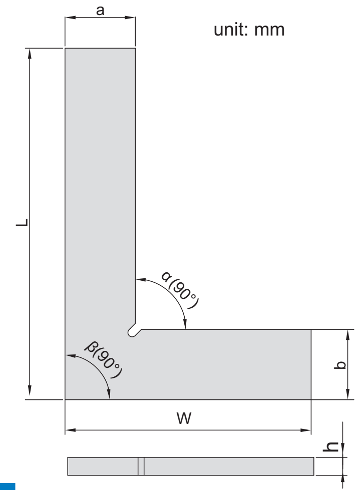


Code	Size(LxW)	Squareness		a	b	H	E
		Inside(α)	Outside(β)				
840-002-10	50x40mm	6μm	6μm	12	12	3	10
840-003-10	75x50mm	6μm	7μm	14	14	3	10
840-004-10	100x70mm	7μm	7μm	18	18	3	10
840-006-10	150x100mm	8μm	8μm	22	22	4	12
840-008-10	200x130mm	9μm	9μm	25	25	4	12

SERIES 841 90° FLAT EDGE SQUARE

- DIN875 grade 0
- Made of hardened stainless steel

841-004-10

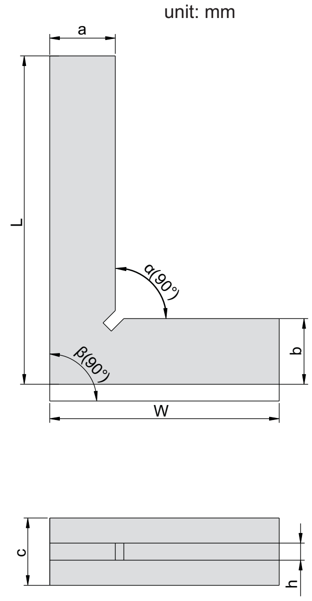


Code	Size(LxW)	Squareness(α)	Squareness(β)	a	b	h
841-002-10	50x40mm	6μm	6μm	15	15	4
841-003-10	75x50mm	6μm	7μm	15	15	4
841-004-10	100x70mm	7μm	7μm	20	20	5
841-006-10	150x100mm	7μm	8μm	30	30	6
841-008-10	200x130mm	8μm	9μm	34	34	7
841-010-10	250x165mm	9μm	10μm	35	35	7
841-012-10	300x200mm	10μm	11μm	40	40	8

SERIES 842 90° FLAT EDGE SQUARE WITH WIDE BASE

- DIN875 grade 0
- Made of hardened stainless steel

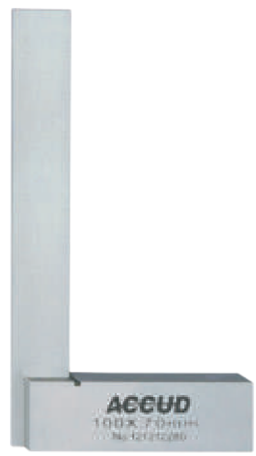
842-004-10



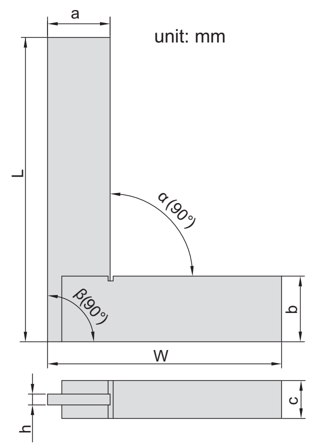
Code	Size(LxW)	Squareness(α)	Squareness(β)	a	b	c	h
842-002-10	50x40mm	6μm	6μm	13	13	13	4
842-003-10	75x50mm	6μm	6μm	15	15	15	4
842-004-10	100x70mm	7μm	7μm	20	20	20	5
842-006-10	150x100mm	7μm	7μm	30	30	30	6
842-008-10	200x130mm	8μm	8μm	34	34	30	7
842-010-10	250x165mm	9μm	9μm	35	35	35	7
842-012-10	300x200mm	10μm	10μm	40	40	40	8

SERIES 843 90° FLAT EDGE SQUARE WITH WIDE BASE

- DIN875 grade 0
- Made of hardened stainless steel



843-004-10

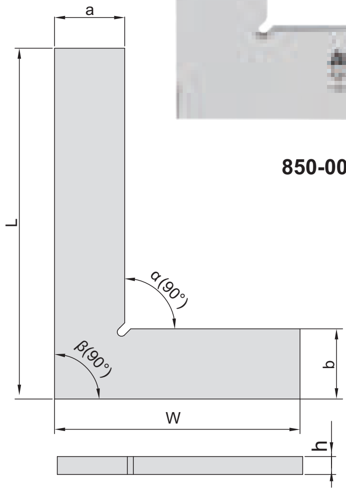


Code	Size(LxW)	Squareness(α)	Squareness(β)	a	b	c	h
843-002-10	50x40mm	6μm	6μm	12	12	10	3
843-003-10	75x50mm	6μm	6μm	14	14	10	3
843-004-10	100x70mm	7μm	7μm	18	18	10	3
843-006-10	150x100mm	7μm	7μm	22	22	12	4
843-008-10	200x130mm	8μm	8μm	25	25	12	4

SERIES 850 MACHINIST SQUARE

- Made of carbon steel, no anti-rust treatment, not hardened

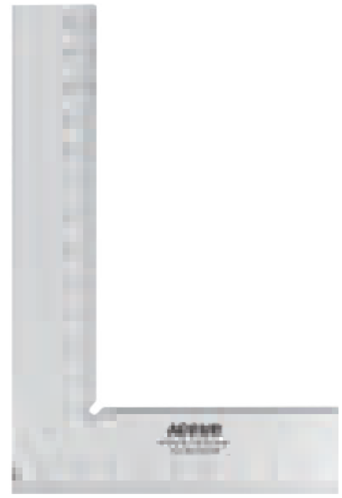
850-006-02



Code	Size(LxW)	Squareness		a	b	h
		Inside(α)	Outside(β)			
850-002-02	50x30mm	24μm	25μm	12	12	3
850-003-02	75x50mm	26μm	28μm	16	16	3
850-004-02	100x70mm	28μm	30μm	19	19	5
850-005-02	125x80mm	30μm	33μm	22	22	5
850-006-02	150x100mm	33μm	35μm	25	25	6
850-008-02	200x130mm	38μm	40μm	25	25	6
850-010-02	250x165mm	43μm	45μm	25	25	6
850-012-02	300x200mm	47μm	50μm	30	30	6
850-014-02	350x200mm	51μm	55μm	38	38	6
850-016-02	400x200mm	56μm	60μm	38	38	9
850-018-02	450x250mm	58μm	65μm	38	38	9
850-020-02	500x300mm	69μm	70μm	38	38	9

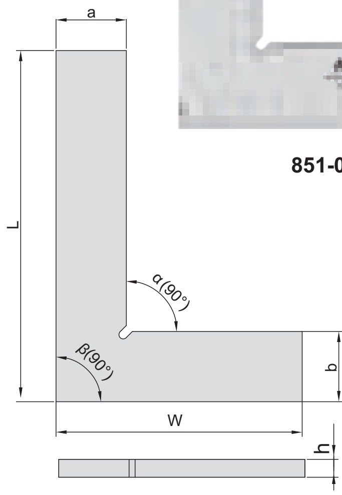
SERIES 851 MACHINIST SQUARE WITH SCALE

- Made of carbon steel, no anti-rust treatment, not hardened



851-006-02

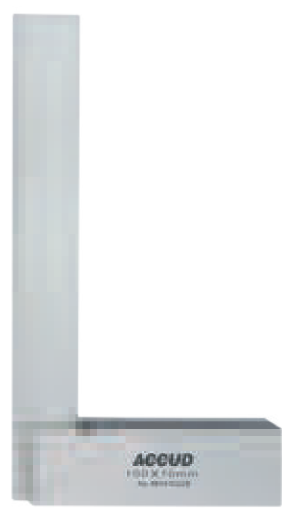
unit: mm



Code	Size(LxW)	Squareness		a	b	h
		Inside(α)	Outside(β)			
851-002-02	50x30mm	24μm	25μm	12	12	3
851-003-02	75x50mm	26μm	28μm	16	16	3
851-004-02	100x70mm	28μm	30μm	19	19	5
851-005-02	125x80mm	30μm	33μm	22	22	5
851-006-02	150x100mm	33μm	35μm	25	25	6
851-008-02	200x130mm	38μm	40μm	25	25	6
851-010-02	250x165mm	43μm	45μm	25	25	6
851-012-02	300x200mm	47μm	50μm	30	30	6
851-014-02	350x200mm	51μm	55μm	38	38	6
851-016-02	400x200mm	56μm	60μm	38	38	9
851-018-02	450x250mm	58μm	65μm	38	38	9
851-020-02	500x300mm	69μm	70μm	38	38	9

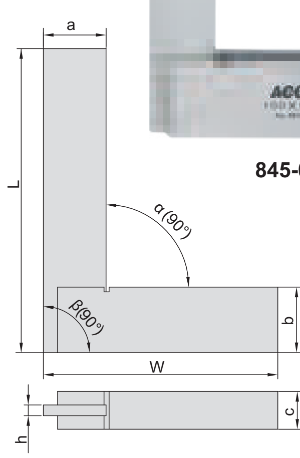
SERIES 845 MACHINIST SQUARE WITH WIDE BASE

- DIN875 grade 2
- Made of carbon steel



845-004-02

unit: mm



Code	Size(LxW)	Squareness(α)	Squareness(β)	a	b	c	h
845-002-02	50x40mm	24μm	25μm	16	12	9	3
845-003-02	75x50mm	26μm	28μm	16	16	9	3
845-004-02	100x70mm	28μm	30μm	19	19	12	3
845-006-02	150x100mm	33μm	35μm	25	25	16	3
845-008-02	200x130mm	37μm	40μm	30	32	16	4
845-010-02	250x165mm	42μm	45μm	30	32	19	4
845-012-02	300x200mm	47μm	50μm	32	32	19	4
845-016-02	400x250mm	56μm	60μm	38	38	22	5
845-020-02	500x300mm	65μm	70μm	45	50	25	6
845-024-02	600x350mm	75μm	80μm	50	50	30	6
845-030-02	750x400mm	90μm	95μm	55	55	50	6
845-036-02	900x500mm	103μm	110μm	65	75	50	9
845-040-02	1000x550mm	113μm	120μm	65	75	50	9

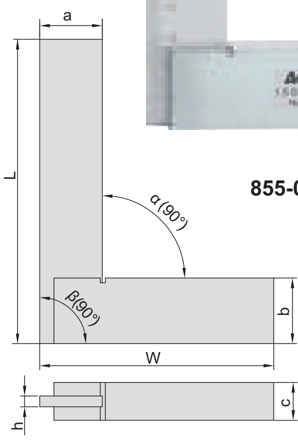
SERIES 855 MACHINIST SQUARE WITH WIDE BASE AND SCALE

- Made of carbon steel, no anti-rust treatment, not hardened

Code	Size(LxW)	Squareness		a	b	h	c
		Inside(α)	Outside(β)				
855-002-02	50x30mm	24μm	25μm	16	12	2.5	9
855-003-02	75x50mm	26μm	28μm	16	16	2.5	9
855-004-02	100x70mm	28μm	30μm	19	19	3	12
855-005-02	125x80mm	31μm	33μm	22	19	3	12
855-006-02	150x100mm	33μm	35μm	25	25	3	16
855-008-02	200x130mm	37μm	40μm	30	32	3	16
855-010-02	250x165mm	42μm	45μm	30	32	3	19
855-012-02	300x200mm	47μm	50μm	32	32	3	19
855-014-02	350x200mm	51μm	55μm	38	38	4.5	22
855-016-02	400x200mm	56μm	60μm	38	38	4.5	22
855-018-02	450x250mm	61μm	65μm	44	38	4.5	22
855-020-02	500x300mm	65μm	70μm	44	50	6	25
855-024-02	600x350mm	75μm	80μm	50	50	6	30
855-030-02	750x400mm	90μm	95μm	55	55	6	50
855-036-02	900x500mm	103μm	110μm	65	75	9	50
855-040-02	1000x550mm	113μm	120μm	65	75	9	50

855-006-02

unit: mm

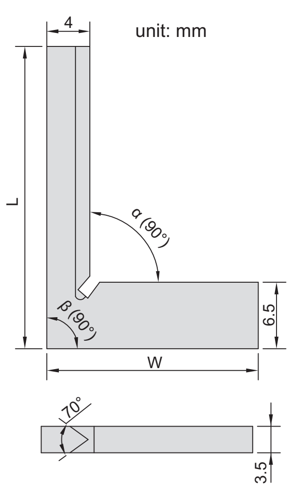


SERIES 833 90° TOOL MAKER SQUARE

- DIN875 grade 00
- Beveled edge for inside measurement
- Made of hardened stainless steel

833-040-00

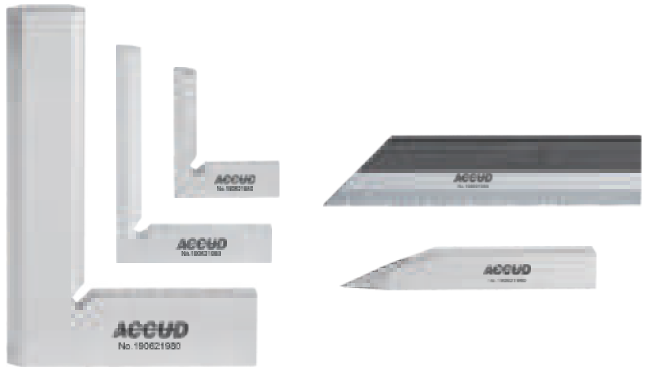
unit: mm

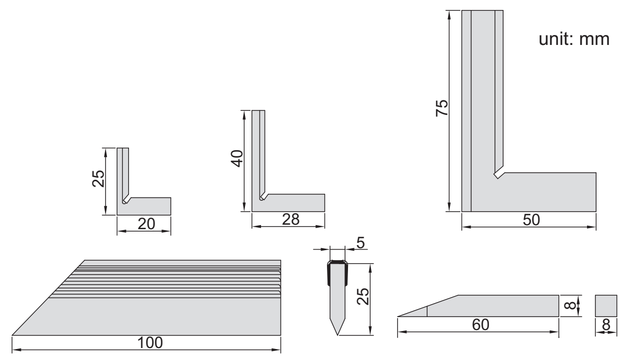


Code	Size(LxW)	Squareness	
		Inside(α)	Outside(β)
833-025-00	25x20mm	2.2μm	2.3μm
833-040-00	40x28mm	2.3μm	2.4μm

839 SQUARE SET

- Includes:
  - -90° tool maker square 25x20mm DIN875 grade 00 (code **833-025-00**)
  - -90° tool maker square 40x28mm DIN875 grade 00 (code **833-040-00**)
  - -90° beveled edge square 75x50mm DIN875 grade 00 (code **832-003-00**)
  - -straight edge 100mm DIN874 (code **994-004-01**)
  - -scriber
- Made of hardened stainless steel

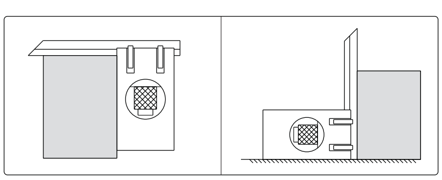


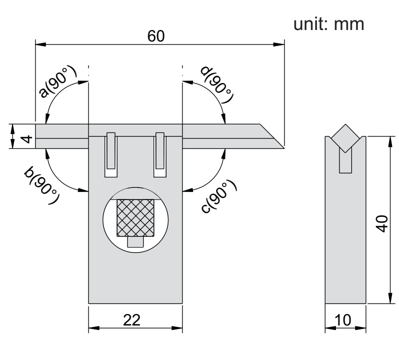


Code
839-000-05

831 ADJUSTABLE SQUARE

- The straight edge can move and can be locked by the screw
- Made of hardened stainless steel





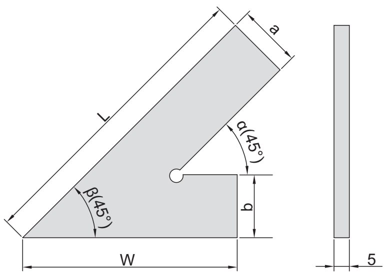
Code	Squareness (a, b, c, d)
831-002-10	7μm

SERIES 846 45° SQUARE

- Made of hardened stainless steel

846-006-02

unit: mm



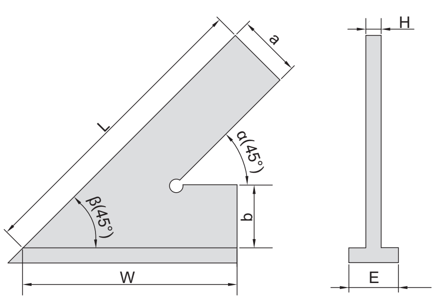
Code	Size(LxW)	Accuracy		a	b
		Inside(α)	Outside(β)		
846-005-02	120x80mm	29μm	32μm	20	20
846-006-02	150x100mm	32μm	35μm	20	20
846-008-02	200x130mm	36μm	40μm	25	25

SERIES 856 45° SQUARE WITH WIDE BASE

- Made of hardened stainless steel

856-006-02

unit: mm



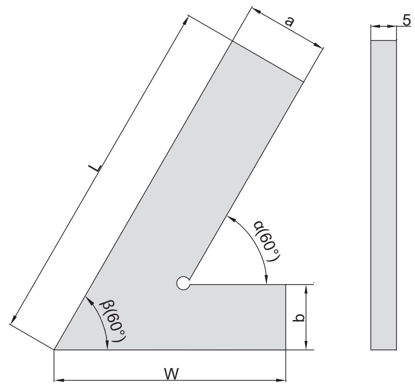
Code	Size(LxW)	Accuracy		a	b	H	E
		Inside(α)	Outside(β)				
856-005-02	120x80mm	29μm	33μm	20	20	5	20
856-006-02	150x100mm	32μm	36μm	20	20	5	20
856-008-02	200x130mm	36μm	41μm	25	25	5	25

SERIES 847 60° SQUARE

- Made of hardened stainless steel

847-006-02

unit: mm



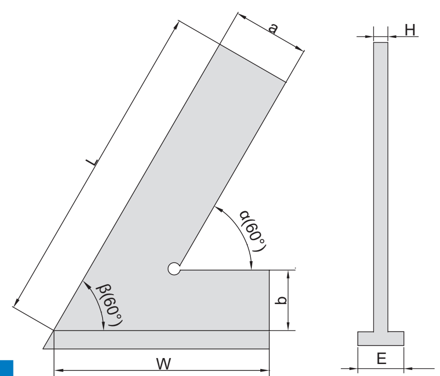
Code	Size(LxW)	Accuracy		a	b
		Inside(α)	Outside(β)		
847-004-02	100x70mm	28µm	30µm	20	20
847-005-02	120x80mm	30µm	32µm	20	20
847-006-02	150x100mm	32µm	35µm	20	20
847-008-02	200x130mm	37µm	40µm	25	25

SERIES 857 60° SQUARE WITH WIDE BASE

- Made of hardened stainless steel

857-006-02

unit: mm



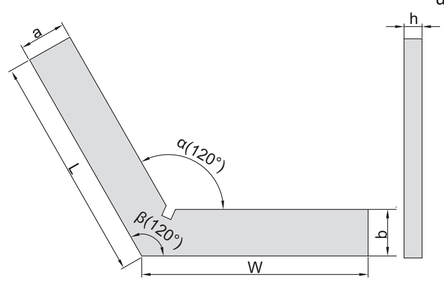
Code	Size(LxW)	Accuracy		a	b	H	E
		Inside(α)	Outside(β)				
857-005-02	120x80mm	30µm	33µm	20	20	5	20
857-006-02	150x100mm	33µm	36µm	20	20	5	20
857-008-02	200x130mm	37µm	41µm	25	25	5	25

SERIES 848 120° SQUARE

- Made of hardened stainless steel

848-004-02

unit: mm



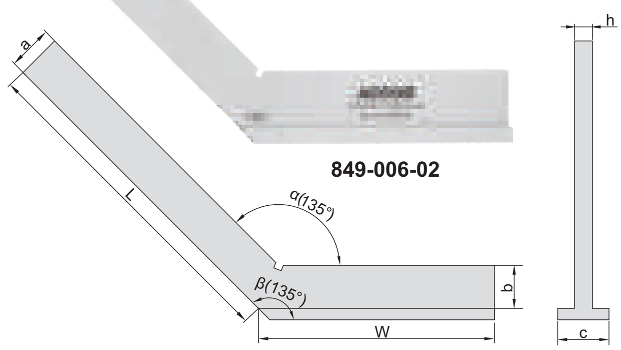
Code	Size(LxW)	Accuracy		a	b	h
		Inside(α)	Outside(β)			
848-002-02	50x50mm	24μm	25μm	15	15	5
848-003-02	75x75mm	26μm	28μm	20	20	5
848-004-02	100x100mm	29μm	30μm	20	20	5
848-006-02	150x150mm	34μm	35μm	25	25	5
848-008-02	200x200mm	38μm	40μm	30	30	7

SERIES 849 135° SQUARE WITH WIDE BASE

- Made of hardened stainless steel

unit: mm

849-006-02

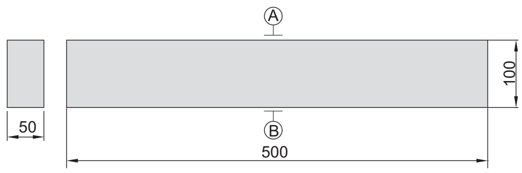


Code	Size(LxW)	Accuracy		a	b	c	h
		Inside(α)	Outside(β)				
849-005-02	120x80mm	31μm	33μm	20	20	20	5
849-006-02	150x100mm	34μm	36μm	20	20	20	5
849-008-02	200x130mm	39μm	41μm	30	30	30	7

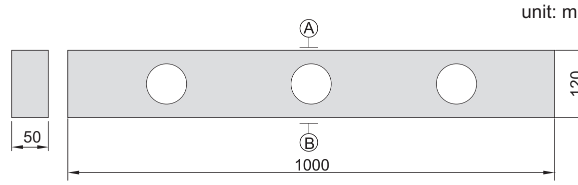
SERIES 642 GRANITE STRAIGHT EDGE

642-020-01

unit: mm



642-020-01



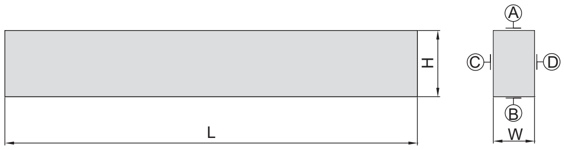
642-040-01

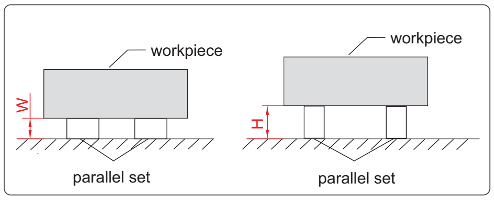
Code	Length(L)	Flatness of A and B	Parallelism between A and B	W	H
642-020-01	500mm	2.1μm	3.2μm	50	100
642-040-01	1000mm	3μm	4.5μm	50	120

SERIES 648 GRANITE PARALLEL SET

- Made of granite
- Two parallels per set

unit: mm





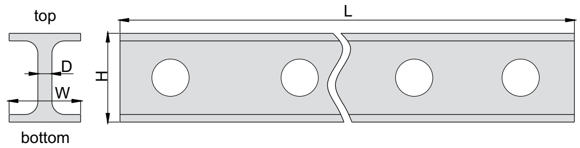
Code	Size(LxWxH)	Parallelism between A and B	Parallelism between C and D	Height difference of a matched pair
648-250-01	250x25x40mm	5μm	5μm	5μm

SERIES 647 MAGNALIUM STRAIGHT EDGES

- Made of magnalium, light weight, non-deform, no rusty

647-040-01

unit: mm

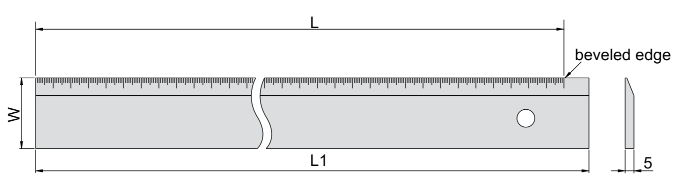


Code	Length(L)	Flatness of top and bottom	Parallelism between top and bottom	H	W	D
647-020-01	500mm	3μm	4μm	60	30	5
647-040-01	1000mm	5μm	8μm	60	30	5
647-060-01	1500mm	15μm	22μm	100	40	7
647-080-01	2000mm	18μm	27μm	100	40	7
647-100-01	2500mm	22μm	33μm	100	40	7
647-120-01	3000mm	48μm	72μm	150	80	8
647-140-01	3500mm	56μm	84μm	150	80	8
647-160-01	4000mm	64μm	110μm	150	80	10
647-200-01	5000mm	80μm	130μm	175	80	10
647-240-01	6000mm	100μm	150μm	175	80	10

SERIES 991 STRAIGHT EDGE RULE

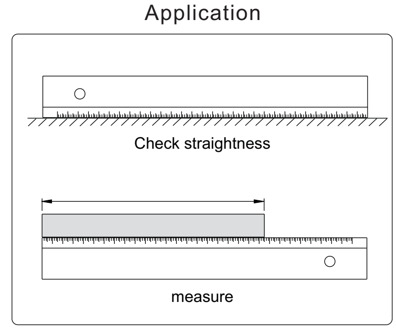
991-012-01

unit: mm



- Check straightness, as well as for measurement
- Made of hardened tool steel, chrome plated

Application

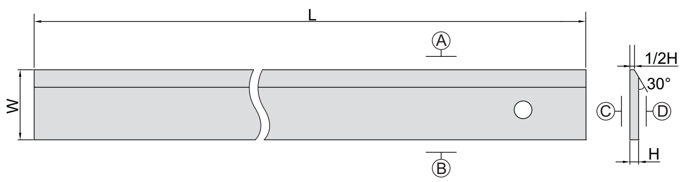


Code	Range(L)	Straightness	W	L1
991-012-01	300mm	0.02mm	40mm	320mm
991-020-01	500mm	0.03mm	40mm	520mm
991-040-01	1000mm	0.04mm	50mm	1020mm

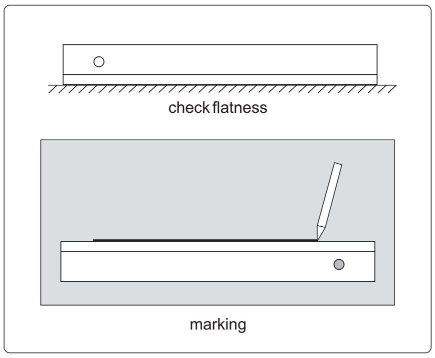
SERIES 907 PRECISION STRAIGHT EDGE WITH BEVELED EDGE

907-012-11

unit: mm



Application



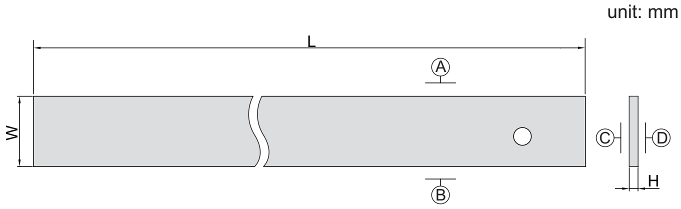
- Check flatness and for marking
- Made of tool steel

Code	Range(L)	Flatness of A and B	Flatness of C and D	W	H
907-012-11	305	0.005	0.05	41	6.3
907-024-11	610	0.006	0.06	51	7.9
907-036-11	914	0.007	0.06	64	9.5

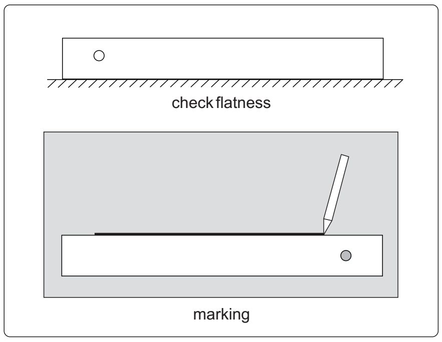
SERIES 906 PRECISION STRAIGHT EDGE

906-012-11

unit: mm



Application



- Check flatness and for marking
- Made of tool steel

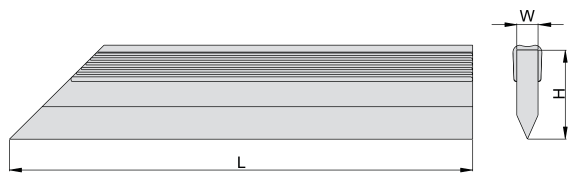
Code	Range(L)	Flatness of A and B	Flatness of C and D	W	H
906-012-11	305	0.005	0.05	41	6.3
906-024-11	610	0.006	0.06	51	7.9
906-036-11	914	0.007	0.06	64	9.5

SERIES 994 STRAIGHT EDGE

- Beveled edge to check the flatness
- DIN874
- Made of stainless steel
- Stain chrome plating

994-004-01

unit: mm



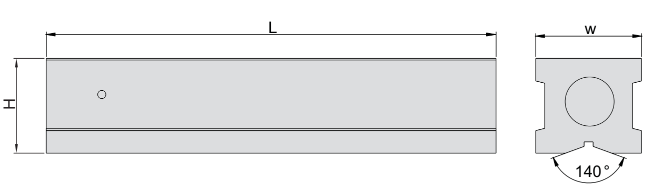
Code	Size (L)	Straightness	W	H
994-002-01	50mm	2.2μm	5	20
994-003-01	75mm	2.3μm	5	25
994-004-01	100mm	2.4μm	5	25
994-005-01	125mm	2.5μm	5	25
994-006-01	150mm	2.6μm	6	30
994-008-01	200mm	2.8μm	6	30
994-010-01	250mm	3.0μm	8	40
994-012-01	300mm	3.2μm	8	40
994-016-01	400mm	3.6μm	10	50
994-020-01	500mm	4.0μm	10	50

SERIES 713 BLOCK LEVEL

- For use in setting machined surfaces precisely horizontal
- Sensibility: 0.02mm/m per division
- Vee angle : 140°

713-006-02

unit: mm



Code	Size (L)	H	W
713-006-02	150mm	40	45
713-008-02	200mm	42	47
713-012-02	300mm	45	50

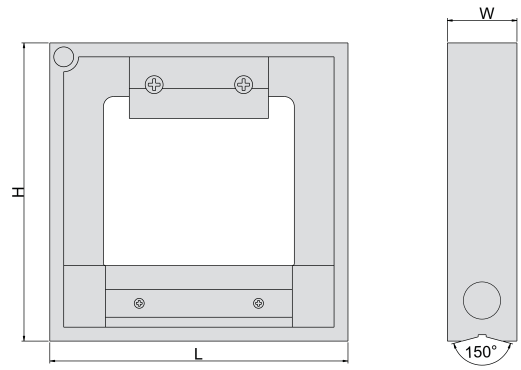
SERIES 711 FRAME LEVEL

- For using setting machined surfaces precisely horizontal and vertical
- Sensibility: 0.02mm/m per division
- With two vee and two flat referece faces

711-006-02

711-004-02

unit: mm



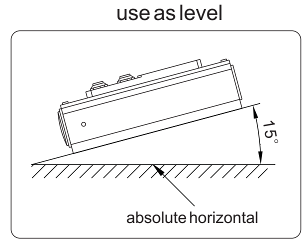
Code	Size (LxHxW)
711-004-02	100x100x32mm
711-006-02	150x150x35mm
711-008-02	200x200x42mm
711-012-02	300x300x42mm

712 DIGITAL LEVEL

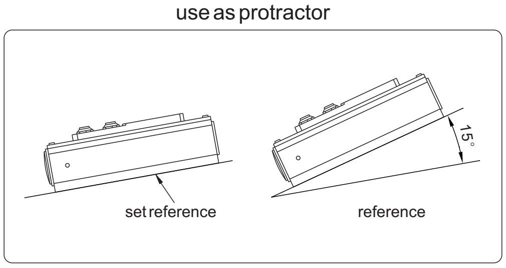
LI-ION

- Sensibility: 0.01mm/m(0.001°)
- Accuracy: 10mm range≤±0.01mm/m
  10mm-50mm range≤±0.02mm/m
- For use in setting machined surfaces precisely horizontal
- With longitudinal level
- Buttons: on/off, zero, mm/inch, save/mode, ABS
- 3.6V li-ion battery for 15 hours working
- Memory: 6

use as level

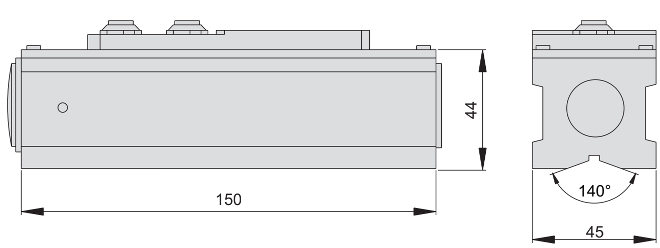


use as protractor



Code	Range	Graduation
712-006-01	±50mm/m	0.01mm/m

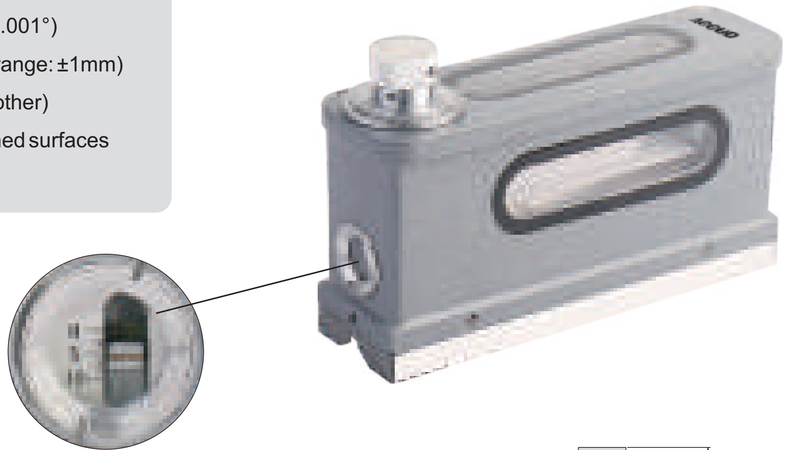
unit: mm



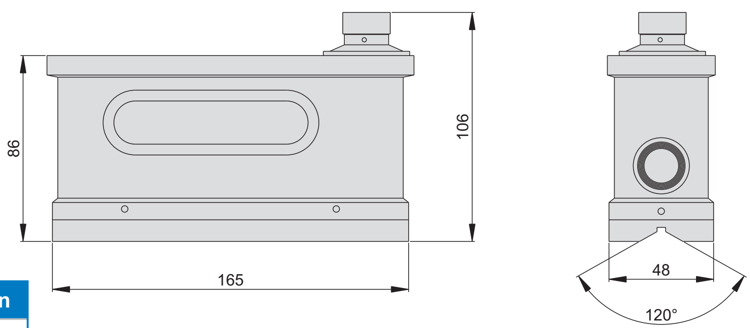
LEVEL

714 OPTICAL IMAGE LEVEL

- Sensibility: 0.01mm/m(0.001°)
- Accuracy : ±0.01mm/m(range: ±1mm)
  ±0.02mm/m(other)
- For use in setting machined surfaces precisely horizontal



unit: mm



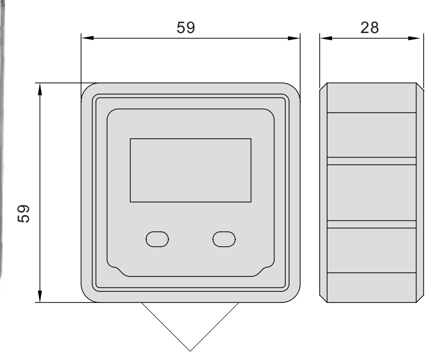
Code	Range	Graduation
714-006-01	0-10mm/m(±5mm/m)	0.01mm/m

721 DIGITAL LEVEL

AAA

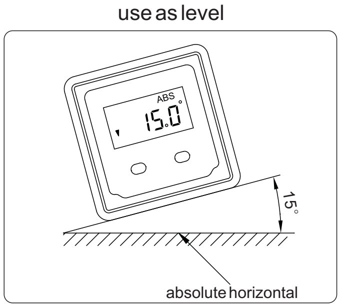
- Use as level or protractor
- Accuracy : ±0.1°(vertical and horizontal),
  ±0.2°(other direction)
- Absolute horizontal reference can save in memory for ever
- Button: on/off, zero
- Magnetic base
- Use in 4 directions
- Automatic power off

unit: mm

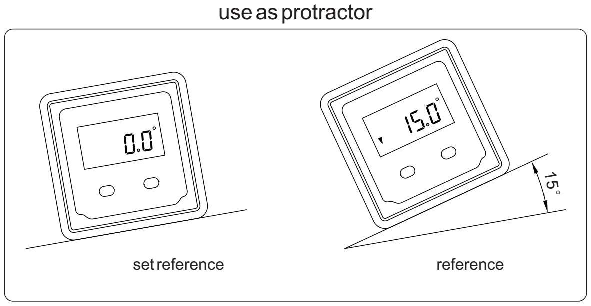


use as magnet

use as level



use as protractor



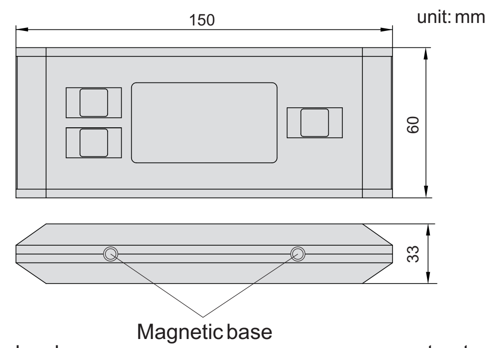
Code	Range	Resolution
721-180-01	0 - 360°(90°x4)	0.05°

LEVEL

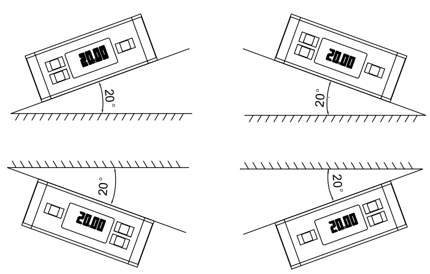
722 DIGITAL LEVEL

IP54 AAA

- Use as level or protractor
- Resolution: 0.05°
- Accuracy : ±0.1°(vertical and horizontal),
  ±0.2°(other direction)
- Magnetic base, with groove
- Aluminum frame provides with high rigidity and low weight
- Absolute horizontion reference can save in memory for ever

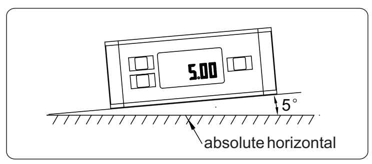


use in 4 directions

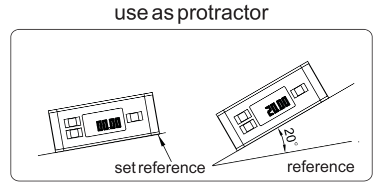


Code	Range	Dimension(LxWx H)
722-360-01	0 - 360° (90°x4)	150x60x33mm

use as level



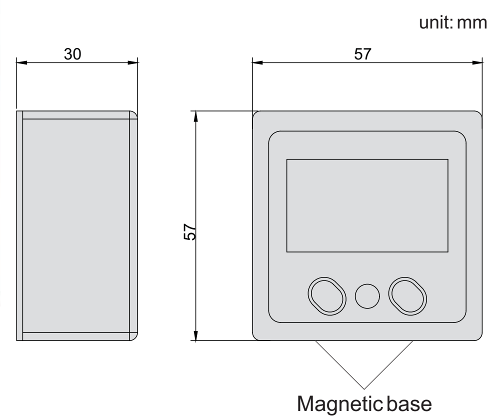
use as protractor



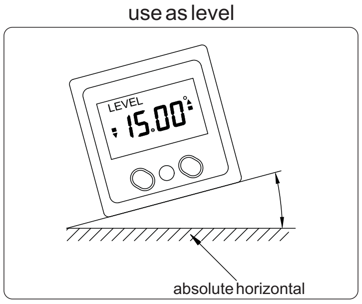
723 DIGITAL LEVEL

AAA

- Use as level or protractor
- Use in 4 directions
- Magnetic base
- Accuracy : ±0.1°(vertical and horizontal),
  ±0.2°(other direction)
- Metal cover
- Adjust the display direction automatically

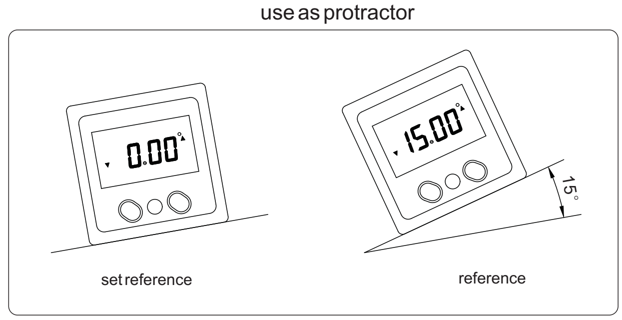


use as level



Code	Range	Resolution
723-360-01	0 - 360° (4x90°)	0.05°

use as protractor

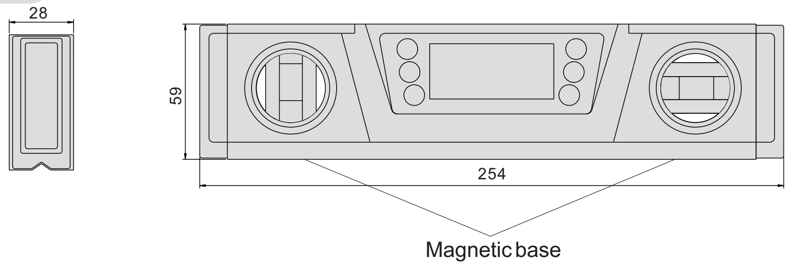


724 DIGITAL LEVEL

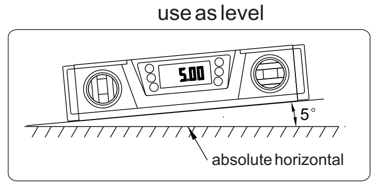
AAA

- Use as level or protractor
- Accuracy : ±0.1°(vertical and horizontal),
  ±0.2°(other direction)
- Buttons: on/off, CAL, hold, alarm, Mode, Ref
- With vertical and horizontal vials
- Magnetic base
- Adjust the display direction automatically

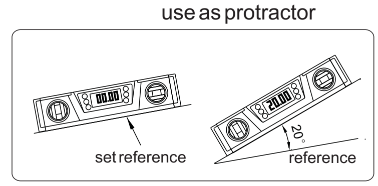
unit: mm



use as level



use as protractor



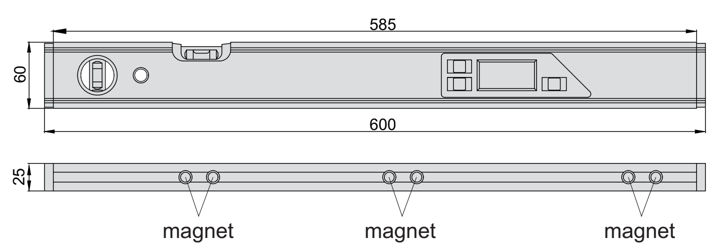
Code	Range	Resolution
724-360-01	0 - 360° (4x90°)	0.05°

725 DIGITAL LEVEL

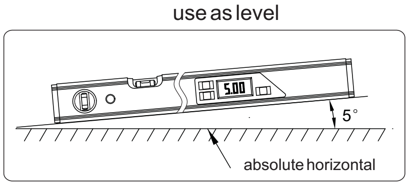
AAA

- Use as level or protractor
- Accuracy : ±0.1°(vertical and horizontal),
  ±0.2°(other direction)
- Buttons: on/off, ABS, hold, alarm unit, backlight
- With vertical and horizontal vials
- Absolute horizontion reference can save in memory for ever
- Magnetic base
- Adjust the display direction automatically

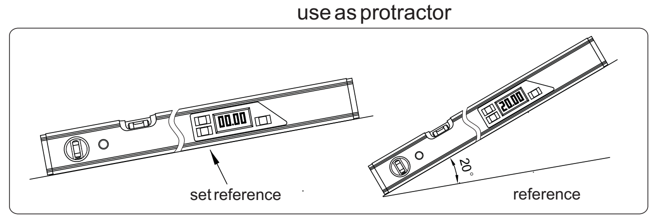
unit: mm



use as level



use as protractor

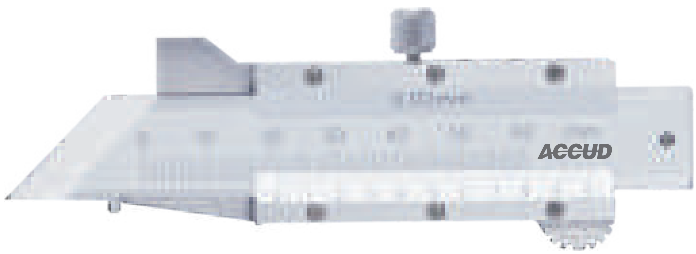


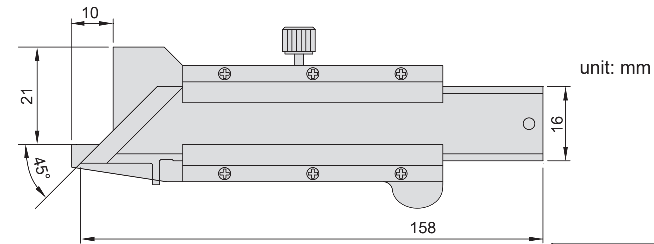
Code	Range	Resolution
725-360-01	0 - 360° (4x90°)	0.05°

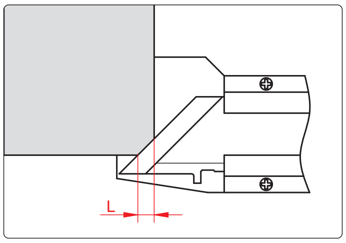
LEVEL

160 CHAMFER GAUGE

- Measure 45º chamfer dimension
- Graduation 0.02mm
- Made of stainless steel
- Satin chrome plated reading surface



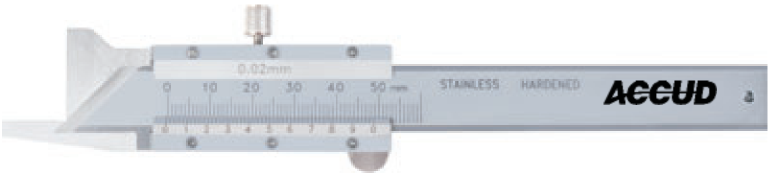




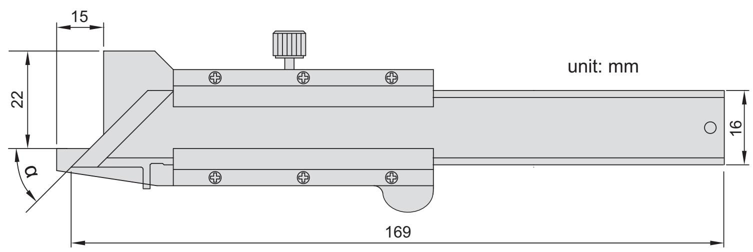
Code	Range	Accuracy
160-001-11	0-6mm	±0.06mm

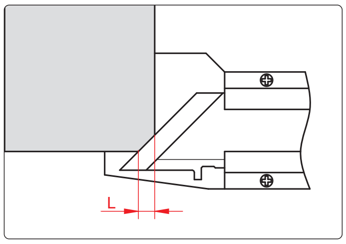
SERIES 160 CHAMFER GAUGE

- Measure α chamfer dimension
- Graduation 0.02mm
- Made of stainless steel
- Satin chrome plated reading surface



160-010-12



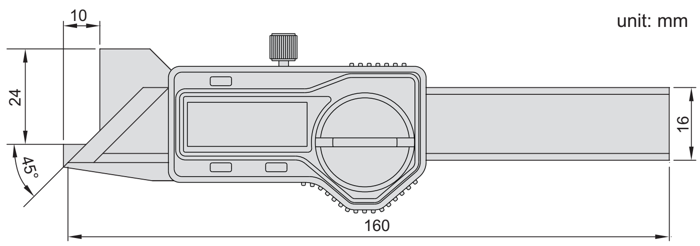


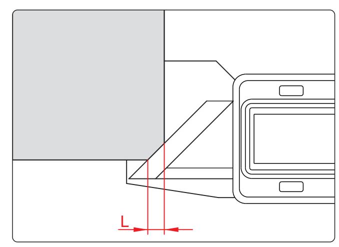
Code	Range	Accuracy	Chamfer(α)
160-010-11	0-10mm	±0.06mm	30°
160-010-12	0-10mm	±0.06mm	45°
160-010-13	0-10mm	±0.06mm	60°

163 DIGITAL CHAMFER GAUGE

Data output
CR2032

- Measure 45° chamfer dimension
- Resolution: 0.01mm/0.0005"
- Buttons: on/off, zero, mm/inch
- Automatic power on/off
- Data output(cable code :100-11 or 100-12)
- Made of stainless steel





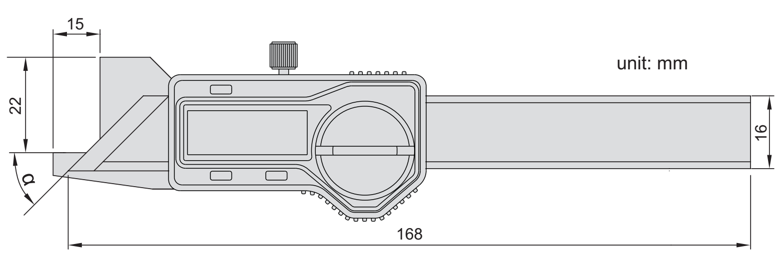
Code	Range	Accuracy
163-006-11	0-6mm/0-0.24"	±0.06mm

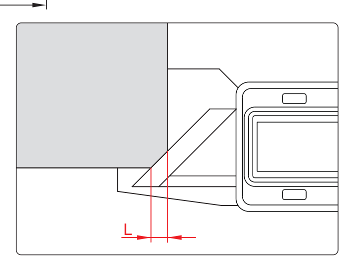
SERIES 163 DIGITAL CHAMFER GAUGE

Data output
CR2032

- Measure α chamfer dimension
- Resolution: 0.01mm/0.0005"
- Buttons: on/off, zero, mm/inch
- Automatic power on/off
- Data output(cable code :100-11 or 100-12)
- Made of stainless steel

163-010-12





Code	Range	Accuracy	Chamfer(α)
163-010-11	0-10mm/0-0.39"	±0.06mm	30°
163-010-12	0-10mm/0-0.39"	±0.06mm	45°
163-010-13	0-10mm/0-0.39"	±0.06mm	60°

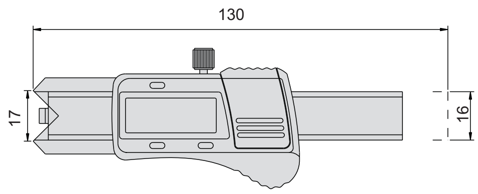
SERIES 164 DIGITAL CHAMFER GAUGE

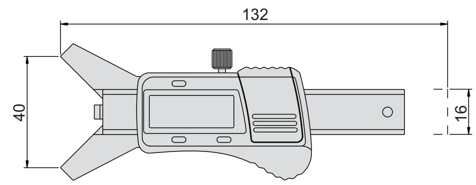
CR2032

164-001-11

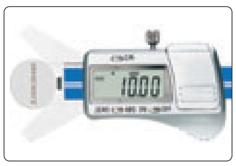
164-002-11

unit: mm



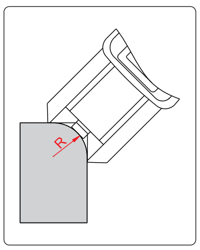


Set zero

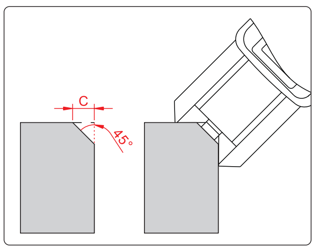


- Resolution: 0.01mm
- Made of stainless steel

Measure chamfer radius



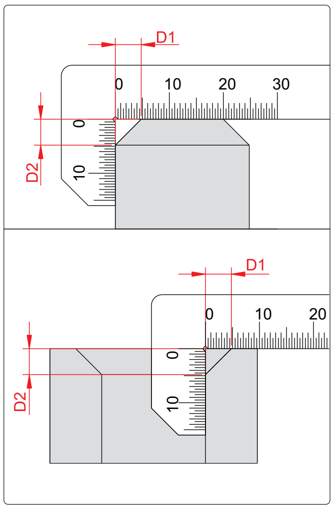
Measure leg length of 45° chamfer



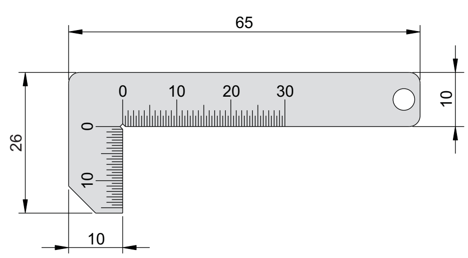
Code	Range of radius (R)	Range of leg length (C)	Accuracy
164-001-11	0-15mm	0-6mm	±0.05mm
164-002-11	0-30mm	0-18mm	±0.05mm

967 CHAMFER GAUGE

- To measure internal and external chamfers
- Made of stainless steel



unit: mm

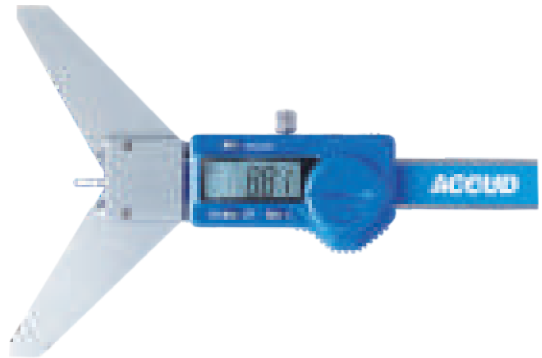


Code	Graduation	Accuracy
967-001-11	0.5mm	±0.25mm

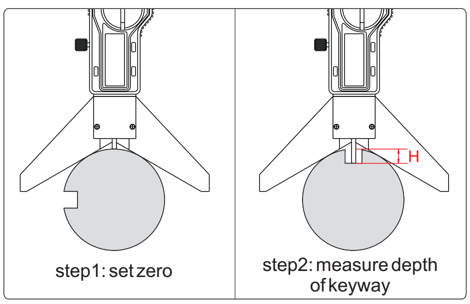
195 DIGITAL KEYWAY GAUGE

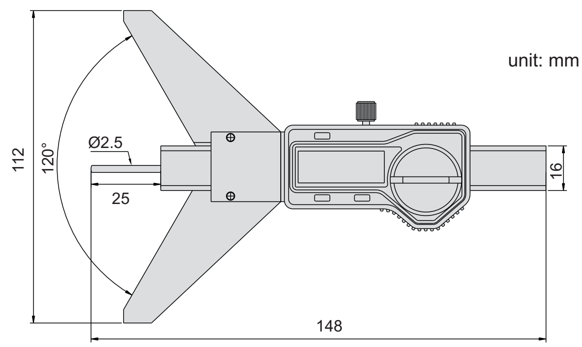
Data output
CR2032

- Measure the depth of keyway
- Resolution: 0.01mm/0.0005"
- Buttons: on/off, zero, mm/inch
- Automatic power on/off
- Data output(cable code :100-11 or 100-12)
- Made of stainless steel



Measure



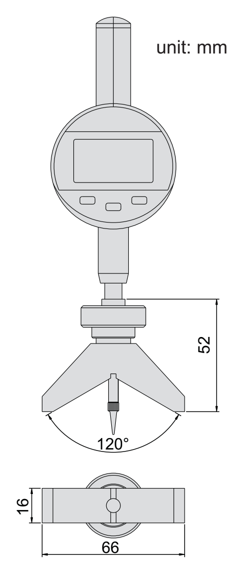


Code	Range	Accuracy
195-002-11	0-50mm/0-2"	±0.03mm

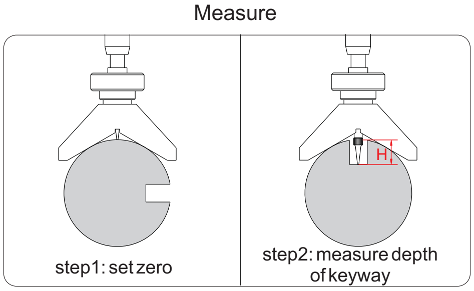
196 DIGITAL KEYWAY GAUGE

Data output
CR2032

- Measure the keyway depth of cylindrical workpieces with a diameter of Ø0-100mm
- Button: on/off, zero, mm/inch, ABS, data preset, change measuring direction
- Automatic power off
- Data output(cable code:200-03 or 200-04)
- Stainless steel base
- Pointed tip (Code: 270-006-21)



Measure



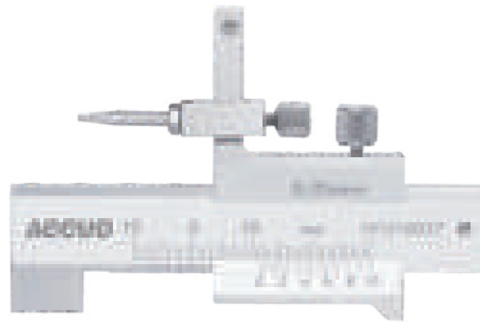
Code	Range	Resolution	Accuracy
196-001-11	0-25.4mm/0-1"	0.01mm/0.0005"	±0.02mm

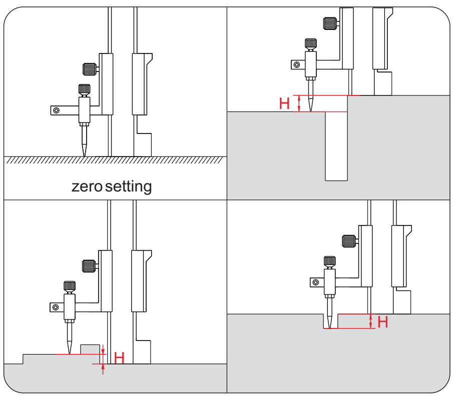
ACCUD

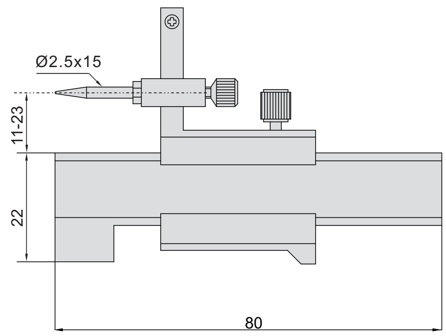
KEYWEY

998 VERNIER STEP GAUGE

- Measure the height difference of two surface
- Resolution: 0.05mm







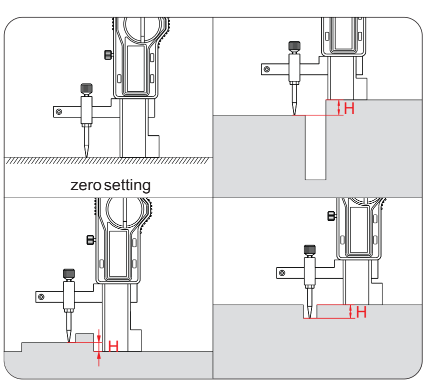
unit: mm

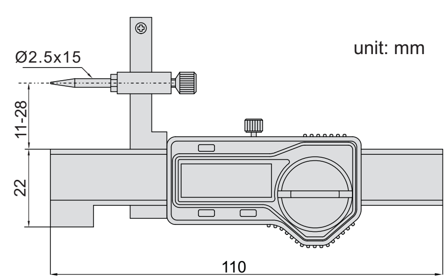
Code	Range	Accuracy
998-010-11	-10~+10mm	±0.05mm

999 DIGITAL STEP GAUGE

Data output
CR2032

- Measure the height difference of two surface
- Resolution: 0.01mm
- Button: on/off, zero, mm/inch
- Data output(cable code :100-11 or 100-12)
- Automatic power off
- Stainless steel base





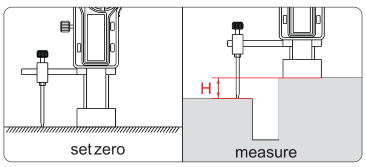
unit: mm

Code	Range	Accuracy
999-010-11	-10~+10mm	±0.05mm

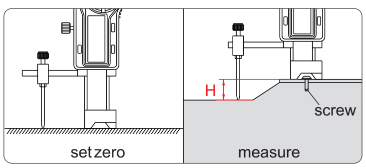
SERIES 999 MINI DIGITAL HEIGHT GAUGE

Data output
CR2032

- Measure height difference of two surfaces (**999-020-12** suitable for surfaces with barrier, such as screw)
- Resolution: 0.01mm/0.0005"
- Buttons: on/off, zero, mm/inch
- Data output(cable code :100-11 or 100-12)
- Automatic power off
- Made of stainless steel

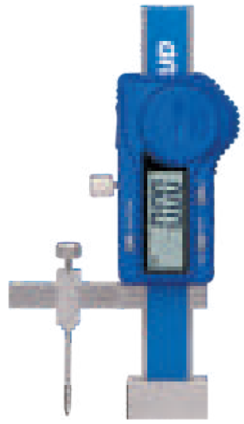


999-020-11

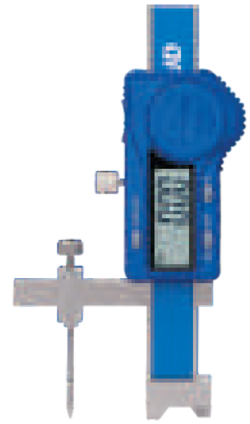


999-020-12

Code	Range	Accuracy
999-020-11	0-±20mm/0-±0.8"	±0.02mm
999-020-12	0-±20mm/0-±0.8"	±0.02mm

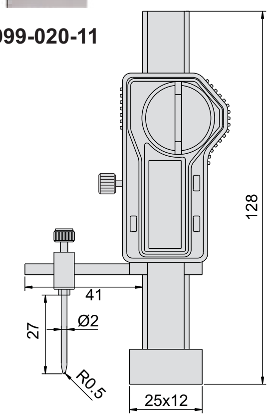


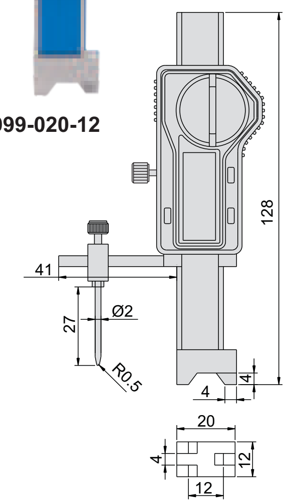
999-020-11



999-020-12

unit: mm



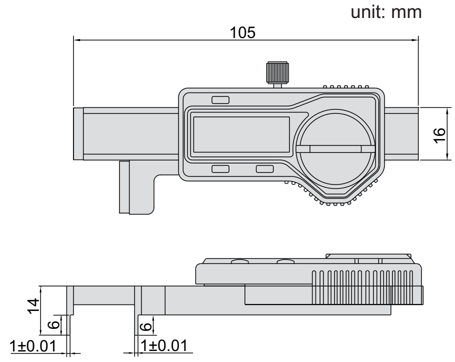


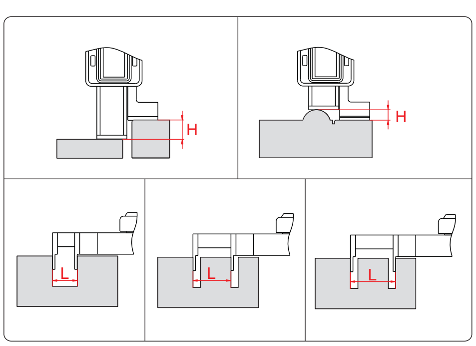
437 STEP AND GAP GAUGE

Data output
CR2032

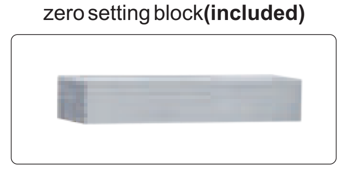
- Measure step height and gap width
- Resolution: 0.01mm/0.0005"
- Buttons: on/off, zero, mm/inch
- Automatic power on/off
- Data output(cable code :100-11 or 100-12)
- Made of stainless steel
- Supplied with zero setting block

unit: mm





zero setting block**(included)**

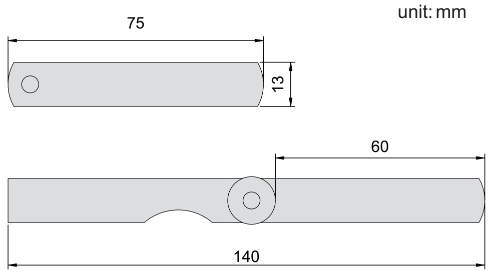


Code	Range	Accuracy
437-001-11	0-12.7mm/0-0.5"	±0.03mm

911 FEELER

- Meets DIN2275
- Accuracy: ±(3+T/80)μm, T is the thickness of leaves , unit: μm

unit: mm

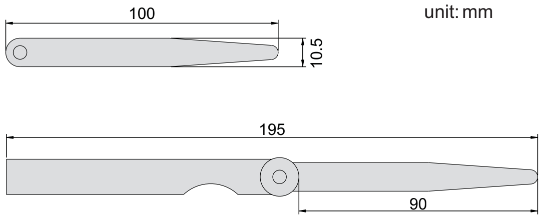


Code	Range	Quantity	Leaves thickness (mm)
911-100-25	0.04 - 1.00mm	25	0.04, 0.05, 0.06, 0.07, 0.08, 0.09, 0.10, 0.15, 0.20, 0.25, 0.30, 0.35, 0.40, 0.45, 0.50, 0.55, 0.60, 0.65, 0.70, 0.75, 0.80, 0.85, 0.90, 0.95, 1.00

SERIES 912 FEELER

- Meets DIN2275
- Accuracy: ±(3+T/80)μm, T is the thickness of leaves , unit: μm

unit: mm

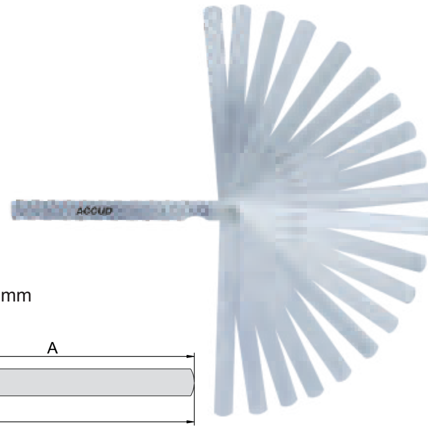


912-100-20

Code	Range	Quantity	Leaves thickness (mm)
912-050-13	0.03 - 0.50mm	13	0.03, 0.04, 0.05, 0.06, 0.07, 0.08, 0.09, 0.10, 0.15, 0.20, 0.30, 0.40, 0.50
912-100-13	0.05 - 1.00mm	13	0.05, 0.10, 0.15, 0.20, 0.25, 0.30, 0.40, 0.50, 0.60, 0.70, 0.80, 0.90, 1.00
912-100-17	0.02 - 1.00mm	17	0.02, 0.03, 0.04, 0.05, 0.06, 0.07, 0.08, 0.09, 0.10, 0.15, 0.20, 0.25, 0.30, 0.40, 0.50, 0.75, 1.00
912-100-20	0.05 - 1.00mm	20	0.05, 0.10, 0.15, 0.20, 0.25, 0.30, 0.35, 0.40, 0.45, 0.50, 0.55, 0.60, 0.65, 0.70, 0.75, 0.80, 0.85, 0.90, 0.95, 1.00
912-100-32	0.03 - 1.00mm	32	0.03, 0.04, 0.05, 0.06, 0.07, 0.08, 0.09, 0.10, 0.13, 0.15, 0.18, 0.20, 0.23, 0.25, 0.28, 0.30, 0.33, 0.35, 0.38, 0.40, 0.45, 0.50, 0.55, 0.60, 0.63, 0.65, 0.70, 0.75, 0.80, 0.85, 0.90, 1.00

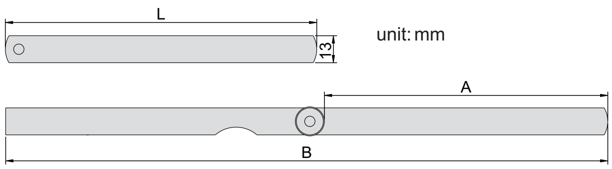
SERIES 913/914/915 FEELER

- Meets DIN2275
- Accuracy: ±(3+T/80)µm, T is the thickness of leaves , unit: µm



913-100-20

L	A	B
150	135	295
200	185	395
300	285	590



unit: mm

Code	Range	Quantity	Leaves thickness (mm)	L
913-100-13	0.05 - 1.00mm	13	0.05, 0.10, 0.15, 0.20, 0.25, 0.30, 0.40, 0.50, 0.60, 0.70, 0.80, 0.90, 1.00	150
914-100-13	0.05 - 1.00mm	13		200
915-100-13	0.02 - 1.00mm	13		300
913-100-17	0.02 - 1.00mm	17	0.02, 0.03, 0.04, 0.05, 0.06, 0.07, 0.08, 0.09, 0.10, 0.15, 0.20, 0.25, 0.30, 0.40, 0.50, 0.75, 1.00	150
914-100-17	0.02 - 1.00mm	17		200
915-100-17	0.02 - 1.00mm	17		300
913-100-20	0.05 - 1.00mm	20	0.05, 0.10, 0.15, 0.20, 0.25, 0.30, 0.35, 0.40, 0.45, 0.50, 0.55, 0.60, 0.65, 0.70, 0.75, 0.80, 0.85, 0.90, 0.95, 1.00	150
914-100-20	0.05 - 1.00mm	20		200
915-100-20	0.05 - 1.00mm	20		300

SERIES 916 FEELER TAPE

- Used to check the spacing thickness
- Made of hardened alloy steel
- Length 5m
- Width 13mm

916-010-01

Code	Thickness	Accuracy
916-001-01	0.01mm	±3µm
916-002-01	0.02mm	±4µm
916-003-01	0.03mm	±4µm
916-004-01	0.04mm	±4µm
916-005-01	0.05mm	±4µm
916-006-01	0.06mm	±4µm
916-007-01	0.07mm	±5µm
916-008-01	0.08mm	±5µm
916-009-01	0.09mm	±5µm
916-010-01	0.10mm	±5µm

Code	Thickness	Accuracy
916-015-01	0.15mm	±5µm
916-020-01	0.20mm	±8µm
916-025-01	0.25mm	±9µm
916-030-01	0.30mm	±9µm
916-035-01	0.35mm	±11µm
916-040-01	0.40mm	±12µm
916-045-01	0.45mm	±12µm
916-050-01	0.50mm	±14µm
916-055-01	0.55mm	±14µm
916-060-01	0.60mm	±14µm

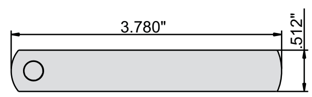
Code	Thickness	Accuracy
916-065-01	0.65mm	±14µm
916-070-01	0.70mm	±17µm
916-075-01	0.75mm	±17µm
916-080-01	0.80mm	±19µm
916-085-01	0.85mm	±19µm
916-090-01	0.90mm	±22µm
916-095-01	0.95mm	±22µm
916-100-01	1.00mm	±24µm

917 INCH FEELER GAUGE

- .010" is made of brass, others are made of hardened alloy steel
- Each blade is marked with inch/metric size

Code	Range	Quantity of leaves
917-035-31	.0015"~.035"	32

unit: mm

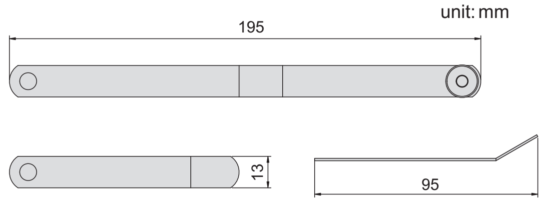


Thickness of leaves included	Accuracy
.010" (brass)	±.00039"
.0015", .002"	±.0002"
.0025"~ .007"	±.00028"
.008", .009"	±.00035"
.010", .011"	±.00039"
.012", .013"	±.00047"
.014", .015"	±.00051"
.016", .017"	±.00055"
.018", .019"	±.00059"
.020", .021"	±.00067"
.022", .023"	±.00071"
.024", .025", .026"	±.00075"
.028"	±.00091"
.030"	±.00094"
.032", .035"	±.00102"

919 OFFSET DUAL SCALE FEELER GAUGE

- Bend end
- Blade: length 4"
- Each blade is marked with imperial/metric size
- Made of hardened spring steel

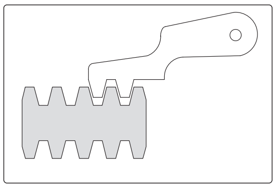
unit: mm

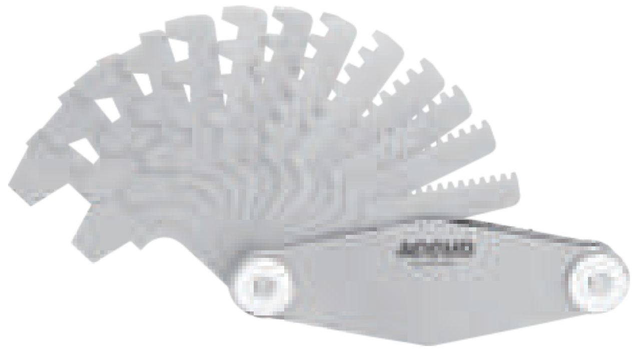


Code	Range	Quantity	Leaves thickness (mm)
919-030-26	0.005-0.020"	26	.005(.127mm), .006(.152mm), .007(.178mm), .008(.203mm), .009(.229mm), .010(.254mm), .011(.279mm), .012(.305mm), .013(.330mm), .014(.356mm), .015(.381mm), .016(.406mm), .017(.432mm), .018(.457mm), .019(.483mm), .020(.508mm), .021(.533mm), .022(.559mm), .023(.584mm), .024(.610mm), .025(.635mm), .026(.660mm), .027(.686mm), .028(.711mm), .029(.737mm), .030(.762mm)

SERIES 921 PITCH GAUGE

- Measure the pitch of thread
- Accuracy: ±0.07mm



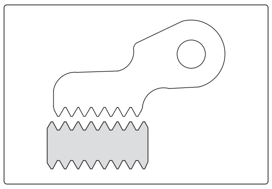


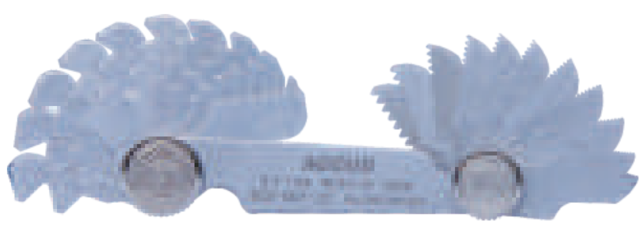
921-012-16

Code	Range	Thread	Quantity	Leaves pitch(mm)
921-020-12	2-20mm	Tr30°	12	2, 3, 4, 5, 6, 7, 8, 9, 10, 12, 16, 20mm
921-012-16	1-12TPI	ACME29°	16	1, 1-1/3, 1-1/2, 1-3/4, 2, 2-1/2, 3, 3-1/2, 4, 5, 6, 7, 8, 9, 10, 12TPI

SERIES 922/923/924/925 PITCH GAUGE

- Measure the pitch of thread
- Accuracy: ±0.07mm





922-007-22

METRIC 60° SCREW

Code	Range	Quantity	Leaves pitch
922-007-22	0.4-7.0mm	22	0.4, 0.5, 0.6, 0.7, 0.75, 0.8, 0.9, 1, 1.25, 1.5, 1.75, 2, 2.5, 3, 3.5, 4, 4.5, 5, 5.5, 6, 6.5, 7mm
922-007-24	0.25-7.0mm	24	0.25, 0.3, 0.35, 0.4, 0.5, 0.7, 0.75, 0.8, 0.9, 1, 1.25, 1.5, 1.75, 2, 2.5, 3, 3.5, 4, 4.5, 5, 5.5, 6, 6.5, 7mm
922-006-24	0.25-6.0mm	24	0.25, 0.3, 0.35, 0.4, 0.45, 0.5, 0.6, 0.7, 0.75, 0.8, 0.9, 1, 1.25, 1.5, 1.75, 2, 2.5, 3, 3.5, 4, 4.5, 5, 5.5, 6mm
922-025-28	0.25-2.5mm	28	0.25, 0.3, 0.35, 0.4, 0.45, 0.5, 0.55, 0.6, 0.65, 0.7, 0.75, 0.8, 0.85, 0.9, 1.0, 1.1, 1.2, 1.25, 1.3, 1.4, 1.5, 1.6, 1.7, 1.75, 1.8, 1.9, 2.0, 2.5mm

UNIFIED 60° SCREW

Code	Range	Quantity	Leaves pitch
923-042-30	4-42TPI	30	4, 4-1/2, 5, 5-1/2, 6, 7, 8, 9, 10, 11, 11-1/2, 12, 13, 14, 15, 16, 18, 20, 22, 24, 26, 27, 28, 30, 32, 34, 36, 38, 40, 42TPI

WHITWORTH 55° SCREW

Code	Range	Quantity	Leaves pitch
924-042-30	4-42TPI	30	4, 4-1/2, 5, 5-1/2, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 18, 19, 20, 22, 24, 26, 27, 28, 30, 32, 34, 36, 38, 40, 42TPI
924-062-28	4-62TPI	28	4, 4-1/2, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 16, 18, 19, 20, 22, 24, 25, 26, 28, 30, 32, 36, 40, 48, 60, 62TPI

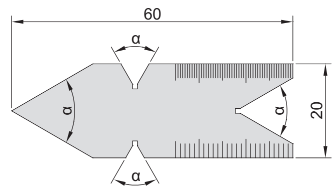
METRIC 60° AND WHITWORTH 55° SCREW

Code	Range	Quantity	Leaves pitch
925-062-52	0.25-6.0mm and 4-62TPI	52	pitch of **922-006-24** and **924-062-28**

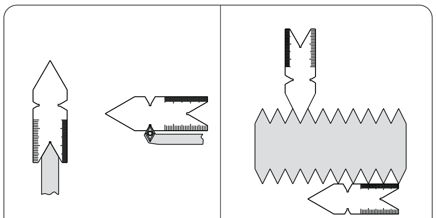
SERIES 926 CENTER GAUGE

- Check the screw angle and picth
- Accuracy: ±30'

926-060-02



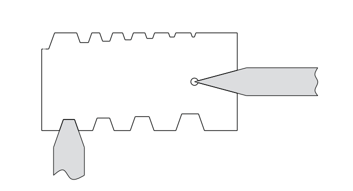
Code	Screw type	Angle(α)	Graduation
926-060-01	metric 60°	60°	0.5mm and 1mm
926-060-02	unified 60°	60°	front side: 1/14"and 1/20", reverse side: 1/24" and 1/32"
926-055-01	whitworth 55°	55°	front side: 1/14"and 1/20", reverse side: 1/24" and 1/32"

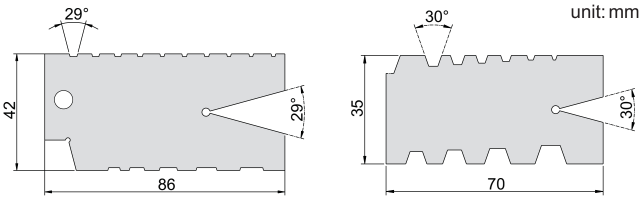


SERIES 927 THREAD GAUGE

- To check and set screw cutting tools
- Angle accuracy: ±10min.

927-008-01





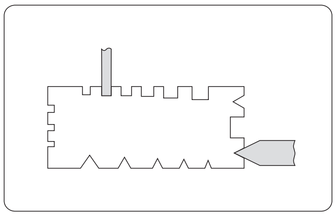
927-008-01 927-012-01

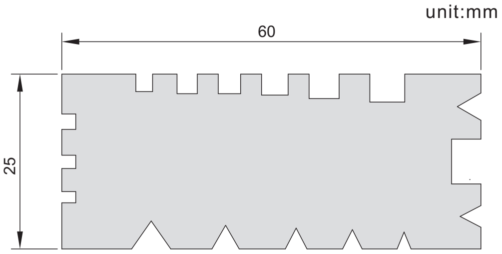
Code	Range	Thread type	Pitch
927-008-01	1-10TPI	ACME 29°	1, 1-1/3, 1-1/2, 1-3/4, 2, 2-1/2, 3, 4, 5, 6, 7, 8, 9, 10TPI
927-012-01	2-12mm	Tr 30°	2, 3, 4, 5, 6, 7, 8, 9, 10, 12mm

SIMPLE MEASURING TOOL

933 ANGLE GAUGE

- To check and set screw cutting tools
- Angle accuracy: ±10min.

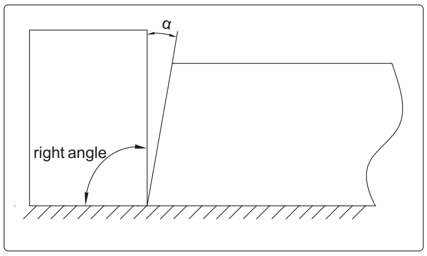




Code	Pitch	Angle(α)
933-008-11	2, 2.5, 3, 3.5, 4, 4.5, 5, 6, 7, 8TPI	45°, 53.8°, 55°, 60°, 70°

931 ANGLE GAUGE

- Check the coangle
- Accuracy: ±30'



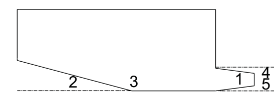
Code	Range	Quantity	Leaves angle(α)
931-045-20	1°-45°	20	1°, 2°, 3°, 4°, 5°, 6°, 7°, 8°, 9°, 10°, 12°, 14°, 16°, 18°, 20°, 25°, 30°, 35°, 40°, 45°

932 ANGLE GAUGE SET

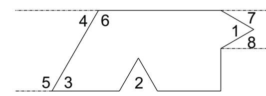
- Each blade checks primary, 1/2 primary and complementary angles

Code	Quantity of leaves	Accuracy
932-018-01	18	±10'

Primary angle	½ primary angle	Complementary angle
5°	2°30'	175°
10°	5°	170°
15°	7°30'	165°
20°	10°	160°
25°	12°30'	155°
30°	15°	150°
35°	17°30'	145°
40°	20°	140°
45°	22°30'	135°
50°	25°	130°
55°	27°30'	125°
60°	30°	120°
65°	32°30'	115°
70°	35°	110°
75°	37°30'	105°
80°	40°	100°
85°	42°30'	95°
90°	45°	90°

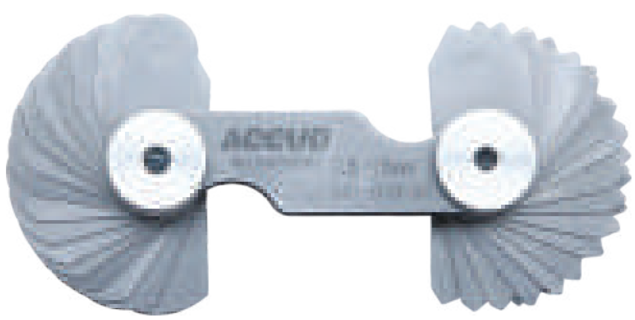


Angle 1, 2 are primary angle
Angle 3 is complementary angle
Angle 4, 5 are 1 / 2 primary angle



Angle 1, 2, 3, 4 are primary angle
Angle 5, 6 are complementary angle
Angle 7, 8 are 1 / 2 primary angle

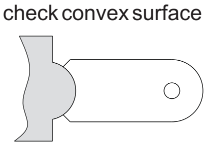
SERIES 941 RADIUS GAUGE



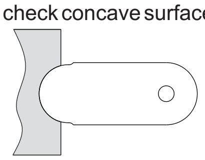
941-015-32

- Check the radius
- With concave and convex surface in each size

check convex surface



check concave surface

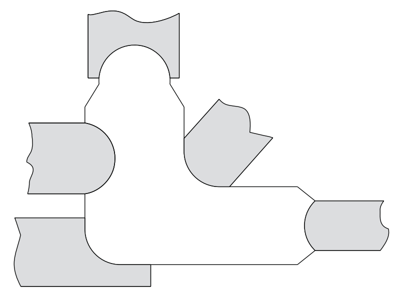


Code	Range	Quantity	Accuracy	Leaves radius (mm)
941-007-34	1-7mm	17x2	±0.03mm	1, 1.25, 1.5, 1.75, 2, 2.25, 2.5, 2.75, 3, 3.5, 4, 4.5, 5, 5.5, 6, 6.5, 7
941-015-32	7.5-15mm	16x2	±0.035mm	7.5, 8, 8.5, 9, 9.5, 10, 10.5, 11, 11.5, 12, 12.5, 13, 13.5, 14, 14.5, 15
941-025-30	15.5-25mm	15x2	±0.042mm	15.5, 16, 16.5, 17, 17.5, 18, 18.5, 19, 19.5, 20,21, 22, 23, 24, 25

942 RADIUS GAUGE

- Each piece has 2 concave and 3 convex surfaces
- With handle
- Accuracy: ±0.05mm

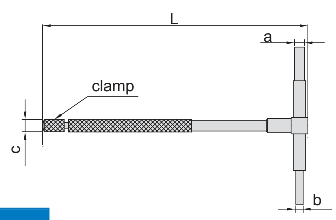

Handle


2 concave and 3 convex surfaces

Code	Range	Quantity	Included radius(mm)
942-013-26	0.5 - 13mm	26	0.5, 1, 1.5, 2, 2.5, 3, 3.5, 4, 4.5, 5, 5.5, 6, 6.5, 7, 7.5, 8, 8.5, 9, 9.5, 10, 10.5, 11, 11.5, 12, 12.5, 13

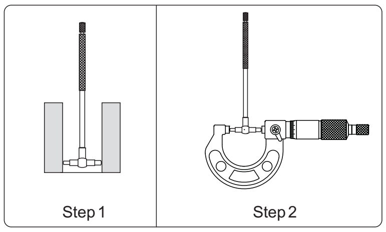
951 TELESCOPING GAUGE SET

- 6 gauges per set
- For quick measurement of inside diameter of holes and width of slots
- Satin chrome finish



Code	Each gauge range	L	a	b	c
951-006-01	8-12.7mm	115mm	Ø3.9mm	Ø2.9mm	Ø6.2mm
	12.7-19mm	115mm	Ø5.3mm	Ø3.8mm	Ø6.2mm
	19-32mm	115mm	Ø5.3mm	Ø3.8mm	Ø6.2mm
	32-54mm	137mm	Ø7.6mm	Ø6.1mm	Ø7.2mm
	54-90mm	137mm	Ø7.6mm	Ø6.1mm	Ø7.2mm
	90-150mm	137mm	Ø7.6mm	Ø6.1mm	Ø7.2mm

Use

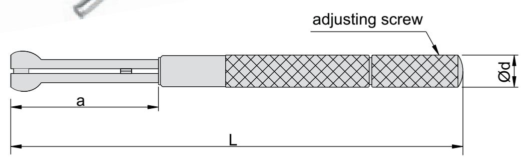


952 SMALL HOLE GAUGE SET

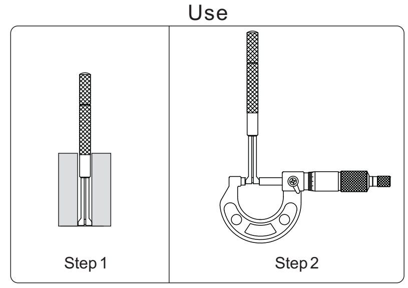
- 4 gauges per set
- For small holes, slots and grooves, etc.
- Satin chrome finish

unit: mm

Ball type



Use



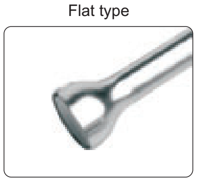
Code	Range	L	a	Ød
952-004-01	3-5mm	77	24	6
	5-7.5mm	77	25	6
	7.5-10mm	87	28.5	7
	10-13mm	92	32	7

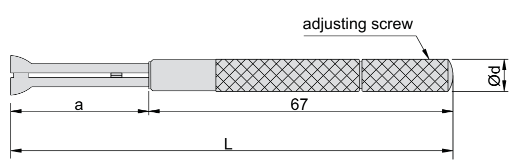
952 SMALL HOLE GAUGE SET

- 4 gauges per set
- For small holes, slots and grooves, etc.
- Satin chrome finish

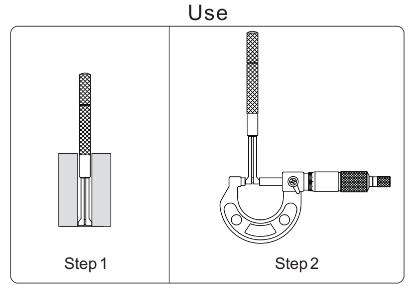
unit: mm

Flat type





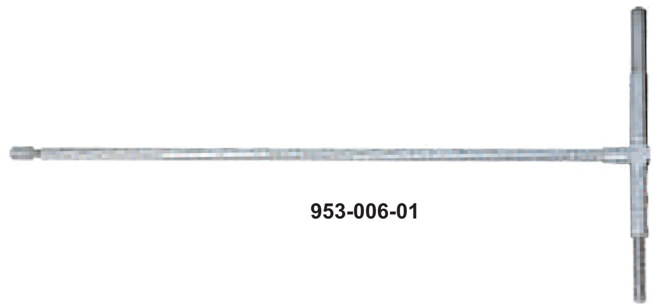
Use



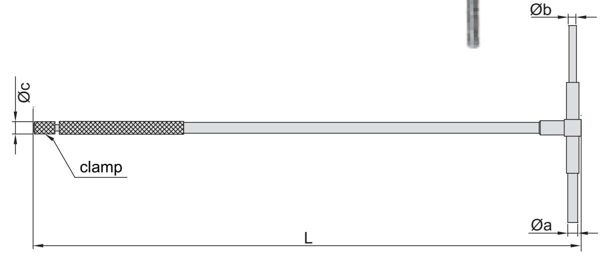
Code	Range	L	a	Ød
952-004-02	3-5mm	77	24	6
	5-7.5mm	77	25	6
	7.5-10mm	87	28.5	7
	10-13mm	92	32	7

SERIES 953 LONG HANDLE TELESCOPING GAUGE

- For quick measuring inside diameter of deep holes and width of slots
- Satin chrome finish

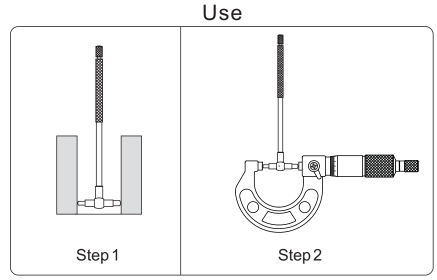


953-006-01



Code	Range	L	Øa	Øb	Øc
953-001-01	8-12.7mm	250mm	3.9mm	2.9mm	6.2mm
953-002-01	12.7-19mm	250mm	5.3mm	3.8mm	6.2mm
953-003-01	19-32mm	250mm	5.3mm	3.8mm	6.2mm
953-004-01	32-54mm	300mm	7.6mm	6.1mm	7.2mm
953-005-01	54-90mm	300mm	7.6mm	6.1mm	7.2mm
953-006-01	90-150mm	300mm	7.6mm	6.1mm	7.2mm

Use

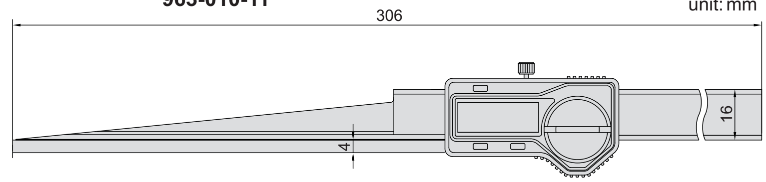


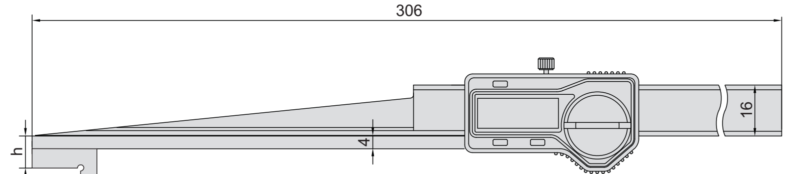
SERIES 963 DIGITAL TAPER GAUGE

Data output
CR2032

963-010-11

unit: mm

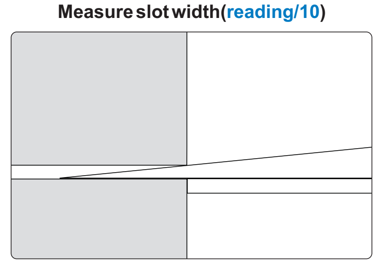




963-020-11 and 963-030-11 and 963-040-11

- Measuring opening, slot width
- Resolution: 0.01mm/0.0005"
- Buttons: on/off, zero, mm/inch
- Data output(cabie code:100-11 or 100-12)
- Automatic power on/off
- Made of stainless steel

Measure slot width(reading/10)



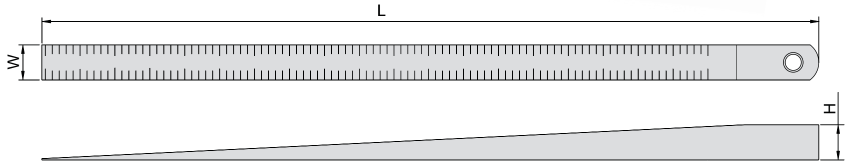
Code	Range	Accuracy	h
963-010-11	0.2-10mm/0.01-0.39"	±0.03mm	-
963-020-11	10-20mm/0.39-0.79"	±0.05mm	10
963-030-11	20-30mm/0.79-1.18"	±0.05mm	20
963-040-11	30-40mm/1.18-1.58"	±0.05mm	30

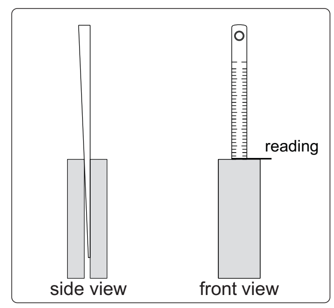
SERIES 961 TAPER GAUGE

- Measure the gap width
- Stain chrome plated reading surface
- Made of the stainless steel

961-010-05

unit: mm





Code	Range	Graduation	Accuracy	L	W	H
961-004-05	0.2 - 4mm	0.05mm	±0.05mm	120	12	4.3
961-006-05	0.4 - 6mm	0.05mm	±0.05mm	166	11.5	6.5
961-010-05	0.5 - 10mm	0.05mm	±0.05mm	225	12.5	10.5
961-015-05	0.5 - 15mm	0.1mm	±0.05mm	184	11	16

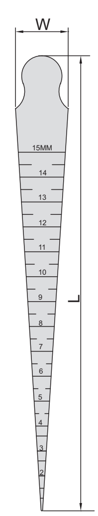
SERIES 962 TAPER GAUGE

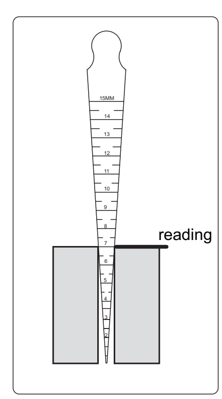
- Measure the groove width and hole size
- Made of the stainless steel

962-015-05

front side reverse side

unit: mm

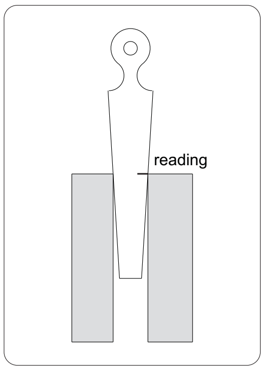




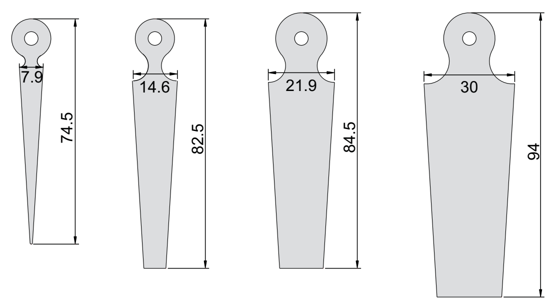
Code	Range	Graduation	Accuracy	L	W
962-015-05	0.8-15mm	0.1mm	±0.1mm	146	17
962-030-05	15-30mm	0.1mm	±0.1mm	159	30.4
962-045-05	30-45mm	0.1mm	±0.1mm	166	45.4
962-060-05	45-60mm	0.1mm	±0.1mm	170	60.5

962 TAPER GAUGE SET

- Include 4 pcs (1-7.5mm,7.5-14.5mm, 14.5-21.5mm,21.5-29mm)
- Measure opening slot width
- Made of stainless steel



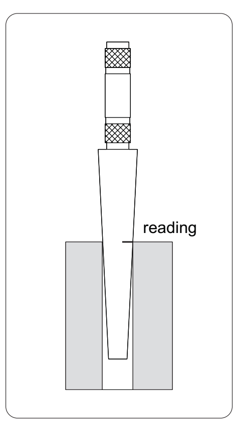
unit: mm



Code	Range	Graduation	Accuracy
962-029-41	1-29mm	0.1mm	±0.05mm

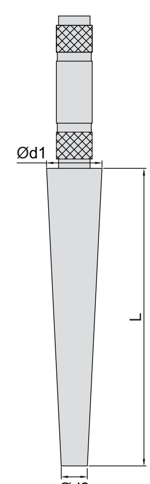
SERIES 964 TAPER BORE GAUGE

- Quick measuring diameter of the bore
- Graduation: 0.1mm
- Hardened steel, HRC50-58
- Satin chrome plated surface
- Aluminium oxided handle



964-015-11

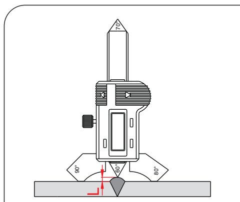
unit: mm

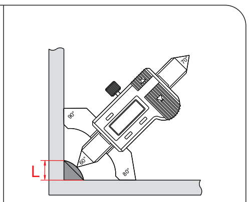


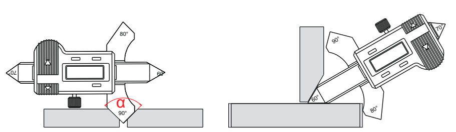
Code	Range	Accuracy	L	Ød1	Ød2
964-006-11	1-6.5mm	±0.05mm	62.5	7	0.8
964-015-11	3-15mm	±0.05mm	143	17	2.8
964-030-11	15-30mm	±0.05mm	165	31	14.7
964-045-11	30-45mm	±0.05mm	165	46	29.6
964-060-11	45-60mm	±0.05mm	167	61	44

970 DIGITAL WELDING GAUGE

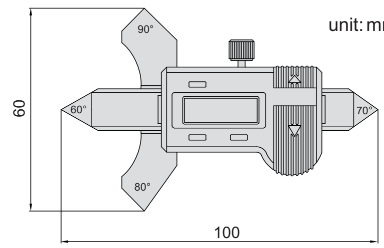
- Buttons: zero, mm/inch, on/off
- Made of stainless steel


measure crown height


measure fillet weld throat size


measure angle

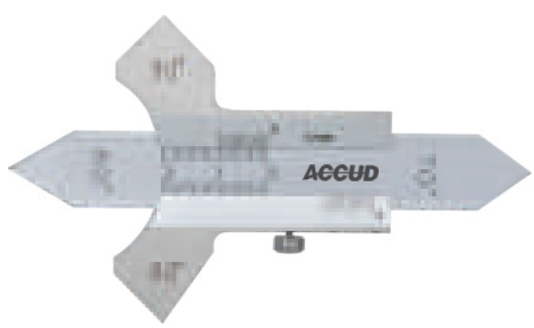
unit: mm

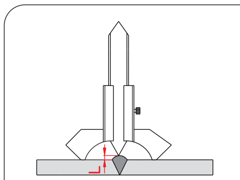


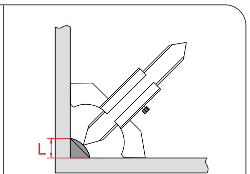
Code	Range	Accuracy	Resolution	Application
970-010-11	0 - 10mm	±0.03mm	0.01mm/0.0005"	measure crown height
	0 - 20mm	±0.1mm	0.01mm/0.0005"	measure fillet weld throat size
	60°, 70°, 80°, 90°	±1°	—	measure angle

971 WELDING GAUGE

- Made of stainless steel
- Stain chrome plated reading surface

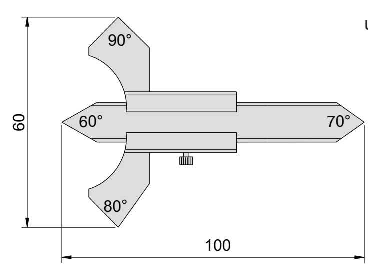



measure crown height


measure fillet weld throat size


measure angle

unit: mm



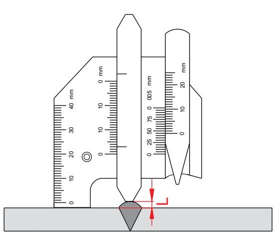
Code	Range	Graduation	Accuracy	Application
971-008-01	0 - 8mm	0.1mm	±0.1mm	measure crown height
	0 - 20mm	0.1mm	±0.3mm	measure fillet weld throat size
	60°, 70°, 80°, 90°	—	±1°	measure angle

973 WELDING GAUGE

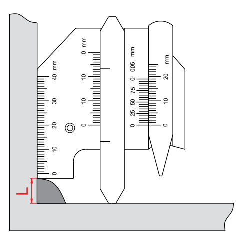
- Made of stainless steel

front side

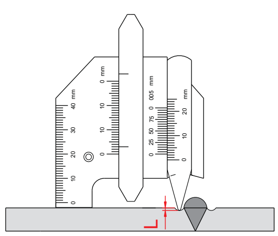
reverse side



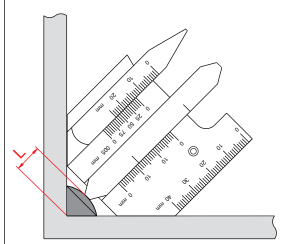
measure crown height



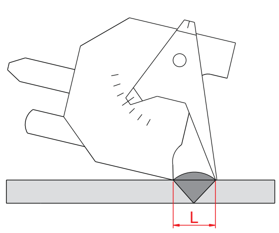
measure leg height



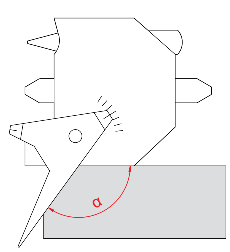
measure undercut depth



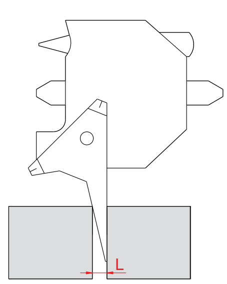
measure throat size



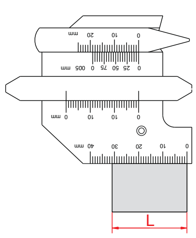
measure weld length



measure angle



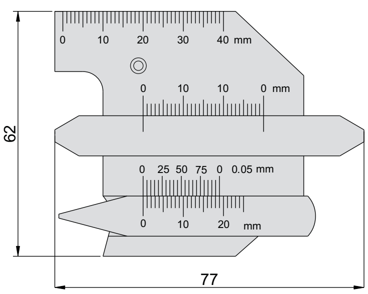
measure gap



measure length

Code	Application	Range	Graduation	Accuracy
973-014-01	measure crown height	0 - 10mm	1mm	±0.5mm
	measure leg height	0 - 14mm	1mm	±0.5mm
	measure undercut depth	0 - 5mm	0.05mm	±0.05mm
	measure throat size	0 - 13mm	1mm	±0.5mm
	measure weld length	0 - 40mm	1mm	±1mm
	measure angle	90° - 150°	5°	±1°
	measure gap	0.5 - 5mm	1mm	±0.5mm
	measure length	0 - 40mm	1mm	±0.5mm

unit: mm

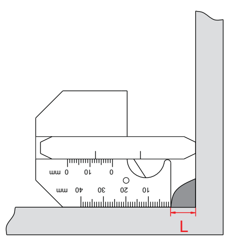


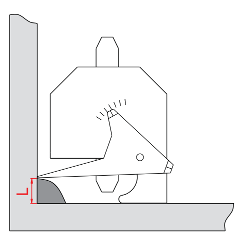
974 WELDING GAUGE

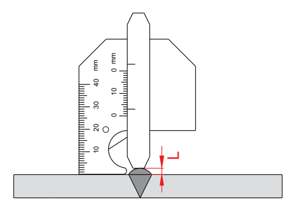
- Made of stainless steel
- Stain chrome plated surface

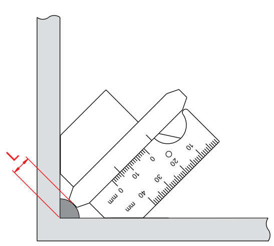

reverse side

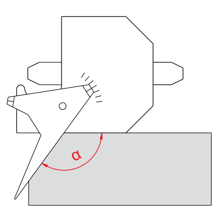

front side

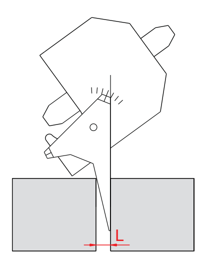

measure leg length

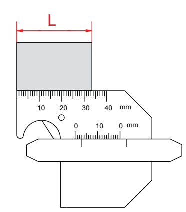

measure leg height


measure crown height


measure throat size

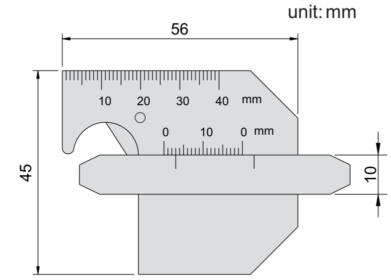

measure angle


measure gap


measure length

Code	Application	Range	Graduation	Accuracy
974-013-01	measure leg length	0 - 10mm	0.1mm	±0.1mm
	measure leg height	0 - 20mm	1mm	±0.5mm
	measure crown height	0 - 10mm	0.1mm	±0.1mm
	measure throat size	0 - 10mm	0.1mm	±0.1mm
	measure angle	0° - 60°	5°	±1°
	measure gap	1 - 3.5mm	0.5mm	±0.5mm
	measure length	0 - 40mm	1mm	±0.5mm

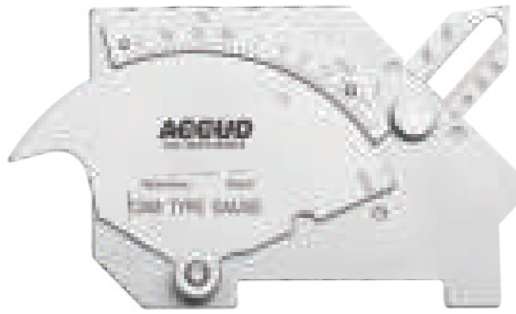
unit: mm



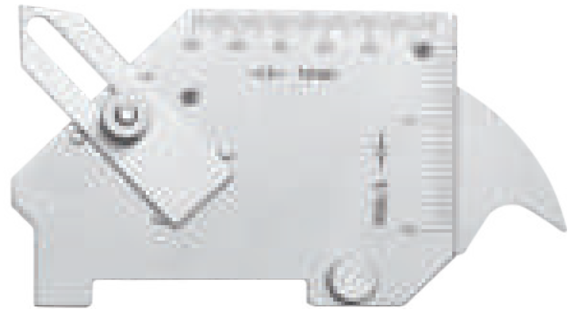
SIMPLE MEASURING TOOL

975 WELDING GAUGE

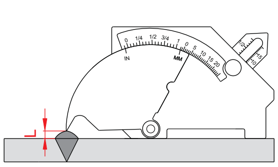
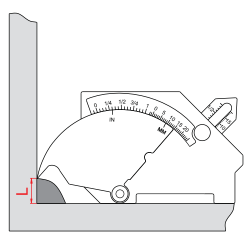
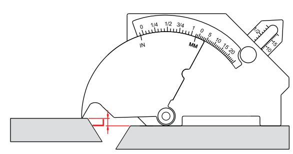
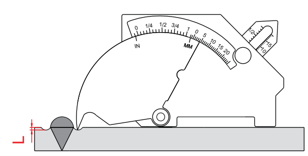
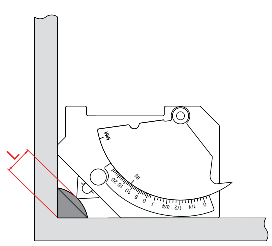
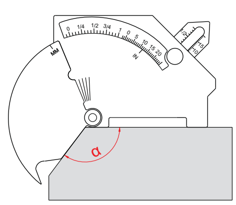
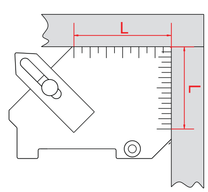
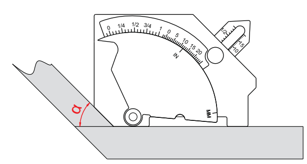
- Adjustable scale to compensate pointer wear
- Made of stainless steel



front side

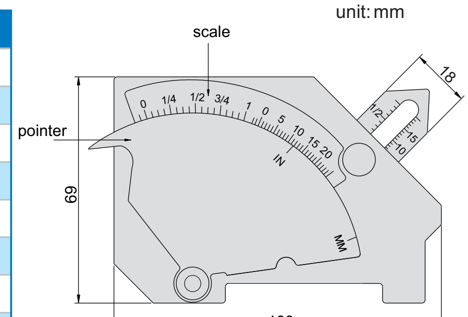


reverse side

 measure crown height	 measure fillet weld leg height	 measure misalignment	 measure undercut depth
 measure fillet weld throat size	 measure angle of preparation	 measure length	 measure 45° angle

Code	Application	Range	Graduation	Accuracy
975-025-01	measure crown height	0-25mm (0-1")	1mm (1/16")	±0.5mm
	measure fillet weld leg height	0-25mm (0-1")	1mm (1/16")	±0.5mm
	measure misalignment	0-25mm (0-1")	1mm (1/16")	±0.5mm
	measure undercut depth	0-2mm (0-1/8")	1mm (1/16")	±0.5mm
	measure fillet weld throat size	0-20mm (0-3/4")	1mm (1/16")	±0.5mm
	measure angle of preparation	0-60°	5°	±1°
	measure length	0-60mm (0-2")	1mm (1/16")	±0.5mm
	measure 45° angle	—	—	±1°

unit: mm

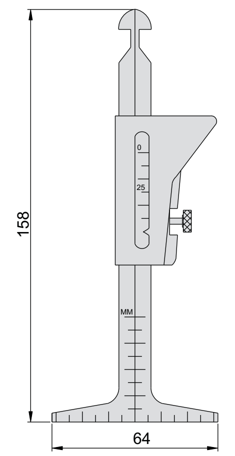


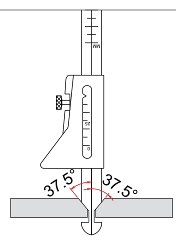
976 PIPE WELDING GAUGE

- Made of stainless steel

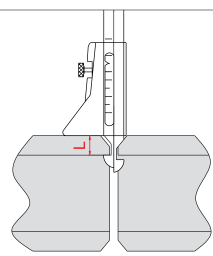
front side

reverse side

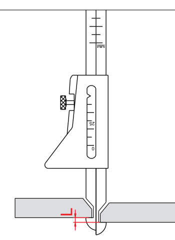




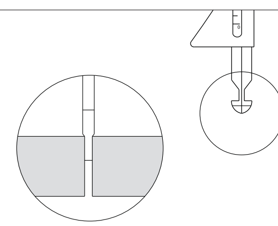
measure bevel on end preparation



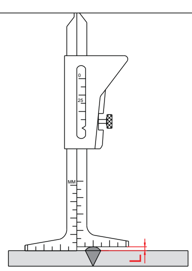
measure pipe wall thickness



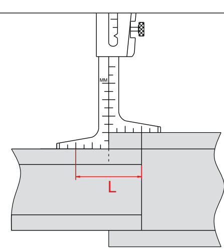
measure internal misalignment



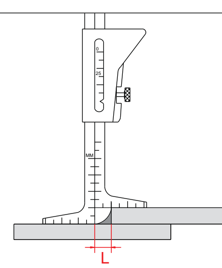
measure fit-up gap



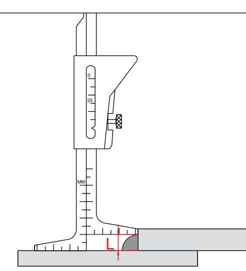
measure crown height



measure distance between two marking lines of socket weld



measure fillet weld length



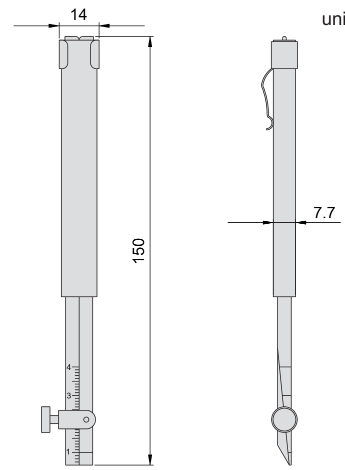
measure fillet weld height

Code	Application	Range	Graduation	Accuracy
976-045-01	measure bevel on end preparation	37.5°	—	±1°
	measure pipe wall thickness	0 - 45mm (0 – 1-3/4")	1mm (1/16")	±0.5mm
	measure internal misalignment	0 - 35mm (0 – 1-3/8")	1mm (1/32")	±0.5mm
	measure fit-up gap	1.6mm, 2.2mm	—	±0.1mm
	measure crown height	0 - 35mm (0 – 1-3/8")	1mm (1/32")	±0.5mm
	measure distance between two marking lines of socket weld	0 - 60mm (0 – 2-3/8")	1mm (1/16")	±0.5mm
	measure fillet weld length	0 - 30mm (0 – 1-1/4")	1mm (1/16")	±0.5mm
	measure fillet weld height	0 - 35mm (0 – 1-3/8")	1mm (1/32")	±0.5mm

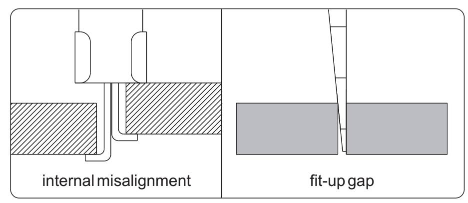
960 PIP WELDING GAUGE

- Made of stainless steel

unit: mm

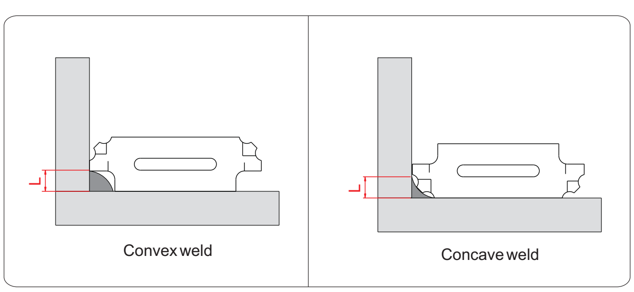


Code	Measurement	Range	Graduation	Accuracy
960-030-01	internal misalignment	0-30mm	1mm	±0.5mm
	fit-up gap	0.7-4mm	0.1mm	±0.1mm

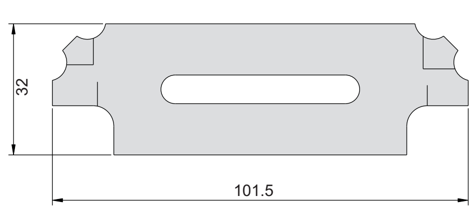


SERIES 977 FILLET WELD GAUGE

- Measure concave and convex weld sizes
- 7 blades are included
- Each blade measures two sizes of concave and convex weld
- Made of stainless steel



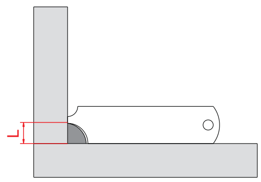
unit: mm



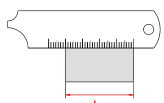
Code	Accuracy	Size
977-025-01	±0.5mm	3, 4, 5, 6, 8, 9, 10, 11, 12, 14, 16, 19, 22, 25
977-025-02	±0.02"	1/8",3/16",1/4",5/16",3/8",7/16",1/2",5/8",3/4",7/8",1"

745 FILLET WELDING GAUGE

- Measure convex weld sizes
- 3 blades are included
- Made of stainless steel

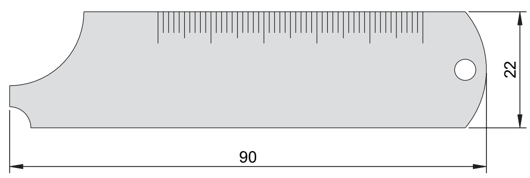


Convex weld



Measure length

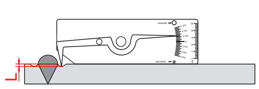
unit: mm



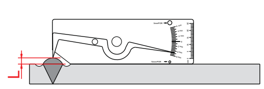
Code	Measurement	Range	Graduation	Accuracy
745-050-03	convex weld size	4, 6, 8, 10, 12, 14mm	—	±0.5mm
	lenght	0-50mm	1mm	±0.5mm

978 WELDING GAUGE

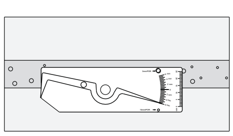
- Pointer can be locked for later reference
- Made of stainless steel



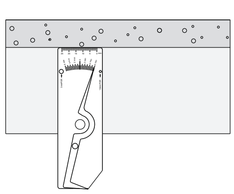
undercut depth



crown height

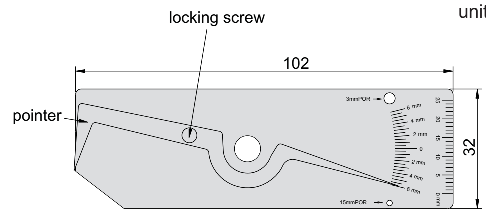


porosity size comparison



amount of porosity per 25mm

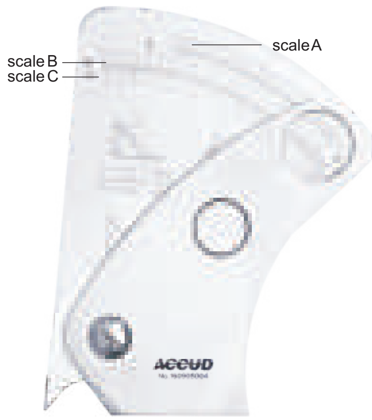
unit: mm



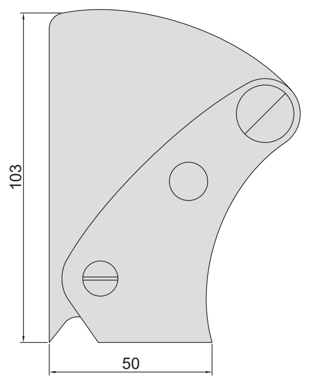
Code	Measurement	Range	Graduation	Accuracy
978-006-01	undercut depth	0 - 6mm	0.5mm	±0.5mm
	crown height	0 - 6mm	0.5mm	±0.5mm
	porosity size comparison	1.5mm, 3mm	—	±0.2mm
	amount of porosity per 25mm	25mm	1mm	—

966 WELDING GAUGE

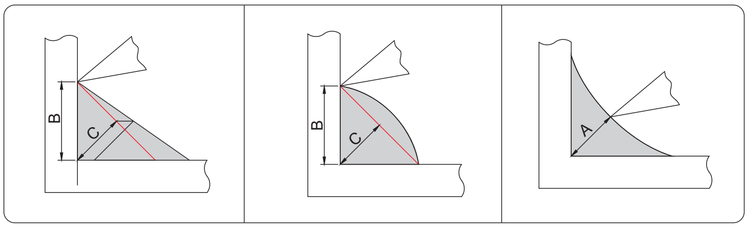
- Made of stainless steel



unit: mm

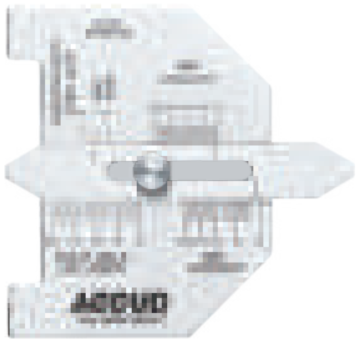


Code	Graduation	Accuracy
966-001-01	0.2mm	±0.3mm

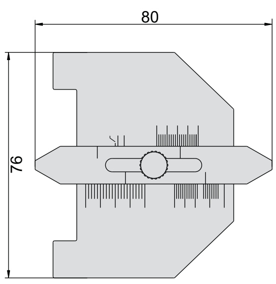


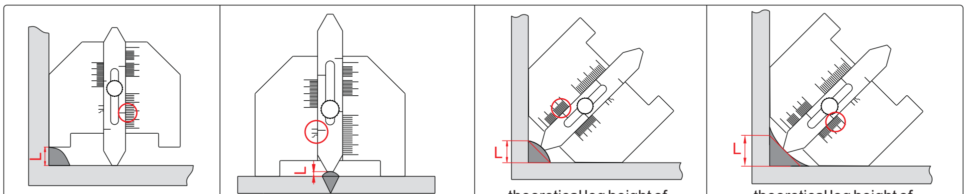
979 WELDING GAUGE

- Made of stainless steel



unit: mm





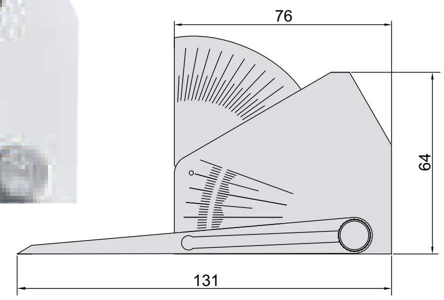
leg height | crown height | theoretical leg height of convex weld | theoretical leg height of concave

Code	Range	Graduation	Accuracy	Measurement
979-020-01	0-20mm	1mm	±0.5mm	leg height
	0-3mm	—	±0.5mm	crown height
	0-20mm	1mm	±0.5mm	theoretical leg height of convex weld
	0-20mm	1mm	±0.5mm	theoretical leg height of concave

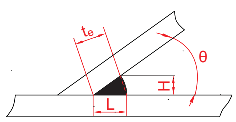
969 FILLET WELDING GAUGE

- Calculating card is included
- Made of stainless steel

unit: mm

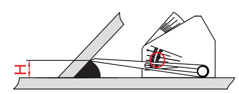


Calculating card (included)

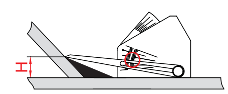


measure weld seam height **H** and angle **θ**, calculate theoretical throat size **t_e** and leg height **L** according to **H** and **θ**.

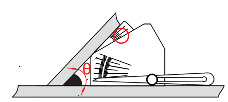
Code	Measurement	Range	Graduation	Accuracy
969-050-01	weld seam height **H**	0-50mm/0-2"	2mm/.050"	±1mm
	angle **θ**	30°- 90°	2.5°	±1°
	90° angle	–	–	±0.5°



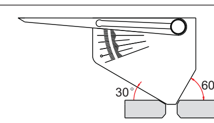
weld seam height of acute angle



weld seam height of obtuse angle



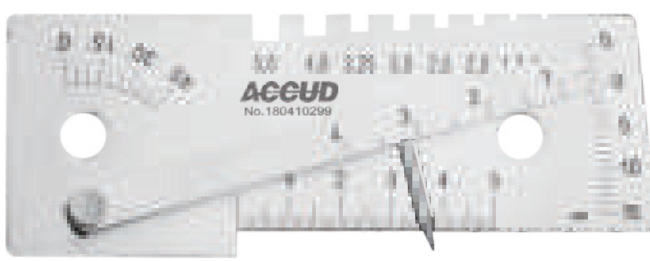
angle



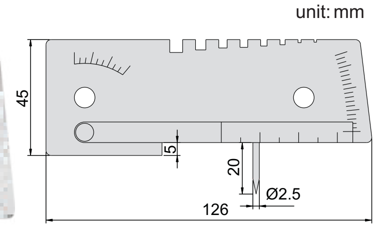
angle of preparation

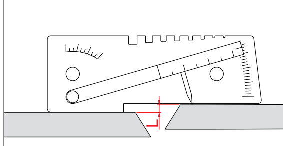
746 WELDING GAUGE

- Made of stainless steel

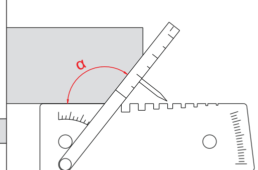


unit: mm

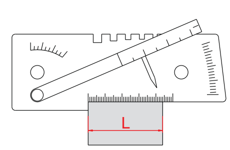




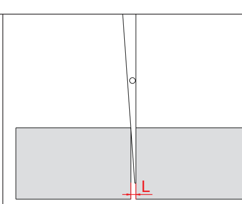
misalignment (high-low)



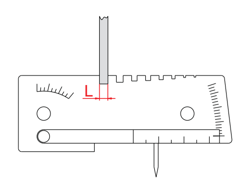
angle of preparation



lenght



gap

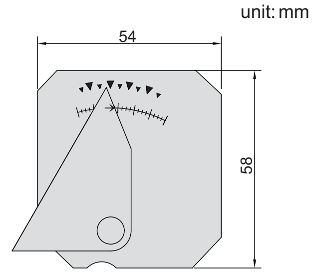


thickness

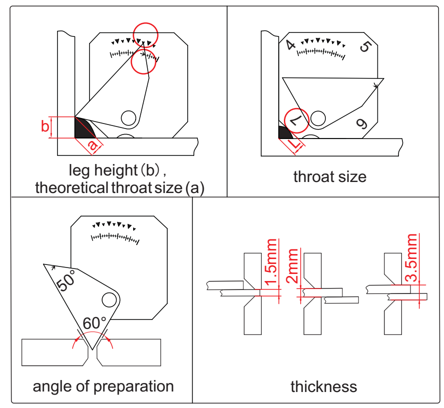
Code	Measurement	Range	Graduation	Accuracy
746-050-01	misalignment (high-low)	-5mm-15mm	1mm	±0.5mm
	angle of preparation	0°-45°	5°	±2.5°
	lenght	0-50mm	1mm	±0.5mm
	gap	1-4mm	0.5mm	±0.25mm
	thickness	1, 1.2 , 2.0 , 2.5 , 3.0, 3.25, 4.0, 5.0mm	—	±0.1mm

747 WELDING GAUGE

- Made of stainless steel

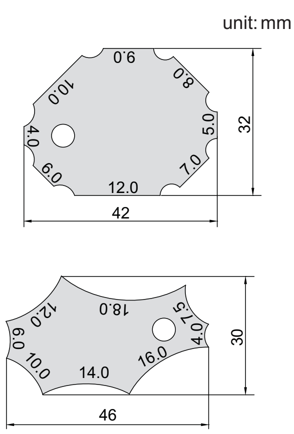


Code	Measurement	Range	Graduation	Accuracy
747-018-01	theoretical throat size (a)	2-12mm	1mm	±0.5mm
	leg height (b)	0-18mm	1mm	±0.5mm
	throat size	4, 5, 6, 7mm	—	±0.5mm
	angle of preparation	50°, 60°	—	±1°
	thickness	1.5, 2, 3.5mm	—	±0.2mm

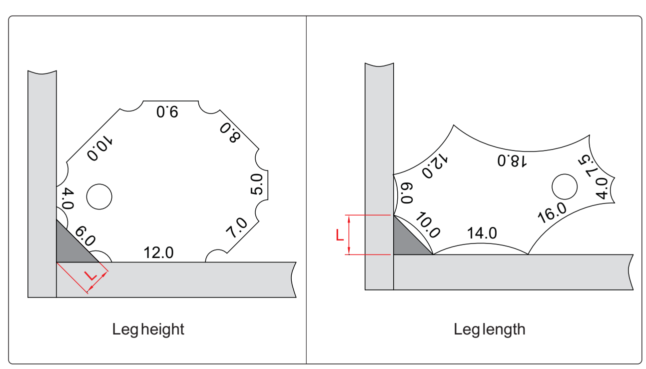


972 WELDING GAUGE

- Double printing in front and reverse side
- Made of the stainless steel



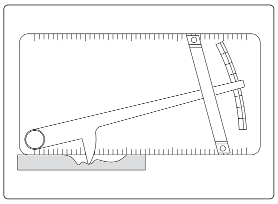
Code	Leg height	Leg length	Accuracy
972-012-01	4, 5, 6, 7, 8, 9, 10, 12mm	4, 6, 7.5, 10, 12, 14, 16, 18mm	±0.5mm



748 PIPE PIT GAUGE

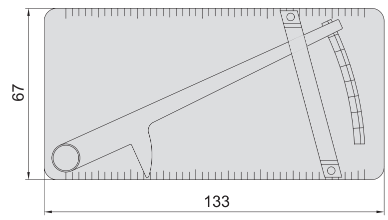
- Made of stainless steel

Application



front side

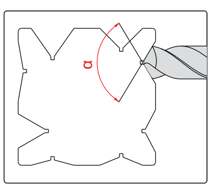
reverse side

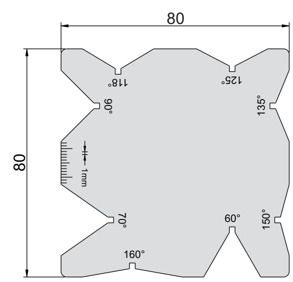


Code	Range	Graduation	Accuracy
748-012-01	0-0.5"(0-1/2")	0.01"(1/16")	±0.02"

968 DRILL ANGLE GAUGE

- Check drills with angle 60°, 70°, 90°, 118°, 125°, 135°, 150° or 160°
- Made of stainless steel



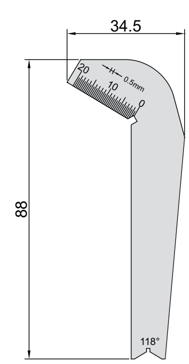


Code	Accuracy
968-001-01	±0.5°

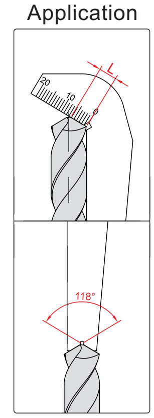
965 DRILL POINT GAUGE

- For twist drills with 118° angle, to check if the center of tip is concentric with the drill body
- Made of stainless steel

unit: mm



Application



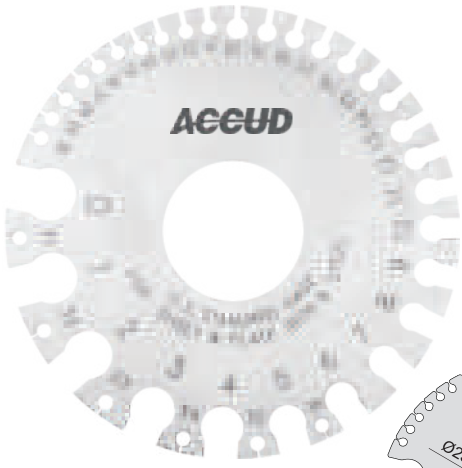
Code	Accuracy	
	Angle	Length
965-005-01	±0.5°	±0.5mm

SERIES 741 U.S. STANDARD SHEET METAL GAUGE

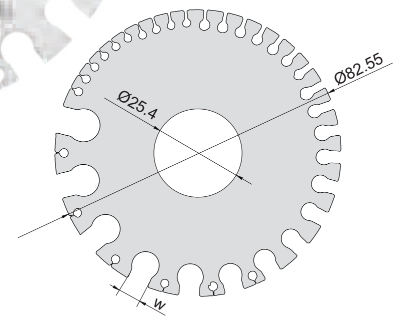
Code	Range
741-036-12	0-36(7.938-0.179mm/.3125-.0070")

NO.	W
0	7.938mm(.3125")
1	7.144mm(.2813")
2	6.747mm(.2656")
3	6.350mm(.2500")
4	5.953mm(.2344")
5	5.556mm(.2188")
6	5.159mm(.2031")
7	4.763mm(.1875")
8	4.366mm(.1719")
9	3.969mm(.1563")
10	3.572mm(.1406")
11	3.175mm(.1250")
12	2.778mm(.1094")
13	2.381mm(.0938")
14	1.984mm(.0781")
15	1.786mm(.0703")
16	1.588mm(.0625")
17	1.429mm(.0563")
18	1.270mm(.0500")

NO.	W
19	1.111mm(.0438")
20	0.953mm(.0375")
21	0.873mm(.0344")
22	0.794mm(.0313")
23	0.714mm(.0281")
24	0.635mm(.0250")
25	0.556mm(.0219")
26	0.476mm(.0188")
27	0.437mm(.0172")
28	0.397mm(.0156")
29	0.357mm(.0141")
30	0.318mm(.0125")
31	0.278mm(.0109")
32	0.258mm(.0102")
33	0.238mm(.0094")
34	0.218mm(.0086")
35	0.198mm(.0078")
36	0.179mm(.0070")



unit: mm



- For gaging sheet metal, plate iron and steel
- Hardened

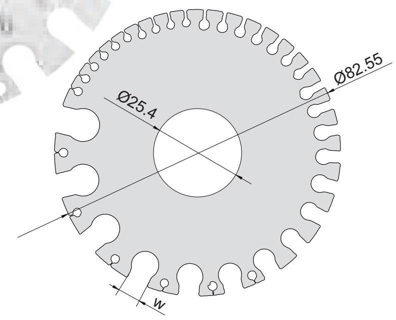
SERIES 741 AMERICAN STANDARD WIRE GAUGE

Code	Range
741-036-11	0-36(8.250-0.127mm/.3249-.0050")

NO.	W
0	8.250mm(.3249")
1	7.350mm(.2893")
2	6.540mm(.2576")
3	5.830mm(.2294")
4	5.190mm(.2043")
5	4.620mm(.1819")
6	4.110mm(.1620")
7	3.670mm(.1443")
8	3.260mm(.1285")
9	2.910mm(.1144")
10	2.590mm(.1019")
11	2.300mm(.0907)
12	2.050mm(.0808")
13	1.820mm(.0720")
14	1.630mm(.0641")
15	1.450mm(.0571")
16	1.290mm(.0508")
17	1.150mm(.0453")
18	1.020mm(.0403")

NO.	W
19	0.912mm(.0359")
20	0.813mm(.0320")
21	0.724mm(.0285")
22	0.643mm(.0253")
23	0.574mm(.0226")
24	0.511mm(.0201")
25	0.440mm(.0179")
26	0.404mm(.0159")
27	0.361mm(.0142")
28	0.320mm(.0126")
29	0.287mm(.0113")
30	0.254mm(.0100")
31	0.226mm(.0089")
32	0.203mm(.0080")
33	0.180mm(.0071")
34	0.160mm(.0063")
35	0.142mm(.0056")
36	0.127mm(.0050")

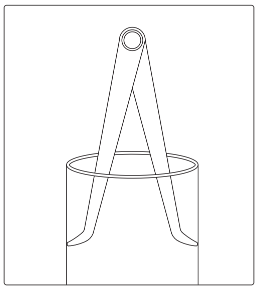
unit: mm



- For gaging non-ferrous wire and metals such as copper, brass and aluminum
- Hardened

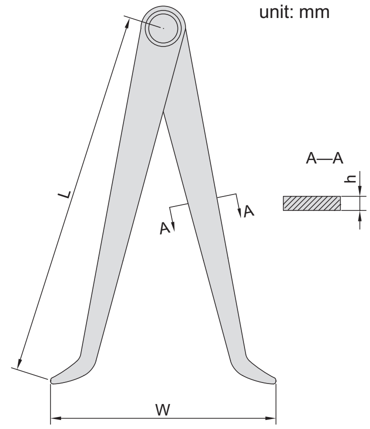
SERIES 981 INSIDE CALIPER

- Made of carbon steel



981-006-01

unit: mm

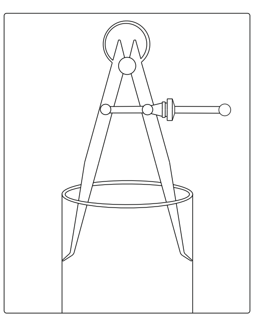


Code	Size(L)	Range(W)	h
981-006-01	150mm	15 - 150mm	2mm
981-008-01	200mm	15 - 200mm	2mm
981-010-01	250mm	15 - 250mm	3mm
981-012-01	300mm	15 - 300mm	3mm
981-016-01	400mm	30-400mm	3mm
981-020-01	500mm	30-500mm	3mm
981-024-01	600mm	30-600mm	3mm
981-032-01	800mm	30-800mm	4mm
981-040-01	1000mm	30-1000mm	4mm

package

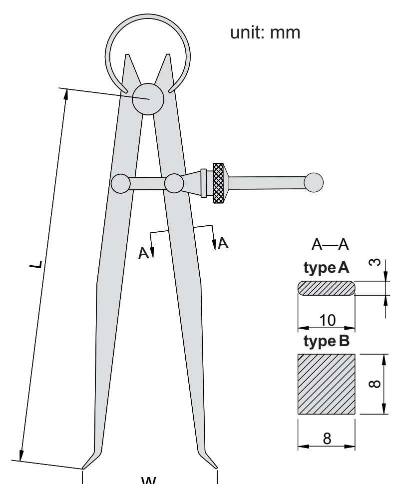
SERIES 982 INSIDE SPRING CALIPER

- Made of carbon steel



982-006-01

unit: mm

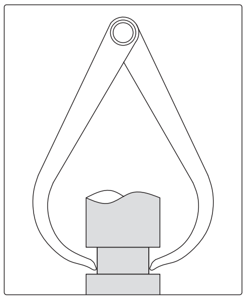


Code	Size(L)	Range(W)	Type
982-005-01	125mm	15 - 115mm	A
982-006-01	150mm	15 - 140mm	A
982-008-01	200mm	18 - 190mm	A
982-010-01	250mm	20 - 240mm	A
982-012-01	300mm	20 - 290mm	A
982-016-01	400mm	20 - 390mm	B
982-020-01	500mm	25 - 490mm	B
982-024-01	600mm	25 - 590mm	B

package

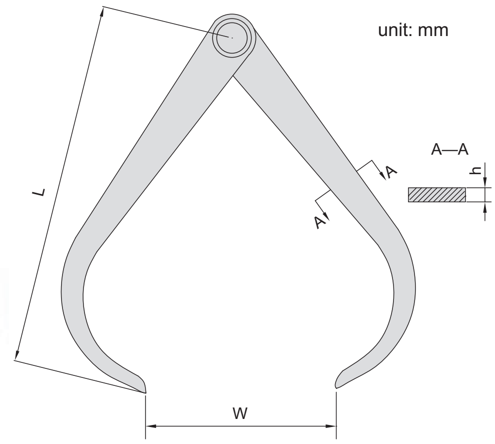
SERIES 983 OUTSIDE CALIPER

- Made of carbon steel

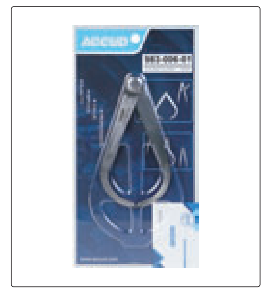


983-006-01

unit: mm



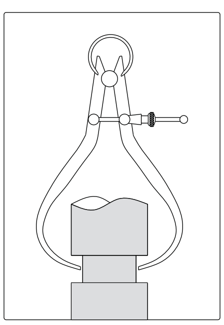
package



Code	Size(L)	Range(W)	h
983-006-01	150mm	0-150mm	2mm
983-008-01	200mm	0-200mm	2mm
983-010-01	250mm	0-250mm	3mm
983-012-01	300mm	0-300mm	3mm
983-016-01	400mm	0-400mm	3mm
983-020-01	500mm	0-500mm	3mm
983-024-01	600mm	0-600mm	3mm
983-032-01	800mm	0-800mm	4mm
983-040-01	1000mm	0-1000mm	4mm

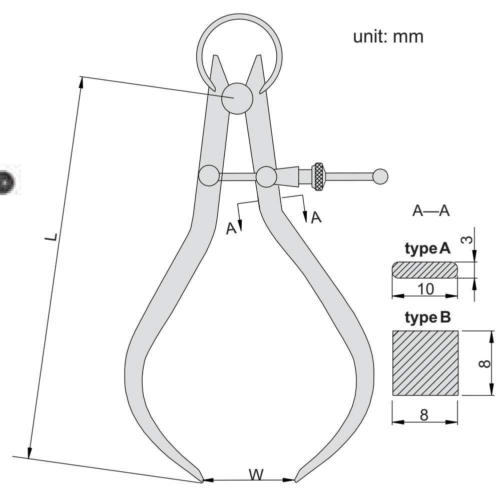
SERIES 984 OUTSIDE SPRING CALIPER

- Made of carbon steel



984-005-01

unit: mm



package

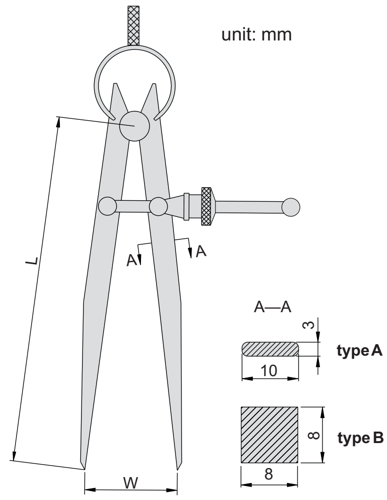
Code	Size(L)	Range(W)	Type
984-005-01	125mm	0-115mm	A
984-006-01	150mm	0-140mm	A
984-008-01	200mm	0-190mm	A
984-010-01	250mm	0-240mm	A
984-012-01	300mm	0-290mm	A
984-016-01	400mm	0-390mm	B
984-020-01	500mm	0-490mm	B
984-024-01	600mm	0-590mm	B

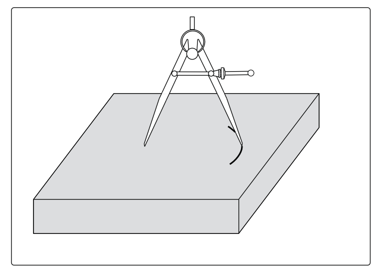
SERIES 985 SPRING DIVIDER

- Made of carbon steel
- Hardened points

package

985-005-01



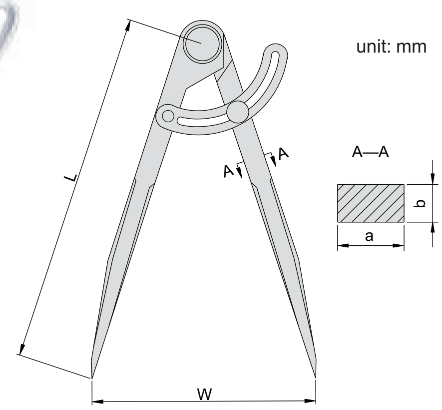


Code	Size(L)	Range(W)	Type
985-005-01	125mm	0 - 115mm	A
985-006-01	150mm	0 - 140mm	A
985-008-01	200mm	0 - 190mm	A
985-010-01	250mm	0 - 240mm	A
985-012-01	300mm	0 - 290mm	B
985-016-01	400mm	0 - 390mm	B
985-020-01	500mm	0 - 490mm	B
985-024-01	600mm	0 - 590mm	B

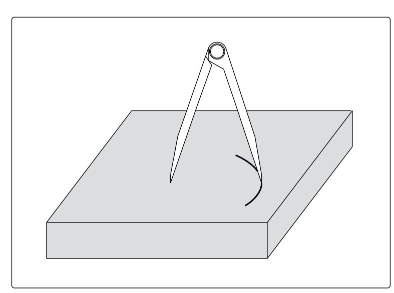
SERIES 986 DIVIDER

- Made of carbon steel
- Hardened points

986-005-01

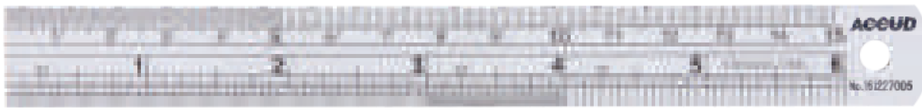


package



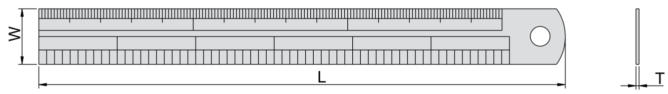
Code	Size(L)	Range(W)	a	b
986-005-01	125mm	0 - 115mm	8.5	7
986-006-01	150mm	0 - 140mm	8.5	7
986-008-01	200mm	0 - 190mm	10	7
986-010-01	250mm	0 - 240mm	11	7
986-012-01	300mm	0 - 290mm	12	7
986-016-01	400mm	0 - 390mm	12	7
986-020-01	500mm	0 - 490mm	12	7
986-024-01	600mm	0 - 590mm	12	7
986-032-01	800mm	0 - 790mm	16	11
986-040-01	1000mm	0 - 990mm	16	11

SERIES 990 STEEL RULE



990-006-11

- Graduation: 0.5mm, 1mm, 1/64", 1/32", 1/16"
- Made of stainless steel



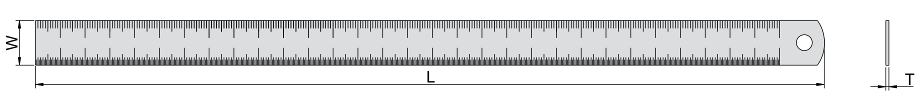
Code	Range	Accuracy	T	L	W	Remark
990-006-11	150mm/6"	±0.18mm	1mm	170mm	18mm	graduation on front and back
990-008-11	200mm/8"	±0.18mm	1mm	220mm	18mm	graduation on front and back
990-012-11	300mm/12"	±0.27mm	1mm	330mm	25mm	graduation on front and back
990-020-11	500mm/20"	±0.27mm	1mm	530mm	30mm	graduation on front and back
990-040-11	1000mm/40"	±0.45mm	1.5mm	1040mm	32mm	graduation on front and back
990-060-11	1500mm/60"	±0.63mm	1.5mm	1550mm	38mm	graduation on front
990-080-11	2000mm/80"	±0.80mm	2mm	2065mm	38mm	graduation on front

SERIES 990 STEEL RULE

front side

reverse side

990-012-11H

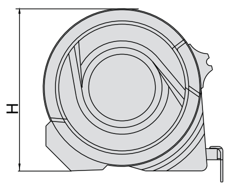


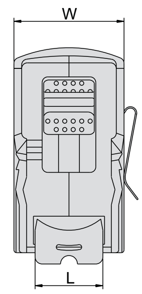
- Graduation: 0.5mm, 1mm, 1/64", 1/50", 1/32", 1/20", 1/16", 1/10"
- Matt finished
- Made of stainless steel

Code	Range	Accuracy	T	L	W
990-006-11H	150mm/6"	±0.08mm	1mm	170mm	14mm
990-012-11H	300mm/12"	±0.11mm	1mm	334mm	25mm
990-020-11H	500mm/20"	±0.14mm	1.2mm	534mm	28.5mm
990-024-11H	600mm/24"	±0.16mm	1.2mm	638mm	28.5mm
990-040-11H	1000mm/40"	±0.24mm	1.2mm	1043mm	35mm

SERIES 989 MEASURING TAPE

989-005-01





unit: mm

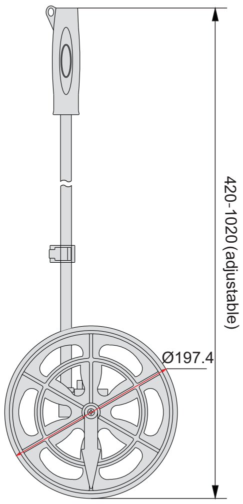
- Matt Nylon coating tape, wear resistance

Code	Range	Graduation	Width of tape L	W	H
989-003-01	0-3m	1mm	16mm	33mm	60mm
989-005-01	0-5m	1mm	19mm	33mm	68mm

988 MEASURING WHEEL

- ABS plastic frame, wear-resistant PU tire
- Three-section adjustable handle

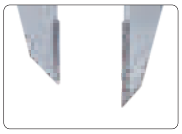
unit: mm



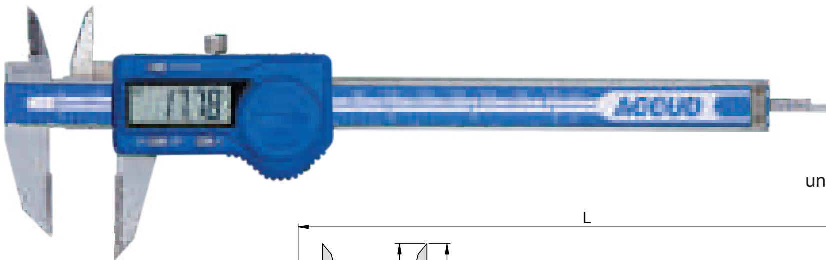
Code	Range	Resolution
988-100-11	0.1-9999.9m	0.1m

SERIES 155 DIGITAL SCRIBING CALIPER

Data output · CR2032

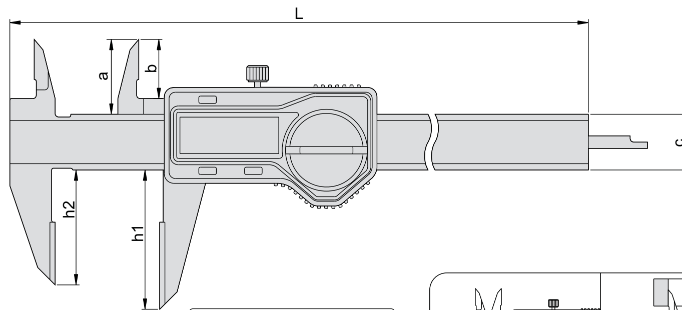


Carbide tipped jaws

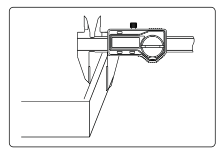


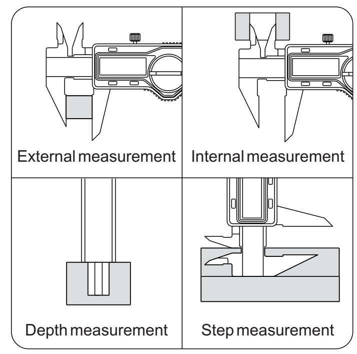
155-006-11

unit: mm



- Carbide -tipped jaws facilitate fine scribing on workpiece
- Resolution:0.01mm/0.0005"
- Automatic power on/off
- Buttons:on/off, zero,mm/inch
- Data output(cable code:100-11 or 100-12)
- Made of stainless steel



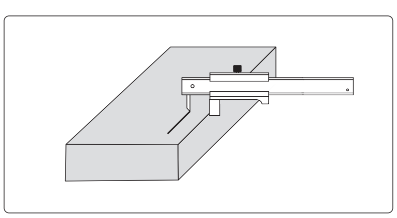


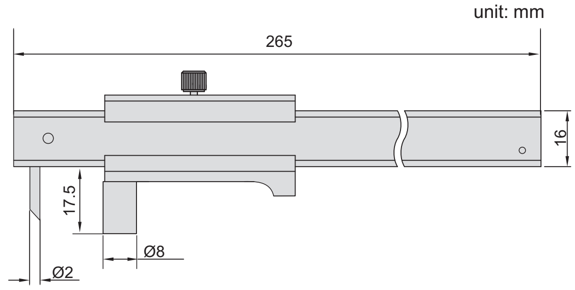
Code	Range	Accuracy	a	b	c	h1	h2	L
155-006-11	0-150mm/0-6"	±0.03mm	21	16.5	16	40	33	236
155-008-11	0-200mm/0-8"	±0.03mm	24	19.5	16	50	43	286
155-012-11	0-300mm/0-12"	±0.04mm	25	20.5	17	60	53	386

900 SCRIBING CALIPER

- Made of stainless steel
- Satin chrome plated reading surface
- Carbide scriber tip
- With accessory: carbide scriber tip

unit: mm

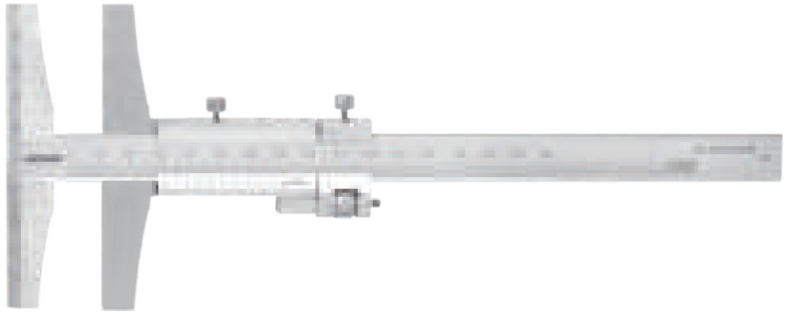


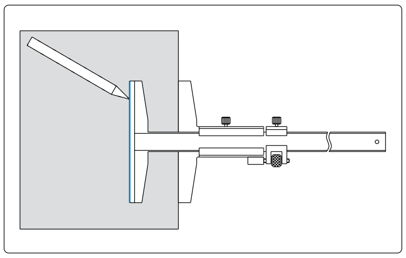


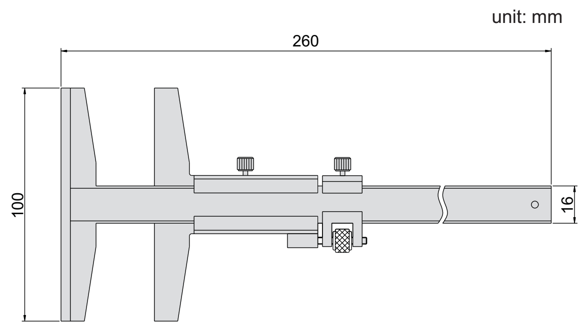
Code	Range	Graduation	Accuracy
900-008-11	0-200mm/0-8"	0.1mm,1/128"	±0.1mm

902 T-SHAPE MARKING GAUGE

- Made of stainless steel
- Satin chrome plated reading surface



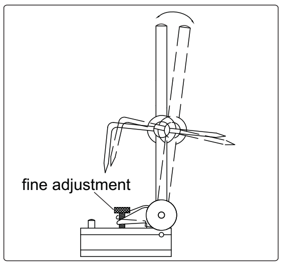


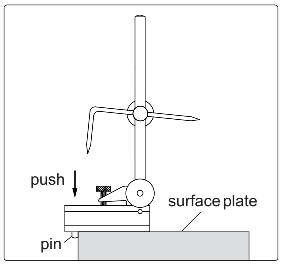


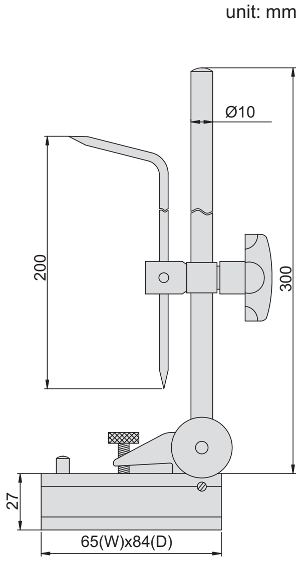
Code	Range	Graduation	Accuracy
902-006-51	0-150mm	0.05mm	±0.05mm

903 HEIGHT SCRIBER

- Grooved bottom for cylinder
- Two pins to be set against the edge of surface plate



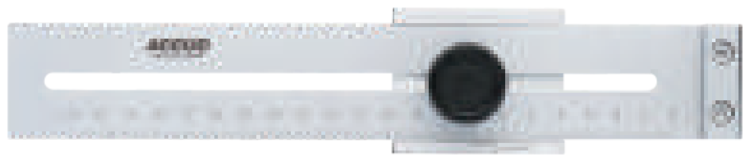




Code
903-012-11

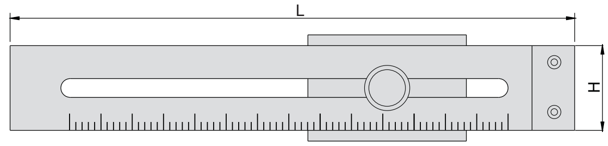
SERIES 992 MARKING GAUGE

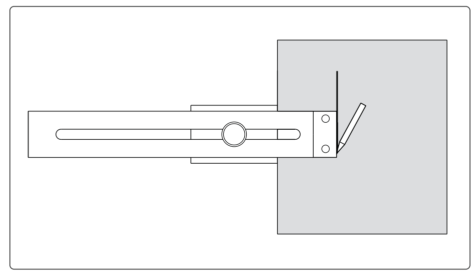
- Made of stainless steel
- Stain chrome finish



992-008-01

unit: mm

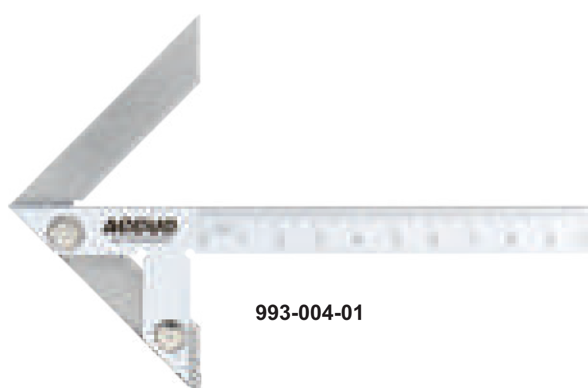




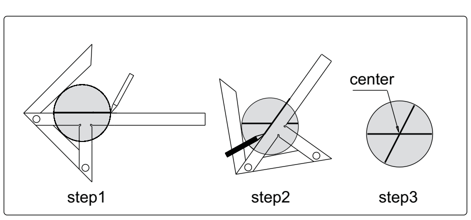
Code	Range	Accuracy	Graduation	H	L
992-008-01	0-200mm	±0.1mm	0.1mm	40mm	250mm
992-010-01	0-250mm	±0.1mm	0.1mm	40mm	300mm
992-012-01	0-300mm	±0.1mm	0.1mm	40mm	350mm

SERIES 993 CENTER MARKING GAUGE

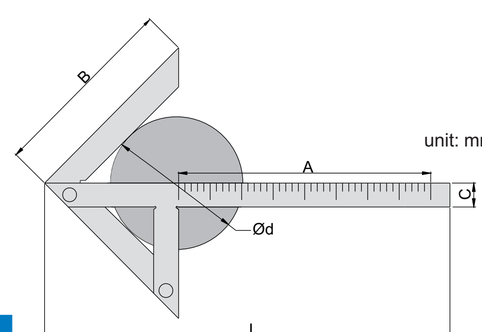
- Find the center of round plates and shafts
- Made of stainless steel
- Stain chrome plated



993-004-01



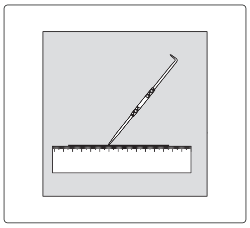
unit: mm



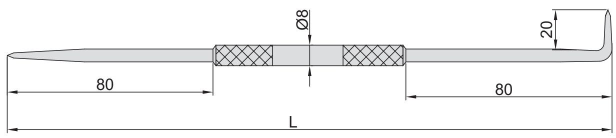
Code	Size (AxB)	Diameter(Ød)	Accuracy	C	L
993-004-01	100x70mm	4-90mm	±0.15mm	12	153
993-006-01	150x130mm	4-190mm	±0.15mm	15	245
993-008-01	200x150mm	6-220mm	±0.15mm	15	310

995 SCRIBER

- Nickel plated



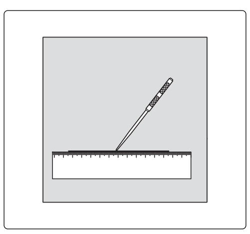
unit: mm



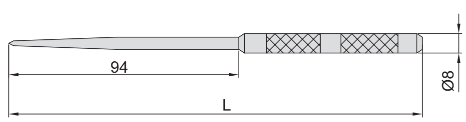
Code	Tips	L
995-009-01	hardened tips	235mm

995 SCRIBER

- Nickel plated



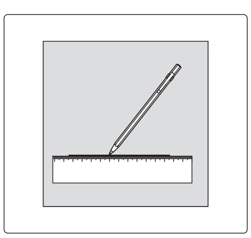
unit: mm



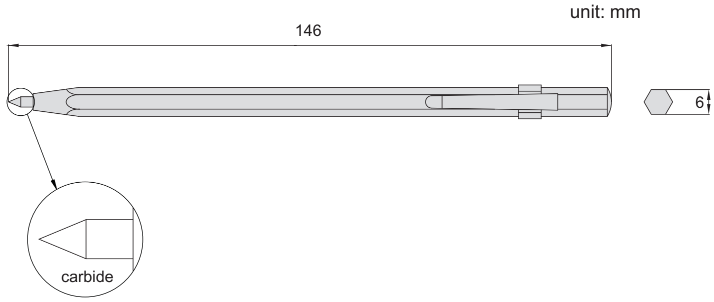
Code	Tips	L
995-007-01	hardened tips	167mm

995 SCRIBER

- Nickel plated



unit: mm



Code	Tips
995-006-11	carbide

SERIES 996 DIGITAL HORIZONTAL SCALE

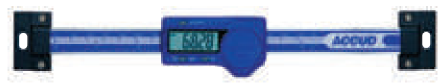
Data output
CR2032

Type A

- Resolution: 0.01mm/0.0005"
- Buttons: on/off, zero, mm/inch
- Automatic power off
- Data output(cable code:100-11 or 100-12)
- Made of stainless steel
- Supplied with bracket
- Optional accessory: SPC cable

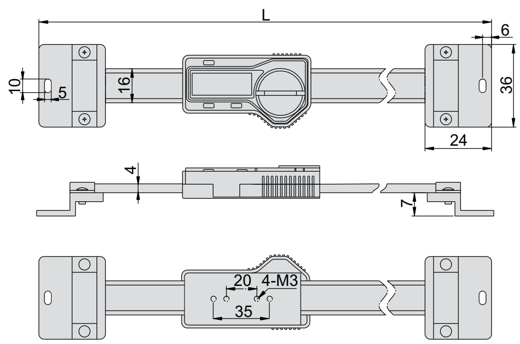
Type B

- Resolution: 0.01mm/0.0005"
- Absolute and incremental measurement
- Data output
- Made of stainless steel
- Supplied with bracket



996-006-11

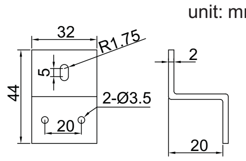
unit: mm



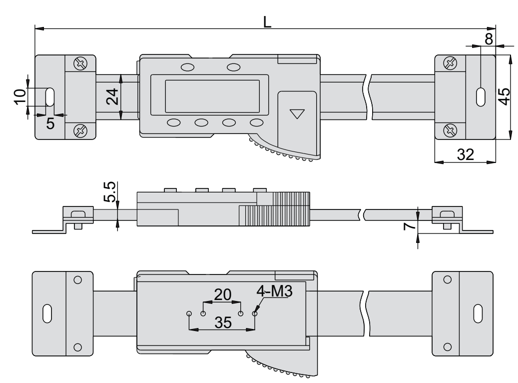
996-020-11

bracket**(included)**

unit: mm



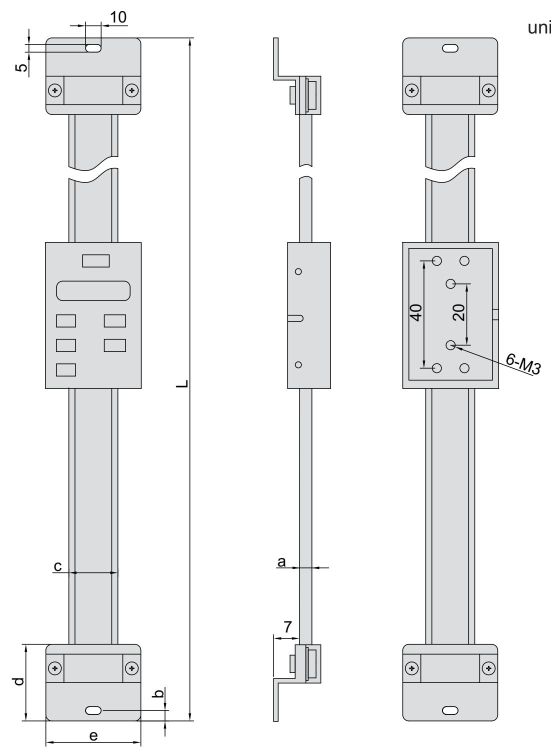
unit: mm



Code	Range	Accuracy	Type	L
996-004-11	100mm	±0.03mm	A	209mm
996-006-11	150mm	±0.03mm	A	259mm
996-008-11	200mm	±0.03mm	A	310mm
996-012-11	300mm	±0.04mm	A	444mm
996-020-11	500mm	±0.05mm	B	682mm
996-024-11	600mm	±0.08mm	B	790mm
996-032-11	800mm	±0.10mm	B	990mm
996-040-11	1000mm	±0.10mm	B	1240mm

SERIES 997 DIGITAL VERTICAL SCALE

Data output
LR44



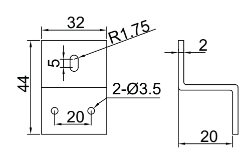
unit: mm

997-012-11

- Resolution: 0.01mm/0.0005"
- Data output
- Button: on/off, zero, mm/inch, ABS, data preset
- Made of stainless steel
- Supplied with bracket

bracket**(included)**

unit: mm

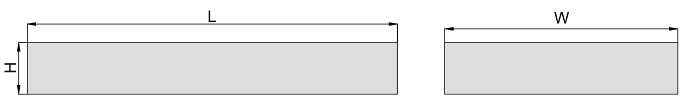


Code	Range	Accuracy	a	b	c	d	e	L
997-004-11	100mm	±0.03mm	4	6	20	40	24	209mm
997-006-11	150mm	±0.03mm	4	6	20	40	24	259mm
997-008-11	200mm	±0.03mm	4	6	20	40	24	310mm
997-012-11	300mm	±0.04mm	4	6	20	40	24	444mm
997-020-11	500mm	±0.05mm	5.5	8	24	40	32	682mm
997-024-11	600mm	±0.08mm	5.5	8	24	51	32	790mm
997-032-11	800mm	±0.10mm	5.5	8	24	51	32	990mm
997-040-11	1000mm	±0.10mm	5.5	8	24	51	40	1240mm

SERIES 611 GRANITE SURFACE PLATE

- Made of fine-grained granite
- With calibration certificate
- Customized size can be ordered

611-032-00



Grade 00

Code	Size(LxWxH)	Flatness	Weight(Kg)
611-032-00	300x200x60mm	2.7μm	11
611-042-00	400x250x60mm	2.9μm	18
611-044-00	400x400x60mm	3.1μm	29
611-053-00	500x315x70mm	3.2μm	33
611-064-00	630x400x80mm	3.5μm	60
611-066-00	630x630x100mm	3.8μm	119
611-085-00	800x500x100mm	3.9μm	120
611-106-00	1000x630x140mm	4.4μm	265
611-101-00	1000x1000x150mm	4.8μm	450
611-121-00	1200x800x160mm	4.9μm	461
611-161-00	1600x1000x180mm	5.8μm	864
611-201-00	2000x1000x220mm	6.5μm	1320
611-215-00	2000x1500x250mm	7.0μm	2250

Grade 0

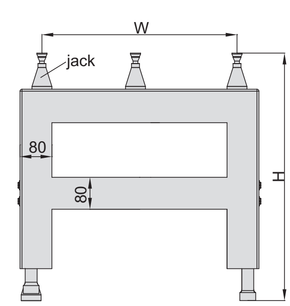
Code	Size(LxWxH)	Flatness	Weight(Kg)
611-032-10	300x200x60mm	5.4μm	11
611-042-10	400x250x60mm	5.9μm	18
611-044-10	400x400x60mm	6.3μm	29
611-053-10	500x315x70mm	6.4μm	33
611-064-10	630x400x80mm	7.0μm	60
611-066-10	630x630x100mm	7.6μm	119
611-085-10	800x500x100mm	7.8μm	120
611-106-10	1000x630x140mm	8.7μm	265
611-101-10	1000x1000x150mm	9.7μm	450
611-121-10	1200x800x160mm	9.8μm	461
611-161-10	1600x1000x180mm	11.5μm	864
611-201-10	2000x1000x220mm	12.9μm	1320
611-215-10	2000x1500x250mm	14.0μm	2250

SERIES 621 STAND FOR GRANITE SURFACE PLATE

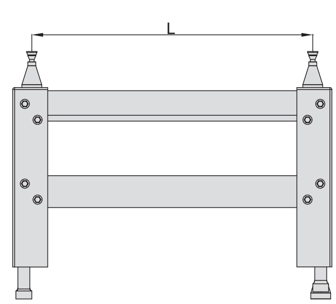
- For medium size granite surface plates
- Adjusting range of jacks: 10mm
- One foot on the bottom is adjustable
- The height can be made under customer requirement

621-064-01

unit: mm

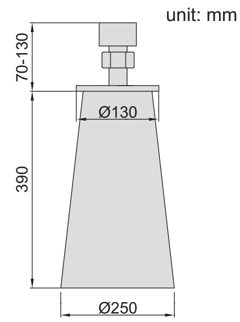


Code	L	W	H	For granite surface plate
621-064-01	352	224	700-710	630x400x80mm
621-066-01	352	352	700-710	630x630x100mm
621-085-01	448	280	700-710	800x500x100mm
621-106-01	560	352	685-695	1000x630x140mm
621-107-01	560	416	685-695	1000x750x150mm
621-101-01	560	560	685-695	1000x1000x150mm
621-121-01	672	448	685-695	1200x800x160mm
621-161-01	896	560	585-595	1600x1000x180mm



625 JACK SET FOR GRANITE SURFACE PLATE

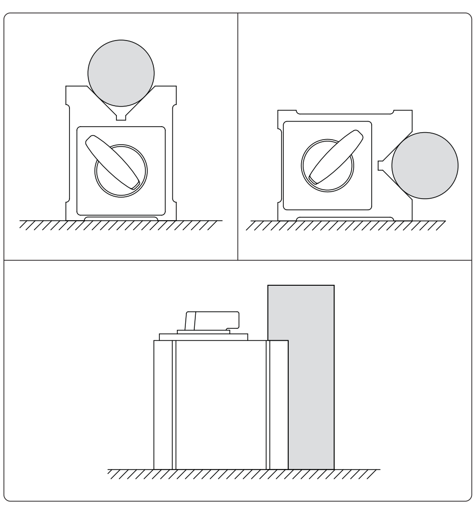
- 5 jacks per set
- Adjustable height
- For large granite surface plates:
  2000x1000mm
  2000x1500mm
  2500x1500mm
  3000x2000mm

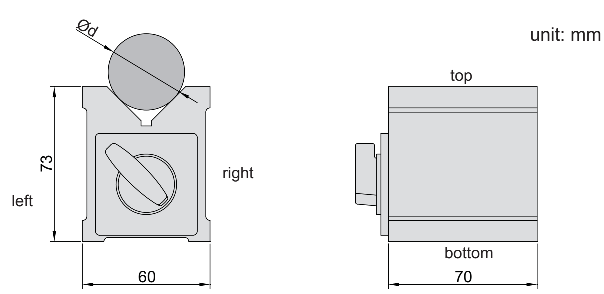


Code
625-000-00

633 MAGNETIC V-BLOCK

- Hold cylindrical workpiece for inspection and machining



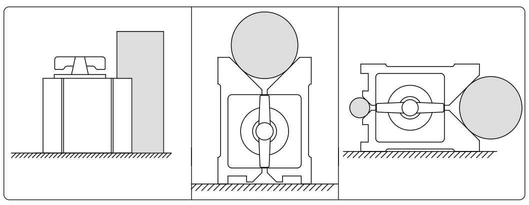


Code	For shaft range(Ød)	Magnetic force	Top and bottom, left and right parallelism	V-grooves and back side squareness
633-044-01	6-44mm	56kgf	10μm	10μm

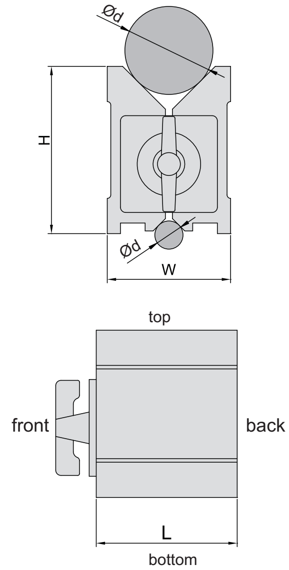
ACCUD

SERIES 634 MAGNETIC V-BLOCK

- Hold cylindrical workpiece for inspection and machining
- Top groove for large shafts
- Bottom grooves for small shafts



634-067-01

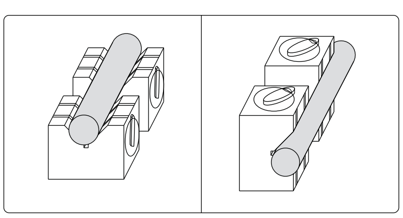


Code	Size(LxWxH)	For shaft range(Ød)	Magnetic force	V-grooves and back side squareness	Top side and bottom side parallelism
634-067-01	80x70x95mm	6-67mm	64kgf	10μm	10μm
634-067-02	100x70x95mm	6-67mm	80kgf	10μm	10μm
634-067-03	120x70x95mm	6-67mm	96kgf	10μm	10μm

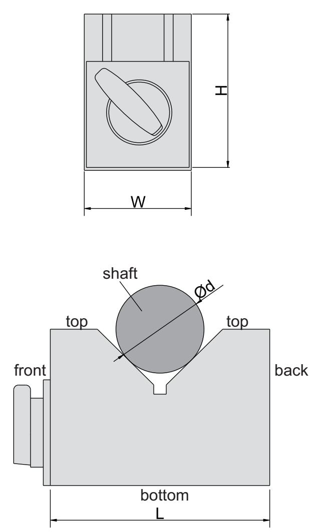
V-BLOCK

SERIES 635 MAGNETIC V-BLOCK SET

- Hold cylindrical workpieces for inspection, not suitable for machining due to weak magnetic force
- Two V-blocks per set



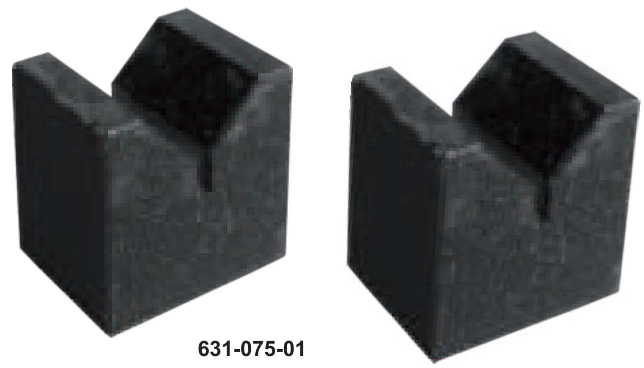
635-150-01



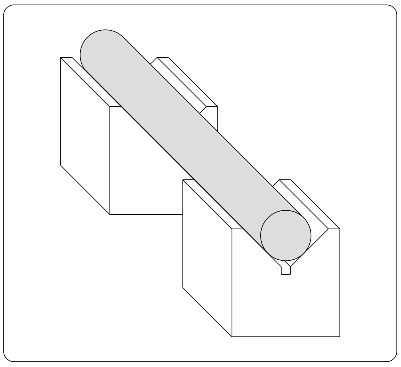
Code	Size(LxWxH)	Range of shafts (Ød)	Magnetic force	Parallelism of V groove to bottom and back sides	Height difference of a matched pair
635-070-01	70x40x50mm	6-46mm	8kgf	10μm	10μm
635-150-01	150x50x100mm	6-125mm	14kgf	10μm	10μm

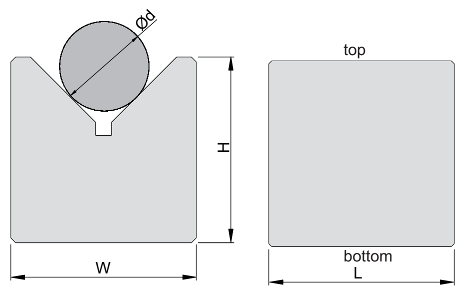
SERIES 631 GRANITE V-BLOCK SET

- Supplied a pair, for holding long cylindrical workpiece



631-075-01

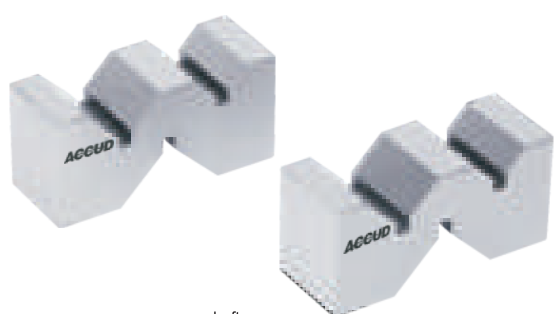


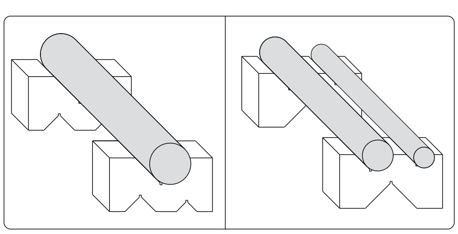


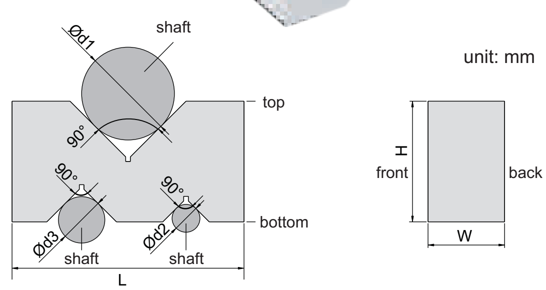
Code	Size(LxWxH)	For shaft range(Ød)	Parallelism between top and bottom, left and right	Height difference between a pair
631-075-01	50x70x70mm	6-75mm	5μm	5μm
631-099-01	50x100x70mm	6-99mm	5μm	5μm

SERIES 632 V-BLOCK SET

- Two V blocks per set
- Made of hardened tool steel



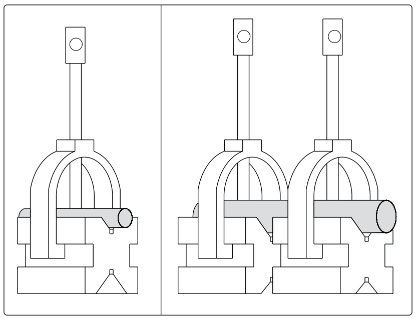




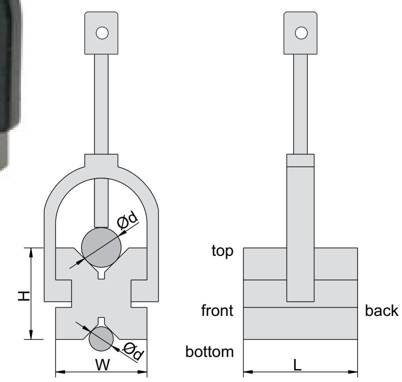
Code	Size (LxWxH)	Range of shafts(Ød1)	Range of shafts(Ød2)	Range of shafts(Ød3)	Parallelism of V grooves to top and bottom sides	Squareness of V grooves to front and back sides	Height difference of a matched pair
632-002-01	50x19x24mm	3-32mm	3-16mm	3-22mm	5μm	5μm	5μm
632-003-01	75x24x35mm	3-50mm	3-20mm	3-32mm	5μm	5μm	5μm
632-004-01	100x33x52mm	3-68mm	3-26mm	3-40mm	5μm	5μm	5μm
632-006-01	150x50x80mm	6-100mm	5-40mm	5-60mm	5μm	5μm	5μm

SERIES 636 V-BLOCK SET

- Hold cylindrical workpieces for inspection and machining
- Two V-blocks per set
- V groove on the top for large shafts
- V groove on the bottom for small shafts



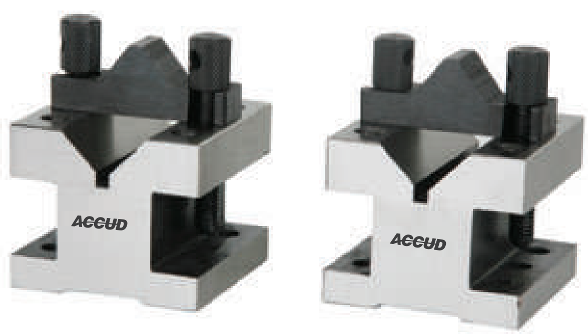
636-045-01



Code	Size(LxWxH)	For shaft range(Ød)	V grooves to top and bottom sides parallelism	V grooves to front and back sides squareness	Height difference of a matched pair
636-045-01	45x41x35mm	5 - 40mm	5μm	5μm	5μm
636-070-01	70x63x44mm	7 - 60mm	5μm	5μm	5μm
636-125-01	125x90x70mm	7 - 90mm	5μm	5μm	5μm

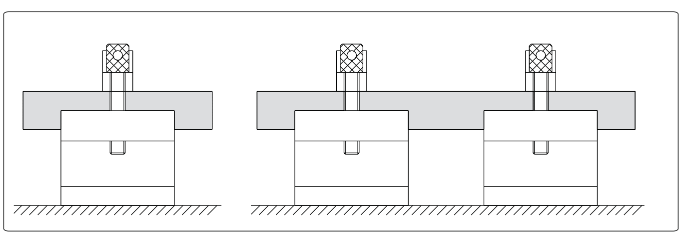
SERIES 637 V-BLOCK SET

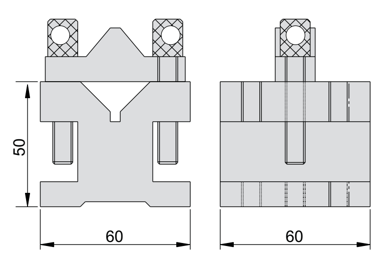
- Hold cylindrical workpieces for inspection and machining
- Two V-blocks per set
- V groove on the top for large shafts



637-035-01

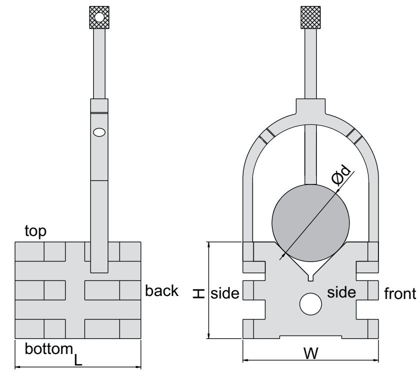
unit: mm



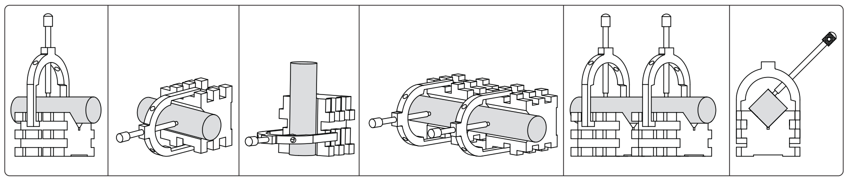


Code	Size(LxWxH)	For shaft range(Ød)	V grooves to top and bottom sides parallelism	V grooves to front and back sides squareness	Height difference of a matched pair
637-035-01	35x35x30mm	3 - 16mm	5μm	5μm	5μm
637-060-01	60x60x50mm	5 - 34mm	5μm	5μm	5μm
637-105-01	105x105x78mm	8 - 66mm	5μm	5μm	5μm

638 V-BLOCK SET



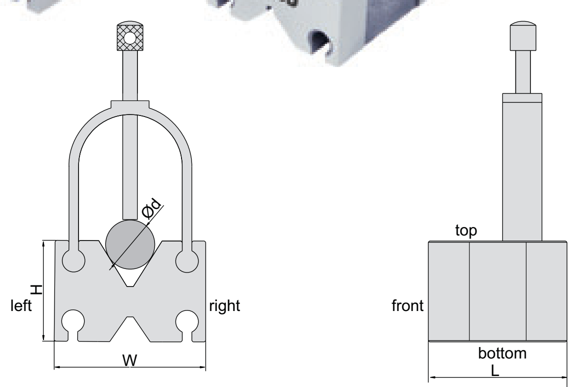
- Hold cylindrical or rectangular workpieces for inspection and machining
- Two V-blocks per set
- Hardened to HRC60±2
- Applicable for cylinder with diameter (Ød): 5 - 50mm
- Applicable for rectangular workpieces with thickness: ≤35mm



Code	Size (LxWxH)	Parallelism of V groove to top and bottom sides	Squareness of V groove to front and back sides	Height difference of a matched pair
638-070-01	60x70x50mm	8μm	8μm	8μm

640 V-BLOCK SET

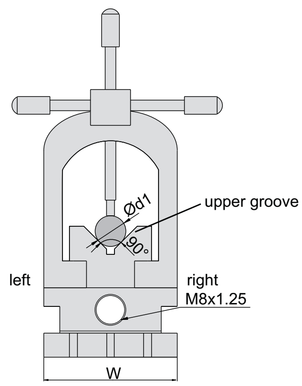
- Hold cylindrical workpieces for inspection and machining
- Two V-blocks per set
- Side lie-down use is possible
- Hardened to HRC60±2
- V groove on the top for large shafts
- V groove on the bottom for small shafts

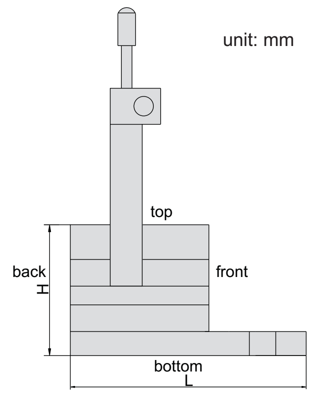


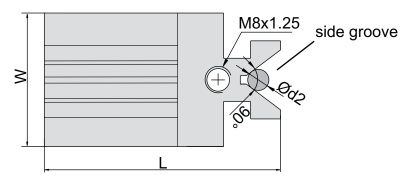
Code	Size (LxWxH)	Range of shafts (Ød)	Parallelism of both V grooves to top, bottom, left, right sides	Squareness of both V grooves to front and back sides	Height difference of a matched pair
640-001-01	65x70x45mm	4 -35mm	5μm	5μm	5μm

639 V-BLOCK

- Hold cylindrical workpieces for inspection and machining
- Hardened to HRC60±2



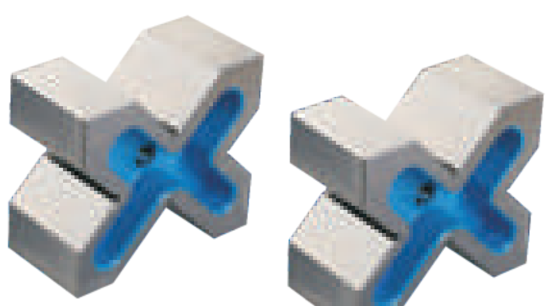




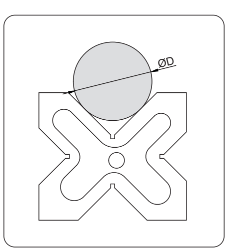
Code	Size (LxWxH)	Range of shafts (Ød1 and Ød2)	Parallelism of upper groove to bottom, left and right sides	Squareness of upper groove to back side	Parallelism of side groove to back side
639-090-01	90x48x48mm	5-33mm	5μm	5μm	5μm

SERIES 630 V-BLOCK SETS

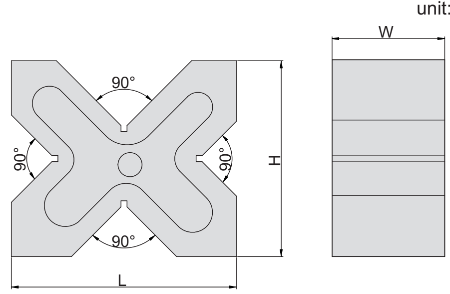
- For positioning cylindrical workpieces
- Two V-blocks per set
- Each V-block has four 90° V-grooves
- Hardness HB 170-241



630-006-11



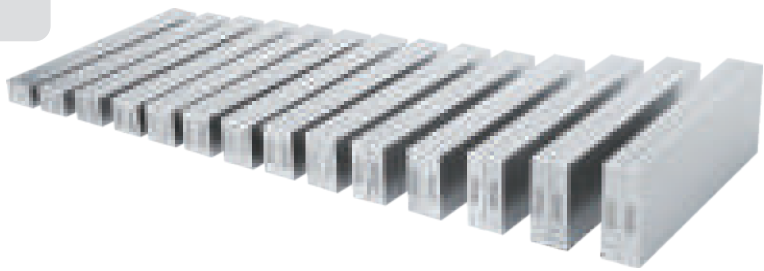
unit: mm



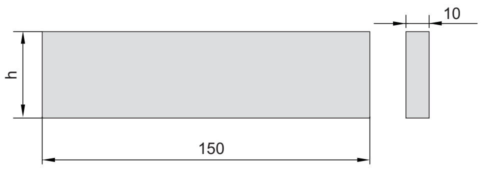
Code	Size(LxHxW)	Range of shafts(Ød)	Parallelism of four grooves to all sides	Height difference of a matched pair
630-006-11	150×130×75mm	8-120mm	15μm	20μm
630-008-11	200×170×90mm	12-180mm	15μm	20μm

641 PARALLEL SET

- Parallelism between top and bottom: 5μm
- Height difference of a matched pair: 5μm
- Hardened to HRC55-60



unit: mm



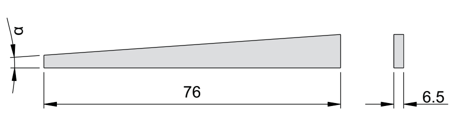
Code	Parallels per set	Length	Thickness	Height(h)
641-014-01	14pairs	150mm	10mm	14, 16, 18, 20, 22, 24, 26, 28, 30, 32, 35, 40, 45, 50mm

SERIES 571 ANGLE GAUGE BLOCK SET

- For angle set-up in tooling, production and inspection
- Hardness HRC55

571-010-02

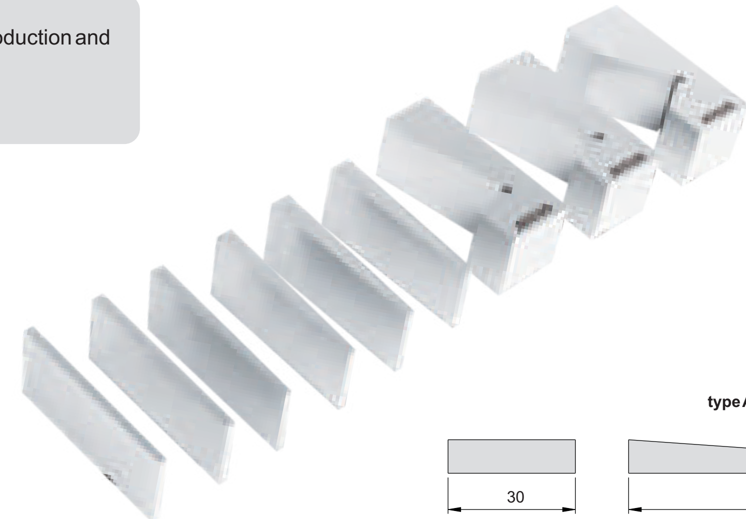
unit: mm

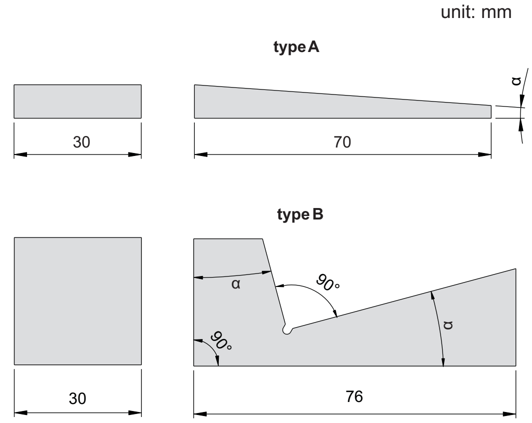


Code	Blocks per set	Accuracy	Sharp	Angle
571-010-02	10	±20"	triangle	1°, 2°, 3°, 4°, 5°, 10°, 15°, 20°, 25°, 30°
571-012-01	12	±20"	triangle	1/4°, 1/2°, 1°, 2°, 3°, 4°, 5°, 10°, 15°, 20°, 25°, 30°

646 UNIVERSAL ANGLE PLATE SET

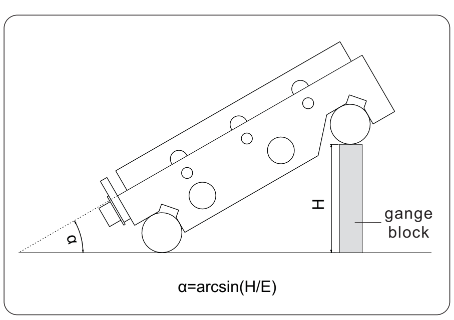
- For angle set-up in tooling, production and inspection
- Hardness HRC55



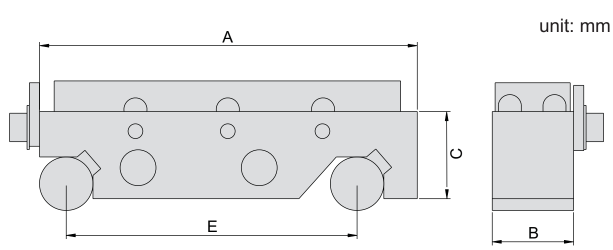


Code	Quantity	Angle α	Type	Accuracy
646-009-01	9pcs	½°, 1°, 2°, 3°, 4°, 5°	type A	±1'
		10°, 15°, 30°	type B	

SERIES 651 SINE BAR



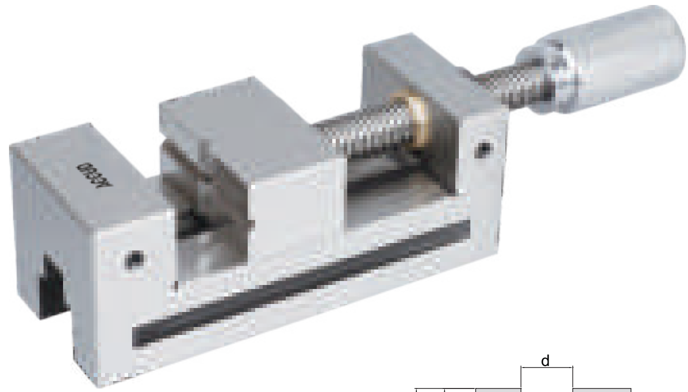
651-005-01



Code	Roller distance (E)	Table size(AxB)	Accuracy of α at 30°	C
651-005-01	100mm	130x25mm	±8"	25mm
651-005-02	100mm	130x83mm	±16"	30mm
651-010-01	200mm	250x40mm	±8"	40mm
651-010-02	200mm	250x85mm	±16"	40mm

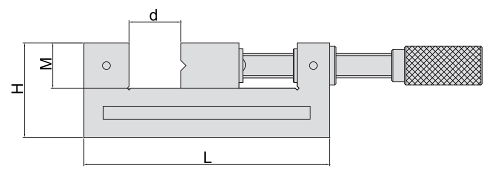
SERIES 652 PRECISION VISE

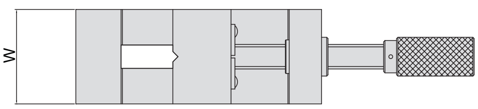
- Parallelism: 5μm/100mm
- Squareness: 5μm/100mm
- Made of alloy steel
- Hardness HRC56-58



652-120-01

unit: mm



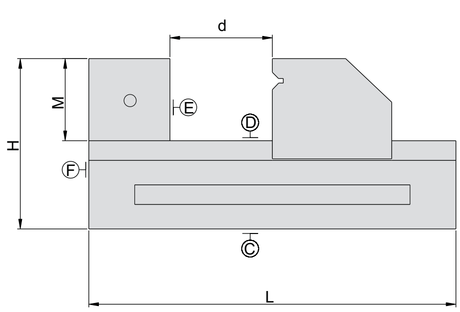


Code	Jaw opening(d)	Jaw width(W)	L	H	M
652-073-01	73mm	63mm	176mm	63mm	30mm
652-076-01	76mm	73mm	190mm	73mm	35mm
652-120-01	120mm	88mm	255mm	82mm	40mm

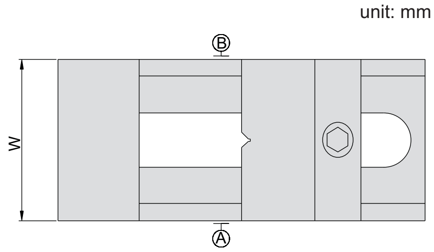
SERIES 653 PRECISION VISE

- Made of hardened alloy steel
- Parallelism and squareness between A, B, C, D, E and F: 5μm/100mm
- Hardness HRC56-58

653-003-01



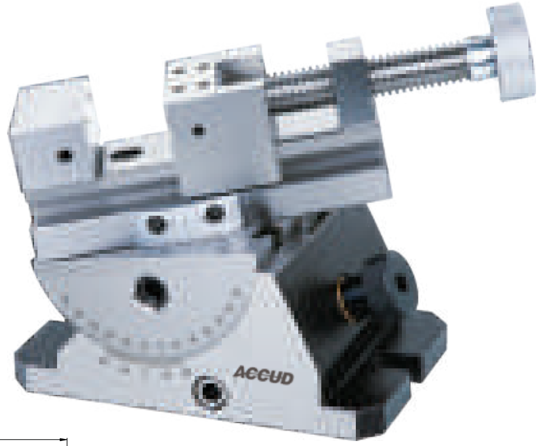
unit: mm

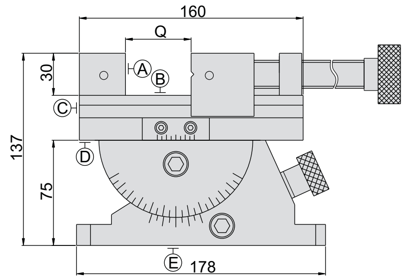


Code	Jaw opening(d)	Jaw width(W)	L	H	M
653-003-01	80mm	50mm	150mm	53mm	25mm
653-005-01	100mm	70mm	190mm	70mm	35mm

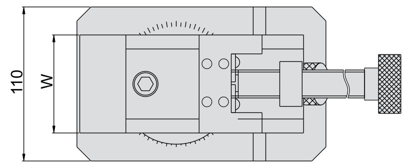
656 PRECISION UNIVERSAL VISE

- Horizontal rotary:
  range 360°, graduation 0.05°
  Vertical incline: range 45°, graduation 0.05°
- With vertical incline adjust knob
- Parallelism and squareness between A, B, C and D: 5μm/100mm, parallelism between D and E at 0°: 10μm/100mm
- Made of tool steel
- Hardness HRC56-58





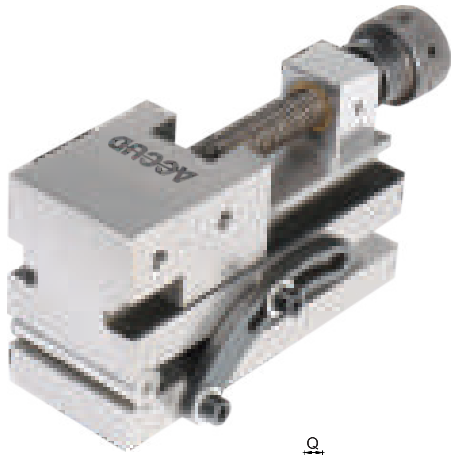
unit: mm



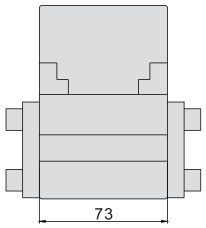
Code	Jaw opening(Q)	Jaw width(W)
656-080-01	0-80mm	70mm

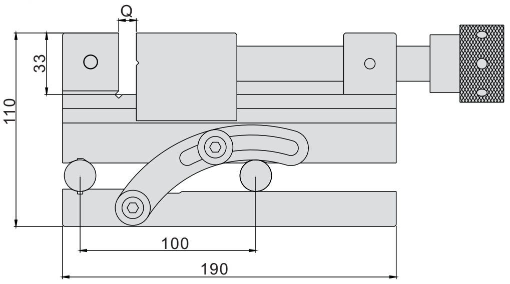
657 PRECISION SINE VISE

- Parallelism: 3μm/100mm
- Squareness: 5μm/100mm
- Accuracy of angle: ±20"
- Made of SKS tool steel, subzero treatment
- Hardness HRC58-60



unit: mm



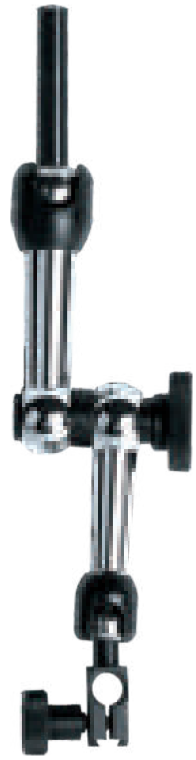


Code	Jaw opening (Q)	Jaw width	Adjustable angle
657-090-01	0-90mm	73mm	0-45°

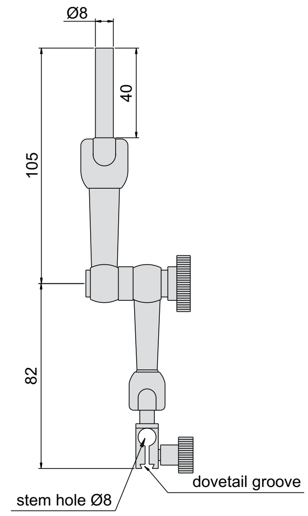
685 DIAL TEST INDICATOR CENTERING HOLDER

- Center cylinders or holes on machine tools
- Can be used with dial test indicators

Application



unit: mm

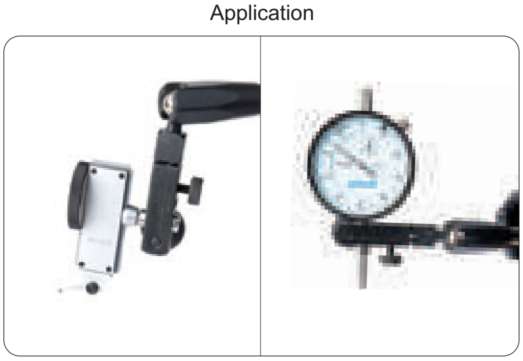


Code
685-040-01

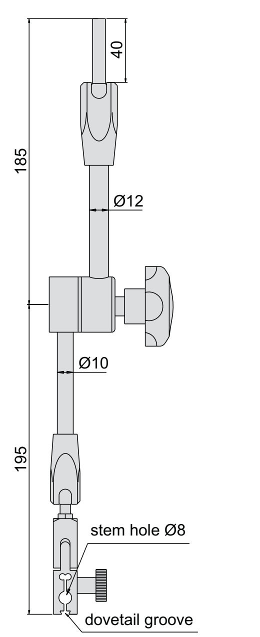
686 INDICATOR CENTERING HOLDER

- Center cylinders or holes on machine tools
- Can be used with dial test indicators or dial indicators

Application



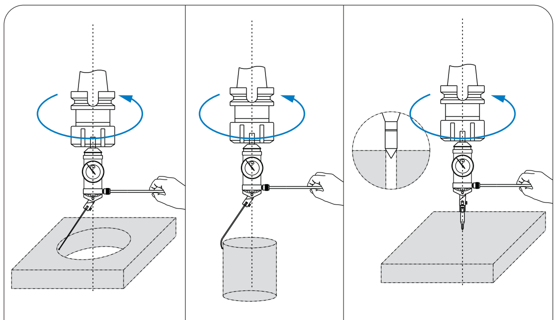
unit: mm

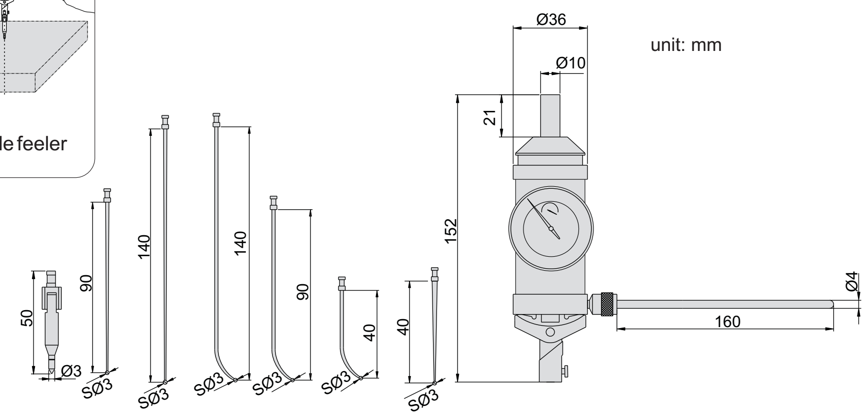


Code
686-080-01

297 CENTERING INDICATOR

- For quick and accurate centering in boring and milling set-up
- Jeweled bearing
- Supplied with 7 type feelers

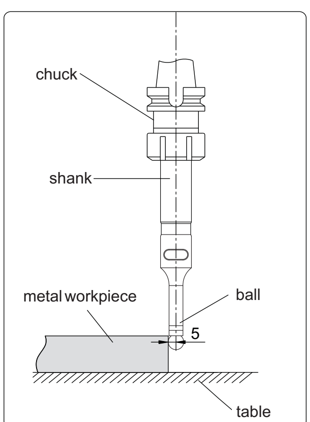


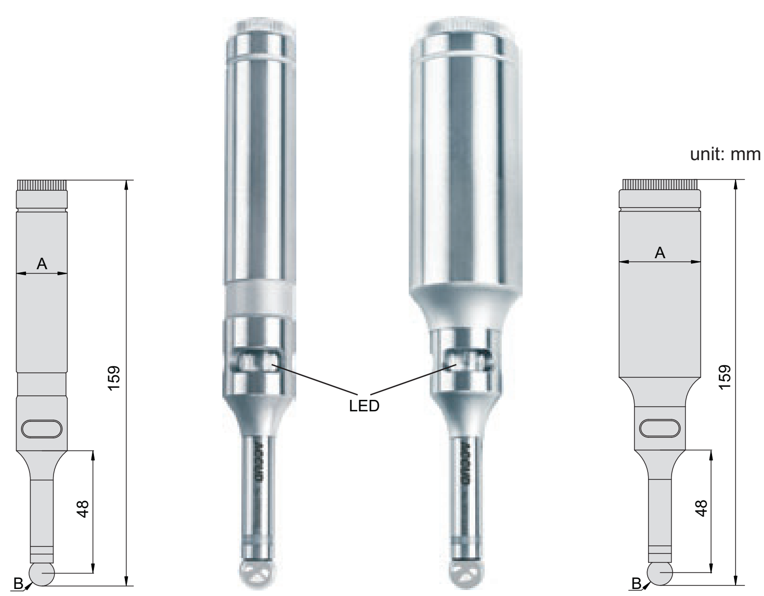


Code
297-003-11

SERIES 692 ELECTRONIC EDGE FINDER

- The LED will be light with alarm when the ballcontacts the workpiece
- Not suitable for rotating use
- Hardened shank and contact point
- Battery:23A, 12V





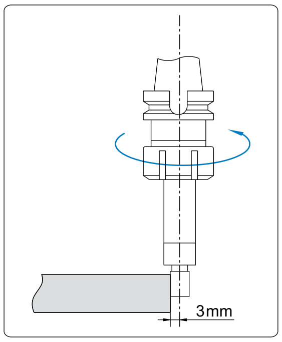
692-010-03N 692-010-32

Code	Shank(A)	Contact point (B)	Accuracy
692-010-03N	Ø20mm	SØ10mm	5μm
692-010-32	Ø32mm	SØ10mm	5μm

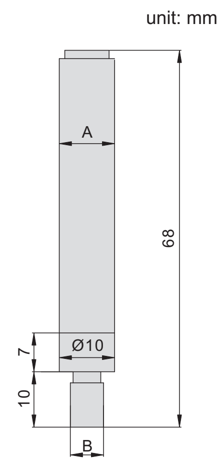
SERIES 693 NON-MAGNETIC EDGE FINDER

Non-magnetic

- Non-magnetic
- TIN coating, hardness HV2300, extremely wear resistance
- Suitable for machine speed 400~600rpm



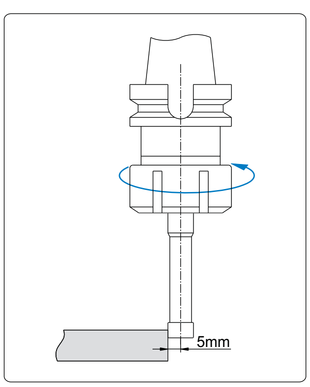
693-010-01N 693-010-31

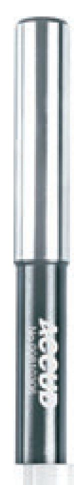


Code	Shank(A)	Contact suface(B)	Accuracy	Titanium plated
693-010-01N	Ø10mm	Ø6mm	5μm	without
693-010-31	Ø10mm	Ø6mm	5μm	with

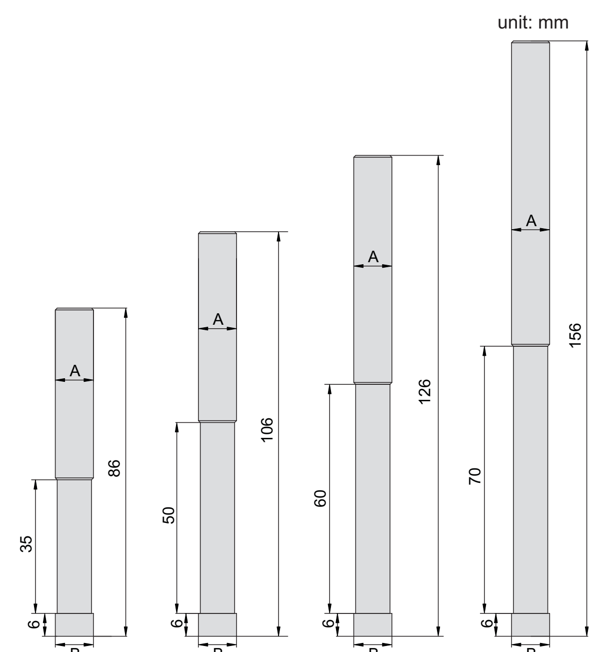
SERIES 691 CERAMIC EDGE FINDER

- Ceramic contact point, non magnetic
- Hardened shank
- Suitable for machine speed: 400-600rpm





691-010-01N



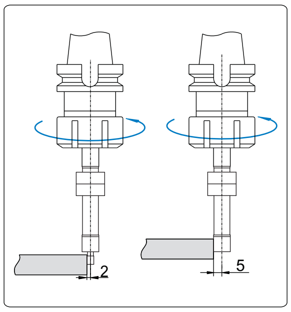
691-010-01N 691-010-02 691-010-03 691-010-04

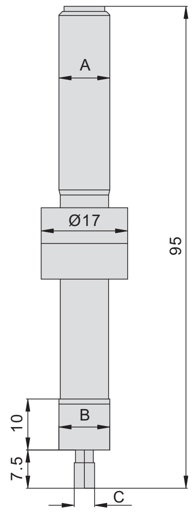
Code	Shank(A)	Contact point (B)	Accuracy
691-010-01N	Ø10mm	Ø10mm	5μm
691-010-02	Ø10mm	Ø10mm	5μm
691-010-03	Ø10mm	Ø10mm	5μm
691-010-04	Ø10mm	Ø10mm	5μm

SERIES 691 CERAMIC EDGE FINDER

Non-magnetic

- Non-magnetic
- CrN coating, hardness HV2000, extremely wear resistance
- Suitable for machine speed 400~600rpm

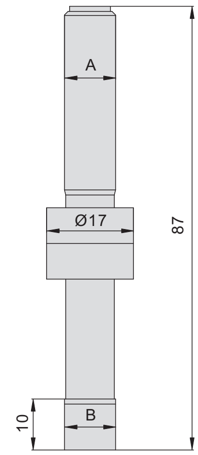




691-017-01

691-017-11

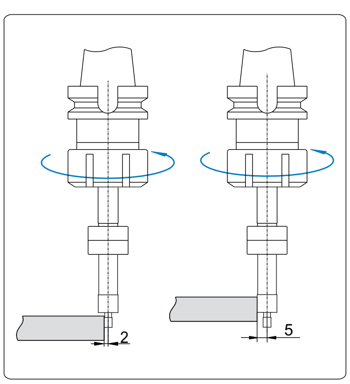
unit: mm

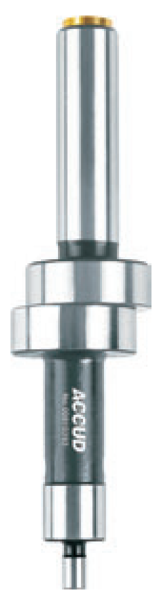


Code	Shank(A)	Contact point(B)	Contact point(C)	Accuracy
691-017-01	Ø10mm	Ø10mm	Ø4mm	5μm
691-017-11	Ø10mm	Ø10mm	-	5μm

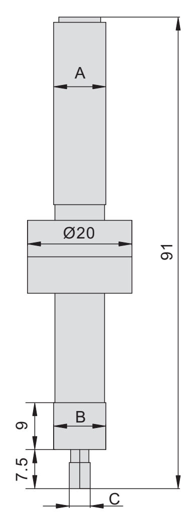
694 EDGE FINDER

- Hardened shank and contact point
- Suitable for machine speed 400~600rpm





unit: mm



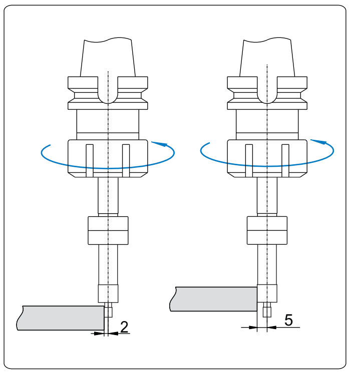
Code	Shank(A)	Contact point(B)	Contact point(C)	Accuracy
694-020-01N	Ø10mm	Ø10mm	Ø4mm	5μm

EDGE FINDER
ZERO SET

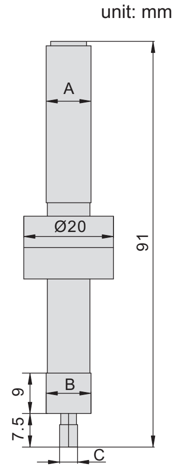
SERIES 694 NON-MAGNETIC EDGE FINDER

Non-magnetic

- Non-magnetic
- TIALN coating, hardness HV3500; TIN coating, hardness Hv2300, extremely wear resistance
- Suitable for machine speed 400~600rpm



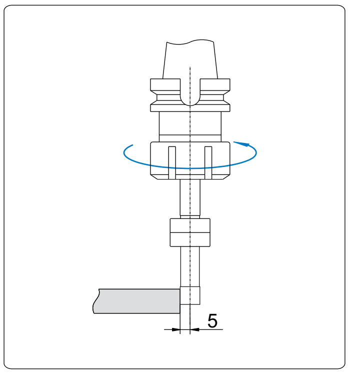
694-020-02 694-020-03

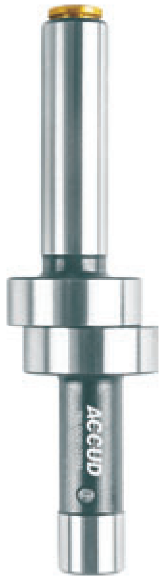


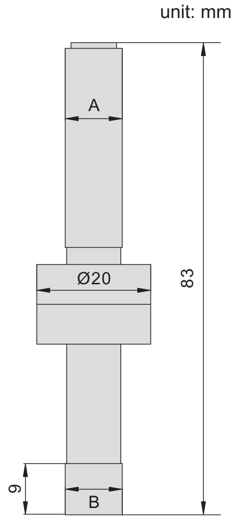
Code	Shank(A)	Contact point(B)	Contact point(C)	Accuracy
694-020-02	Ø10mm	Ø10mm	Ø4mm	5μm
694-020-03	Ø10mm	Ø10mm	Ø4mm	5μm

694 EDGE FINDER

- Hardened shank and contact point
- Suitable for machine speed 400~600rpm



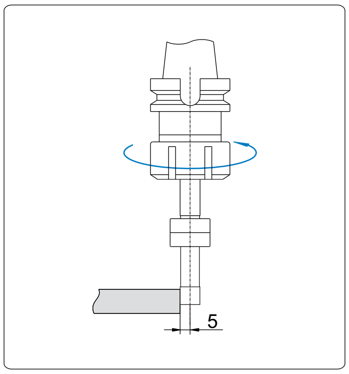




Code	Shank(A)	Contact point(B)	Accuracy
694-020-11	Ø10mm	Ø10mm	5μm

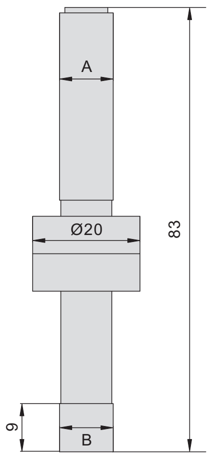
SERIES 694 NON-MAGNETIC EDGE FINDER

- Non-magnetic
- TIALN coating, hardness HV3500; TIN coating, hardness HV2300, extremely wear resistance
- Suitable for machine speed 400~600rpm



694-020-12 694-020-13

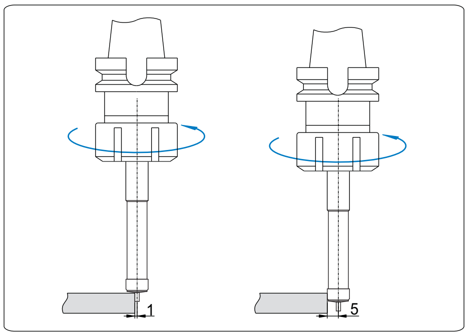
unit: mm



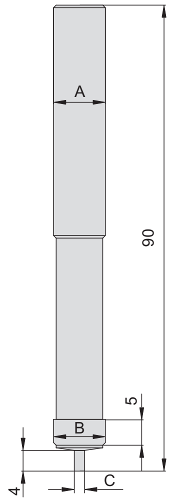
Code	Shank(A)	Contact point(B)	Accuracy
694-020-12	Ø10mm	Ø10mm	5µm
694-020-13	Ø10mm	Ø10mm	5µm

689 NON-MAGNETIC EDGE FINDER

- Non-magnetic
- TIN coating, hardness HV2300, extremely wear resistance
- Suitable for machine speed 400~600rpm



unit: mm

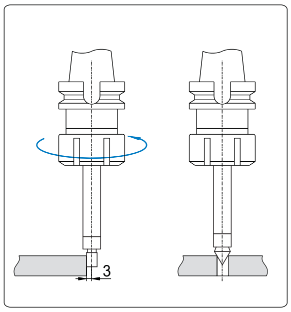


Code	Shank(A)	Contact point(B)	Contact point(C)	Accuracy
689-010-02	Ø10mm	Ø10mm	Ø2mm	5µm

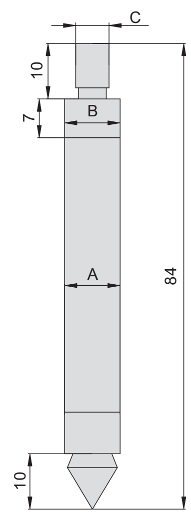
690 NON-MAGNETIC EDGE FINDER (DOUBLE HEAD)

Non-magnetic

- Non-magnetic
- TIN coating, hardness HV2300, extremely wear resistance
- Suitable for machine speed 400~600rpm
- Find edge or hole center



unit: mm

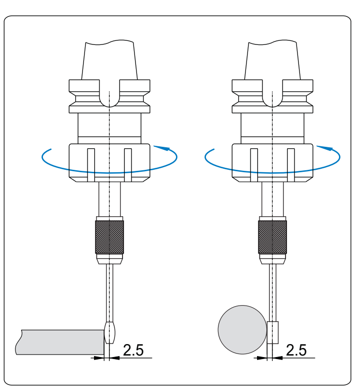


Code	Shank(A)	Contact point(B)	Contact point(C)	Accuracy
690-010-01	Ø10mm	Ø10mm	Ø6mm	5μm

SERIES 688 EDGE FINDER (WITH ROTARY HEAD)

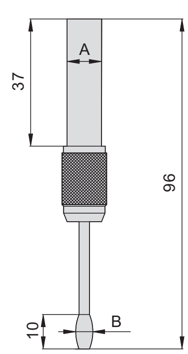
Non-magnetic

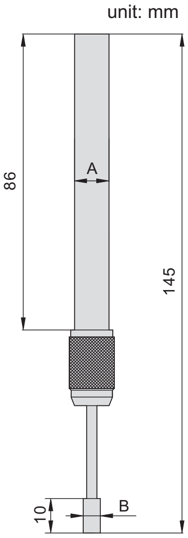
- Non-magnetic
- TIN coating, hardness HV2300, extremely wear resistance
- Suitable for machine speed 500~2000rpm

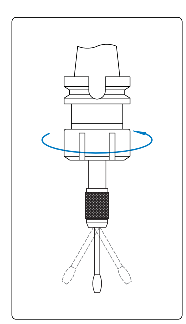


688-010-01

unit: mm







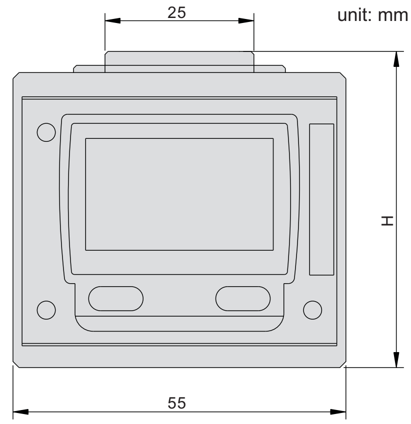
Code	Shank(A)	Contact point(B)	Accuracy	Application
688-010-01	Ø10mm	Ø5mm	5μm	flat surface
688-010-12	Ø10mm	Ø5mm	5μm	arc surface

697 DIGITAL ZERO SETTER

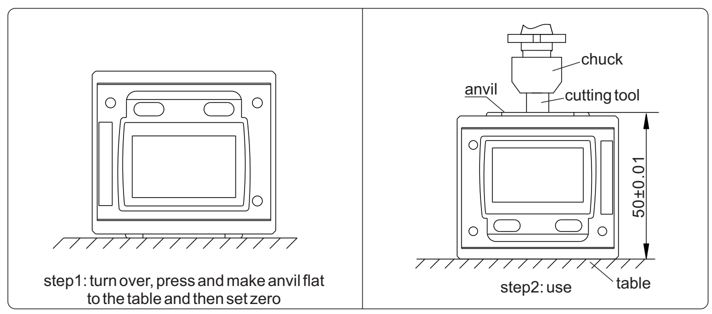
IP65 CR2032

- IP65 protection level
- Magnetic base
- With backlight, will turn on automatically when close to zero (±0.002mm)
- Turn off automatically

unit: mm



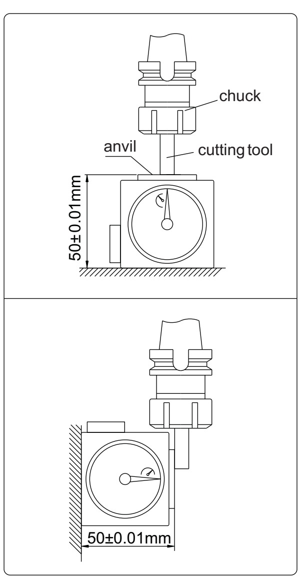
Application



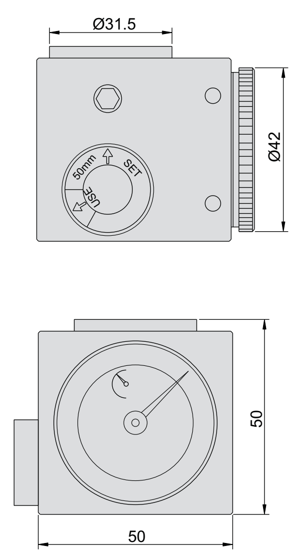
Code	Accuracy
697-050-01	±10μm

695 ZERO SET

- Magnetic base



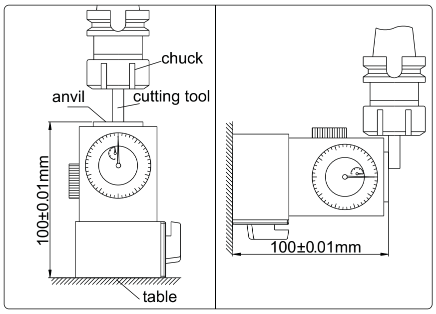
unit: mm

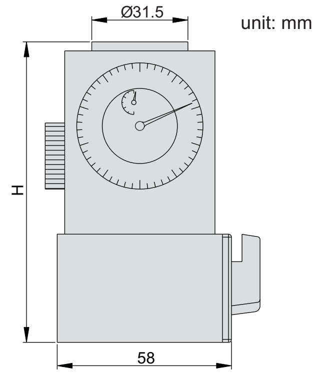


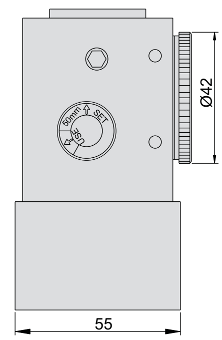
Code	Accuracy
695-050-01	±10μm

696 ZERO SET

- Magnetic base with on/off switch







Code	Height (H)	Accuracy	Force
696-100-01	100mm	±10μm	9N

SERIES 280 2-PIECE MEASURING TOOLS SET

280-000-02

Package

Code	Include
280-000-02	10mm dial indicator (222-010-11) Magnetic stand (281-060-01)
280-001-02	1 inch dial indicator (225-025-11) Magnetic stand (281-060-01)

280 2-PIECE MEASURING TOOLS SET

- Include:
  1) Digital caliper, range 0-150mm/0-6" (code **111-006-12**)
  2) Digital outside micrometer, range 0-25mm (code **312-001-03**)

Code
280-123-02

280 3-PIECE MEASURING TOOL SET

- Includes:
  1) Vernier caliper, range 0-150mm/0-6", (code **120-006-12**)
  2) Outside micrometer, range 0-25mm (code **321-001-01**)
  3) 90° beveled edge square, 100x70mm (code **832-004-10**)

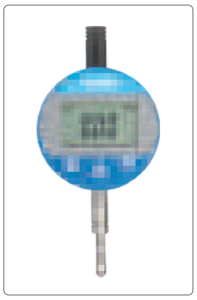
Code
280-000-03

280 3-PIECE MEASURING TOOL SET

- Includes:
  1) Digital caliper, range 0-150mm/0-6" (code **111-006-12**)
  2) Outside micrometer, range 0-25mm (code **321-001-01**)
  3) 90° beveled edge square, 100x70mm (code **832-004-10**)

Code
280-000-13

SERIES 280 3-PIECE MEASURING TOOL SET



digital indicator for **280-200-03**

inch dial indicator for **280-202-03**

Code	Include
280-200-03	digital indicator, range 12.7mm/0.5" (code **212-010-13)** flex arm locking pliers, adjustable jaw opening from 0 to 25mm
280-201-03	10mm dial indicator (code **222-010-11)** flex arm locking pliers, adjustable jaw opening from 0 to 25mm
280-202-03	1" inch dial indicator (code **225-025-11)** flex arm locking pliers, adjustable jaw opening from 0 to 25mm

280-201-03

MEASURING TOOL SET

280 5-PIECE MEASURING TOOL SET

- Includes:
  1) Digital caliper, range 0-150mm/0-6" (code **111-006-12**)
  2) Outside micrometer, range 0-25mm (code **321-001-01**)
  3) Dial indicator, range 10mm (code **222-010-11**)
  4) Magnetic stand (code **281-060-01**)
  5) Micrometer stand (code **383-000-00**)

Code
280-000-05

280 5-PIECE MEASURING TOOL SET

- Includes:
  1) Digital caliper, range 0-150mm/0-6" (code **111-006-12**)
  2) Outside micrometer, range 0-25mm (code **321-001-01**)
  3) Dial indicator, range 10mm (code **222-010-11**)
  4) 90° beveled edge square, 100x70mm (code **832-004-10**)
  5) Scriber, 250mm (code **995-009-01**)

Code
280-000-15

280 8-PIECE MEASURING TOOL SET

- Includes:
  1) Digital caliper, range 0-150mm/0-6" (code **111-006-12**)
  2) Outside micrometer, range 0-25mm (code **321-001-01**)
  3) Protractor(code **812-003-01**)
  4) Pitch gauge, range 0.25-7mm, 24pcs (code **922-007-24**)
  5) Radius gauge(code **941-007-34**)
  6) Feeler gauge, range 0.05-1.00mm, 20pcs (code **912-100-20**)
  7) 90° beveled edge square, 100x70mm (code **832-004-10**)
  8) Scriber (code **995-009-01**)

Code
280-000-08

280 12-PIECE MEASURING TOOL SET

- Includes:
  1) Digital caliper, range 0-150mm/0-6" (code **111-006-12**)
  2) Outside micrometer, range 0-25mm (code **321-001-01**)
  3) Dial indicator, range 10mm (code **222-010-11**)
  4) Magnetic stand (code **281-060-01**)
  5) Protractor (code **812-003-01**)
  6) Pitch gauge, range 0.25-7mm, 24pcs (code **922-007-24**)
  7) Radius gauge(code **941-007-34**)
  8) Feeler gauge, range 0.05-1.00mm, 20pcs (code **912-100-20**)
  9) 90° beveled edge square, 100x70mm (code **832-004-10**)
  10) Scriber (code **995-009-01**)
  11) Depth base (code **179-000-00**)
  12) Zero setting bar

Code
280-000-12

280 12-PIECE MEASURING TOOL SET

- Includes:
  1) Digital caliper, range 0-150mm/0-6" (code **111-006-12**)
  2) Digital outside micrometer, range 0-25mm/0-1" (code **313-001-01**)
  3) Digital indicator, range 12.7mm/0.5" (code **212-010-13**)
  4) Magnetic stand (code **281-060-01**)
  5) Protractor (code **812-003-01**)
  6) Pitch gauge, range 0.25-7mm, 24pcs (code **922-007-24**)
  7) Radius gauge(code **941-007-34**)
  8) Feeler gauge, range 0.05-1.00mm, 20pcs (code **912-100-20**)
  9) 90° beveled edge square, 100x70mm (code **832-004-10**)
  10) Scriber (code **995-009-01**)
  11) Depth base (code **179-000-00**)
  12) Zero setting bar

Code
280-001-12

280 6-PIECE WELDING GAUGE SET

- Includes:
  1) Outside micrometer, range 0-25mm (code **321-001-01**)
  2) Pipe welding gauge (code **976-045-01**)
  3) Welding gauge (code **978-006-01**)
  4) Welding gauge (code **979-020-01**)
  5) Steel rule, range 150mm/6" (code **990-006-11**)
  6) Magnifier

Code
280-000-56

ESS0615 MANUAL 360° SWIVEL ENDOSCOPE

Data output

Charge

- The cable with lens can be rotated at 360°
- With abjustable LED light

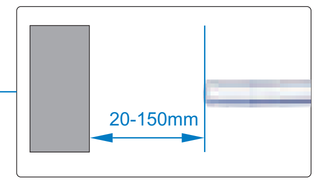
VIDEO

manual joystick to control the cable

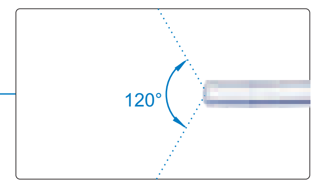
HDMI

Micro USB

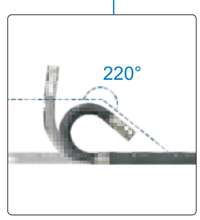
TF



focus distance:20-150mm



angle of view field:120°



Max.bend angle:220°

360° rotation

SPECIFICATION

Proble diameter	5.5mm
Cable length	1.5m
Cable type	steel wired weaved cable
Dust/waterproof probe	IP65
Camera pixel	1M Pixel
Picture resolution	1280x720
Bend control	manual joystick
Frame rate	30fps
Illumination	6 steps adjustable LED
Display size	3.5inch LCD,Max.20000Lux
Max.magnification	5X
Video format	MP4/JPEG
Memory	16G TF card
Power supply	rechargeable battery(for 4 hours working)
Weight	550g

INCLUDED ACCESSORIES

Main unit	1pc
Cable with probe	1pc
16G TF card	1pc
AC/DC adapter	1pc
USB cable	1pc

ACCUD

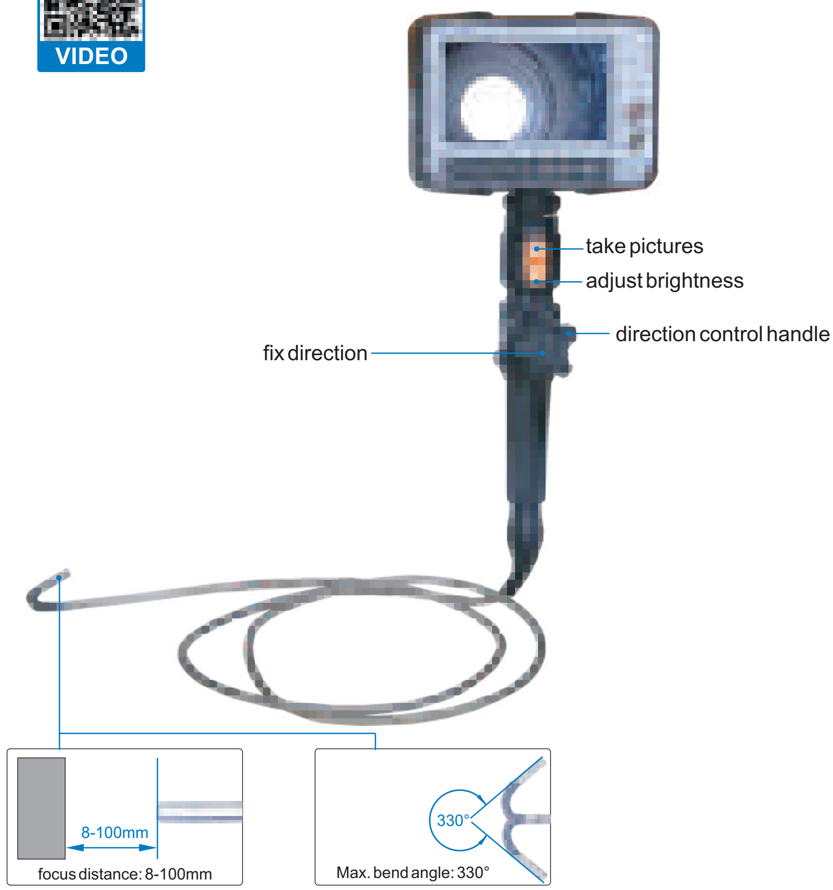
VISION

SERIES ES ENDOSCOPE

Data output
Charge

- 2-way directions
- With adjustable LED light
- Take pictures and record videos

VIDEO



SPECIFICATION

Code	ES5515	ES5530	ES4015
Probe diameter	5.5mm	5.5mm	4.0mm
Cable length*	1.5m	3m	1.5m
Dust/waterproof probe	IP65		
Camera	0.45M Pixel		
Picture resolution	640x480		
Frame rate	30fps		
Illumination	8pcs LEDs		4pcs LEDs
Video format	AVI or MPEG4		
Memory	8G SD card		
Power supply	rechargeable battery (for 4 hours working)		
Weight	550g	750g	500g

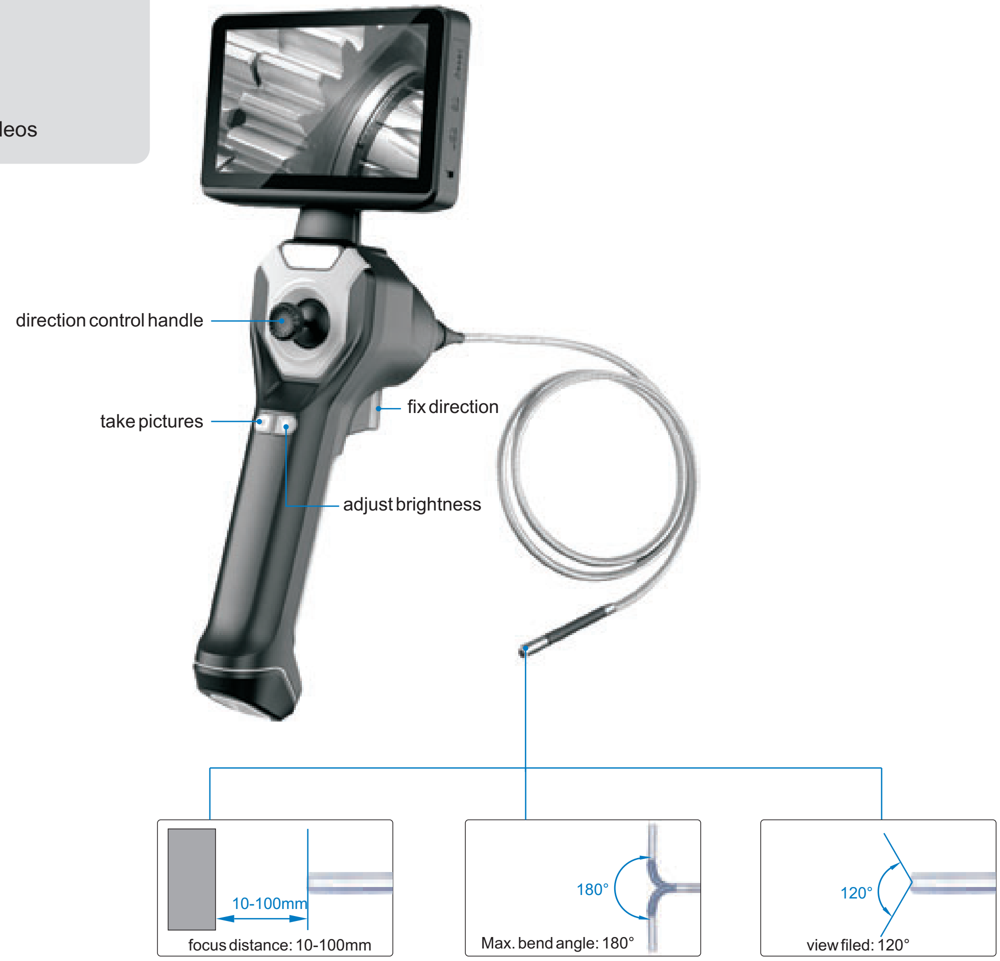
INCLUDED ACCESSORIES

Main unit	1pc
Cable with probe	1pc
SD card 8G	1pc
AC/DC adapter	1pc
Video output cable	1pc
USB cable	1pc

* The cable length are available upon request

Data output
Charge

- Economic type
- 2-way directions
- With adjustable LED light
- Take pictures and record videos



SPECIFICATION

Code	ESE80	ESE60	ESE40
Probe diameter	8.0mm	6.0mm	4.0mm
Cable length	1m		
Dust/waterproof probe	IP65		
Camera	1M Pixel		
Picture resolution	1280x720		
Frame rate	30fps		
Scree size	4.5 inch		
Illumination	8pcs LEDs		6pcs LEDs
Video format	AVI		
Memory	32G SD card		
Power supply	rechargeable battery (for 4 hours working)		
Weight	500g	450g	400g

INCLUDED ACCESSORIES

Main unit	1pc
Cable with probe	1pc
SD card 32G	1pc
AC/DC adapter	1pc

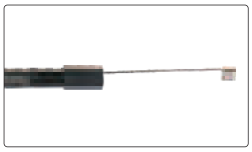
EST0810 WIFI ENDOSCOPE

Charge
WIFI

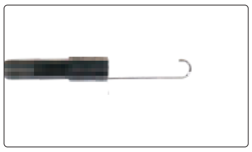
- The cable can be fixed in any sharp
- With adjustable LED light

the cable sharp can be fixed

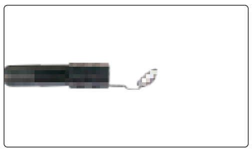
Magnet



Hook



Mirror



SPECIFICATION

Probe diameter	8.5mm
Cable length	1m
Cable type	steel wired cable (the sharp can be fixed)
Dust/waterproof probe	IP65
Camera pixel	2M Pixel
Picture resolution	1600x1200
Video format	JPEG/MP4
Illumination	6 steps adjustable LED
Power supply	rechargeable battery (for 4 hours working)
Weight	287g

INCLUDED ACCESSORIES

Main unit	1pc
Cable with probe	1pc
Hook	1pc
Mirror	1pc
Magnet	1pc
USB cable	1pc

DM200 DIGITAL MICROSCOPE

- Magnification: 10X-200X
- Pixel: 2M
- Interface: USB2.0
- Snap pictures and record videos
- 8 pcs adjustable LED lights
- With measuring software and calibration rule

VIDEO

Optional Stand

Universal Stand (MS36B)

Magnification, View Field and Focus Relationship

Magnification	Focus	View field
50X	21mm	9.5x7.1mm
100X	13mm	4.8x3.6mm
150X	16mm	3.2x2.4mm
200X	19mm	2.4x1.8mm

WIFI200 DIGITAL WIFI MICROSCOPE

WIFI

- Magnification: 10X-200X
- Pixel: 2M
- Interface: USB2.0 or WiFi
- Snap pictures and record videos
- 8 pcs adjustable LED lights
- With measuring software and calibration rule

VIDEO

It can connected to smart phone , Ipad or computer via WIFI

Optional Stand

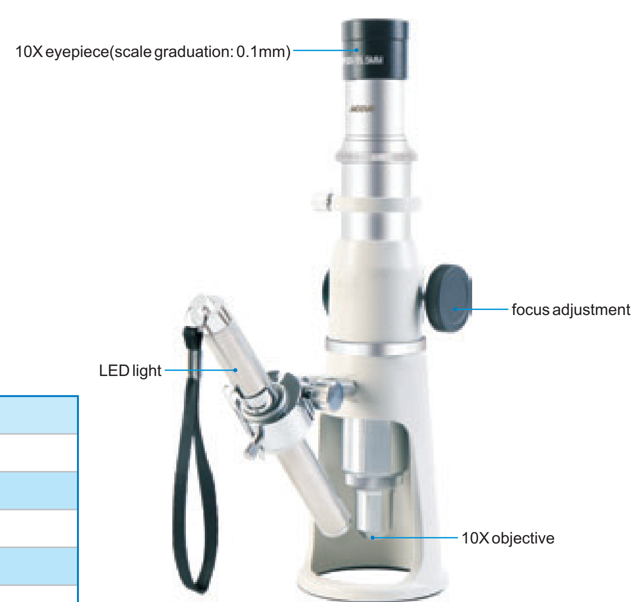
Universal Stand (MS36B)

Magnification, View Field and Focus Relationship

Magnification	Focus	View field
50X	21mm	9.5x7.1mm
100X	13mm	4.8x3.6mm
150X	16mm	3.2x2.4mm
200X	19mm	2.4x1.8mm

PM100 PORTABLE MEASURING MICROSCOPE

AAA



SPECIFICATION

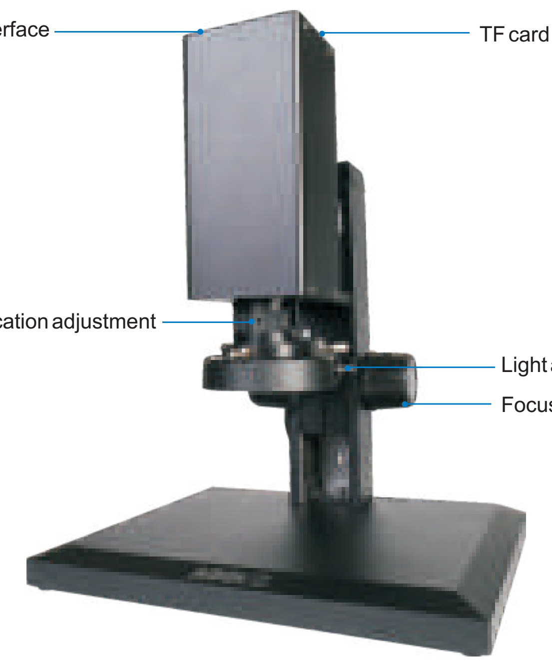
Total magnification	100X
Eyepiece	10X
Objective(achromatic)	10X
Working distance	7mm
Focus range	30mm
Viewing field	Ø1.8mm
Graduation	0.01mm
Illumination	LED light
Diameter of base	Ø63mm
Height	210mm
Weight	650g

INCLUDED ACCESSORIES

Main unit	1pc
Pen light	1pc
Battery (AAA)	2pcs

DVM1000 VIDEO MICROSCOPE

- High resolution color camera
- With TF card, can save pictures and videos
- High frame rate, without any delay in quick movement
- With crosshair on the screen



SPECIFICATION

Objective		0.7X~5X (zoom)
Total magnification(with 22 inch monitor)		25X-180X
View field		3.2mm-23mm
Working distance		105mm
Camera	Resolution	1920x1080
	Pixel size	2.75*2.75μm
	Frame rate	60fps
Illumination		adjustable light
Base size		320mmx285mm(LxW)
Weight		6kg

INCLUDED ACCESSORIES

Main unit	1pc
Wireless mouse	1pc
HDMI connection cable	1pc
Ø95mm black/white plastic plate	1pc
8G TF card	1pc
TF card reader	1pc
AC/DC adapter	1pc

DVM2000 HD VIDEO MICROSCOPE

- 12 inch wide screen HD LCD is included
- Can take pictures and record videos
- With USB interface, for transferring pictures or measuring data
- High frame rate, without any delay in quick movement
- With measuring function

VIDEO

SPECIFICATION

Objective		0.7X ~ 4.5X (zoom, fixed at 0.7X, 1X, 2X, 3X, 4X, 4.5X)
Total magnification		9.3X-114.3X
View field		4mm-25.8mm
Working distance		96mm
Camera	**Pixel**	2M HDMI
	Pixel size	2.75*2.75μm
	Frame rate	60fps
Illumination		144pcs LEDs adjustable light
LCD display		12 inch HD LCD display, 1080P
Base size		260mmx320mm(LxW)
Weight		5.5kg

INCLUDED ACCESSORIES

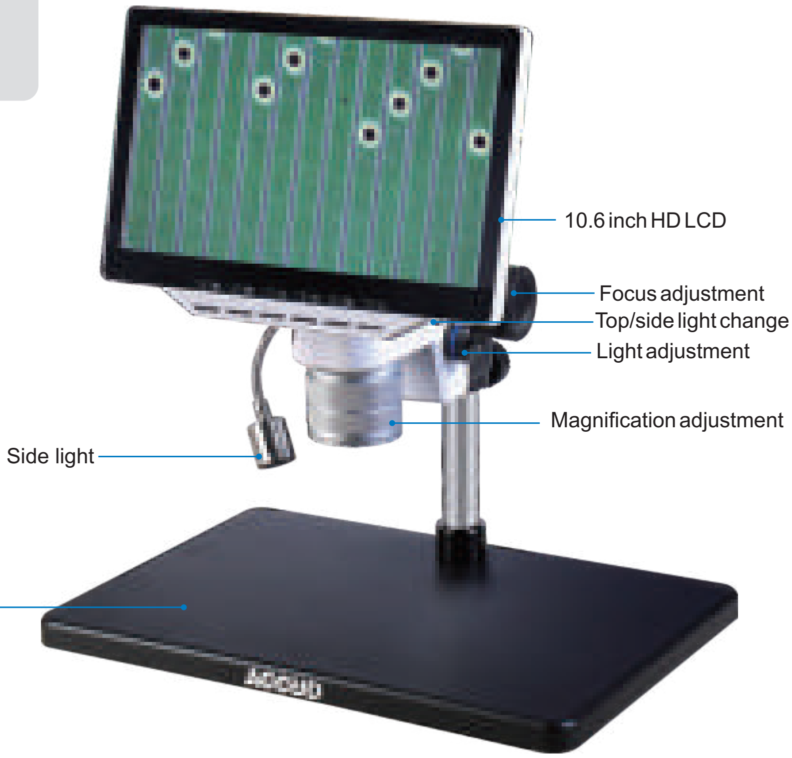
Main unit	1pc
12 inch HD LCD	1pc
Wireless mouse	1pc
HDMI connection cable	1pc
Calibration rule	1pc
AC/DC adapter	1pc

OPTIONAL ACCESSORIES

0.5X Objective	**DVM2000-05-O**
2X Objective	**DVM2000-20-O**

DVM3000 VIDEO MICROSCOPE

- 10.6 inch HD LCD is included
- Can take pictures and record videos
- High frame rate, without any delay in quick movement
- Automatic exposure, white balance



SPECIFICATION

Objective		0.7X~4.5X
Total magnification		14X~100X
Max.view field		16.2mmx9.2mm
Working distance		88mm
Camera	**Pixel**	1.2M
	Resolution	1366x768
	Frame rate	60fps
Illumination		top/side LED adjustable light
LCD display		10.6 inch HD LCD display, 1080P
Base size		260mmx320mm(LxW)
Weight		5.7kg

INCLUDED ACCESSORIES

Main unit	1pc
Stand	1pc
Glass rule	1pc
AC/DC adapter	1pc
SD card	1pc

SERIES DVM4000 AUTO FOCUS VIDEO MICROSCOPE

- Auto focus
- High frame rate, without any delay in quick movement
- Automatic exposure, white balance
- With measuring functions

DVM4000S

SPECIFICATION

Code		DVM4000	DVM4000S
Display		without	with 21.5" HD monitor
Objective		0.7X~4.5X	
Total magnification		26.5X~170X	
Max.view field		19mmx10.8mm	
Working distance		100mm	
Camera	Pixel	2M	
	Resolution	1920x1080	
	Frame rate	60fps	
Illumination		LED adjustable light	
Base size		380mmx260mm(LxW)	
Weight		5.7kg	

INCLUDED ACCESSORIES

Main unit	1pc
Stand	1pc
Calibration rule	1pc
AC/DC adapter	1pc
U-disk	1pc
Mouse	1pc

OPTIONAL ACCESSORIES

X-Y stage(range: 76x65mm)	DVM-STAGE
0.5X objective	DVM-05-O
2X objective	DVM-20-O

SERIES DVM3D 3D MOTORIZED ROTATION MICROSCOPE

- 1080P HD image
- High frame rate, without any delay in quick movement
- Automatic exposure, white balance
- With taking photos functions

DVM3DS

SPECIFICATION

Code		DVM3D	DVM3DS
Display		without	with 21.5" HD monitor
Total magnification		25X~150X	
Direction/rotation adjustment		by controller	
Max.view field		16mmx9mm	
Working distance		20mm	
Camera	Pixel	2M	
	Resolution	1920x1080	
	Frame rate	60fps	
Frame rate		LED adjustable light (adjusted by controller)	
Base size		380mmx260mm(LxW)	
Weight		5.7kg	

INCLUDED ACCESSORIES

Main unit	1pc
Stand	1pc
Controller	1pc
AC/DC adapter	1pc
USB flash disk	1pc

OPTIONAL ACCESSORIES

X-Y stage(range: 76x65mm)	DVM-STAGE

SERIES ZS1045 ZOOM STEREO MICROSCOPE

- Trinocular head is used to connect to camera

ZS1045

SPECIFICATION

Code	ZS1045	ZS1045T
Optical	binocular	trinocular
Magnification	10X~45X	
Eyepiece	10X (viwe field: Ø20mm)	
Objective	1X~4.5X (zoom)	
Pupil distance	55~75mm	
Diopter adjustment	±5 diopter	
Working distance	97mm	
Illumination	selectable incident and transmitted LED light	
Dimension(L×W×H)	310×250×420mm	
Weight	6kg	

INCLUDED ACCESSORIES

Main unit	1pc
10X eyepiece	1pair
Eyepiece patch	1pair
Ø95mm frosted glass plate	1pc
Ø42mm frosted glass plate	1pc
Ø95mm black/white plastic plate	1pc
Dustproof cover	1pc

OPTIONAL ACCESSORIES

0.5X Eyepiece	ZS1045-05-O
0.75X Eyepiece	ZS1045-75-O
2X Eyepiece	ZS1045-02-O
10X Eyepiece with scale	ZS1045-10-FE
WF15X Eyepiece	ZS1045-15-E
WF20X Eyepiece	ZS1045-20-E
Camera	1300KPA

MM1000A METALLURGICAL MICROSCOPE

- For high magnification observation and metallurgical image analysis
- Infinite optical system, can add accessories like polarizer, analyzer into optical path without image quality influence

(camera is optional)

SPECIFICATION

Eyepiece(wide field)	10X(view field: Ø18mm)			
Objective(plan achromatic)	10X	20X	50X	100X(dry type)
Numerical aperture	0.25	0.40	0.70	0.85
Working distance	8.8mm	8.6mm	3mm	0.33mm
Stage	double layer			
	size: 242×200mm			
	travel: 30×30mm			
Pupil distance	53-75mm(adjustable)			
Diopter adjustment	±5 diopter(one eyepiece)			
Illumination	6V/30W halogen lamp, brightness is adjustable with polarizer and analyzer, built-in green, yellow, blue filters and frosted glass			
Weight	11kg			

INCLUDED ACCESSORIES

Main unit	1pc
Anti-dust cover	1pc
Filter(blue/green/yellow)	1pc of each

OPTIONAL ACCESSORIES

10X dividing eyepiece(0.1mm/div.)	**MM-EP10D**
Camera adapter(1X)	**MM-ADAPTER**
Digital camera	**1300KPA**
5X Objective	**MM-OB5**

40X Objective	**MM-OB40**
60X Objective	**MM-OB60**
80X Objective	**MM-OB80**

- Large screen of the read out

VIDEO

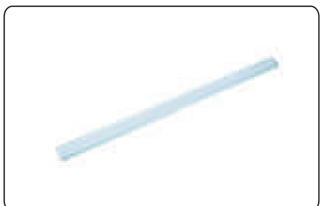
PP3015

OPTIONAL ACCESSORIES

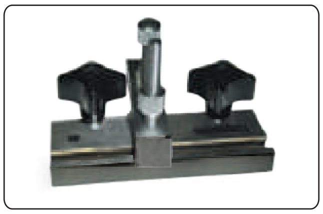
20X, 50X, 100X
lens with half-reflection mirror

rotary table
(glass diameter 100mm, graduation 2°)

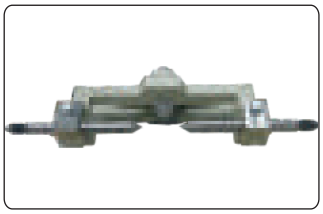
5X magnifier



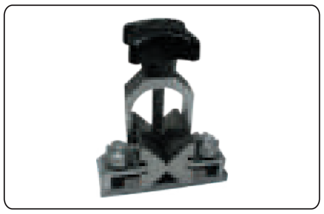
Series 552 glass scale



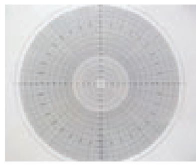
holder with clamp



swivel center support



V-block with clamp



Overlay chart

SERIES PP PROFILE PROJECTOR

SPECIFICATION

Code	PP3015	PP3020
X-Y stage travel	150×50mm	200×100mm
Metal stage size	340×152mm	400×225mm
Glass stage size	195×95mm	245×145mm
Screen diameter	diameter: Ø300mm	
Image	inverted	
Linear scale resolution	1μm	
Accuracy	(4+L/25)μm L is the measuring length in mm	
Z(focus) travel range	80mm	
Max. load capacity	4kg	
Rotation scale	range: 0°~360°, resolution: 1' or 0.01°, accuracy: 6'	
Magnification accuracy	±0.1%	
Illumination	contour illumination: 12V/100W halogen lamp, 2-step(high/low) brightness adjustment	
	surface illumination: 24V/150W halogen lamp	
Readout display	X-Y stage travel, screen rotation	
Output	RS232 and USB	
Readout functions	measure coordinate of point measure coordinate of line measure center coordinate, radius of circle with three points measure distance between two objects measure angle with four points or two lines coordinate transform	
Dimension (L×W×H)	480×780×1150mm	
Weight	135kg	

INCLUDED ACCESSORIES

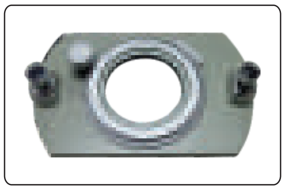
Main unit	1pc
10X lens with half-reflection mirror	1pc
Overlay chart clip	4pcs
Level	1pc
Anti-dust cover	1pc

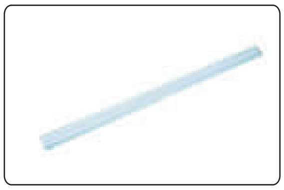
OPTIONAL ACCESSORIES

20X lens with half-reflection mirror	PP3000-LENS20X
50X lens with half-reflection mirror	PP3000-LENS50X
100X lens with half-reflection mirror	PP3000-LENS100X
Rotary table	PP3000-TABLE
5X magnifier	PP3000-MAGNIFIER
Holder with clamp	PP3000-HOLDER
Swivel center support	PP3000-SUPPORT
V-block with clamp	PP3000-VBLOCK
Calibration scale	Series 552
Overlay chart	PP3015-CHART

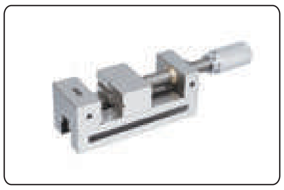
OPTIONAL ACCESSORIES

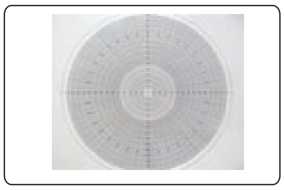

20X, 50X, 100X lens


Rotary table


Series 552 glass scale


Series 636 V-block


Series 652 Vise


Overlay chart

PP3020W HORIZONTAL PROFILE PROJECTOR

SPECIFICATION

X-Y stage travel	200×100mm
Metal stage size	400×150mm
Screen diameter	Ø300mm
Linear scale resolution	1μm
Accuracy	(4+L/25)μm L is the measuring length in mm
Focus travel range	75mm
Focus	77.7mm(10X lens)
Max. load capacity	50kg
Workpiece rotation range	±15°
Rotation scale	range: 0°~360°, resolution: 1' or 0.01°, accuracy: 6'
Magnification accuracy	±0.08%
Illumination	contour illumination:24V/150W halogen lamp, brightness is adjustable surface illumination: 12V/150W halogen lamp, brightness is adjustable
Readout display	X-Y stage travel, screen rotation
Output	RS232 and USB
Data processing unit	measure coordinate of point measure coordinate of line measure center coordinate, radius of circle with three points measure distance between two objects measure angle with four points or two lines coordinate transform
Dimension(L×W×H)	1090×830×1010mm
Weight	160kg

INCLUDED ACCESSORIES

Main unit	1pc
10X lens	1pc
Overlay chart clip	4pcs
Foot-switch	1pc
Anti-dust cover	1pc

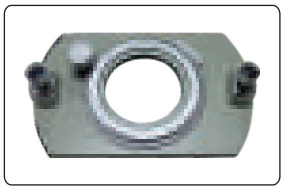
OPTIONAL ACCESSORIES

20X lens	PP3020W-LENS20X
50X lens	PP3020W-LENS50X
100X lens	PP3020W-LENS100X
Rotary table	PP3020W-TABLE
Overlay chart	PP3015-CHART
Vise	Series 652
V-block	Series 636
Glass scale	Series 552

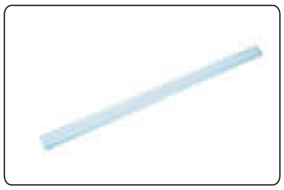
Certificate

OPTIONAL ACCESSORIES

5X, 20X, 50X, 100X lens



Rotary table



Series 552 glass scale

PP6020 PROFILE PROJECTOR

SPECIFICATION

X-Y stage travel		200×100mm				
Metal stage size		404×265mm				
Screen diameter		Ø600mm				
Linear scale resolution		1μm				
Accuracy		(4+L/25)μm L is the measuring length in mm				
Focus travel range		75mm				
Lens	Magnification	5X (Optional)	10X (Standard)	20X (Optional)	50X (Optional)	100X (Optional)
	View field	Ø120mm	Ø60mm	Ø30mm	Ø12mm	Ø6mm
	Focus	242.8mm	143.2mm	85.5mm	92mm	48.5mm
	Magnification accuracy	0.08%				
Max. load capacity		5kg				
Rotation scale		range: 0°~360°, resolution: 1' or 0.01°				
Illumination		contour illumination:24V/150W halogen lamp, brightness is adjustable				
		surface illumination: 12V/150W halogen lamp, brightness is adjustable				
Readout display		X-Y stage travel, screen rotation				
Output		RS232 and USB				
Data processing unit		measure coordinate of point measure coordinate of line measure center coordinate, radius of circle with three points measure distance between two objects measure angle with four points or two lines coordinate transform				
Dimension(L×W×H)		1200×1140×1940mm				
Weight		360kg				

INCLUDED ACCESSORIES

Main unit	1pc
10X lens	1pc
Overlay chart clip	4pcs
Foot-switch	1pc
Anti-dust cover	1pc

OPTIONAL ACCESSORIES

5X lens	**PP6020-LENS5X**
20X lens	**PP6020-LENS20X**
50X lens	**PP6020-LENS50X**
100X lens	**PP6020-LENS100X**
Rotary table	**PP6020-TABLE**
Glass scale	**Series 552**

QUICK MEASUREMENT VISION MACHINE

- Put the workpieces in view filed, and press one button, the measuring results will be shown immediately
- Can measure Max. 99 pieces workpieces at a time
- Workpiece can be put at any position
- Auto focus

QVM120

SPECIFICATION

Code	QVM120	QVM80B
Lens	single field telecentric	double field telecentric
Measuring range	100x80mm	82x55mm(wide view field) 20x13mm(small view field)
Accuracy	±(2.5+L/50)μm	±(2.5+L/50)μm(wide view field) ±(1.5+L/50)μm(small view field)
Repeatability	±1.5μm	±1.5μm/±1μm(small view field)
Resolution	0.01μm	
Focus method	auto	
Focus (mm)	145mm	
Moving range (Z axis)	45mm	
Measuring time	<1s (less than 100 measuring dimensions)	
Illumination system	1000 steps programmable light contour light: telecentric parallel light surface light: LED	
Camera pixel	20M	
Image processing	256 gray scale, 20:1 sub-pixel processing technology	
Dimension	540×260×650mm	
Weight	50kg	

INCLUDED ACCESSORIES

Main unit	1pc
Computer	1pc
USB dongle	1pc

OPTIONAL ACCESSORIES

Coaxial light	QVM-LG
Special angle surface light	QVM-SL

The light should be brought with main unit if needed

SERIES VM VISION MACHINE

Certificate

- Granite base and column

VIDEO

VM5040

SPECIFICATION

Code	VM2010	VM3020	VM4030	VM5040
Measuring range(X/Y axis)	200×100mm	300×200mm	400×300mm	500×400mm
Z axis travel with scale	200mm			
Stage moving method	manual			
Linear scale resolution (X/Y/Z axis)	1μm			
Accuracy (X/Y axis)	(3+L/200)μm L is the measuring length in mm			
Repeatability	2μm			
Focus	90mm			
Lens magnification	0.7X-4.5X			
Total magnification	30-220X			
Camera	Color CCD, 1.3M pixel			
Illumination	contour illumination: LED, brightness adjustment			
	surface illumination: LED, brightness adjustment			
Max. glass stage loading	20kg	20kg	20kg	30kg
Dimension (L×W×H)	580×680×880mm	770×650×1080mm	960×750×1080mm	1250×860×1690mm
Weight	140kg	188kg	230kg	450kg

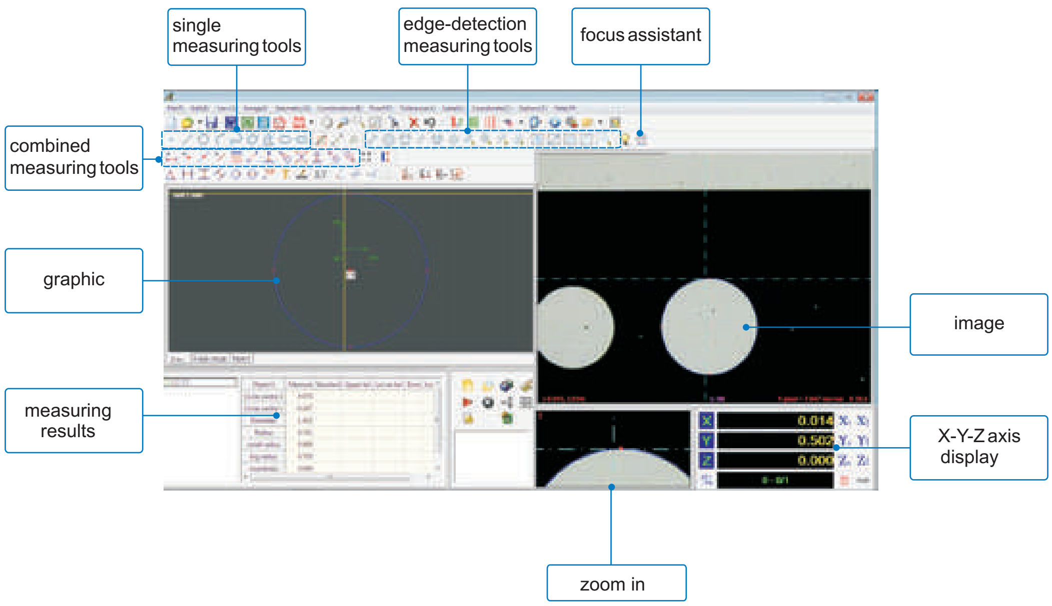
INCLUDED ACCESSORIES

Main unit	1pc
Calibration block	1pc
Software with USB dongle	1pc
Controller	1pc
Operating table(only VM5040 included)	1pc

OPTIONAL ACCESSORIES

0.5X auxiliary objective	VM-OB05X
2X auxiliary objective	VM-OB2X
Computer	VM-PC
Operating table (except for VM5040)	VM-Table
Calibration scale	Series 552

SOFTWARE FOR ALL MANUAL VISION MACHINES



- **Single measuring tools:**

measure coordinate of point

measure length of line

measure center coordinate, radius, diameter and area of circle

measure length and diameter of arc

measure length of curve

measure width, length and area of rectangle

measure length and area of polygon

measure center coordinate, axis length and area of ellipse

- **Combined measuring tools:**

measure distance between two objects like, two points, two lines, a point to a line, a point to a circle and so on.

create a intersection point

find midpoint of a line

create a line

create a line, a circle and a arc based on points

measure distance between two points

measure distance from point to line

create tangent lines between point and circle

create angular bisector between two lines

measure distance from circle to line

measure distance between two circles

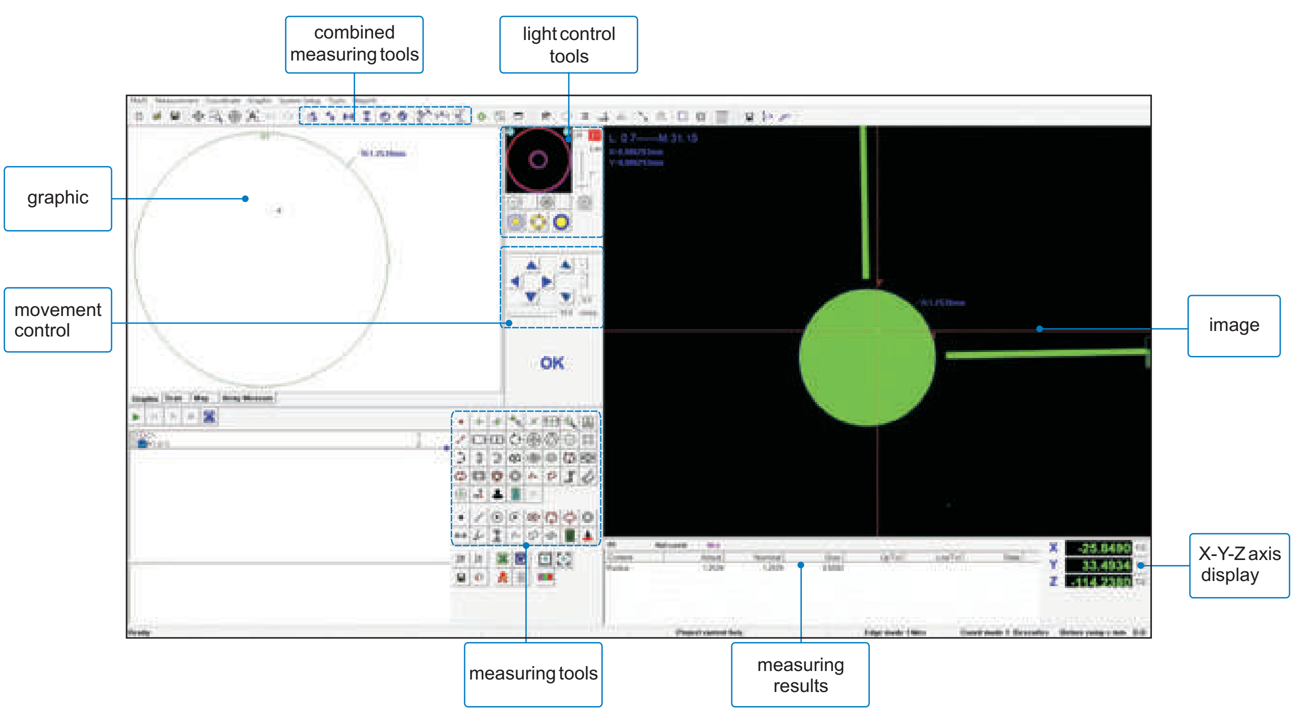
find tangent lines between two circles

SERIES VM AUTOMATIC VISION MACHINE

Certificate

- The stage can move automatically by programming
- The light can changed automatically by programming
- Automatic focus
- Granite stage and column

VM400CNC



SERIES VM AUTOMATIC VISION MACHINE

SPECIFICATION

Code	VM300CNC	VM400CNC	VM500CNC
Measuring range(X/Y axis)	300×200mm	400×300mm	500×400mm
Z axis travel with scale	200mm(automatic)		
Stage moving method	automatic		
Linear scale resolution (X/Y/Z axis)	1μm		
Accuracy (X/Y axis)	(2.2+L/200)μm L is the measuring length in mm		
Repeatability	2μm		
Focus	90mm		
Lens magnification	0.7X-4.5X		
Total magnification	30-220X		
Camera	Color CCD, 2M pixel		
Illumination	contour illumination: LED, brightness adjustment		
	surface illumination: LED(8 sections), brightness adjustment		
Max. glass stage loading	20kg	20kg	25kg
Glass stage size	358mm×258mm	458×358mm	558×458mm
Weight	320kg	400kg	500kg

INCLUDED ACCESSORIES

Main unit	1pc
Calibration block	1pc
Software with USB dongle	1pc
Computer	1pc
Count card	1pc
Video card	1pc

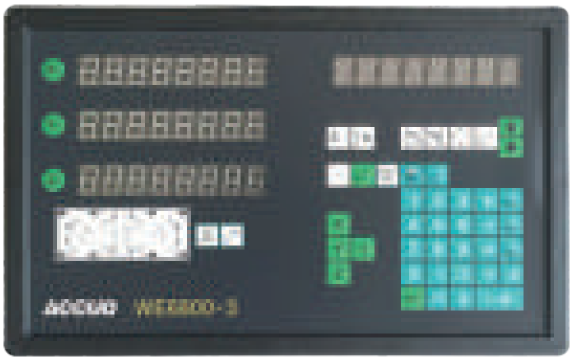
OPTIONAL ACCESSORIES

0.5X auxiliary objective	VM-OB05X
2X auxiliary objective	VM-OB2X
Calibration scale	Series 552
MCP probe*	VM-MCP

* Should be brought with vision machine

SERIES WE6800 DIGITAL READOUT

- Recalls the last position after power failure without power
- Can be connected with linear scale or encoder to carry out processing and measuring for various kinds of machines.



WE6800-3

SPECIFICATION

Code	WE6800-2	WE6800-3
Axis	2	3
RS232 output	Yes	No
Functions	set zero, numerical analysis, pre-sets value, absolute coordinate/relative coordinate, filters numerical value, metric units/imperial units conversion, diameter/semi-diameter conversion, shrinkage rate, find mechanical original point (RI), calculator, circular point hole, oblique line hole, arc processing, bevel processing, lathe	
Resolution	0.1, 0. 2, 0. 5, 1, 2, 5, 10μm	
Input signal	Orthogonality TTL square wave; frequency<2MHZ; electric current>1mA	
Input voltage	AC 90V~240V	
Dimension	296 x 184 x 45 mm	
Weight	1.5kg	

INCLUDED ACCESSORIES

Main unit	1pc
Mounting bracket	1pc
Ground cable	1pc

SERIES LS LINEAR SCALE

LSA1-250

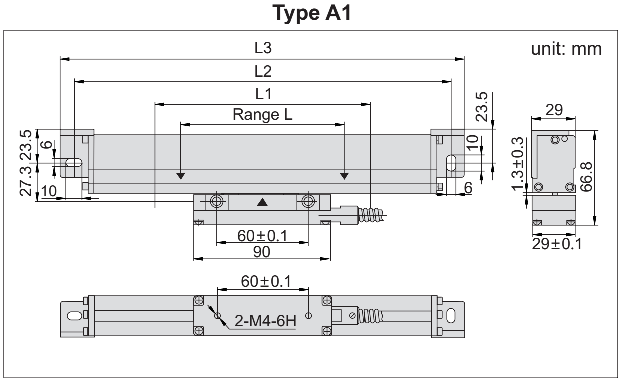
◆ Code explanation:

LS□-□
→range
→type

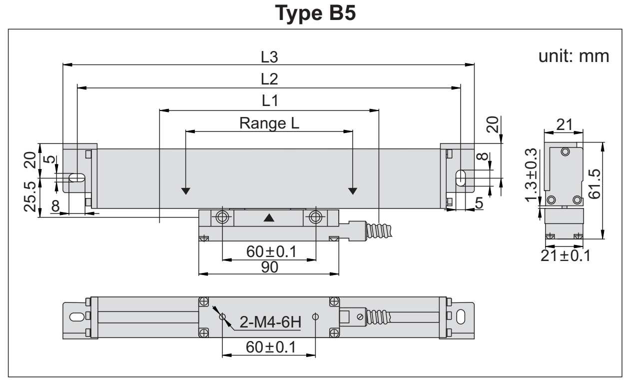
Example:

Code	Type	Range
LSA1-50	A1	50mm
LSB5-1000	B5	1000mm

Type A1



Type B5



SPECIFICATION

Code	Series LSA1		Series LSB5	
Type	A1		B5	
Range	50-1000mm (step 50mm)		50-1000mm (step 50mm), 1000-3000mm(step 100mm)	
Max. travel length (L1)	L+30(L<950)	L+50(L≥950)	L+30(L<950)	L+50(L≥950)
Mounting hole pitch (L2)	L+132(L<950)	L+152(L≥950)	L+136(L<950)	L+156(L≥950)
Total length (L3)	L+149(L<950)	L+169(L≥950)	L+154(L<950)	L+174(L≥950)
Resolution	1μm		5μm	
Max. response speed	50m/min		60m/min	
Scale grating pitch	20μm			
Scale reference point pitch	50mm			
Accuracy	(5+5L/1000)μm L is the range in mm			
Cable length	3.5m (L: 50-950mm), 5m (L: 1000-1500mm), 10m (L: 1600-3000mm)			

INCLUDED ACCESSORIES

Main unit	1pc
Shape support	1pc
Anti-dust cover	1pc
Plain base (for range >1500mm)	1pc
Mounting accessories	one package

1300KPA CAMERA

- Easy to connect computer by USB
- Supplied with measuring software

SPECIFICATION

Camera sensor	1/3" CMOS
Pixel	1.3 Mega
Interface	USB
Dimension (L×W×H)	65 × 48 × 43(mm)
Weight	400g

Connect with Vickers hardness tester

Connect with microscope

INCLUDED ACCESSORIES

Main unit	1pc
USB cable	1pc
Software	1pc

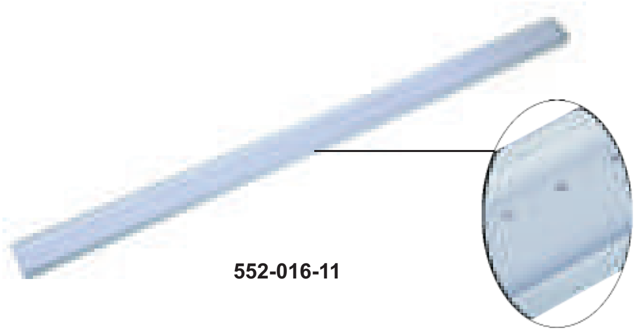
OPTIONAL ACCESSORIES

C-mount	**1300KPA-CM**
Calibration rule (graduation: 0.1mm)	**RU01**
Ø30mm eyepiece adaptor	**AD30**
Ø30.5mm eyepiece adaptor	**AD305**

SERIES 552 GLASS SCALE

Certificate

- For calibrating the accuracy of vision machine or profile projector
- Graduation:1mm



552-016-11

Code	Range (mm)	Accuracy (μm)
552-008-11	200	1.5
552-012-11	300	2
552-016-11	400	2
552-024-11	600	2.5

HR150 MANUAL ROCKWELL HARDNESS TESTER

Certificate

- Manual loading control
- Economic type

Small flat anvil

Large flat anvil

V-type anvil

SPECIFICATION

Load force	10kgf (98N)
Total load force	60kgf (588N), 100kgf (980N), 150kgf (1471N)
Stage elevation	manual
Loading control	manual
Graduation	0.5HR
Max. test height	155mm
Max. throat	130mm
Dimension	460×180×620mm
Weight	65kg

INCLUDED ACCESSORIES

Main unit	1pc
Ø1.5875mm ball carbide indenter	1pc
Diamond indenter	1pc
Flat anvil	2pcs
V-type anvil	1pc
Rockwell test block	5pcs
Screw driver	2pcs

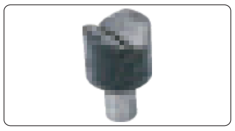
HR150B MANUAL ROCKWELL HARDNESS TESTER

Certificate

- Manual loading control

Small flat anvil

Large flat anvil



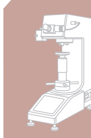
V-type anvil

SPECIFICATION

Load force	10kgf (98N)
Total load force	60kgf (588N), 100kgf (980N), 150kgf (1471N)
Stage elevation	manual
Loading control	manual
Graduation	1HR
Max. test height	170mm
Max. throat	160mm
Dimension	487×265×726mm
Weight	73kg

INCLUDED ACCESSORIES

Main unit	1pc
Ø1.5875mm ball carbide indenter	1pc
Diamond indenter	1pc
Flat anvil	2pcs
V-type anvil	1pc
Rockwell test block	3pcs
Dustproof cover	1pc



HR150A DIGITAL ROCKWELL HARDNESS TESTER

Certificate
Data output

- Manual loading control
- The hardness scale can be converted to HV and HB
- With USB interface, for transferring data

VIDEO

Small flat anvil

Large flat anvil

V-type anvil

PR100 printer **(optional)**

SPECIFICATION

Load force	10kgf (98N)
Total load force	60kgf (588N), 100kgf (980N), 150kgf (1471N)
Stage elevation	manual
Loading control	manual
Resolution	0.1HR
Max. test height	170mm
Max. throat	160mm
Dimension	487×265×726mm
Weight	73kg

INCLUDED ACCESSORIES

Main unit	1pc
Ø1.5875mm ball carbide indenter	1pc
Diamond indenter	1pc
Flat anvil	2pcs
V-type anvil	1pc
Rockwell test block	3pcs
Dustproof cover	1pc

OPTIONAL ACCESSORIES

Wireless printer	**PR100**

HR150C DIGITAL ROCKWELL HARDNESS TESTER

Certificate

Data output

- Motorized loading control
- The hardness scale can be converted to HV and HB
- With USB interface,for transferring data

VIDEO

Small flat anvil

Large flat anvil

V-type anvil

PR100 printer **(optional)**

SPECIFICATION

Load force	10kgf (98N)
Total load force	60kgf (588N), 100kgf (980N), 150kgf (1471N)
Stage elevation	manual
Loading control	auto
Loading time	1-99s
Resolution	0.1HR
Max. test height	170mm
Max. throat	160mm
Dimension	487×265×726mm
Weight	73kg

INCLUDED ACCESSORIES

Main unit	1pc
Ø1.5875mm ball carbide indenter	1pc
Diamond indenter	1pc
Flat anvil	2pcs
V-type anvil	1pc
Rockwell test block	3pcs
Dustproof cover	1pc

OPTIONAL ACCESSORIES

Wireless printer	**PR100**

HR150D MOTORIZED ROCKWELL HARDNESS TESTER

Certificate

- Motorized loading control
- Economic type

Small flat anvil

Large flat anvil

V-type anvil

HARDNESS

SPECIFICATION

Load force	10kgf (98N)
Total load force	60kgf (588N), 100kgf (980N), 150kgf (1471N)
Stage elevation	manual
Loading control	auto
Loading time	1-99s
Resolution	0.5HR
Max. test height	200mm
Max. throat	130mm
Dimension	470×230×680mm
Weight	75kg

INCLUDED ACCESSORIES

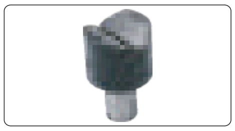
Main unit	1pc
Ø1.5875mm ball carbide indenter	1pc
Diamond indenter	1pc
Flat anvil	2pcs
V-type anvil	1pc
Rockwell test block	5pcs

HB3000 DIGITAL BRINELL HARDNESS TESTER

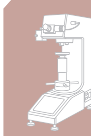
- Electronic close-loop load control system
- Can converted to HV, HK, HRA, HRB, HRC, HRD, HRE, HRF, HRG, HRK, HR15N, HR30N, HR45N, HR15T, HR30T, HR45T, HS

Small flat anvil

Large flat anvil



V-type anvil



SPECIFICATION

Measuring range	8-650HBW
Loading force	62.5, 100, 125, 187.5, 250, 500, 750, 1000, 1500, 3000kgf
Measuring result	read from LCD
Stage elevation	manual
Load control	automatic
Load dwell time	5-60 seconds
Max. test height	225mm
Max. throat	135mm
Dimension	545×235×79mm
Weight	130kg

INCLUDED ACCESSORIES

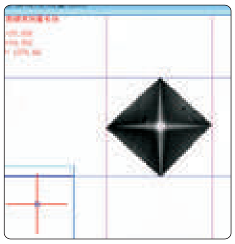
Main unit	1pc
20X measuring microscope	1pc
Ø10mm carbide ball indenter	1pc
Ø5mm carbide ball indenter	1pc
Ø2.5mm carbide ball indenter	1pc
Small flat anvil	1pc

Large flat anvil	1pc
V-type anvil	1pc
Hardness test block 150-250HBW10/3000	1pc
Hardness test block 150-250HBW5/700	1pc
Anti-dust cover	1pc

HVS1000M MICRO-VICKERS HARDNESS TESTER

Certificate

- For measuring the hardness of the thin, small workpiece or coating
- Automatic turret
- The hardness scale can be changed to Rockwell and Brinell scales
- Touch screen



Measuring system **(optional)**

SPECIFICATION

Measuring range	8-2900HV	
Test load	0.01, 0.025, 0.05, 0.1, 0.2, 0.3, 0.5, 1kgf	
Unit	HV0.01, HV0.025, HV0.05, HV0.1, HV0.2, HV0.3, HV0.5, HV1	
Stage elevation	manual	
Loading control	automatic(loading/dwell/unloading)	
Loading time	1~99s	
Objective	10X(observation), 40X(measurement)	
Eyepiece	10X	
Total magnification	100X(observation), 400X(measurement)	
Max. test height	100mm	
Max. throat	130mm	
X-Y stage	size: 100×100mm	
	travel range: 25×25mm	
	graduation: 0.01mm	
Dimension	540×260×650mm	
Weight	50kg	

INCLUDED ACCESSORIES

Main unit	1pc
10X eyepiece	1pc
X-Y stage	1pc
Test block	1pc
Touch screen pen	1pc
Level	1pc
Dustproof cover	1pc

OPTIONAL ACCESSORIES

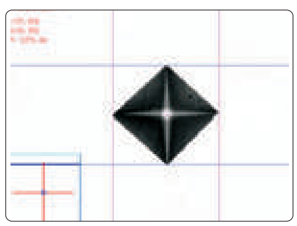
Measuring system	**HVS-MS**
Slice holder	**HVS-SH**
Cylinder holder	**HVS-CH**
Vice	**HVS-VI**

HVS10M/50M VICKERS HARDNESS TESTER

- Automatic turret
- Touch screen
- The hardness scale can be changed to Rockwell and Brinell scales

HVS10M

X-Y Stage**(Optional)**



Measuring System**(Optional)**

SPECIFICATION

Code	HVS10M	HVS50M
Test load	0.3, 0.5, 1, 2, 2.5, 3, 5, 10kgf	0.5, 1, 2, 2.5, 3, 5, 10, 20, 30, 50kgf
Stage elevation	manual	
Loading control	automatic(loading/dwell/unloading)	
Loading time	1-99s (adjustable)	
Objective	10X(observation), 20X(measurement)	
Eyepiece	10X	
Total magnification	100X(observation), 200X(measurement)	
Max. test height	160mm	
Max. throat	135mm	
X-Y stage(optional)	size: 100×100mm	
	travel range: 25×25mm	
	graduation: 0.01mm	
Dimension	530×280×630mm	
Weight	35kg	

INCLUDED ACCESSORIES

Main unit	1pc
10X,20X Objective	1pc.each
Indenter	1pc
Test block	2pcs
V-avail	1pc
Flat avail	2pcs
Level	1pc
Dustproof cover	1pc

OPTIONAL ACCESSORIES

Measuring system	HVS-MS
X-Y stage	HVS-STAGE

HVS1000MS/HVS1000MCNC AUTOMATIC MICRO-VICKERS HARDNESS TESTER

Certificate

- Mainly used for various metal parts and parts after thermal treatment Vickers hardness measurement. It is also suitable for the determination of effective hardening depth, coating and heat affected parts of welding parts.
- It can also be used to observe the metallographic structure of various metal parts and collect, display and print the image
- Automatic turret
- The hardness scale can be changed to Rockwell and Brinell scales

HVS1000MCNC

SPECIFICATION

Code	HVS1000MS	HVS1000MCNC
Measuring range	8-2900HV	
Test load	0.01, 0.025, 0.05, 0.1, 0.2, 0.3, 0.5, 1kgf	
Unit	HV0.01, HV0.025, HV0.05, HV0.1, HV0.2, HV0.3, HV0.5, HV1	
Stage elevation	Manual	Automatic
Focus	Manual	Automatic
Repeatability	±1.0%	
Loading control	automatic(loading/dwell/unloading)	
Loading time	1～99s	
Objective	10X(observation), 40X(measurement)	
Eyepiece	10X	
Total magnification	10X(observation), 40X(measurement)	
Camera pixel	5M	
Max. test height	160mm	
Max. throat	160mm	
X-Y stage	size: 150×150mm	
	travel range: 50×50mm	
	movement graduation: 0.001mm	
	movement speed: 1-10mm/s, adjustable	
	movement position repeatability: 1-3um	
	control: the software system can control the X-Y stage movement automatically by programming, click any point to set the random moving position	
Dimension	540×260×650mm	
Weight	50kg	

INCLUDED ACCESSORIES

Main unit	1pc
10X eyepiece	1pc
Camera	1pc
C-mount	1pc
Computer(with software)	1pc
USB dongle	1pc
Level	1pc
Test block	2pcs
X-Y stage	1pc
Controller	1pc
Vice	1pc
Slice holder	1pc
Cylinder holder	1pc
Touch screen pen	1pc
Dustproof cover	1pc

RBV150C ROCKWELL/BRINELL/VICKERS HARDNESS TESTER

Certificate
Data output

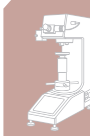
- For Rockwell, Brinell and Vickers testing
- Rockwell testing value gets from screen, and the Brinell and Vickers hardness gets from table in the operation manual

VIDEO


Small flat anvil


Large flat anvil


V-type anvil



SPECIFICATION

Load force for Rockwell	Preload force:98N, Total force: 588 , 980 ,1471 N
Rockwell resolution	0.1HR
Load force for Brinell	306, 613, 1839N
Load force for Vickers	294N
Stage elevation	manual
Loading control	motorized
Max. test height	175mm(Rockwell),100mm(Brinell), 115mm(Vickers)
Max. throat	165mm
Dimension	520×240×700mm
Weight	105kg

INCLUDED ACCESSORIES

Main unit	1pc
Ø1.5875mm ball carbide indenter	1pc
Diamond indenter for Rockwell	1pc
Ø5mm ball indenter for Brinell	1pc
Ø2.5mm ball indenter for Brinell	1pc
Indenter for Vickers	1pc
Small flat anvil for Rockwell	1pc

Large flat anvil for Rockwell	1pc
V-type anvil	1pc
HRC hardness test block	2pcs
HRB hardness test block	1pc
Brinell hardness test block	1pc
Vickers hardness test block	1pc
Dustproof cover	1pc

HL100 PORTABLE HARDNESS TESTER

Certificate AAA

- Large LCD display with backlight
- Based on HL scale, converted to other hardness scales (HV, HB, HRC, HRB, HS) and tensile strength MPa
- With wireless printer
- Can set impact direction
- With average value calculation function
- Automatic power off
- Conforms to the standard ASTM A956-02

VIDEO

Wireless printer (included)

Support ring (12pcs /set, optional)

SPECIFICATION

Resolution	1HLD, 1HV, 1HB, 0.1HRC, 0.1HRB, 1HS, 1MPa
Accuracy	±6HLD/0.6HRC(HLD=800)
Min. workpiece weight	>5kg (directly)
	>2kg (on solid support)
	>0.1kg (coupled on large plate)
Min. workpiece thickness	>5mm
Min. workpiece diameter	>22mm
Max. workpiece surface roughness	Ra<1.6μm
Power	3 x AAA batteries
Dimension	150 × 80× 24mm

INCLUDED ACCESSORIES

Main unit	1pc
Wireless printer	1pc
Test block	1pc
Small support ring	1pc
Brush	1pc
Charger for printer	1pc

OPTIONAL ACCESSORIES

Support ring (12pcs /set)	**HL-SP**

HL200 PORTABLE HARDNESS TESTER

Certificate Data output Charge

- Touch screen, with backlight
- Based on HL scale, converted to other hardness scales (HV, HB, HRC, HRB, HS) and tensile strength Mpa
- With wireless printer
- Can set impact direction
- Memory : 500
- Low and high limits with judgement
- Automatic power off
- Conforms to the standard ASTM A956-02

VIDEO

Wireless printer (included)

Support ring (12pcs /set, **optional**)

DC(optional) C(optional) D(included) D+15(optional) DL(optional) G(optional)

SPECIFICATION

Resolution	1HLD, 1HV, 1HB, 0.1HRC, 0.1HRB, 1HS, 1MPa
Accuracy	±6HLD/0.6HRC(HLD=800)
Min. workpiece weight	>5kg (directly)
	>2kg (on solid support)
	>0.1kg (coupled on large plate)
Min. workpiece thickness	>5mm
Min. workpiece diameter	>22mm
Max. workpiece surface roughness	Ra<1.6μm
Power	Rechargeable battery
Dimension	135×83×24mm

INCLUDED ACCESSORIES

Main unit	1pc
Wireless printer	1pc
Test block	1pc
Small support ring and brush	1pc.each
USB cable and software	1pc
Charger	2pcs

OPTIONAL ACCESSORIES

Impact device DC	**HL200-DC**
Impact device C	**HL200-C**
Impact device D+15	**HL200-D15**
Impact device DL	**HL200-DL**
Impact device G	**HL200-G**
Support ring (12pcs /set)	**HL-SP**

HL350 PORTABLE HARDNESS TESTER

AAA

- Economic type
- Based on HL scale, converted to other hardness scales (HV, HB, HRC, HRB, HS) and tensile strength MPa
- Impact direction cab be set
- With average value calculation function
- Conforms to the standard ASTM A956-02

SPECIFICATION

Resolution	1HLD, 1HV, 1HB, 0.1HRC, 0.1HRB, 1HS, 1MPa
Accuracy	±8HLD/0.8HRC(HLD=800)
Min. workpiece weight	5kg (directly)
	2kg (on solid support)
	0.1kg (coupled on large plate)
Min. workpiece thickness	5mm
Min. workpiece diameter	22mm
Max. workpiece surface roughness	1.6μm(Ra)
Power	3 xAAA batteies
Dimension	121×68×30mm

INCLUDED ACCESSORIES

Main unit	1pc
Test block	1pc
Small support ring	1pc
Brush	1pc
Batteries	3pcs

HL400 PORTABLE HARDNESS TESTER

Certificate Data output AAA

- Based on HL scale, converted to other hardness scales (HV, HB, HRC, HRB, HS) and tensile strength MPa
- Impact direction cab be set
- With average value calculation function
- Automatic power off
- Conforms to the standard ASTM A956-02

VIDEO

SPECIFICATION

Resolution	1HLD, 1HV, 1HB, 0.1HRC, 0.1HRB, 1HS, 1MPa
Accuracy	±6HLD/0.6HRC(HLD=800)
Min. workpiece weight	5kg (directly)
	2kg (on solid support)
	0.1kg (coupled on large plate)
Min. workpiece thickness	5mm
Min. workpiece diameter	22mm
Max. workpiece surface roughness	1.6μm(Ra)
Power	3 xAAA batteries
Dimension	150 × 80× 24mm

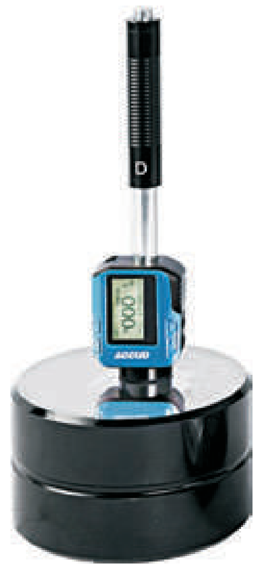
INCLUDED ACCESSORIES

Main unit	1pc
Test block	1pc
Small support ring	1pc
Brush	1pc
USB cable	1pc
Batteries	3pcs

HL450 PORTABLE HARDNESS TESTER

Charge

- Pocket size, easy to carry
- Based on HL scale, converted to other hardness scales (HV, HB, HRC, HRB, HS) and tensile strength MPa
- Impact direction can be set
- With average value calculation function
- Conforms to the standard ASTM A956-02



SPECIFICATION

Resolution	1HLD, 1HV, 1HB, 0.1HRC, 0.1HRB, 1HS, 1MPa
Accuracy	±6HLD/0.6HRC(HLD=800)
Min. workpiece weight	5kg (directly)
	2kg (on solid support)
	0.1kg (coupled on large plate)
Min. workpiece thickness	5mm
Min. workpiece diameter	30mm
Max. workpiece surface roughness	1.6μm(Ra)
Output	USB and wireless (connected printer)
Power supply	rechargeable battery
Dimension	147×35×22mm
Weight	65g

INCLUDED ACCESSORIES

Main unit	1pc
Test block	1pc
Small support ring	1pc
Wireless printer	1pc

Brush	1pc
Charger	1pc

GY-2 FRUIT HARDNESS TESTER

- Used to measure the hardness of some fruit like apples, pears
- Hardness can judge ripeness of the fruit

SPECIFICATION

Range	0.5-4kg/cm²(0.5-4x10^5pa)
Graduation	0.02kg/cm²(0.02x10^5pa)
Accuracy	±2%
Probe diameter	Ø3.5mm
Probe depth	10mm
Dimension	151x55x30mm
Weight	220g

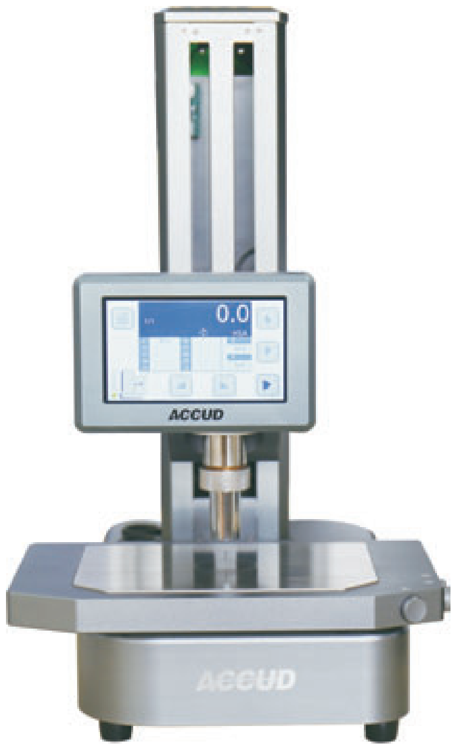
INCLUDED ACCESSORIES

Main unit	1pc
Probe	1pc

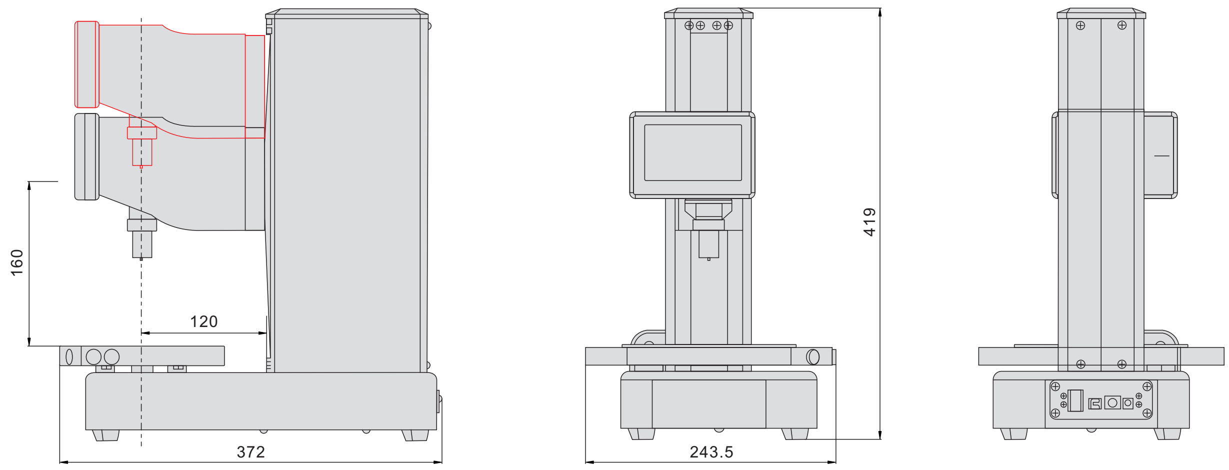
HSC AUTOMATIC SHORE HARDNESS TESTER

Certificate
Data output

- Put the workpiece under the indenter, and press one button, the measuring results will be shown soon
- Can measure plastic, rubber, sponge with different hardness
- Include three indenters (type A, D, OO)
- Touch screen
- With data output



unit: mm



SPECIFICATION

Probe moving range	160mm
Stage moving range(X)	80mm
Loading control	Stepping motor
Loading force	Spring force
Max. workpiece height	120mm
Accuracy	±1
Resolution	0.1
Output	USB
Power supply	DC24V/5A

INCLUDED ACCESSORIES

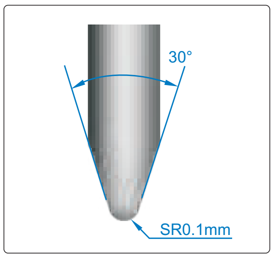
Main unit	1pc
AD/DC adapter	1pc
Software and USB cable	1pc.each
A/D/OO indenter	1pc.each
Calibration block	2pcs

SERIES HS DIGITAL SHORE HARDNESS TESTER

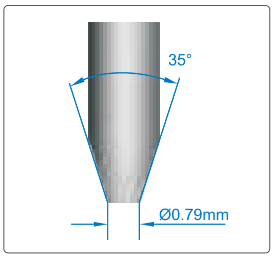
Certificate Data output Charge

VIDEO

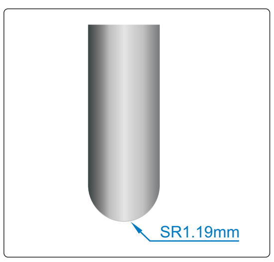
- Conforms to ISO868, ISO7619, ASTM D 2240
- Testing time is adjustable
- With average calculation function



HS5D indenter

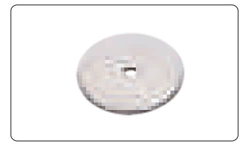


HS1A indenter



HSOO indenter

HS1A


Standard block (included)


PR100 printer **(optional)**


Standard **(optional)**

SPECIFICATION

Code	HS1A	HS5D	HSOO
Scale	HA(Shore A)	HD(Shore D)	HOO(Shore OO)
For material	soft plastic, rubber, leather, etc.	hard plastic, hard rubber, etc.	soft sponge, soft rubber, etc.
Measuring range	20~90HA	20~90HD	20~90HOO
Resolution	0.1HA	0.1HD	0.1HOO
Accuracy	±1HA	±1HD	±1HOO
Indenter protrusion	2.5mm		
Power	rechargeable battery		
Weight	180g		

INCLUDED ACCESSORIES

Main unit	1pc
Standard block	1pc
Charger	1pc
Software	1pc

OPTIONAL ACCESSORIES

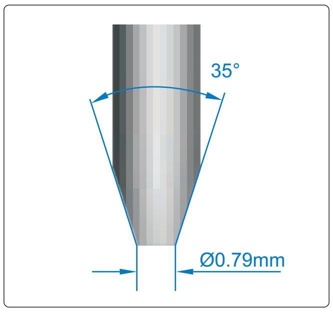
Printer	**PR100**
Stand for HS1A	**HS-1A-STD**
Stand for HS5D	**HS-5D-STD**

SER ESHSM SHORE HARDNESS TESTER

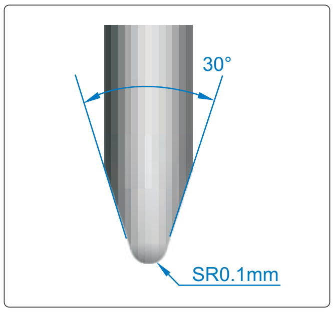
- Conforms to ISO868, ISO7619, ASTM D 2240
- With peak value indicator

HSM-1A-ST stand (optional)

HSM1A



HSM1A indenter



HSM5D indenter

SPECIFICATION

Code	HSM1A	HSM5D
Scale	HA(Shore A)	HD(Shore D)
For material	soft plastic, rubber, leather, etc.	hard plastic, hard rubber, etc.
Measuring range	20~90HA	20~90HD
Graduation	1HA	1HD
Accuracy	±1HA	±1HD
Indenter protrusion	2.5mm	
Weight	500g	

OPTIONAL ACCESSORIES

Stand for HSM1A	HSM-1A-ST
Stand for HSM5D	HSM-5D-ST

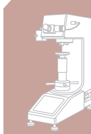
UHT200 ULTRASONIC HARDNESS TESTER

Certificate Data output Charge

- Mainly used for small or thin-walled products as well as parts of complex shape or with areas that need to be tested in hard-to-reach places
- With a shockproof silicone case that prevents the device from malfunctioning
- Hardness scales: HV, HB, HRC and tensile strength Mpa
- Memory : 256
- Automatic power off
- With special software for data processing


Measure gear teeth


Measure small part



SPECIFICATION

Measuring range	HRC	20-70
	HB	90-650
	HV	230-940
	Mpa	370-1740
Accuracy	HRC	±1.5
	HB	±3%
	HV	±3%
Min. workpiece thickness		1mm
Min. workpiece diameter		5mm
Max. workpiece surface roughness		Ra : 2.5μm
Min. thickness of surface hardening layer		0.1mm
Min. test area		Ø1mm
Power supply		Rechargeable battery
Dimension		122×65×24mm

INCLUDED ACCESSORIES

Main unit	1pc
Probe (50N)	1pc
Rechargeable battery	2pcs
USB cable and software	1pc.each
Charger	1pc

HARDNESS

HB937-1 BARCOL HARDNESS TESTER

Certificate

- To measure the hardness of thick workpieces made of pure aluminum, aluminum alloy, fiber reinforced plastic, hard plastic, etc.
- Comforms to ASTM B648-2000

SPECIFICATION

Hardness range	0 ~ 100HBa (25 ~ 150HBW)
Graduation	1HBa
Accuracy	±2HBa (42 ~ 52HBa) ±1HBa (84 ~ 88HBa)
Min. workpiece thickness	0.8mm
Dimension	142×65×90mm
Weight	500g

INCLUDED ACCESSORIES

Main unit	1pc
Spare indenter	2pcs
Hardness test block	2pcs
Wrench	1pc

SERIES HW WEBSTER HARDNESS TESTER

- To measure the hardness of soft metal such as aluminum alloy, copper, brass, soft steel
- Conforms to the standard ASTM B647


HW-L20

SPECIFICATION

Code	**HW-L20**	**HW-L20A**	**HW-L20B**	**HW-B75**	**HW-C75**	**HW-B92**
Application	aluminum alloy			hard aluminum alloy and brass	soft brass and copper	soft steel and cold-rolled steel
Measuring hardness range	58-131HV			63-105HRF	18-100HRE	50-92HRB
Thickness range to be measured of flat workpiece	0.4 ~ 6mm	0.4 ~ 13mm	0.4 ~ 8mm	0.4 ~ 6mm	0.4 ~ 6mm	0.4 ~ 6mm
Min. Internal diameter of tube workpiece	Ø10mm	Ø10mm	Ø6mm	Ø10mm	Ø10mm	Ø10mm
Hardness range	0 ~ 20HW					
Min. reading	1HW					
Accuracy	±0.5HW (at 5 ~ 17HW)					
Dimension	205×30×85mm					
Weight	500g					

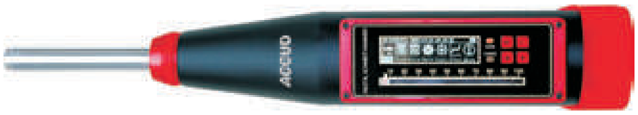
INCLUDED ACCESSORIES

Main unit	1pc	**Hardness test block**	1pc
Spare indenter	1pc	**Wrench**	1pc

STE70 DIGITAL REBOUND TESTER

Charge

- Measure the strength of general building com ponents, bridges andvarious concrete components (slabs, beams, columns, bridges and so on.)
- Built in national unified curve (JGJ/T23-2011)
- Small size, modular design, easy to use
- Built in large capacity memory, can store 999 standard components, and a single component can set up 99 measuring areas and 159840 measuring point data



SPECIFICATION

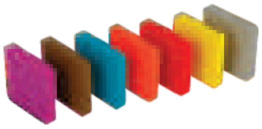
Measuring range	10-60Mpa
Impact energy	2.207J
Accuracy	±1
Sifness of spring	785±30N.m
Working length of spring	61.5±0.3mm
Tensile length of spring	75±0.3mm
Rated value of steel anvil	80±2
Operating temperature	-4˚C-40˚C
Display	2.08 inch OLED display
Power supply	rechargeable battery
Weight	1.1kg

INCLUDED ACCESSORIES

Main nuit	1pc
Sander	1pc
Spare spring	1set
Screwdriver	3pcs
Software and cable	1set
AD/DC adapter	1pc

SERIES BLK STANDARD HARDNESS BLOCK

Rockwell/Vickers/Brinell



Shore A

Leeb

SPECIFICATION

Code	Type	Hardness
BLK-HRC1	Rockwell C	60-70HRC
BLK-HRC2		20-30HRC
BLK-HRB1	Rockwell B	85-95HRB
BLK-HRB2		60-70HRB
BLK-HV1	Vickers	700-800HV5
BLK-HV2		700-800HV10
BLK-HV3		400-600HV5
BLK-HV4		400-600HV10
BLK-HB1	Brinell	150-250HBW 10/3000
BLK-HB2		150-250HBW 5/750
BLK-HLD	Leeb	750-830HLD
BLK-HSA	Shore A	7pcs/set: 30-39HA, 40-49HA, 50-59HA, 60-69HA, 70-79HA, 80-89HA, 90-99HA

ACCUD

RN1000 ROUNDNESS TESTER

- High precision air-floating spindle, never wear, can keep high accuracy for long time
- High accuracy and good stability
- Large arc can be measured
- Automatic identification of contour discontinuities, can eliminate automatically or manually

SPECIFICATION

Measuring range	Max. dia.	Ø180mm
	Min. inner dia.	Ø5mm
	Max. height	420mm
Spindle accuracy	Radial error	±(0.025+5H/10000)μm
	Axial error	±(0.02+6X/10000)μm
Stage	Stage dia.	Ø180mm
	Rotation dia.	Ø300mm
	Max. load weight	25kg
	Adjustment range	adjust the eccentricity: ±2mm; adjust the level:±1°
	Rotation speed	0-12 rpm(adjustable)
Horizontal arm	Horizontal moving distance	150mm
	Probe moving speed	0.5-6mm/s (adjustable)
Sensor	Range	500μm
	Resolution	0.005μm
	Stylus	Ø2mm ruby ball
	Measuring force	1-12g
Air source		0. 45-0.80Mpa
Air consumption		0.2m³/min
Power supply		110~220V
Dimension		920x530x1600mm

INCLUDED ACCESSORIES

Main unit	1pc
Stage	1pc
Precision chuck	1pc
Standard ball	1pc
Standard elliptical part	1pc
Probe	1pc

OPTIONAL ACCESSORIES

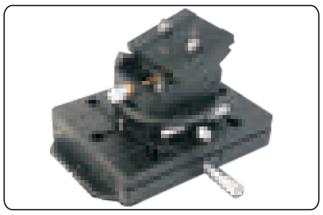
Computer	1pc
Printer	1pc
Anti-dust cover	1pc

ROUGHNESS

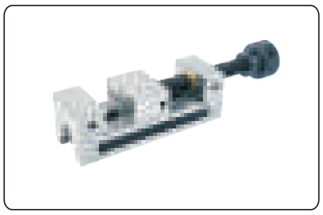
RP100RS PROFILE AND ROUGHNESS MEASURING MACHINE

Certificate

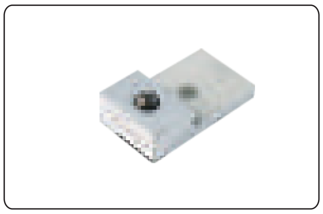
- Measure the surface profile and roughness with same probe at same time
- With high precision and good linearity digital probe
- Easy to install and replace without calibration
- Stylus can contact, lift and return automatically
- CAD file can be exported and imported



stage

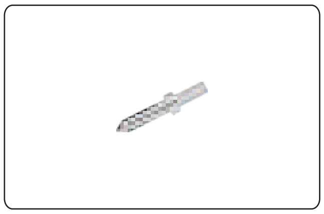


vice

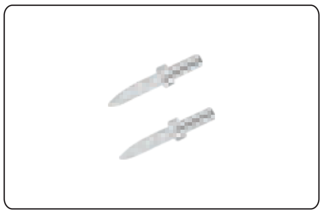


profile calibration block

roughness calibration block



Φ3*20mm point stylus



Φ3*21mm knife stylus

RP100RS PROFILE AND ROUGHNESS MEASURING MACHINE

SPECIFICATION

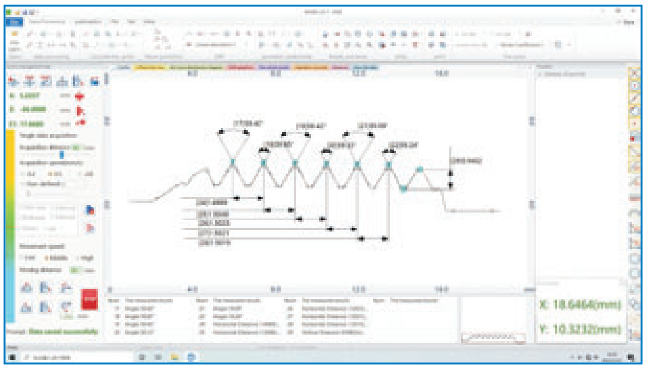
Roughness parameter		Ra, Rq, Rz(Ry), R3z, Rz(DIN), Rz(JIS), Rz(ISO),Rp, Rv, Rt, Rsk, Rsm, Rc, Rpm, Rku, Rdq, Roc, Mr1, Mr2, Rpk, Rvk, Rk, Rdc, A1, A2, R, Rx, AR, Rcp, Rmax
Wave parameter		wt, wa, wp, wv, wq, wc, wku, wsk, w, wx, wz, wsm, wdc, wte, wmr, Aw, c(wmr), wmr(c), wdq
Profile parameter		Pt, Pa, Pp, Pv, Pq, Pc, Pku, Psk, Pdq/p△q, Psm, Pdc, Pmr(c), Pz, pmr, C(pmr)
Profile	X axis range	100mm
	X axis straightness	0.8μm/100mm
	Z axis range	650mm
	Z1 axis range (probe)	40mm
	Accuracy	±(1+0.12H)um, H is measuring height in mm
	Measuring arc accuracy	±(1.2+R/8)um, R is measuring radius in mm
	Measuring angle accuracy	±1.5'
Roughness	Z1 axis range (probe)	40mm
	Accuracy	±5%
	Repeatability	±3%
	Resolution	0.0001um
	Number of cut-offs	3-7
	Cut off	0.025, 0.08, 0.25, 0.8, 2.5, 8mm
Climbing ability		77°(up), 88°(down)
Measuring speed		0.02mm- 4.0mm/s
Measuring mode		probe movement
Movement control		joystick
Power supply		220V
Size		985x710x1450mm

INCLUDED ACCESSORIES

Main unit	1pc
Profile calibration block	1pc
Roughness calibration block	1pc
Stage	1pc
Vise	1pc
Φ3x21mm R0.025mm knife stylus	2pcs

Φ3x20mm R5μm point stylus	1pc
Φ8x150mm measuring rod	1pc
Computer	1pc
Printer	1pc
Anti-dust cover	1pc

Measuring profile



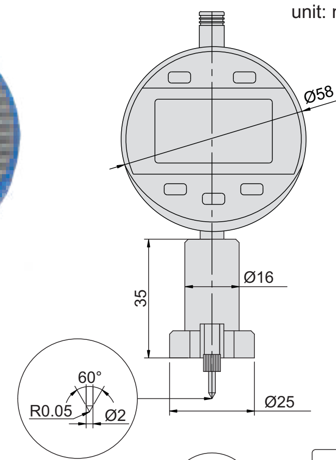
Measuring roughness

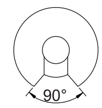
489 DIGITAL SURFACE PROFILE GAUGE

Data output CR2032

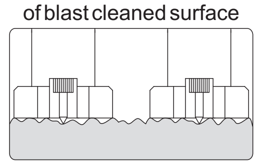
- Measure peak-to-valley height of blast cleaned surface.
  If the profile is too low, the adhesion of the coating to the surface will be reduced.
  If the profile is too high, it is dangerous that the profile peaks will remain non-coating, rust spots maybe occur.
- Meet ASTM D4417-B
- Zero set block is included, set zero before measurement
- Buttons: tolerance Go and No-Go display, data preset, measuring direction change, max./min./TIR measurement, inch/metric conversion, ABS/INC measurement
- Automatically power off (time is adjustable)
- Data output (cable code:200-03 or 200-04)
- Stainless steel base

unit: mm

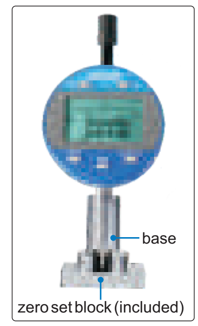




measure peak-to-valley height of blast cleaned surface



Set zero



zero set block (included)

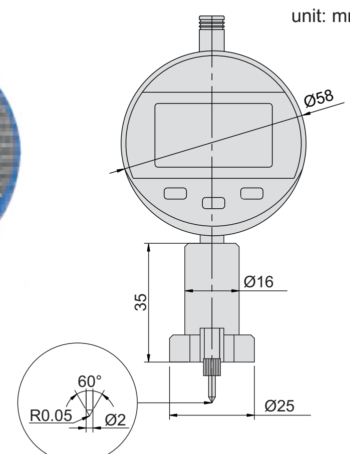
Code	Range	Digital indicator stroke	Digital indicator resolution	Accuracy
489-010-01	0-12.7mm/0-0.5"	12.7mm/0.5"	0.001mm/0.00005"	±0.005mm

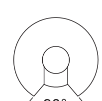
489 DIGITAL SURFACE PROFILE GAUGE

Data output CR2032

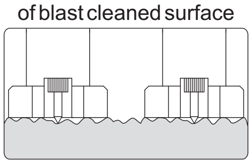
- Measure peak-to-valley height of blast cleaned surface.
  If the profile is too low, the adhesion of the coating to the surface will be reduced.
  If the profile is too high, it is dangerous that the profile peaks will remain non-coating, rust spots maybe occur.
- Meet ASTM D4417-B
- Zero set block is included, set zero before measurement
- Buttons: on/off,zero, mm/inch, ABS/INC measurement
- Automatically power off (time is adjustable)
- Data output (cable code:200-03 or 200-04)
- Stainless steel base

unit: mm

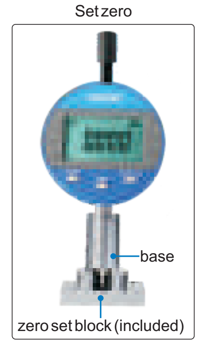




measure peak-to-valley height of blast cleaned surface



Set zero

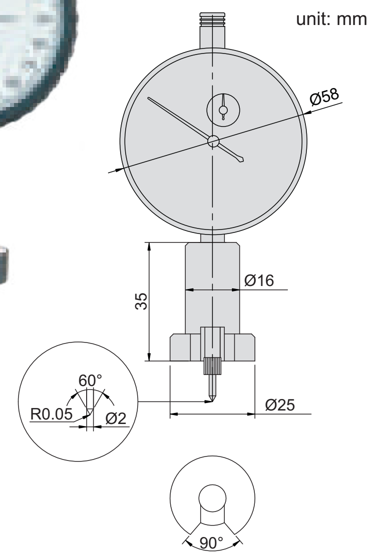


zero set block (included)

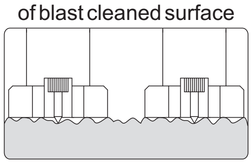
Code	Range	Digital indicator stroke	Digital indicator resolution	Accuracy
489-010-02	0-12.7mm/0-0.5"	12.7mm/0.5"	0.001mm/0.00005"	±0.005mm

489 SURFACE PROFILE GAUGE

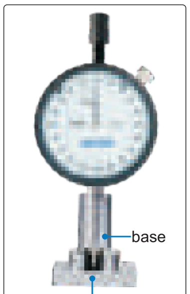
- Measure peak-to-valley height of blast cleaned surface.
  If the profile is too low, the adhesion of the coating to the surface will be reduced.
  If the profile is too high, it is dangerous that the profile peaks will remain non-coating, rust spots maybe occur.
- Meet ASTM D 4417-B
- Zero set block is included, set zero before measurement
- Stainless steel base



measure peak-to-valley height
of blast cleaned surface



Set zero



Code	Range	Dial indicator stroke	Dial indicator graduation	Accuracy
489-001-01	0-1mm	1mm	0.001mm	±0.005mm

SR110 ROUGHNESS TESTER

Certificate
Charge

- Pocket size
- Automatic power off

SPECIFICATION

Parameters		Ra, Rz, Rq, Rt
Range (Ra)		±10μm
Accuracy		±15%
Resolution (Ra)		0.001μm
Probe	type	piezoelectric
	stylus radius/angle	10μm/90°
	stylus material	diamond
Measuring force		0.5N
Measuring unit		μm/μin
Cut off		0.25/0.8/2.5mm
Evaluation length		1.25/4/5mm
Power		built-in rechargeble battery
Dimension(L×W×H)		114×82×33mm
Weight		160g

INCLUDED ACCESSORIES

Main unit	1pc
Calibration block	1pc
Calibration support	1pc
USB cable	1pc
AC/DC adapter	1pc

SR200 ROUGHNESS TESTER

VIDEO

Certificate

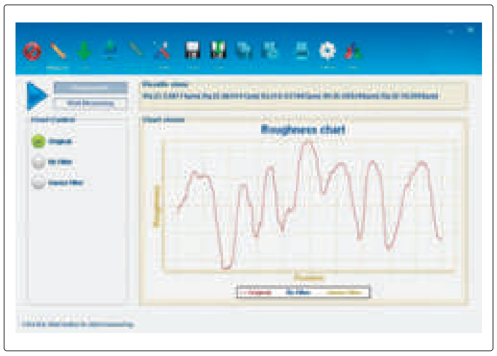
Data output

Charge

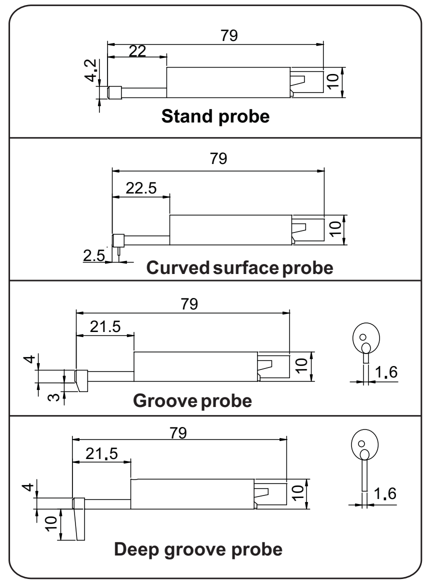
- 13 roughness parameters
- With probe position indicator
- Roughness values, profile, and curve can be shown on the display
- Memory of maximum 100 results
- With a mini SD card slot, can save the result into SD card
- Automatic power off

unit: mm

SR200-STD Stand(optional)



Measuring software



SPECIFICATION

Parameters		Ra, Rz, Ry,Rq, Rp, Rm, Rt, R3z, Rmax, Sk, S, Sm, tp
Range		160µm(±80µm)
Accuracy		±10%
Resolution (Ra)		0.001µm
Probe	**type**	inductive
	stylus radius/angle	5µm/90°
	stylus material	diamond
Measuring force		0.4mN
Measuring unit		µm/µin
Cut off		0.25/0.8/2.5mm
Number of cut-offs		1-5
Traverse speed		0.5mm/s, 1mm/s
Memory		100 measurement results
Output		USB
Power		built-in rechargeble battery
Dimension(L×W×H)		140×52×48mm
Weight		440g

INCLUDED ACCESSORIES

Main unit	1pc
Standard probe	1pc
Calibration block	1pc
Calibration support	1pc
Adjustable stand	1pc
Probe cover	1pc
USB cable and software	1pc
AC/DC adapter	1pc
Software	1pc

OPTIONAL ACCESSORIES

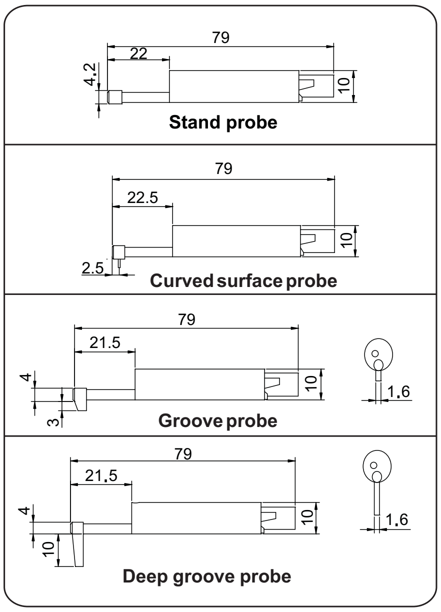
Extension rod	**SR200-ER**
Curved surface probe	**SR200-02**
Groove probe	**SR200-03**
Deep groove probe	**SR200-04**
Test stand	**SR200-STD**
Printer	**SR200-PR**

SR300 ROUGHNESS TESTER

Certificate Data output Charge

- Pocket size
- With a tablet, can set the parameter quickly
- Connected with tablet via bluetooth
- Roughness values, profile, and curve can be shown on the display

unit: mm



Measuring software

SPECIFICATION

Parameters		Ra, Rz, Ry,Rq, Rp, Rm, Rt R3z, Rmax, Sk, S, Sm, tp
Range(Ra)		0.025-12.5μm
Accuracy		±10%
Resolution (Ra)		0.001μm
Probe	**type**	inductive
	stylus radius/angle	5μm/90°
	stylus material	diamond
Measuring force		0.4mN
Measuring unit		μm/μin
Cut off		0.25/0.8/2.5mm
Number of cut-offs		1-5
Traverse speed		0.5mm/s, 1mm/s
Output file format		Word, Excel
Power		built-in rechargeble battery
Dimension(L×W×H)		130×40×44mm
Weight		340g

INCLUDED ACCESSORIES

Main unit	1pc
Standard probe	1pc
Tablet	1pc
Calibration block	1pc
Calibration support	1pc
USB cable	1pc
AC/DC adapter	1pc

OPTIONAL ACCESSORIES

Extension rod	**SR200-ER**
Curved surface probe	**SR200-02**
Groove probe	**SR200-03**
Deep groove probe	**SR200-04**
Test stand	**SR200-STD**
Printer	**SR200-PR**

SR210 ROUGHNESS TESTER

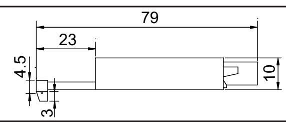
Certificate
Data output
Charge

- The probe can be working with the main unit separately
- 22 roughness parameters
- With probe position indicator
- Roughness values, profile, and curve can be shown on the display
- Memory of maximum 100 results
- Automatic power off

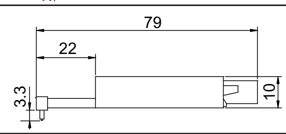
VIDEO

unit: mm

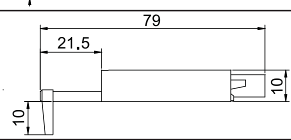
Stand probe



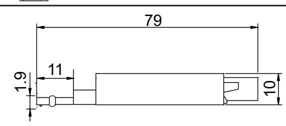
Curved surface probe
(for concave >Ø10mm, convetity>Ø15mm)



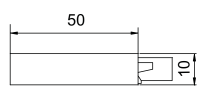
Groove probe
(groove height<10mm)



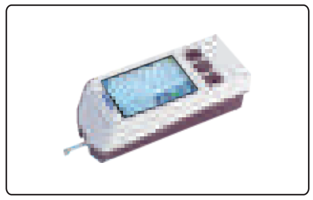
Small hole probe
(hole dia. >2mm)



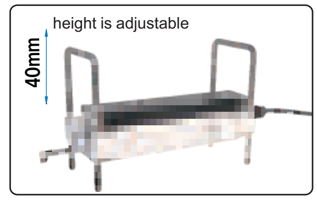
Extension rod



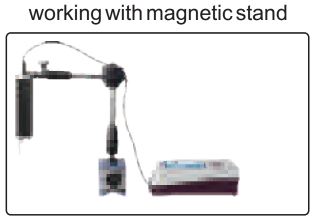
Work together



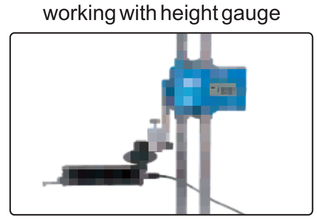
Adjustable stand(included)



working with magnetic stand



working with height gauge



INCLUDED ACCESSORIES

Parameters		Ra, Rz, Rq, Rp, Ry, Rv, Rs, R3z, R3y, Rc, Rt, Rmax, Rk, Rku, Rsm, Rpc, Rpk, Rvk, Rsk, Mr1, Mr2, Rz(JIS)
Range		±160μm
Accuracy		±10%
Resolution(Ra)		0.001μm
Probe	**type**	inductive
	stylus radius/angle	5μm/90°
	stylus material	diamond
Measuring force		4mN
Measuring unit		μm/μin
Cut off		0.25/0.8/2.5mm
Number of cut-offs		1-5
Traverse speed		0.5mm/s, 1mm/s
Memory		100 measurement results
Output		USB
Power		built-in rechargeble battery
Dimension(L×W×H)		158×64×52mm
Weight		400g

INCLUDED ACCESSORIES

Main unit	1pc
Standard probe	1pc
Calibration block	1pc
Calibration support	1pc
Adjustable stand	1pc
Cable(long and short)	2pcs
USB cable and software	1pc
AC/DC adapter	1pc

OPTIONAL ACCESSORIES

50mm extension rod	**SR400-ER**
Curved surface probe	**SR400-02**
Deep groove probe	**SR400-03**
Small hole probe	**SR400-04**
Printer	**SR400-PR**
Connector for height gage	**SR400-SP1**
Connector for magnetic stand	**SR400-SP2**

RC30 SURFACE ROUGHNESS SPECIMEN

- For checking, identifying and specifying the roughness by symbol
- Accuracy: -17% ~ +12%

Machining method	Quantity	Roughness (Ra)
Flat lapping	2	0.1, 0.05μm
External grinding	4	0.2, 0.4, 0.8, 1.6μm
Plain grinding	6	0.05, 0.1, 0.2, 0.4, 0.8, 1.6μm
Horizontal milling	6	0.4, 0.8, 1.6, 3.2, 6.3, 12.5μm
Vertical milling	6	0.4, 0.8, 1.6, 3.2, 6.3, 12.5μm
Turning	6	0.4, 0.8, 1.6, 3.2, 6.3, 12.5μm

ST100A ULTRASONIC THICKNESS GAUGE

Charge

- Measure the thickness of tank, pipe and big workpiece
- LCD with backlight

VIDEO

SPECIFICATION

Measuring range	1.2-225mm(steel)
Graduation	0.01mm(<100mm)
	0.1mm(≥100mm)
Repeatability	0.05mm(<100mm)
	0.1mm(≥100mm)
Accuracy	±0.5%L+0.04mm
	L is the thickness in mm
Velocity	1000-9999m/s
Min.measured tube	Ø20×3mm
Power	rechargeable battery
Dimension	64×116×27mm
Weight	220g

INCLUDED ACCESSORIES

Main unit	1pc
Transducer	1pc
Battery	1 set
Couplant	1 bottle
Brush	1pc

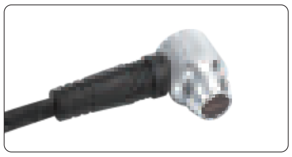
ST200 ULTRASONIC THICKNESS GAUGE

AAA

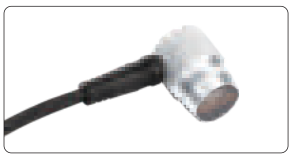
Data output

- Measure the thickness of tank, pipe and big workpiece
- LCD with backlight

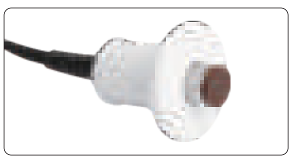
VIDEO



Transducer **PT-06** **(optional)**



Transducer **ZT-12** **(optional)**



Transducer **GT-12** **(optional)**

SPECIFICATION

Graduation	0.01mm(<100mm)
	0.1mm(≥100mm)
Repeatability	0.03mm(<100mm)
	0.1mm(≥100mm)
Accuracy	±0.04mm (<10mm)
	±(0.04+H/1000)mm (10~100mm)
	±H/333mm (≥100mm)
	H is the thickness in mm
Velocity	1000-9999m/s
Power	3×AAA batteries
Dimension	64×116×27mm
Weight	220g

INCLUDED ACCESSORIES

Main unit	1pc
Transducer PT-08	1pc
AAA battery	3pcs
Couplant	1bottle
USB cable	1pc

OPTIONAL ACCESSORIES

Transducer	**PT-06, ZT-12, GT-12**

SPECIFICATION OF TRANSDUCERS

Code	Application	Range	Frequency	Min. pipe dimension diamater×thickness	Working temperature
PT-08	general use	0.8-300mm	5.0MHz	20×1.2mm	<60°C
PT-06	thin workpiece	0.75-40mm	7.5MHz	15×1.2mm	<60°C
ZT-12	casting steel	2-400mm	2.0MHz	30×4mm	<60°C
GT-12	high temperature	3-100mm	5.0MHz	25×3mm	<310°C

CN/CF/CFN1500 COATING THICKNESS GAUGE

Certificate | Data output | AAA

- F type probe is used to measure the thickness of non-magnetic coatings (zinc, copper, enamel, plastic and so on) on magnetic subtracts (iron, steel)
  N type probe is used to measure the thickness of non-conductive coatings (varnish ,enamel, plastic and so on) on conductive subtracts (zinc, copper, aluminum)
- External interchangeable probe
- Single and continuous working mode
- Low and high limits setting with judgement
- With average calculation
- With comparison measurement function
- With temperature compensation
- Turn off automatically

VIDEO

CN1500

SPECIFICATION

Code	CF1500	CN1500	CFN1500
Probe type	F	N	F and N
Range	0~1500μm		
Accuracy	2μm (0~100μm)		
	2%(100~1500μm)		
Resolution	0.1μm (0~999μm)		
	1μm (1000~1250μm)		
Memory	500		
Power	3×AAA batteries		
Dimension(L×W×H)	150×50×29mm		
Weight	170g		

INCLUDED ACCESSORIES

Main unit	1pc
Calibration foil	1set
Calibration base	1set
USB cable	1pc
AAA battery	3pcs

CFN1500B COATING THICKNESS GAUGE

Certificate AAA

VIDEO

- Integrated F and N type probe
- F type probe is used to measure the thickness of non-magnetic coatings (zinc, copper, enamel, plastic and so on) on magnetic subtracts (iron, steel)
  N type probe is used to measure the thickness of non-conductive coatings (varnish ,enamel, plastic and so on) on conductive subtracts (zinc, copper, aluminum)
- Large display screen
- V-type probe to make the cylinder measurement easier
- With um/mil unit conversion
- Automatic power on/ off
- With back light

SPECIFICATION

Range	0～1500μm
Accuracy	2μm(0～100μm)
	3%(100～1500μm)
Resolution	0.1μm (0～99.9μm)
	1μm (100～1500μm)
Min. measuring area	25×25mm
Min. curvature	convexity: 5mm; concave: 30mm
Min substrate thickness	magnetic material: 0.2mm; non magnetic material: 0.05mm
Memory	30 sets
Power supply	AAA batteries
Dimension(L×W×H)	120×52×26mm
Weight	170g

INCLUDED ACCESSORIES

Main unit	1pc
Calibration foil	1set
Calibration base	1set
AAA battery	2pcs

CF/CN1250 COATING THICKNESS GAUGE

Certificate AAA

- F type probe: measure the thickness of non-magnetic coatings (zinc, copper, enamel, plastic and so on) on magnetic subtracts (iron, steel)
  N type probe: measure the thickness of non-conductive coatings (varnish ,enamel, plastic and so on) on conductive subtracts (zinc, copper, aluminum)
- V-type probe to measure the cylinder easier
- Single and continuous working mode
- Low and high limits setting with judgement
- With average calculation function

VIDEO

CF1250

SPECIFICATION

Code	CF1250	CN1250
Probe type	F	N
Range	0~1250μm	
Accuracy	2μm(0~100μm)	
	2%(100~1250μm)	
Resolution	0.1μm (0~999μm)	
	1μm (1000~1250μm)	
Memory	500	
Power supply	3xAAA batteries	
Dimension(L×W×H)	150×50×29mm	
Weight	170g	

INCLUDED ACCESSORIES

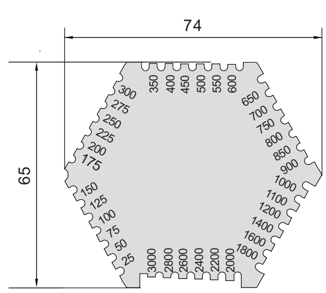
Main unit	1pc
Calibration foil	1set
Calibration base	1pc
AAA battery	3pcs

SERIES 740 WET FILM GAUGE

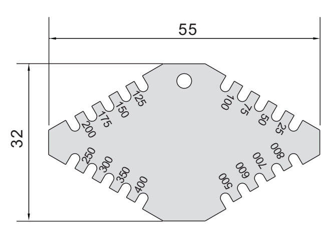
- Made of stainless steel

740-300-01

740-800-11



unit: mm



Code	Range	Accuracy	Thickness
740-800-11	25-800μm	±5μm	1.8mm
740-300-01	25-3000μm	25μm-100μm:±5μm 100μm-3000μm:±5%	1mm

THICKNESS

HTC-1 TEMPERATURE METER

AAA

VIDEO

SPECIFICATION

Temperature range	-20˚C-60˚C
Temperature accuracy	1%
Temperature resolution	0.1 ˚C
Humidity range	10%RH-99%RH
Humidity accuracy	5%
Humidity resolution	1%
Power supply	AAA battery
Dimension	98×106×20 mm
Weight	50g

INCLUDED ACCESSORIES

Main unit	1pc
Battery	1pc

HTC-70 TEMPERATURE METER

IP67 AAA

- External probe
- Probe is IP67 protection level, can measure the water temperature in fish tank

SPECIFICATION

Temperature range	-5˚C-70˚C
Temperature accuracy	±1 ˚C
Temperature resolution	0.1 ˚C
Humidity range	10%RH-99%RH
Humidity accuracy	5%
Humidity resolution	1%
Power supply	AAA battery
Dimension	98×120×21 mm
Weight	60g

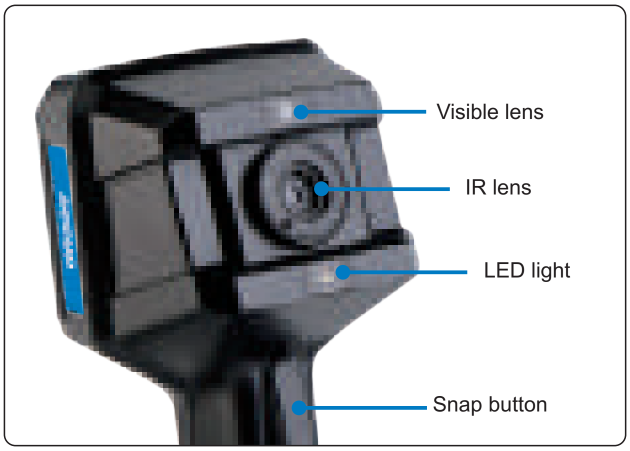
INCLUDED ACCESSORIES

Main unit	1pc
Battery	1pc

ITC450 INFRARED THERMAL IMAGING CAMERA

WIFI IP54 Charge

- Trigger button for taking pictures
- The IR image can be mixed with visible image
- Built-in 5000mA rechargable battery
- With USB/ WIFI data output interface
- With measuring software
- Menu in Chinese, English, Spanish, French, Japanese, Korean, Russian, Arabian



SPECIFICATION

IR image	Resolution	220x160
	Measuring range	-10°C - 450°C
	Accuracy	±2°C(<100°C), 2%(≥100°C)
	Detector	8-14um
	Frame rate	9Hz
	Field of view	Horizontal :56°, vertical:42°
	Lens	Ø4mm
	Measuring method	Max, Min, center spot and average
	Emissivity	0.1-1(adjustable)
	Color palettes	8 types
Visible camera	Resolution	640x480
	Frame rate	25Hz
	Illumination	LED
Screen size		3.5 inch
Image		outline fusion, overylay fusion, picture in picture, IR image, visible
Data output		USB/WIFI
Image storage		8G, can save 20,000 pictures
Image format		TIFF
Working temperature		-10°C-50°C
Protection level		IP54
Power supply		Rechargable battery, for 5 hours working
Size		230×100×90mm
Weight		420g

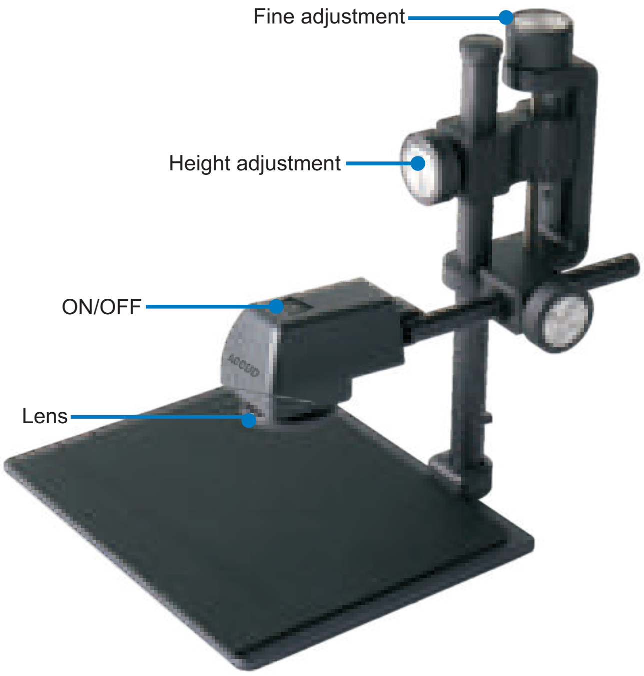
INCLUDED ACCESSORIES

Main unit	1pc
USB cable and software	1pc

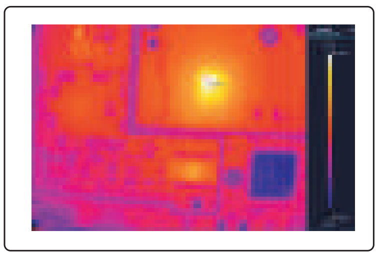
ITC120 INFRARED THERMAL IMAGING CAMERA

Data output

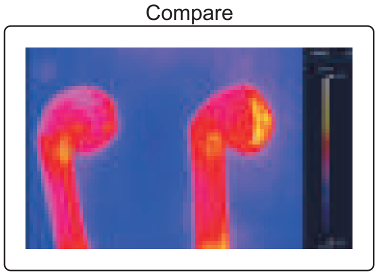
- For quick finding the current leakage or short circuit position when reparing PCBA
- For simulating the heating condition of the PCBA in a closed environment when designing
- With high limit alarm
- With software, data can be exported to Excel
- Flexible stand



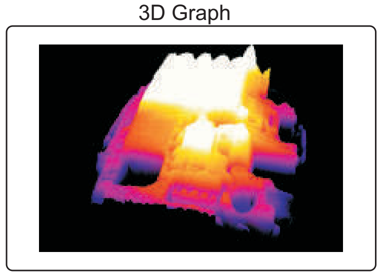
Measure



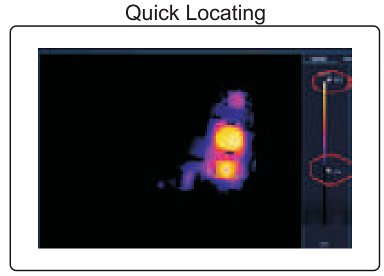
Compare



3D Graph



Quick Locating



SPECIFICATION

IR image	Resolution	260x200
	Measuring range	-10°C - 120°C
	Accuracy	±3°
	Frame rate	25Hz
	Field of view	Horizontal :34.4°, vertical: 25.8°
	Lens	Ø4mm
	Emissivity	0.1-1(adjustable)
Data output		USB (Type C)
Working temperature		-10°C-55°C
Protection level		IP54
Power supply		DC 5V
Size		220×172×241mm
Weight		1.6kg

INCLUDED ACCESSORIES

Main unit	1pc
Stand	1pc
USB cable and software	1pc
AC/DC adapter	1pc

DMT600 DIGITAL MULTIMETER

9V

- With protective case
- With backlight
- With low battery indicator
- Safety rating: CAT III 600V

test leads (included)

SPECIFICATION

Function	Range	Resolution(d)	Accuracy
DC Voltage	200mV/2V/20V/200V	0.1mV/1mV/10mV/100mV	±(0.5%+4d)
	600V	1V	±(1%+5d)
AC Voltage	200V/600V	100mV/1V	±(1.2%+10d)
DC Current	2mA/20mA/200mA	1μA/10μA/100μA	±(1.5%+3d)
	10A	100mA	±(2%+5d)
Resistance	200Ω	0.1Ω	±(1%+5d)
	2kΩ/20kΩ/200kΩ	1Ω/10Ω/100Ω	±(0.8%+3d)
	2MkΩ	1kΩ	±(1%+15d)
Diode test	open circuit voltage 2.8V DC		
Continuity check	<50 Ω		
Power supply	9V battery		
Dimension	150×75×50 mm		
Weight	325g		

INCLUDED ACCESSORIES

Main unit	1pc
9V battery	1pc
Test lead	2pcs

DCM600 DIGITAL AC/DC CLAMP METER

AAA

- 35mm open size
- With data hold function
- With low battery indicator
- Safety rating: CAT III 600V

test leads (included)

SPECIFICATION

Function	Range	Resolution(d)	Accuracy
AC Current	2A	1mA	±(2.5%+20d)
	20A	10mA	±(2.5%+5d)
	200A	100mA	±(2.5%+8d)
	400A	1A	±(2.5%+8d)
	600A	1A	for reference
DC Voltage	600V	1V	±(1.5%+5d)
AC Voltage	600V	1V	±(1.5%+5d)
Resistance	2000K Ω	10K Ω	±(1.2%+3d)
Continuity check	<30 Ω		
Power supply	2×AAA batteries		
Dimension	195×48×30 mm		
Weight	380g		

INCLUDED ACCESSORIES

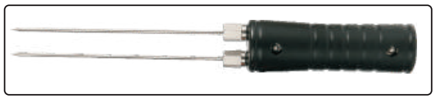
Main unit	1pc
AAA battery	2pcs
Test lead	2pcs

PORTABLE

WMM700 WOOD MOISTURE METER

AAA

- For quick measuring wood moisture
- Easy to operate



Extension probe **(Optional)**

SPECIFICATION

Moisture	**Measuring range**	2-40%/50%/60%/70%(for different wood)
	Accuracy	±1%+0.5
	Resolution	0.5 %
Temperature	**Measuring range**	-10 ˚C−60˚C
	Accuracy	±1%
	Resolution	0.1 ˚C
Humidity	**Measuring range**	20%RH-95%RH
	Accuracy	±5% RH
	Resolution	0.1% RH
Power supply		2 ×AAA
Dimension		136×55×60mm
Weight		107g

INCLUDED ACCESSORIES

Main unit	1pc
Battery	2pcs

OPTIONAL ACCESSORIES

Extension probe	**WMM700-EP**

WMM900 CONCRETE MOISTURE METER

AAA

- Use high frequency electromagnetic wave method to measure wall or concrete moisture
- Different density can be selected according to different building materials, increase the accuracy

Measure wall moisture

Measure concrete moisture

SPECIFICATION

Measuring range	0-40%
Accuracy	±2%
Resolution	0.5 %
Working temperature	0 °C-40°C
Power supply	3 ×AAA
Dimension	132×67×26mm95g
Weight	95g

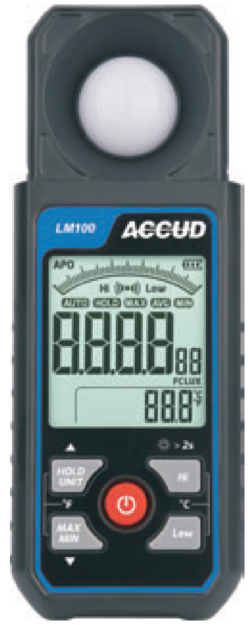
INCLUDED ACCESSORIES

Main unit	1pc
Battery	3pcs

LM100 LIGHT METER

AAA

- Unit: LUX/FC
- Max/Min/avarage measurement
- With data hold function
- Power off automatically



SPECIFICATION

Range	0.1-200000LUX/0.01-20000FC
Accuracy	±(6%+d) d is resolution
Resolution	0.1LUX (<1000), 1LUX (≥1000)
Temperature range	0-60°C
Temperature accuracy	2°C
Sampling time	8 times/s
Repeatability	±2%
Light wavelength range	400-700nm
Power supply	-10-50°C
Dimension	152×55×33 mm
Weight	136g

INCLUDED ACCESSORIES

Main unit	1pc
AAA battery	3pcs

PH12 PEN-TYPE PH METER

AAA

- Measure PH value and temperature
- Automatic temperature compensation
- Temperature unit conversion function
- Used for PH measurements like water or paper
- Waterproof button, more than 20,000 press times working life
- Calibration method can be selected for multi-point calibration or single-point calibration
- Electrode loss can be viewed for timely replacement of the electrode head
- ASTM and European standard are available
- Automatic power off

SPECIFICATION

PH range	-2.00~+16.00PH
PH accuracy	±0.01PH
Temperature measuring range	0-100.0°C/32-212°F
Type of electrode	Bubble electrodes
Display	LCD screen with backlight
Power supply	2×AAA batteries
Working temperature	0-60.0°C/32-140°F
Dimension	Ø39×180
Weight	108g

INCLUDED ACCESSORIES

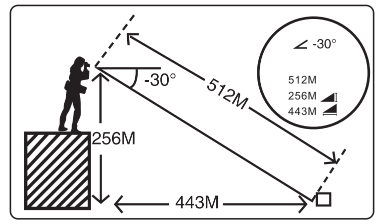
Main unit	1pc
Battery	2pcs
PH buffer powder	3pcs

TM1200 LASER DISTANCE METER

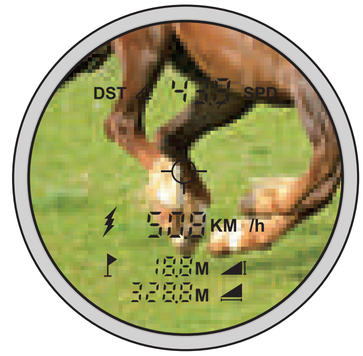
IP54 Charge

- IP54 protection
- Can measure distance, angle and speed
- Power off automatically

Distance, angle measurement



Speed measurement



SPECIFICATION

Measuring range	3m-1500m
Magnification	8X
View field	7°
Distance measuring accuracy	±1m
Speed measuring accuracy	±5km/h
Power supply	Rechargeable battery(for 30000 times)
Laser	635nm<1mW
Dimension	104×77×41 mm
Weight	197g

INCLUDED ACCESSORIES

Main unit	1pc
USB cable	1pc

IT700/IT1650S INFRARED THERMOMETER

9V

- For quick measuring remote temperature
- Easy to operate

VIDEO

IT700

SPECIFICATION

Code	IT700	IT1650S
Measuring temperature range	-50°C-950°C	-50°C-1650°C
Accuracy	1.5°C(<75°C)/2%(75–500°C)/3%(>500°C)	
Repeatability	0.5 °C or 1%	
Distance spot ratio	12:1	50:1
Response time	500ms	
Resolution	0.1 °C	
Power supply	9V battery	
Emissivity	0.1-1.00 (adjustable)	
Dimension	186×119×50 mm	225×160×66 mm
Weight	185g	320g

INCLUDED ACCESSORIES

Main unit	1pc
Battery	1pc

ACCUD

PORTABLE

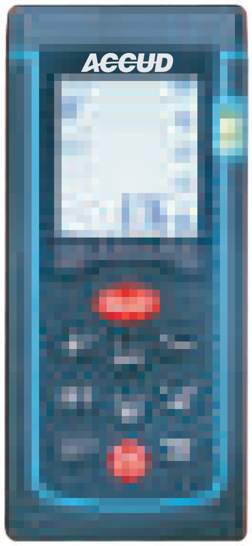
PORTABLE

TM100 LASER DISTANCE METER

IP54
AAA

- IP54 protection
- With a level in the body
- With distance, area, volumn and height measurement function
- With Max, Min measuring function
- With back light
- Power off automatically

VIDEO



SPECIFICATION

Measuring range	0.1m-100m
Accuracy (at the prefect reflection surface)	1.5mm
Resolution	1mm
Unit	m/inch/ft
Light spot	Φ8mm@40m
Memory	20
Power supply	2x1.5V AAA batteries
Laser	635nm<1mW
Dimension	120×54×30 mm
Weight	110g

INCLUDED ACCESSORIES

Main unit	1pc
Battery	2pcs

TM40/100B LASER DISTANCE METER

AAA

- Economic type
- With a level in the body
- With distance, area, volumn and height measurement function
- With Max, Min measuring function
- With backlight
- Power off automatically

VIDEO

TM100B

SPECIFICATION

Code	**TM40**	**TM100B**
Measuring range	0.1m-40m	0.1m-100m
Accuracy (at the prefect reflection surface)	2mm	
Resolution	1mm	
Unit	m/inch/ft	
Light spot	Φ8mm@40m	
Memory	20	
Power supply	2x1.5V AAA batteries	
Laser	635nm<1mW	
Dimension	120×54×30 mm	
Weight	110g	

INCLUDED ACCESSORIES

Main unit	1pc
Battery	2pcs

LSM25/LSM50 LASER SCAN MICROMETER

- It can be used to measure the diameter of wires, cables and steel bars, as well as the width or thickness of steel strips and copper strips
- Can be accurately measured whether the product shakes or not
- Non contact and precision measurement

LSM25

SPECIFICATION

Code	LSM25	LSM50
Range	0.1-20mm	0.4-50mm
Accuracy (d is diameter in mm)	±(0.2d+2)μm	±(0.3d+2)μm
Resolution	1μm	
Laser wavelength	650nm	
Sampling time	600 times/s	
Output	RS485/MODBUS	
Alarm output	DC24V/1A	
Working temperature	5-45°C	
Power supply	AC100-240V	
Dimension	298×72×167 mm	400×76×164 mm
Weight	8kg	10kg

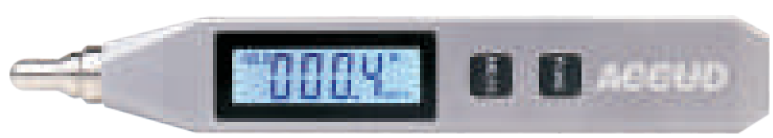
OPTIONAL ACCESSORIES

Main unit	1pc
Display	1pc
Power cable	1pc

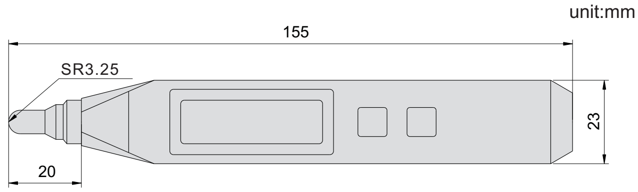
VT63 PEN TYPE VIBRATION TESTER

Charge

- Measure the motor, fan, compressor and measuring tools vibration
- Power off automatically
- Pocket size



VIDEO



SPECIFICATION

Range	Speed	0.1-199.9m/s (frequency range:10-1KHz)
	Accelerated speed	0.1-199.9m/s^2 (frequency range: 10-15KHz)
	Displacement	0.001-1.999mm (frequency range:10-500Hz)
Accuracy		±5%+2 digit
Power supply		rechargeable battery
Operation temperature		0-40°C
Operation humidity		0-90%
Dimension		152x23x12mm
Weight		75g

INCLUDED ACCESSORIES

Main unit	1pc
Charger	1pc

LT900 LASER TACHOMETER

AAA

- With back light
- Real-time/ Max/Min/avarage measurement
- Can review the last measuring value

VIDEO

SPECIFICATION

Measuring range		2.5-99999rpm
Resolution	**<1000rpm**	0.1rpm
	≥1000rpm	1rpm
Accuracy	**<1000rpm**	±(0.1%+5d)rpm, d is resolution
	≥1000rpm	±(1%+5d)rpm, d is resolution
Measuring distance		50-500mm
Power supply		2x1.5V AAA batteries
Dimension		56×30×127 mm
Weight		106g

CT900 CONTACT TYPE TACHOMETER

AAA

- Measure rotary speed, line speed
- With back light
- Real-time/ Max/Min/avarage measurement
- Can review the last measuring value


wheel


clamping sleeve


small cone


cone


cone cavity

SPECIFICATION

Range	**rotary speed**	0.5-19999rpm
	line speed	0.05-1999.9m/min
Resolution(d)	**rotary speed**	0.1rpm (<1000rpm), 1rpm (≥1000rpm)
	line speed	0.01m/min (<100m/min), 0.1m/min (≥100m/min)
Accuracy	**rotary speed**	±(0.5%+d)rpm(<300rpm)
		±(0.05%+d)rpm(≥300rpm)
	line speed	±(0.1%+d)m/min
Sampling time		0.8s (above 60rpm)
Power supply		2x1.5V AAA battery
Dimension		55×33×158 mm
Weight		106g

OPTIONAL ACCESSORIES

Main unit	1pc
Accessories (5 types)	1pc.each
AAA battery	2pcs

SLM130 DIGITAL SOUND LEVEL METER

9V

- Fast(2 time/sec)/slow(1 time/sec) display
- With back light
- Real-time and Max/Min measurement
- High limits setting with judgement and alarm

VIDEO

SPECIFICATION

Measuring sound range	30-130db
Accuracy	1.5db
Resolution	0.1db
Power supply	9V battery
Dimension	143×56×35 mm
Weight	64g

AM30 DIGITAL ANEMOMETER

9V

- With temperature display
- With back light
- Real-time/ Max/Average measurement
- Unit: m/s, km/h, ft/min, Knots, mph

VIDEO

SPECIFICATION

Measuring range	0.3-30m/s
Accuracy	±5%
Resolution	0.1m/s
Power supply	9Vbattery
Dimension	155×56×35 mm
Weight	154g

LL030 LASER LEVEL

- 2 lines (cross line)
- With auto-level mode

SPECIFICATION

Laser beam	green
Leveling range	4°±1°
Leveling accuracy	±3mm/10m
Horizontal/vertical accuracy	±3mm/10m
Laser class	Class II
Laser wavelength	510-530nm
Working distance(Line)	30m
Protection level	IP54
Power supply	2×AA
Operation temperature	-10°C-50°C
Dimension	66x75x76mm
Weight	255g

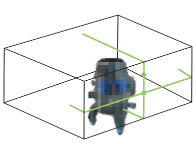
STANDARD DELIVERY

Main unit	1pc
Stand	1pc
Battery	2pcs

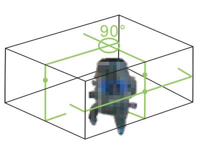
Stand

LL025/325/525 LASER LEVEL

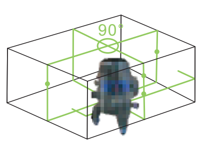
- With auto-level mode



cross line



3 lines



5 lines

SPECIFICATION

Code	LL025	LL325	LL525
Laser beam	cross line	3 lines	5 lines
Laser beam color	green		
Leveling range	<3°		
Leveling accuracy	±1mm/7m		
Horizontal/vertical accuracy	±1mm/7m		
Laser class	Class II		
Laser wavelength	635-650nm		
Max.working distance(Line)	30m		
Line width	3mm@10m		
Power supply	rechargeable battery		
Operation temperature	-10°C-50°C		
Dimension	115x115x200mm		
Weight	1kg		

LL025

STANDARD DELIVERY

Main unit	1pc
Battery	2pcs
AC/DC adapter	1pc

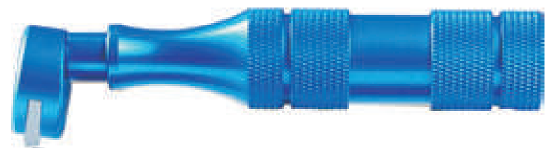
OPTIONAL ACCESSORIES

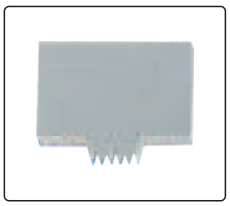
Stainless steel stand	LL025-ST

Stand(optional)

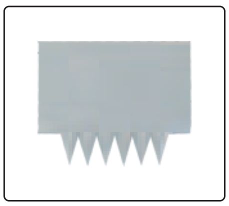
CAT12 CROSS CUT ADHESION TESTER

- Used to test the adhesion of paint on metal, plastic and so on
- Conforms to ISO 2409, ASTM D3359, BS00E6
- Blade hardness: 58-62HRC

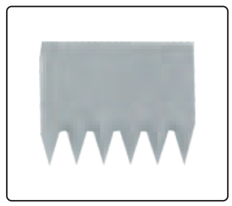




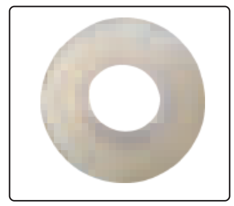
blade(1mm pitch)



blade(2mm pitch)



blade(3mm pitch)



3M tape

Magnifier

step 1: make grid cutting on surface

step 2: paste and remove the tape

0	5B	0	
1	4B	0-5%	
2	3B	5-15%	
3	2B	15-35%	
4	1B	35-65%	
5	0B	>65%	

step 3: according to the shedding status, judge the adhesion grade

SPECIFICATION

Blade pitch		1mm	2mm	3mm
Applied paint thickness	on hard substrate (like metal)	0-60μm	61-120μm	121-250μm
	on soft substrate (like wood, plaster)	—	0-120μm	121-250μm
Minimum substrate thickness	hard substrate (like metal)	0.25mm	0.25mm	0.25mm
	soft substrate (like wood, plaster)	—	10mm	10mm
Minimum size of test sample		150x100mm		
Dimension		130x25x30mm		
Weight		130g		

INCLUDED ACCESSORIES

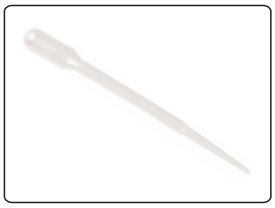
Main unit	1pc
1mm pitch blade	1pc
2mm pitch blade	1pc
3mm pitch blade	1pc
Test tape	1pc
Magnifier	1pc
Small brush	1pc

DRM50 DIGITAL PORTABLE REFRACTOMETER

Charge

- Used to measure the concentration of coolant, honey water and salt water
- Power off automatically

Pipette (included)



SPECIFICATION

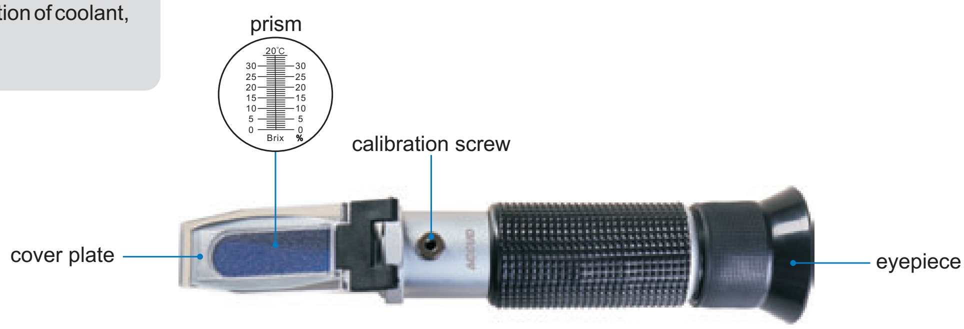
Measuring range	0-50%
Graduation	0.1%
Accuracy	±0.2%
Battery	rechargeable battery
Dimension	143x42x22mm
Weight	115g

INCLUDED ACCESSORIES

Main unit	1pc
Pipette	1pc
Cable for recharging	1pc

SERIES RM PORTABLE REFRACTOMETER

- Used to measure the concentration of coolant, honey water and salt water



RM32

SPECIFICATION

Code	**RM10**	**RM20**	**RM32**
Measuring range	0-10%	0-20%	0-32%
Graduation	0.2%		
Accuracy	±0.1%	±0.1%	±0.2%
Dimension	160x27x40mm		
Weight	175g		

INCLUDED ACCESSORIES

Main unit	1pc
Pipette	1pc
Screwdriver	1pc

GM268 20°/60°/85°GLOSS METER

- To test the gloss of painting, printing ink, surfaces of future metal, granite, ceramic, plastic, paper, etc.
- Conforms to ISO 2813, ASTM D 2457, ASTM D 523
- Large display screen

SPECIFICATION

Incidence angle	20°	60°	85°
Measuring range	0～2000GU	0～1000GU	0～160GU
Resolution	0.1GU (range<119.9GU)		
Accuracy	±1.5GU (range<100GU)		
	±1.5% (range>100GU)		
Repeatability	±0.1GU (range<10GU)		
	±0.2GU (range: 10~100GU)		
	±0.2% (range>100GU)		
Measuring speed	1s		
Measuring area	10×10mm	15×9mm	36×5mm
Powersuppy	Rechargeable battery		
Dimension	160×75×90mm		
Weight	350g		

INCLUDED ACCESSORIES

Main unit	1pc
Calibration block	1pc
USB cable and software	1pc

GM60 60° GLOSS METER

- Basic type
- To test the gloss of painting, printing ink, surfaces of future metal, granite, ceramic, plastic, paper, etc.
- Conforms to ISO 2813, ASTM D 2457, ASTM D 523

SPECIFICATION

Incidence angle	60°
Measuring range	0～200GU
Measuring area	9x15mm
Resolution	1GU
Repeatability	±1GU (0-100GU), ±1%GU (100-200GU)
Measuring speed	0.5S
Power supply	AA battery
Dimension	160x52x84mm
Weight	300g

INCLUDED ACCESSORIES

Main unit	1pc
Calibration block	1pc
AA battery	1pc

CM100 COLOR METER

Charge

- Pocket size, easy to carry
- Press one button to get the measure result in one second
- With software

SPECIFICATION

Illuminating/viewing geometry	8/d
Measuring aperture	Ø8mm
Measuring wave length	400~700nm
Wave length step	10nm
View angle	2°/10°
Light source device	LED light
Memeory	10pcs standards
Measuring time	1s
Power supply	rechargeable lithium-ion battery
Lamp Life	5 years, more than 3 million measurements
Charging Time	12 thousand measurements(full electricity)
Output	USB/ bluetooth
Dimension	Ø30×100 mm
Weight	88g

INCLUDED ACCESSORIES

Main unit	1pc
White calibration block	1pc
Charger	1pc
USB cable and software	1pc

CM200 COLOR METER

Charge

- Convenient and fast locating
- Portable structure design which is more conductive to keep the instrument stable

SPECIFICATION

Illuminating/Viewing Geometry	8/d
Measuring Aperture	Φ8mm
Light Source	D65
Light Source Device	LED blue light excitation
Memeory	5000pcs standards
Repeatability	<0.08ΔE*ab
Power supply	rechargeable lithium-ion battery
Lamp Life	3 years, more than 1 million measurements
Charging Time	2 hours (first time 8 hours--100% electricity)
Dimension	205×70×100 mm
Weight	500g

INCLUDED ACCESSORIES

Main unit	1pc
White calibration block	1pc
Charger	1pc
USB cable and software	1pc

CM3010 SPECTROPHOTO METER

Data output
Charge

- Concave grating spectrophotometric
- 3.5-inch TFT color LCD
- D/8 geometrical optics, conforms with CIE No.15,ISO7724/1, ASTM E1164, DIN5033
- Use long life and low power consumption combined LED light source
- Switchable 8mm/4mm aperture, support both SCI and SCE at the same time
- Large storage capacity, over 20,000 measurement data
- USB port and Bluetooth 4.0
- With software

SPECIFICATION

Optical geometry		reflect: di:8°, de:8°(diffused illumination, 8-degree viewing angle)
Integrating sphere size		Ø48mm
Light source		combined LED ligh
Spectrophotometric mode		concave grating
Sensor		256 image element double array CMOS image sensor
Wavelength range		400~700nm
Wavelength interval		10nm
Semiband width		10nm
Measured reflectance range		0~200%
Measuring aperture		dual aperture: MAV: Ø8mm; SAV: Ø4mm
Specular component		SCI&SCE
Color space		CIE LAB, XYZ, Yxy, LCh, CIE LUV, HunterLAB
Color difference formula		ΔE*ab, ΔE*uv, ΔE*94, ΔE*cmc(2:1), ΔE*cmc(1:1), ΔE*00v, ΔE(Hunter)
Other colorimetric index		WI(ASTM E313, CIE/ISO, AATCC, Hunter), YI(ASTM D1925, ASTM 313), Metamerism index MI, Staining fastness, Color fastness, Colorstrength, Opacity
Observer angle		2°/10°
Illuminant		A, C, D50, D55, D65, D75, F1, F2, F3, F4, F5, F6, F7, F8, F9, F10, F11, F12, CWF, U30, TI83, TI84, U35
Displayed data		spectrogram/values, samples chromaticity values, color difference values/graph, PASS/FAIL result, color offset
Measuring time		2.6s
Repeatability	**Spectral reflectance**	MAV/SCI, within 0.1% of standard deviation(400~700nm: 0.2%)
	Colorimetric values	MAV/SCI: ΔE*≤0.04
Inter-instrument error		MAV/SCI: ΔE*≤0.2
Measurement mode		single measurement, average measurement
Data port		USB, Bluetooth 4.0
Data storage		standard 1000 pcs, sample 20000 pcs
Illuminant life span		5 years, more than 3 million times measurements
Battery		Li-ion battery, 5000 measurements within 8 hours
Dimension		184×77×105mm
Weight		600g

INCLUDED ACCESSORIES

Main unit	1pc
White and black calibration cavity	1pc
USB cable and software	1pc
AC/DC adapter	1pc

OPTIONAL ACCESSORIES

Printer	**CM3010-PT**
Powder test box	**CM3010-PB**

HM1000 HAZE METER

Data output

- Conform to the standards: ASTM D1003/1044, GB/T 2410,JJF 1303-2011,CIE 15.2,JIS K7105, JIS K7361,JIS K 7136
- The instrument can easily achieve ASTM D1003 non-compensation method
- With quality control software

SPECIFICATION

Measuring range	0~100%
Accuracy	<0.4
Repeatability	0.1
Resolution	0.1
Integrating sphere size	Φ154mm
Light source	400nm to 700nm, combined LED light
Sensor	The PD array detector, satisfies CIE V(λ)2 degree visual response
Measuring aperture	Φ20mm
Sample size	Thickness<170mm
Observer angle	2°
Illumination	D65, A, C
Measuring time	about 1.5s
Data output	USB
Illumination life span	5 years, more than 3 million times measurements
Display	7-inch TFT color LCD, capacitive touch screen
Size	290×211×511mm
Weight	7.6kg

INCLUDED ACCESSORIES

Main unit	1pc
Calibration cover	1pc
USB cable and software	1pc
AC/DC adapter	1pc

SERIES DF DIGITAL FORCE GAUGE

Certificate Charge

- For pull and push measurement
- Adjusting the display direction automatically
- With overload protection
- Peak and real-time working mode
- Unit: mN, N, gf, kgf, ozf, lbf
- Memory: 1000
- Power off automatically
- Low and high limits setting with judgement
- With software, can show the force graph

VIDEO

DF200

Stand(Code: **FS1000**, **Optional**)

PR100 printer **(Optional)**

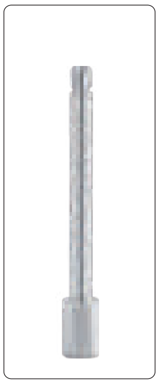
flat

v-type

knife-edge

point

pull clamp



extension rod

SPECIFICATION

Code	DF10	DF20	DF50	DF100	DF200	DF500	DF1000
Range	10N	20N	50N	100N	200N	500N	1000N
Resolution	0.001N	0.005N	0.005N	0.005N	0.005N	0.01N	0.1N
Accuracy	±0.2% x FS (full scale)						
Power	rechargeable battery						
Dimension	153x73x34mm						
Weight	700g						

INCLUDED ACCESSORIES

Main unit	1pc
Charger	1pc
Software	1pc
Push/pull clamps	6pcs(flat, V type, knife-edge, point, pull clamp, extension rod)

OPTIONAL ACCESSORIES

Wireless printer	**PR100**
Stand	**FS1000**

SERIES DF DIGITAL FORCE GAUGE

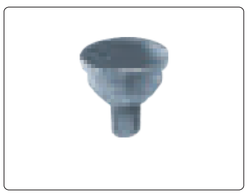
Certificate Charge

- For pull and push measurement
- Adjusting the display direction automatically
- With overload protection
- Peak and real-time working mode
- Unit: mN, N, gf, kgf, ozf, lbf
- Memory: 1000
- Power off automatically
- Low and high limits setting with judgement
- With software, can show the force graph

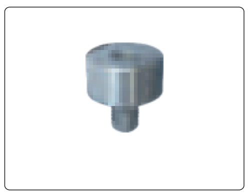
VIDEO

DF5K

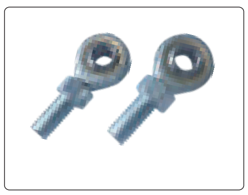
PR100 printer **(Optional)**



flat clamp **(Optional)**



extension **(Optional)**



pull clamp **(Optional)**

SPECIFICATION

Code	DF2K	DF5K	DF10K	DF20K
Range	2000N	5000N	10000N	20000N
Resolution	0.5N	1N	1N	1N
Accuracy	±0.2% x FS (full scale)			
Power	rechargeable battery			
Dimension	153x73x34mm			
Weight	700g			

INCLUDED ACCESSORIES

Main unit	1pc
Sensor	1pc
Charger	1pc
Software	1pc

OPTIONAL ACCESSORIES

M12 Flat clamp(for DF2K, DF5K and DF10K)	DF2K-FC
M12 Extension (for DF2K, DF5K and DF10K)	DF2K-ER
M12 Pull clamp (for DF2K, DF5K and DF10K)	DF2K-PC
M18 Flat clamp (for DF20K)	DF20K-FC
M18 Extension (for DF20K)	DF20K-ER
M18 Pull clamp (for DF20K)	DF20K-PC
Wireless printer	PR100

SERIES DFXXE DIGITAL FORCE GAUGE

Certificate
Charge

- For pull and push measurement
- Adjusting the display direction automatically
- With overload protection
- Peak and real-time mode
- Unit: N, gf, kgf, ozf, lbf
- Memory: 500
- Power off automatically

VIDEO

DF1000E

Stand(Code: **FS1000, Optional**)

PR100 printer **(Optional)**

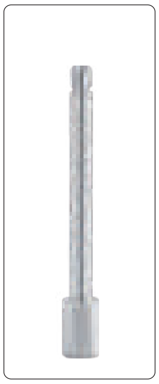
flat

v-type

knife-edge

point

pull clamp



extension rod

SPECIFICATION

Code	DF10E	DF50E	DF100E	DF500E	DF1000E
Range	10N	50N	100N	500N	1000N
Resolution	0.01N	0.01N	0.1N	0.1N	1N
Accuracy	±0.3% x FS (full scale)				
Power	rechargeable battery				
Dimension	150x72x33mm				
Weight	450g				

INCLUDED ACCESSORIES

Main unit	1pc
Charger	1pc
Software	1pc
Push/pull clamps	6pcs(flat, V type, knife-edge, point, pull clamp, extension rod)

OPTIONAL ACCESSORIES

Wireless printer	**PR100**
Stand	**FS1000**

ACCUD

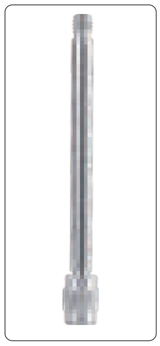
FORCE

SERIES NK FORCE GAUGE

- Push and pull test
- Peak(max.) or tracking work mode


point


pull clamp


extension rod


flat


v-type


knife-edge

NK-500


Stand(Code: **FS1000**, **Optional**)

SPECIFICATION

Code	NK-20	NK-30	NK-50	NK-100	NK-200	NK-300	NK-500
Range(N)	20	30	50	100	200	300	500
Range(Kg)	2	3	5	10	20	30	50
Resolution(N)	0.1	0.2	0.25	0.5	1	2	2.5
Accuracy	±2% xFS (full scale)						

INCLUDED ACCESSORIES

Main unit	1pc
Push tip	4pcs (flat, V type, knife-edge, point)
Pull clamp	1pc
Extension rod	1pc

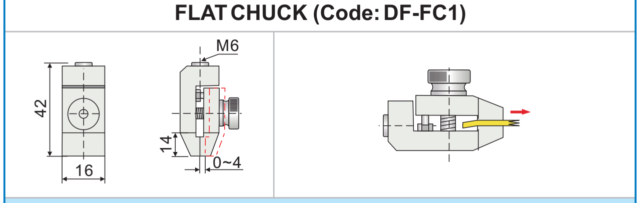
OPTIONAL ACCESSORIES

Stand	FS1000

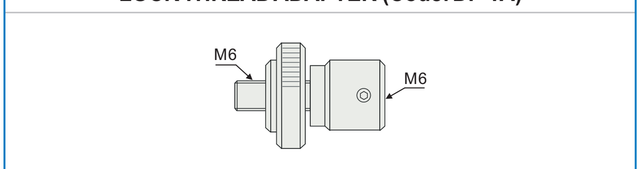
SERIES DF CLAMPS FOR FORCE GAUGE

unit:mm

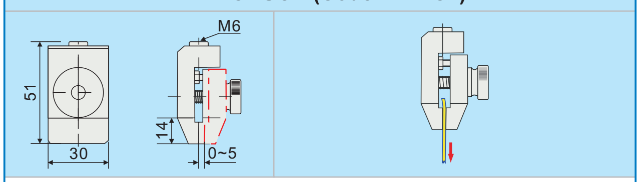
FLAT CHUCK (Code: DF-FC1)



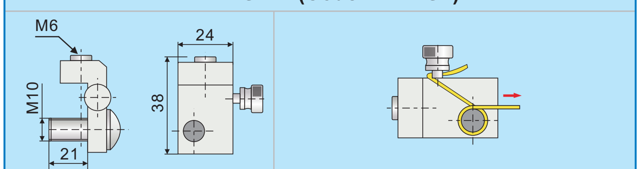
LOCK THREAD ADAPTER (Code: DF-TA)



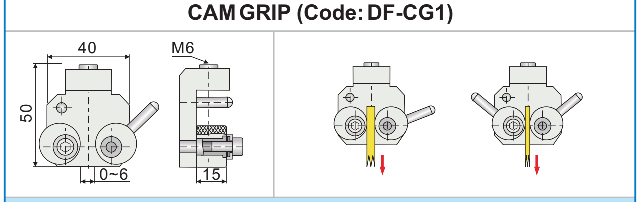
FLAT CHUCK (Code: DF-FC2)



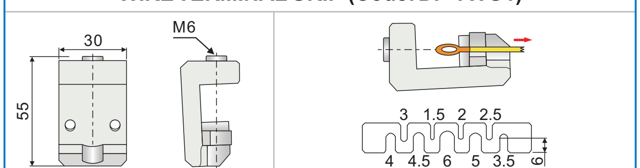
WIRE GRIP (Code: DF-WG1)



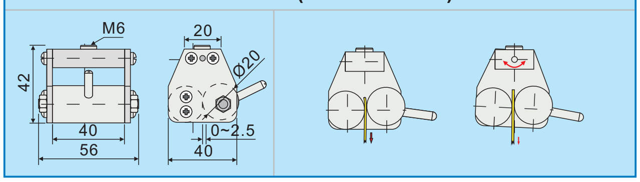
CAM GRIP (Code: DF-CG1)



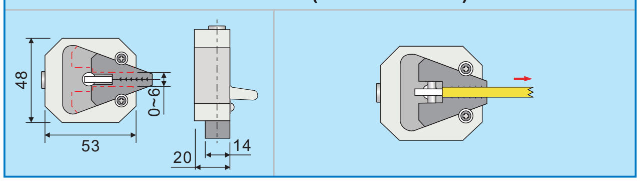
WIRE TERMINAL GRIP (Code: DF-TWG1)



CAM GRIP (Code: DF-CG2)



WEDGE GRIP (Code: DF-WT1)



FORCE

DFS500 MOTORIZED VERTICAL TEST STAND

- Used to measure the force of pull or push with series DF force gauge
- Programmable, can do automatic testing cycle
- Can set three working modes: displacement cycle, force cycle, user-defined cycle
- With alarm: position, force and motor block

SPECIFICATION

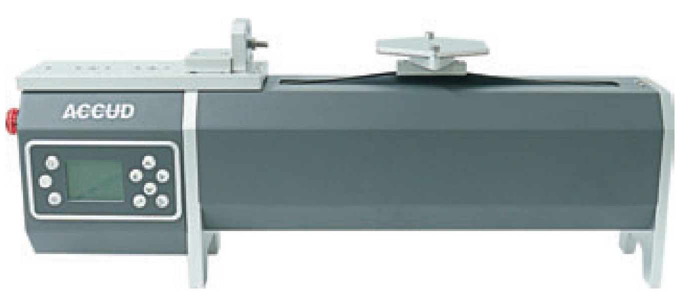
Max. capacity	650N
Max. travel	220mm
Moving speed	30-720mm/min(adjustable)
Resolution of speed	1mm/min
Moving speed accuracy	2%
Displacement resolution	0.01mm
Displacement accuracy	±0.3mm
Output	USB, RS232
Working temperature	10-40°C
Power supply	AC100-240V
Dimension	340×180×630 mm
Weight	15kg

OPTIONAL ACCESSORIES

Main unit	1pc
Software and USB cable	1pc
Power cable	1pc

DFS500H MOTORIZED HORIZONTAL TEST STAND

- Used to measure the force of pull or push with series DF force gauge
- Programmable, can do automatic testing cycle
- Can set three working modes: displacement cycle, force cycle, user-defined cycle
- With alarm: position, force and motor block



SPECIFICATION

Max. capacity	650N
Max. travel	220mm
Moving speed	30-720mm/min(adjustable)
Resolution of speed	1mm/min
Moving speed accuracy	2%
Displacement resolution	0.01mm
Displacement accuracy	±0.3mm
Output	USB, RS232
Working temperature	10-40°C
Power supply	AC100-240V
Dimension	671×120×278 mm
Weight	13kg

OPTIONAL ACCESSORIES

Main unit	1pc
Software and USB cable	1set
Power cable	1pc

SERIES DST DIGITAL SPRING TESTER

- For spring force testing
- Peak and real-time working mode
- Unit: N, kgf, lbf
- Power off automatically
- Low and high limits setting with judgement
- With digital scale, resolution:0.01mm

DST50

SPECIFICATION

Code	DST10	DST20	DST30	DST50	DST100	DST200	DST300	DST500
Capacity	10N	20N	30N	50N	100N	200N	300N	500N
Resolution	0.001N	0.002N	0.01N	0.01N	0.02N	0.05N	0.1N	0.1N
Test range	5%-100% capacity							
Accuracy	±1% x FS (full scale)							
Max. spring length(free status)	65mm			95mm				
Range of digital scale	65mm			95mm				
Disk diameter	Ø30mm			Ø49mm				
Output	RS232							
Power	220V/110V							
Dimension	300x235x600mm			300x235x620mm				
Weight	13.2kg	13.2kg	13.2kg	17.3kg	19.1kg	19.1kg	19.1kg	20.8kg

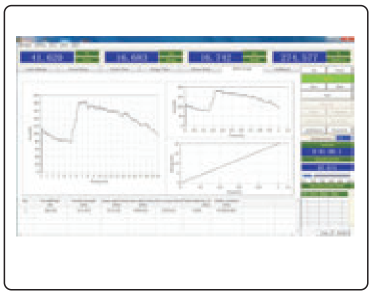
INCLUDED ACCESSORIES

Main unit	1pc
Power cable	1pc
Foot screw	4pcs

SERIES UTT ELECTRONIC UNIVERSAL TENSILE TESTING MACHINE

- For tensile, tear testing of different kinds of materials
- With testing analysis software
- Unit: N, kN, Kgf, Lbf, Mpa, Lbf/In², Kgf/mm²

Software



UTT100

UTT1000

SPECIFICATION

Code	UTT50	UTT100	UTT200	UTT500	UTT1000	UTT2000	UTT10000	UTT20000
Type	single column				double column			
Max.capacity	50kg	100kg	200kg	500kg	1000kg	2000kg	10000kg	20000kg
Accuracy	0.5%	0.5%	0.5%	0.5%	0.5%	0.5%	0.5%	0.5%
Resolution	1/1000000xFS (Max. capacity)				1/500000xFS(Max. capacity)			
Max. traval	600mm				800mm			
Width	180mm				450mm			
Test speed	0.1-500mm/min							
Moving speed accuracy	±0.3%							
Movement controller	servo motor							
Power supply	100-240AC							
Dimension	500×420×1250mm				750×500×1850mm		1100×760×2100mm	
Weight	50kg				260kg		750kg	

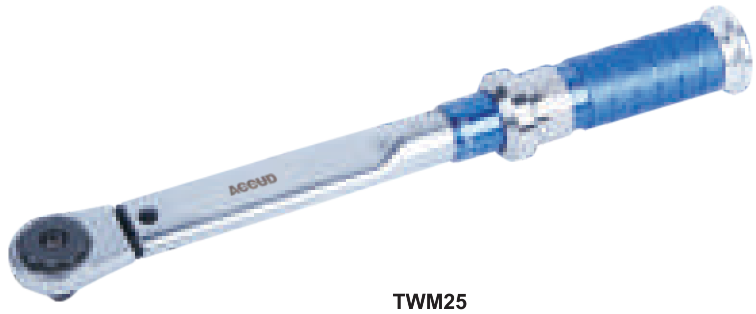
INCLUDED ACCESSORIES

Main unit	1pc
Computer	1pc
USB dongle	1pc
Fixture	1set

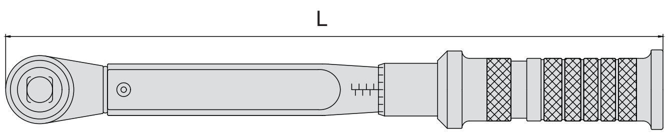
SERIES TWM TORQUE WRENCH

Certificate

- Easy to set the torque value
- Accuracy: ±4%
- According to ISO6789, ASMEB107. 14



TWM25



SPECIFICATION

Code	TWM25	TWM50	TWM100	TWM200	TWM340
Range	5~25N.m	10~50N.m	20~100N.m	40~200N.m	70~340N.m
Size of square drive	3/8"	3/8"	3/8"	1/2"	1/2"
Length(L)	275mm	275mm	380mm	505mm	695mm
Weight	420g	420g	580g	1.3kg	1.9kg

SERIES TWM-B TORQUE WRENCH

Certificate

- Economic type
- Easy to set the torque value
- Accuracy: ±4%(clockwise)
- According to ISO6789, ASMEB107. 14

TWM25B

SPECIFICATION

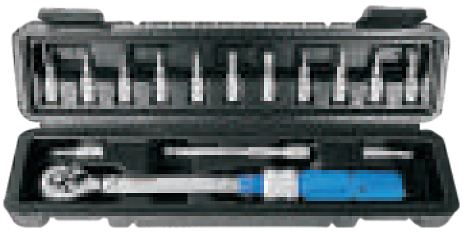
Code	TWM25B	TWM60B	TWM60D	TWM110B	TWM110C	TWM210B	TWM330B
Range(N.m)	5~25	12~60	12~60	22~110	22~110	42~210	66~330
Size of square drive	1/4"	3/8"	1/2"	3/8"	1/2"	1/2"	1/2"
Length	250mm	415mm	425mm	460mm	470mm	490mm	565mm
Weight	350g	920g	980g	1.06kg	1.17kg	1.26kg	1.34kg

Code	TWM550B	TWM800B	TWM1000B	TWM1500B	TWM2000B	TWM3000B
Range(N.m)	110~550	160~800	200~1000	300~1500	400~2000	600~3000
Size of square drive	3/4"	3/4"	3/4"	1"	1"	1"
Length	900mm	1200mm	1200mm	1260mm	1260mm	1260mm
Weight	4.3kg	5.6kg	5.6kg	9.2kg	9.2kg	10.5kg

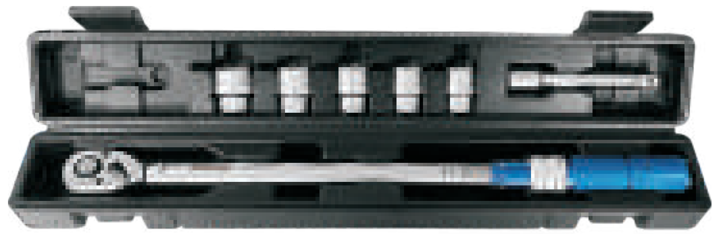
SERIES STWM TORQUE WRENCH WITH BIT SET

Certificate

- Accuracy: ±4%(clockwise)



STWM25



STWM110

SPECIFICATION

Code	STWM25	STWM110	STWM210
Torque wrench code	TWM25B	TWM110C	TWM210B
Range	5~25N.m	22~110N.m	42~210N.m
Size of square drive	1/4"	½"	½"
Bit size	Hexagon type: H2-H2.5-H3-H4-H5-H6-H8 Torx type: T10-T15-T20-T25-T27-T30 Extension rod: 100mm	Hexagon type: 17-19-21-22-23mm Extension rod: 125mm	
Main application	bicycle industry	automotive industry	
Torque wrench length	250mm	460mm	490mm
Weight	790g	2200g	2300g

SERIES TW DIGITAL TORQUE WRENCH

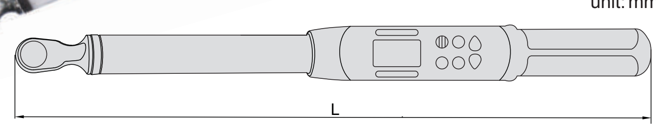
Certificate AA

- Clockwise or anti-clockwise operation
- Unit: N.m, in.lb, ft.lb, kg.cm
- Peak or real-time working mode
- Automatic power off
- With calibration certificate

VIDEO

TW200

unit: mm



SPECIFICATION

Code		TW12	TW20	TW30	TW135	TW200	TW340	TW550	TW850	TW1500	TW2000
Range(N.m)		2.4~12	4~20	6~30	27~135	40~200	68~340	110~550	170~850	300~1500	400~2000
Resolution		0.01N.m	0.01N.m	0.1N.m	0.1N.m	1N.m	1N.m	1N.m	1N.m	1N.m	1N.m
Accuracy	Clockwise	±3%	±3%	±2%	±2%	±2%	±2%	±2.5%	±2.5%	±2.5%	±2.5%
	Anti-clockwise	±4%	±4%	±3%	±3%	±3%	±3%	±3.5%	±3.5%	±3.5%	±3.5%
Size of square drive		1/4"	1/4"	1/4"	3/8"	1/2"	1/2"	3/4"	3/4"	1"	1"
Length(L)		390mm	390mm	390mm	415mm	530mm	650mm	950mm	1220mm	1800mm	1800mm
Weight		900g	900g	900g	950g	1400g	1800g	3400g	4400g	13kg	14kg
Power		2xAA batteries									

TORQUE

SERIES TWD DIAL TORQUE WRENCH

Certificate

- Clockwise and counter-clockwise operation
- Comforms to DIN ISO 6789, ASME B107.300

TWD70

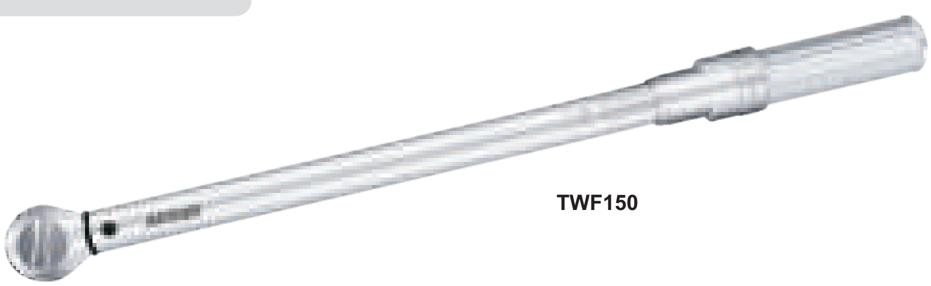
SPECIFICATION

Code	TWD3	TWD9	TWD18	TWD35	TWD70	TWD140	TWD240	TWD350
Range	0.7~3.5N.m 6~30in.lb	1.8~9N.m 15~75in.lb	3.6~18N.m 30~150in.lb	7~35N.m 60~300in.lb	14~70N.m 120~600in.lb	28~140N.m 20~100ft.lb	48~240N.m 35~175ft.lb	70~350N.m 50~250ft.lb
Accuracy	±3%	±3%	±3%	±3%	±3%	±3%	±3%	±3%
Graduation	0.05N.m 0.5in.lb	0.1N.m 1in.lb	0.2N.m 2in.lb	0.5N.m 5in.lb	1N.m 10in.lb	2N.m 1ft.lb	3N.m 2.5ft.lb	2.5N.m 2.5ft.lb
Square drive	1/4"	1/4"	3/8"	3/8"	3/8"	1/2"	1/2"	1/2"
Length	254mm	254mm	254mm	254mm	378mm	546mm	546mm	546mm
Weight	480g	480g	480g	480g	820g	1300g	1300g	1300g

SERIES TWI/TWF TORQUE WRENCH

Certificate

- Easy to set the torque value
- According to ISO6789, ASMEB107.300
- Metal construction



TWF150

SPECIFICATION

Code	TWI200	TWI250	TWF100	TWF150	TWF250	TWF600
Range	40~200lb.in	50~250lb.in	20~100lb.ft	30~150lb.ft	50~250lb.ft	100~600lb.ft
Graduation	1lb.in	1lb.in	0.5lb.ft	0.5lb.ft	1lb.ft	2.5lb.ft
Accuracy	±3%	±3%	±3%	±3%	±3%	±4%
Size of square drive	1/4"	3/8"	3/8"	1/2"	1/2"	3/4"
Length	11"	12.4"	16.7"	20"	26.7"	41.5"
Weight	1.5lb	1.8lb	2.3lb	2.6lb	2.9lb	13lb

SERIES TWS WINDOWS TORQUE WRENCH

- Accuracy : ±4%(clockwise)
- According to ISO6789
- Unit: N.m; Lbf.ft

TWS60

SPECIFICATION

Code	Range (N.m)	Size of square drive	Length	Weight
TWS12	2.4~12	1/4"	300mm	0.58kg
TWS20	4~20	1/4"	300mm	0.58kg
TWS20B	4~20	3/8"	300mm	0.60kg
TWS30	6~30	3/8"	315mm	0.68kg
TWS60	12~60	3/8"	400mm	0.86kg
TWS60B	12~60	1/2"	415mm	0.90kg
TWS100B	20~100	1/2"	470mm	1.12kg
TWS200	40~200	1/2"	495mm	1.18kg

Code	Range (N.m)	Size of square drive	Length	Weight
TWS330	66~330	1/2"	555mm	1.28kg
TWS400	80~400	1/2"	725mm	1.90kg
TWS400B	80~400	3/4"	825mm	3.05kg
TWS550	110~550	3/4"	825mm	3.93kg
TWS1000	200~1000	3/4"	1115mm	5.28kg
TWS1500	300~1500	1"	1250mm	8.20kg
TWS2000	400~2000	1"	1250mm	8.20kg
TWS3000	600~3000	1"	1250mm	9.50kg

SERIES TQM TORQUE SCREWDRIVER

- Clockwise operation
- When achieving the setting target, there is "chatter"

TQM300

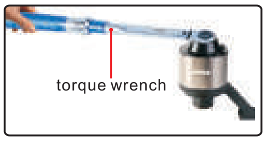
SPECIFICATION

Code	TQM60	TQM120	TQM300	TQM600
Range	0.12~0.6N.m	0.24~1.2N.m	0.6~3N.m	1.2~6N.m
Clockwise operation accuracy	±6%	±6%	±6%	±6%
Graduation	0.01N.m	0.02N.m	0.05N.m	0.1N.m
Size of shank	1/4"	1/4"	1/4"	1/4"
Length (L)	161mm	161mm	186mm	186mm
Weight	300g	300g	400g	400g

SERIES TWQ TORQUE MULTIPLIERS

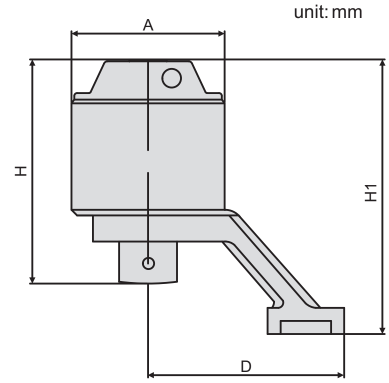
- Accuracy: ±5%

Application



TWQ-5500

unit: mm



SPECIFICATION

Code	TWQ-1000	TWQ-2000	TWQ-3500	TWQ-5500	TWQ-7500	TWQ-10000
Capacity	1000N.m	2000N.m	3500N.m	5500N.m	7500N.m	10000N.m
Torque ratio	1:4.5	1:12	1:15	1:18.5	1:20	1:26.5
Square socket	½"	½"	½"	½"	½"	½"
Square driver	1"	1"	1"	1 ½"	1 ½"	1 ½"
For bolt	M20-30	M22-35	M30-45	M38-52	M42-60	M52-72
For net	S30-46	S32-55	S46-70	S55-80	S65-90	S80-105
Dimension(AxHxDxH1)	82x98.5x97x122.4	82x120x105x147	98x131x120x163	115x163.5x137x199	127x173x146x215	141x170x164x238
Weight	2.1kg	3.15kg	4.9kg	8.1kg	10.6kg	14g

SERIES TTM DIGITAL BOTTLE CAP TORQUE METER

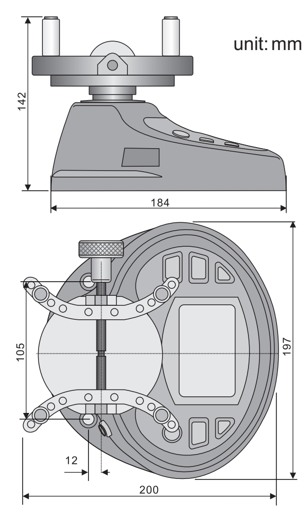
Certificate Data output Charge

- Test the open and tighten torque of bottle cap
  Peak, preset and real-time working mode
- Unit: N.m, N.cm, kgf.cm, lbf.cm, lbf.in
- Memory: 1000
- Power off automatically
- With software, can show the torque graph

VIDEO

TTM10

unit: mm



SPECIFICATION

Code	TTM2	TTM5	TTM10	TTM20
Range	0.1-2N.m	0.25-5N.m	0.5-10N.m	1-20N.m
Accuracy	±0.5%			
Resolution	0.0002N.m	0.0005N.m	0.001N.m	0.002N.m
Open size	Ø19.5-190mm			
Output	USB and RS232			
Power	rechargeable battery			
Weight	2.5kg			

INCLUDED ACCESSORIES

Main unit	1pc
Charger	1pc
Software with cable	1pc

OPTIONAL ACCESSORIES

Wireless printer	**PR100**

TORQUE

SERIES TTS — DIGITAL TORQUE METER

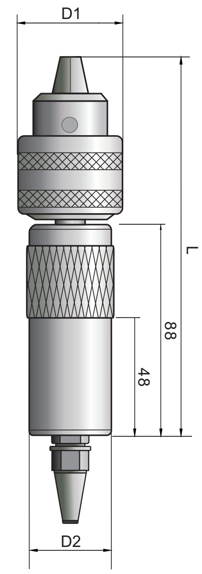
Certificate
Charge

- Adjustable open size for fixing
- Peak, preset and real-time working mode
- Unit: N.m, N.cm, kgf.cm, lbf.cm, lbf.in
- Memory: 1000
- Power off automatically
- With software, can show the torque graph

VIDEO

TTS5

unit: mm



SPECIFICATION

Code	TTS1	TTS5	TTS10
Range	0.05-1N.m	0.25-5N.m	0.5-10N.m
Open size	Ø10mm	Ø10mm	Ø13mm
Resolution	0.0001N.m	0.0005N.m	0.001N.m
Accuracy	±0.3%		
Memory	1000		
Output	USB and RS232		
Power	rechargeable battery		
Weight	0.7kg		

INCLUDED ACCESSORIES

Main unit	1pc
Charger	1pc
Software with cable	1pc
Wrench	1pc

OPTIONAL ACCESSORIES

Wireless printer	PR100

Code	L	D1	D2
TTS1	156mm	Ø43	Ø40
TTS5	156mm	Ø43	Ø46
TTS10	178mm	Ø53	Ø46

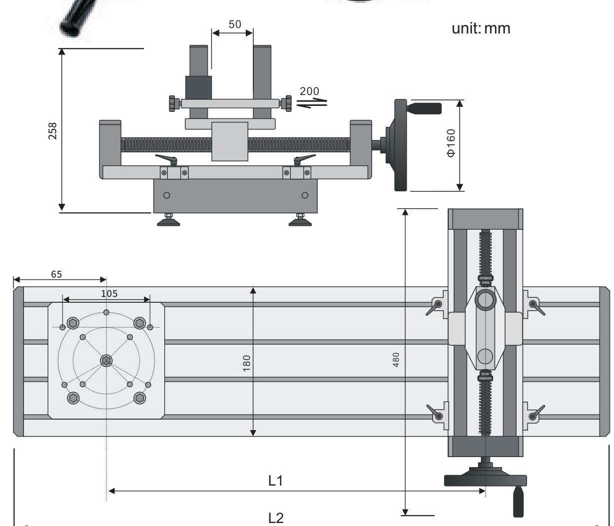
TTB-ST1/ST2/ST4 — STAND FOR TORQUE WRENCH TESTING

- For calibrating torque wrench with TTB series torque meter

(Torque meter is not included)

TTB-ST1

unit: mm



SPECIFICATION

Code	TTB-ST1	TTB-ST2	TTB-ST4
Arm length(L1)	150-600mm	150-1000mm	150-1500mm
Max. travel	200mm		
Max. force	1000N		2000N
Length(L2)	770mm	1270mm	1800mm
Weight	12kg	16kg	30kg

ACCUD

TORQUE

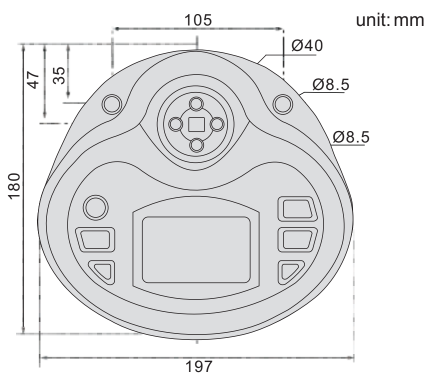
SERIES TTB DIGITAL TORQUE METER

Certificate · Data output · Charge

- For torque wrench and torque screwdriver calibration
- Peak, preset and real-time working mode
- Unit: N.m, N.cm, kgf.cm, lbf.cm, lbf.in
- Memory: 1000
- Power off automatically
- With software, can show the torque graph

VIDEO

TTB10



TTB500

Stand (optional)

SPECIFICATION

Code	TTB5	TTB10	TTB50	TTB100	TTB500
Range	0.25-5N.m	0.5-10N.m	2.5-50N.m	5-100N.m	25-500N.m
Accuracy	±0.3%				
Resolution	0.0005N.m	0.001N.m	0.005N.m	0.01N.m	0.05N.m
Size of square drive	1/2"				3/4"
Output	USB and RS232				
Power	rechargeable battery				
Weight	1.5kg				

INCLUDED ACCESSORIES

Main unit	1pc
Charger	1pc
Software with cable	1pc
Convertor(TTB500 doesn't include)	1pc

OPTIONAL ACCESSORIES

Wireless printer	PR100
Stand(Arm length:150-600mm)	TTB-ST1
Stand(Arm length:150-1000mm)	TTB-ST2
Stand(Arm length:150-1500mm)	TTB-ST4

SERIES TWT TORQUE WRENCH TESTER

- Used to test or calibrate torque wrench
- Contains two torque sensors, with same touch screen LCD

TWT200

SPECIFICATION

Code		TWT200	TWT500
Range	Sensor 1	1-20N.m	2.5-50N.m
	Sensor 2	10-200N.m	25-500N.m
Resolution	Sensor 1	0.002N.m	0.005N.m
	Sensor 2	0.02N.m	0.05N.m
Accuracy		0.3%	
Max. wrench lenght		830mm	
Driver size		½", 3/8", 1/4"	3/4", ½", 3/8"
Memory		1000	
Data output		USB	
Dimension		780×688×433 mm	
Weight		45kg	

OPTIONAL ACCESSORIES

Main unit	1set
Charger	1pc
Driver adapter	2pcs
USB cable and software	1set

SERIES TWT MOTORIZED TORQUE WRENCH TESTER

- Used to test or calibrate torque wrench
- Loading force: motorized
- Contains two torque sensors, with same touch screen LCD

TWT200M

SPECIFICATION

Code		TWT200M	TWT500M	TWT1000M
Range	Sensor 1	1-20N.m	2.5-50N.m	10-100N.m
	Sensor 2	10-200N.m	25-500N.m	100-1000N.m
Resolution	Sensor 1	0.002N.m	0.005N.m	0.01N.m
	Sensor 2	0.02N.m	0.05N.m	0.1N.m
Accuracy		0.3%		
Max. wrench lenght		830mm		
Driver size		½", 3/8", 1/4"	3/4", ½", 3/8"	1", 3/4", ½", 3/8"
Memory		1000		
Data output		USB		
Dimension		780×635×443 mm		
Weight		55kg		

OPTIONAL ACCESSORIES

Main unit	1set
Driver adapter	1set
Software and USB cable	1set
Power cable	1pc

ACCUD

PS075 PORTABLE SCALE

AAA

- Pocket size, easy to carry
- It can also measure the dimension
- With back light
- Power off automatically
- Can show temperature

SPECIFICATION

Range	0-75kg
Resolution	0.01kg
Accuracy	0.05kg (Weight≤50kg),0.2kg (Weight>50kg)
Unit	kg, lb, JIN, oz
Power supply	2xAAA battery
Dimension	70x135x30mm
Weight	185g

STANDARD DELIVERY

Main unit	1pc
AAA battery	2pcs

WSC3000G ELECTRONIC WEIGHING SCALE FOR KITCHEN

AA

- LCD display, with backlight
- Automatic "Zero"
- Automatic power off

SPECIFICATION

Max. capacity	3kg
Min. capacity	0.5g
Division	0.1g
Verification interval	1g
Unit	g, ct, oz, tl, dwn, gn
Automatic "zero" range	0-60g
Power supply	9V AD/DC adapter or 6xAA battery
Dimension of pan	15x15cm
Dimension	23x15x4cm

WEIGHT

SERIES WSJ HIGH PRECISION ELECTRONIC BALANCE

Charge

- High accuracy, mainly used to measure weight of golden and jewellery
- LCD display, with backlight
- Overload and limits alarm
- RS232 output
- Automatic power off


WSJ2000G

SPECIFICATION

Code	WSJ100G	WSJ200G	WSJ300G	WSJ600G	WSJ1000G	WSJ2000G
Max. capacity	100g	200g	300g	600g	1000g	2000g
Min. capacity	0.005g	0.005g	0.005g	0.05g	0.05g	0.05g
Division	0.001g	0.001g	0.001g	0.01g	0.01g	0.01g
Verification interval	0.01g	0.01g	0.01g	0.1g	0.1g	0.1g
Unit	g, ct, lb, oz, dr, gn, ozt, dwt					
Power supply	re-chargeable battery					
Dimension of pan	Ø8CM			Ø14CM		
Dimension	32x21x31cm					

SERIES WS ELECTRONIC WEIGHING SCALE

- LCD display, with backlight
- Overload and limits alarm
- RS232 output
- Automatic power off

WS15K

SPECIFICATION

Code	WS06K	WS15K	WS30K
Max. capacity	6kg	15kg	30kg
Min. capacity	1g	5g	10g
Division	0.1g	0.5g	1g
Verification interval	1g	5g	10g
Unit	kg, g, lb		
Power supply	9V AD/DC adapter		
Dimension of pan	32x23cm		
Dimension	32x36x11cm		

TOLERANCE

Weight	M1	F2	F1	E2
1mg	0.2mg	0.06mg	0.02mg	0.006mg
2mg	0.2mg	0.06mg	0.02mg	0.006mg
5mg	0.2mg	0.06mg	0.02mg	0.006mg
10mg	0.25mg	0.08mg	0.025mg	0.008mg
20mg	0.3mg	0.1mg	0.03mg	0.01mg
50mg	0.4mg	0.12mg	0.04mg	0.012mg
100mg	0.5mg	0.16mg	0.05mg	0.016mg
200mg	0.6mg	0.2mg	0.06mg	0.02mg
500mg	0.8mg	0.25mg	0.08mg	0.025mg
1g	1mg	0.3mg	0.1mg	0.03mg
2g	1.2mg	0.4mg	0.12mg	0.04mg
5g	1.6mg	0.5mg	0.16mg	0.05mg
10g	2mg	0.6mg	0.2mg	0.06mg
20g	2.5mg	0.8mg	0.25mg	0.08mg
50g	3mg	1mg	0.3mg	0.1mg
100g	5mg	1.6mg	0.5mg	0.16mg
200g	10mg	3mg	1mg	0.3mg
500g	25mg	8mg	2.5mg	0.8mg
1kg	50mg	16mg	5mg	1.6mg
2kg	100mg	30mg	10mg	3mg
5kg	250mg	80mg	25mg	8mg
10kg	500mg	160mg	50mg	16mg
20kg	1000mg	300mg	100mg	30mg

GRADE SELECTION

Weighing instrument resolution	Grade selection
0.001mg	E1
0.01mg	E2
0.1mg	E2 or F1
1mg	F2
0.01g/0.1g	M1

INDIVIDUAL WEIGHT

Code / Weight	Grade and stainless steel type					Sharp
	M1(304)	F2(304)	F1(304)	F1(non-magnetic)	E2(non-magnetic)	
1mg	WT-M001M1	WT-M001F2	WT-M001F1	WT-M001F1B	WT-M001E2	sheet
2mg	WT-M002M1	WT-M002F2	WT-M002F1	WT-M002F1B	WT-M002E2	
5mg	WT-M005M1	WT-M005F2	WT-M005F1	WT-M005F1B	WT-M005E2	
10mg	WT-M010M1	WT-M010F2	WT-M010F1	WT-M010F1B	WT-M010E2	
20mg	WT-M020M1	WT-M020F2	WT-M020F1	WT-M020F1B	WT-M020E2	
50mg	WT-M050M1	WT-M050F2	WT-M050F1	WT-M050F1B	WT-M050E2	
100mg	WT-M100M1	WT-M100F2	WT-M100F1	WT-M100F1B	WT-M100E2	
200mg	WT-M200M1	WT-M200F2	WT-M200F1	WT-M200F1B	WT-M200E2	
500mg	WT-M500M1	WT-M500F2	WT-M500F1	WT-M500F1B	WT-M500E2	
1g	WT-001M1	WT-001F2	WT-001F1	WT-001F1B	WT-001E2	cylinder
2g	WT-002M1	WT-002F2	WT-002F1	WT-002F1B	WT-002E2	
5g	WT-005M1	WT-005F2	WT-005F1	WT-005F1B	WT-005E2	
10g	WT-010M1	WT-010F2	WT-010F1	WT-010F1B	WT-010E2	
20g	WT-020M1	WT-020F2	WT-020F1	WT-020F1B	WT-020E2	
50g	WT-050M1	WT-050F2	WT-050F1	WT-050F1B	WT-050E2	
100g	WT-100M1	WT-100F2	WT-100F1	WT-100F1B	WT-100E2	
200g	WT-200M1	WT-200F2	WT-200F1	WT-200F1B	WT-200E2	
500g	WT-500M1	WT-500F2	WT-500F1	WT-500F1B	WT-500E2	
1kg	WT-1000M1	WT-1000F2	WT-1000F1	WT-1000F1B	WT-1000E2	
2kg	WT-2000M1	WT-2000F2	WT-2000F1	WT-2000F1B	WT-2000E2	
5kg	WT-5000M1	WT-5000F2	WT-5000F1	WT-5000F1B	WT-5000E2	
10kg	WT-10000M1	WT-10000F2	WT-10000F1	WT-10000F1B	WT-10000E2	
20kg	WT-20000M1	WT-20000F2	WT-20000F1	WT-20000F1B	WT-20000E2	

WEIGHT SET

Code / Weight	Grade and stainless steel type					Quantity
	M1(304)	F2(304)	F1(304)	F1(non-magnetic)	E2(non-magnetic)	
1mg-200g	WTS-200M1	WTS-200F2	WTS-200F1	WTS-200F1B	WTS-200E2	23pcs
1mg-500g	WTS-500M1	WTS-500F2	WTS-500F1	WTS-500F1B	WTS-500E2	24pcs

Each set includes two pieces 2mg/20mg/200mg/2g/20g/200g and one piece each other sizes

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