

SPC CABLE



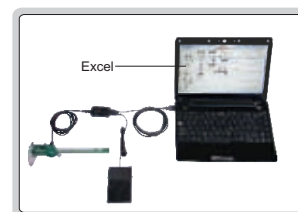
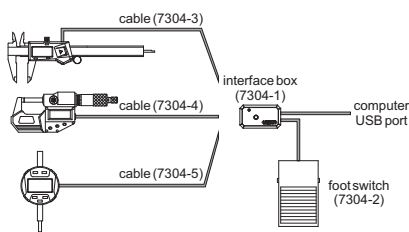
7304-1



7304-2



7304-3



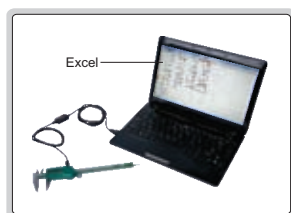
- Without special software, the data can be input as keyboard signal to Excel, Word, CAD, Skype, etc.
- Press the red button on the interface box or the foot switch to input data. Foot switch is optional
- The interface box can accept all cables (code 7304-3, 7304-4, 7304-5), but can accept only one cable at the same time

Code	Description	Applicable products
7304-1	interface box with cable (length 2m)	
7304-2	foot switch with cable (length 1.5m)	
7304-3	cable (length 0.5m)	digital calipers and digital depth gauges
7304-4	cable (length 0.5m)	digital micrometers (except 3108 and 3109)
7304-5	cable (length 0.5m)	digital indicators

SPC CABLE



7302-SPC1



- Without special software, the data can be input as keyboard signal to Excel, Word, CAD, Skype, etc.
- Press the red button on the interface box to input data
- Connected to USB port of computer
- Cable length 2.5m

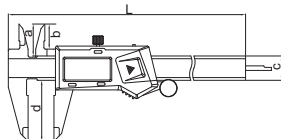
Code	Applicable products
7302-SPC1	digital calipers and digital depth gauges
7302-SPC2	digital micrometers (except 3108 and 3109)
7302-SPC3	digital indicators

DIGITAL CALIPER



1108-150

- Resolution: 0.01mm/0.0005"
- Buttons: on/off, zero, mm/inch
- Automatic power off, move the digital unit to turn on power
- Battery CR2032
- USB data output
- Meet DIN862
- Made of stainless steel
- Optional accessory: SPC cable



Code	Range	Accuracy	L	a	b	c	d
1108-150	0-150mm/0-6"	±0.03mm	236	21	16	16	40
1108-200	0-200mm/0-8"	±0.03mm	286	24	19	16	50
1108-300	0-300mm/0-12"	±0.03mm	400	25	20.5	17	60

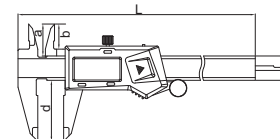
(mm)

METRIC DIGITAL CALIPER



1109-150

- Resolution: 0.01mm
- Buttons: on/off, zero, ABS
- Absolute and incremental measurement
- Automatic power off, move the digital unit to turn on power
- Battery CR2032
- USB data output
- Meet DIN862
- Made of stainless steel
- Optional accessory: SPC cable



Code	Range	Accuracy	L	a	b	c	d
1109-150	0-150mm	±0.03mm	236	21	16	16	40
1109-200	0-200mm	±0.03mm	286	24	19	16	50
1109-300	0-300mm	±0.03mm	400	25	20.5	17	60

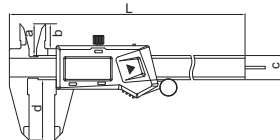
(mm)

DIGITAL CALIPER WITH ROUND DEPTH BAR



1119-150

- Resolution: 0.01mm/0.0005"
- Buttons: on/off, zero, mm/inch
- Automatic power off, move the digital unit to turn on power
- Battery CR2032
- USB data output
- Meet DIN862
- Made of stainless steel
- Optional accessory: SPC cable



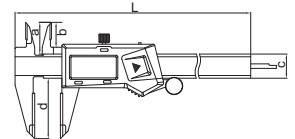
Code	Range	Accuracy	L	a	b	c	d
1119-150	0-150mm/0-6"	±0.03mm	236	21	16	16	40

DIGITAL CALIPER WITH CARBIDE TIPPED JAWS



1110-150A

- Carbide tipped jaws for inside and outside measurements
- Resolution: 0.01mm/0.0005"
- Buttons: on/off, zero, mm/inch
- Automatic power off, move the digital unit to turn on power
- Battery CR2032
- USB data output
- Meet DIN862
- Made of stainless steel
- Optional accessory: SPC cable



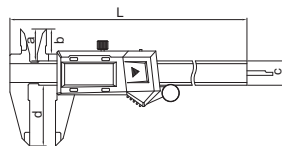
Code	Range	Accuracy	L	a	b	c	d
1110-150A	0-150mm/0-6"	±0.03mm	236	21	16	16	40

DIGITAL CALIPER



1102-150

- Resolution: 0.01mm, 0.0005", 1/128"
- Buttons: unit (mm/in/fraction), ABS, on/off, zero
- Absolute and incremental measurement
- Battery CR2032, automatic power off
- Data output
- Meet DIN862
- Made of stainless steel



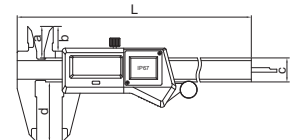
Code	Range	Accuracy	L	a	b	c	d
1102-150	0-150mm/0-6"	±0.03mm	234	21	16.5	16	40
1102-200	0-200mm/0-8"	±0.03mm	286	24	19	16	50
1102-300	0-300mm/0-12"	±0.03mm	390	26	21.5	16	60

WATERPROOF DIGITAL CALIPER



1118-150

- IP67 dust/waterproof
- Resolution: 0.01mm/0.0005"
- Button function: zero, on/off, mm/inch
- Battery CR2032, automatic power off
- Meet DIN862
- Made of stainless steel



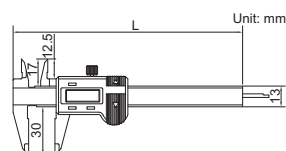
Code	Range	Accuracy	L	a	b	c	d
1118-150	0-150mm/0-6"	±0.03mm	236	21	16	16	40
1118-200	0-200mm/0-8"	±0.03mm	286	24	19	16	50
1118-300	0-300mm/0-12"	±0.03mm	400	25	20.5	17	60

MINI DIGITAL CALIPER



1111-100

- Resolution: 0.01mm/0.0005"
- Buttons: zero, mm/inch, on/off
- Battery SR44 or LR44
- Meet DIN862
- Made of stainless steel



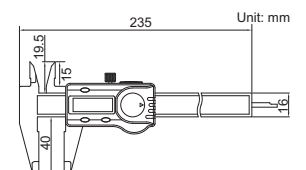
Code	Range	Accuracy	L
1111-75	0-75mm/0-3"	±0.02mm	144mm
1111-100	0-100mm/0-4"	±0.02mm	170mm

PLASTIC DIGITAL CALIPER



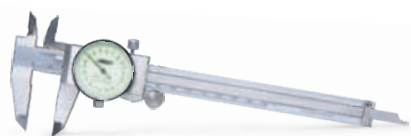
1139-150

- Made of hard plastic
- Resolution: 0.01mm/0.0005"
- Buttons: on/off, zero, mm/inch
- Battery CR2032, automatic power off



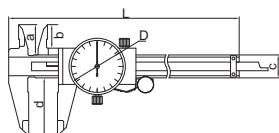
Code	Range	Accuracy
1139-150	0-150mm/0-6"	±0.1mm

DIAL CALIPER



1312-150A

- Shockproof dial indicator
- Made of stainless steel



Dial indicator graduation 0.02mm (mm)

Code	Range	Accuracy	L	a	b	c	d	D
1312-150A	0-150mm	±0.03mm	233	21	16.5	16	40	Ø39
1312-200A	0-200mm	±0.03mm	288	24	19	16	50	Ø39
1312-300A	0-300mm	±0.04mm	390	30	25	20	64	Ø44

Dial indicator graduation 0.01mm (mm)

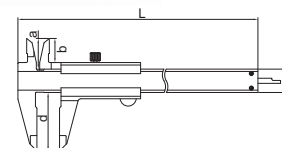
Code	Range	Accuracy	L	a	b	c	d	D
1311-150A	0-150mm	±0.03mm	233	21	16.5	16	40	Ø39
1311-200A	0-200mm	±0.03mm	288	24	19	16	50	Ø39
1311-300A	0-300mm	±0.04mm	390	24	19.5	17	64	Ø39

VERNIER CALIPER



1205-150S

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



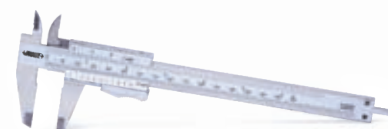
Graduation 0.02mm/0.001" (mm)

Code	Range	Accuracy	L	a	b	c	d
1205-1502S	0-150mm/0-6"	±0.03mm	235	20.5	15.5	16	40
1205-2002S	0-200mm/0-8"	±0.03mm	290	23.5	19	16	50
1205-3002S	0-300mm/0-12"	±0.03mm	414	27.5	22	20	64

Graduation 0.05mm/1/128" (mm)

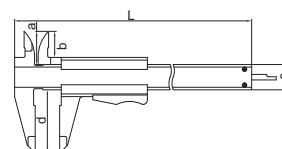
Code	Range	Accuracy	L	a	b	c	d
1205-150S	0-150mm/0-6"	±0.05mm	235	20.5	15.5	16	40
1205-200S	0-200mm/0-8"	±0.05mm	290	23.5	19	16	50
1205-300S	0-300mm/0-12"	±0.05mm	414	27.5	22	20	64

VERNIER CALIPER



1223-150

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



Graduation 0.05mm/1/128" (mm)

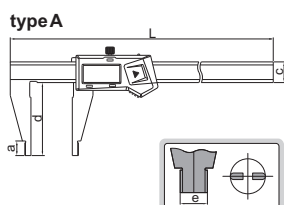
Code	Range	Accuracy	L	a	b	c	d
1223-150	0-150mm/0-6"	±0.05mm	230	20.5	16.5	16	40
1223-200	0-200mm/0-8"	±0.05mm	295	23.5	19	16	50

DIGITAL CALIPER



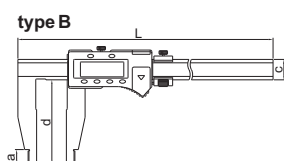
1106-306A

- Resolution: 0.01mm/0.0005"
- Buttons: on/off, zero, mm/inch
- Automatic power off, move the digital unit to turn on power
- Battery CR2032
- USB data output
- Made of stainless steel
- Optional accessory: SPC cable



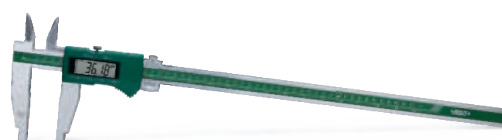
1106-501

- Resolution: 0.01mm/0.0005"
- Button function: on/off, zero, mm/inch, ABS, data preset
- Absolute and incremental measurement
- Battery CR2032
- Data output
- Made of stainless steel
- Optional accessory: SPC cable



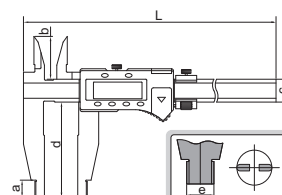
Code	Range	Type	Accuracy	a	c	d	e	L
1106-306A	0-300mm/0-12"	A	±0.04mm	12	17	60	10	420
1106-501	0-500mm/0-20"	B	±0.05mm	18	24	100	20	675
1106-601	0-600mm/0-24"	B	±0.05mm	18	24	100	20	770
1106-1002	0-1000mm/0-40"	B	±0.08mm	24	31	150	20	1220

DIGITAL CALIPER



1136-501

- Resolution: 0.01mm/0.0005"
- Button function: on/off, zero, mm/inch, ABS, data preset
- Absolute and incremental measurement
- Battery CR2032
- Data output
- Made of stainless steel
- Optional accessory: SPC cable



Code	Range	Accuracy	a	b	c	d	e	L
1136-501	0-500mm/0-20"	±0.05mm	18	45	24	100	20	675
1136-601	0-600mm/0-24"	±0.05mm	18	45	24	100	20	770
1136-1002	0-1000mm/0-40"	±0.08mm	24	60	31	150	20	1220

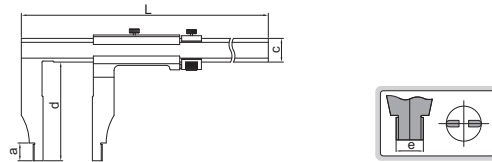
VERNIER CALIPER

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

Graduation 0.05mm (mm)							
Code	Range	Accuracy	a	c	d	e	L
1208-393	0-300mm	±0.07mm	12	20	90	10	410
1208-513	0-500mm	±0.07mm	18	24	100	20	670
1208-613	0-600mm	±0.08mm	18	24	100	20	770
1208-1023	0-1000mm	±0.12mm	24	31	150	20	1230



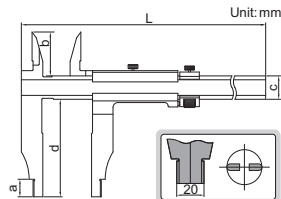
1208-613



VERNIER CALIPER



1236-613



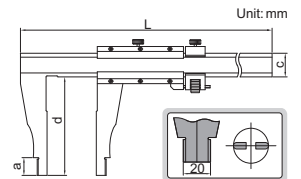
- With fine adjustment
- Made of stainless steel
- Satin chrome plated reading surface

Graduation 0.05mm (mm)							
Code	Range	Accuracy	a	b	c	d	L
1236-613	0-600mm	±0.08mm	18	45	24	100	770
1236-1023	0-1000mm	±0.12mm	24	60	31	150	1230

VERNIER CALIPER



1214-600



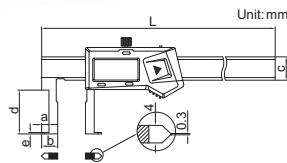
- With fine adjustment
- Made of stainless steel
- Satin chrome plated reading surface

Graduation 0.02mm/0.001" (mm)							
Code	Range	Accuracy	a	c	d	L	
1214-450	0-450mm/0-18"	±0.05mm	18	24	100	620	
1214-600	0-600mm/0-24"	±0.05mm	18	24	100	770	
1214-1000	0-1000mm/0-40"	±0.08mm	24	32	140	1216	

DIGITAL INSIDE GROOVE CALIPER



1120-150A



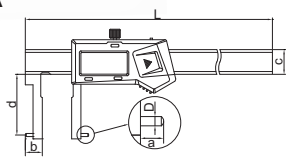
- Measure groove diameter
- Resolution: 0.01mm/0.0005"
- Buttons: on/off, zero, mm/inch
- Automatic power off, move the digital unit to turn on power
- Battery CR2032
- USB data output
- Made of stainless steel
- Optional accessory: SPC cable

(mm)							
Code	Range	Accuracy	L	a	b	c	d
1120-150A	22-150mm	±0.04mm	250	5	11	16	30

DIGITAL INSIDE POINT CALIPER



1121-150A



- Measure groove diameter
- Resolution: 0.01mm/0.0005"
- Buttons: on/off, zero, mm/inch
- Automatic power off, move the digital unit to turn on power
- Battery CR2032
- USB data output
- Made of stainless steel
- Optional accessory: SPC cable

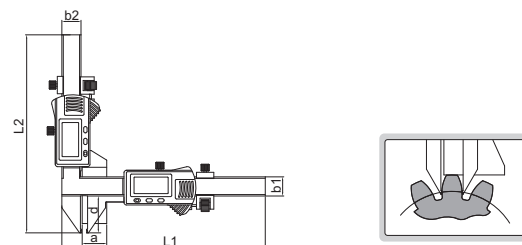
(mm)							
Code	Range	Accuracy	L	a	b	c	d
1121-150A	24-150mm	±0.04mm	250	5	12	16	30

DIGITAL GEAR TOOTH CALIPER



1181-M25A

- Resolution: 0.01mm/0.0005"
- Carbide tips
- Buttons: zero, on/off, mm/inch
- Battery SR44 or LR44
- Made of stainless steel

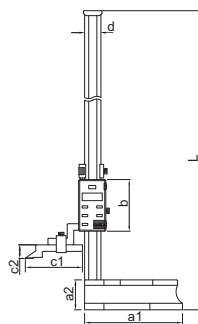


(mm)							
Code	Range	Accuracy	L1	L2	a	b1	b2
1181-M25A	M1-25mm	±0.04mm	170	165.5	21	16	16
1181-M50A	M5-50mm	±0.04mm	220	190	50.5	16	16

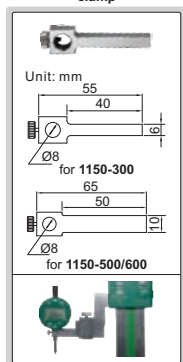
DIGITAL HEIGHT GAUGE



1150-500



clamp



- Resolution: 0.01mm/0.0005"
- Buttons: on/off, zero, mm/inch, ABS/INC, data hold, TOL, set
- ABS/INC is for absolute and incremental measurement
- TOL is for tolerance measurement
- Carbide tipped scriber
- Made of stainless steel (except the base)
- SR44 or LR44 battery
- Data output
- Supplied with clamp
- Optional accessory: SPC cable

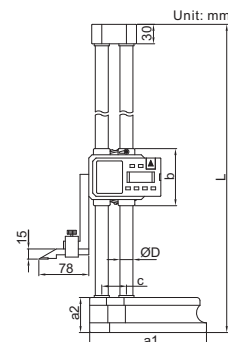
(mm)

Code	Range	Accuracy	L	a1	a2	b	c1	c2	d
1150-300	0-300mm/0-12"	±0.04mm	470	135	45	80	76	25	23
1150-500	0-500mm/0-20"	±0.05mm	720	180	55	95	103	25	30
1150-600	0-600mm/0-24"	±0.05mm	820	180	55	95	103	25	30

DIGITAL HEIGHT GAUGE



1151-300



Unit: mm

- Resolution: 0.01mm/0.001"
- Buttons: on/off, zero, mm/inch, ABS/INC, preset +, preset -, set
- ABS/INC is for absolute and incremental measurement
- Carbide tipped scriber
- Made of stainless steel (except the base)
- SR44 or LR44 battery
- Data output
- With driving wheel
- Optional accessory: SPC cable



driving wheel

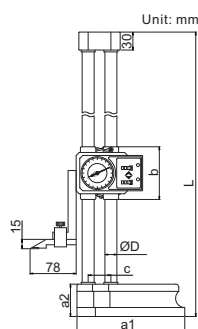
(mm)

Code	Range	Accuracy	L	a1	a2	b	c	ØD
1151-300	0-300mm/0-12"	±0.04mm	475	135	43	33	15	84
1151-450	0-450mm/0-18"	±0.05mm	660	180	54	38	20	88
1151-600	0-600mm/0-24"	±0.05mm	810	180	54	38	20	88

DIAL HEIGHT GAUGE



1351-300



Unit: mm

- Dial indicator graduation: 0.01mm
- One counter reads in the plus direction and another in the minus direction, so incremental measurement can be made in either direction
- Carbide tipped scriber
- Made of stainless steel (except the base)
- With driving wheel



driving wheel

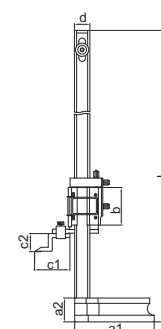
(mm)

Code	Range	Accuracy	L	a1	a2	b	c	ØD
1351-300	0-300mm	±0.04mm	475	135	43	84	33	15
1351-600	0-600mm	±0.05mm	810	180	54	88	38	20

VERNIER HEIGHT GAUGE



1250-300



- Graduation: 0.02mm/0.001"
- Adjustable main scale to set zero
- Carbide tipped scriber
- Made of stainless steel (except the base)
- Satin chrome plated scale
- Supplied with magnifier
- With fine adjustment

(mm)

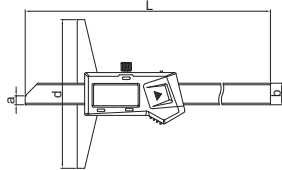
Code	Range	Accuracy	L	a1	a2	b	c1	c2	d
1250-300	0-300mm/0-12"	±0.04mm	545	135	43	75	80	30	28
1250-450	0-450mm/0-18"	±0.05mm	720	180	54	85	80	41	35
1250-600	0-600mm/0-24"	±0.05mm	870	180	54	85	80	41	35

DIGITAL DEPTH GAUGE



1141-150A

- Resolution: 0.01mm/0.0005"
- Buttons: on/off, zero, mm/inch
- Automatic power off, move the digital unit to turn on power
- Battery CR2032
- USB data output
- Made of stainless steel
- Optional accessory: SPC cable

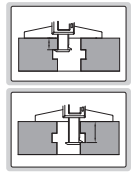


Code	Range	Accuracy	L	a	b	d
1141-150A	0-150mm/0-6"	±0.03mm	230	6	14.5	100
1141-200A	0-200mm/0-8"	±0.03mm	280	6	14.5	100
1141-300A	0-300mm/0-12"	±0.04mm	380	6	14.5	150

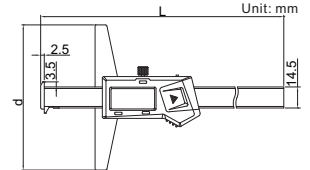
DIGITAL DOUBLE HOOK DEPTH GAUGE



1144-150A



- Resolution: 0.01mm/0.0005"
- Buttons: on/off, zero, mm/inch
- Automatic power off, move the digital unit to turn on power
- Battery CR2032
- USB data output
- Made of stainless steel
- Optional accessory: SPC cable



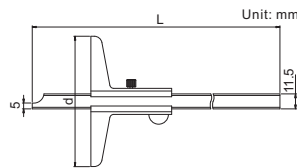
Code	Range	Accuracy	L	d
1144-150A	0-150mm/0-6"	±0.03mm	233	100
1144-200A	0-200mm/0-8"	±0.03mm	283	100
1144-300A	0-300mm/0-12"	±0.04mm	383	150

VERNIER DEPTH GAUGE



1240-2001

- Made of stainless steel
- Satin chrome plated reading surface



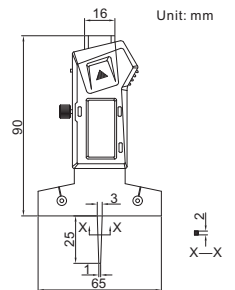
Code	Range	Accuracy	L	d
1240-1501	0-150mm	±0.03mm	245	100
1240-2001	0-200mm	±0.03mm	282	100
1240-3001	0-300mm	±0.04mm	382	100

Code	Range	Accuracy	L	d
1240-150	0-150mm	±0.05mm	245	100
1240-200	0-200mm	±0.05mm	282	100
1240-300	0-300mm	±0.08mm	382	100

DIGITAL DEPTH GAUGE

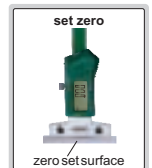


1145-25A



- Measure depth of small groove and hole, also measure depth of tire thread
- Resolution: 0.01mm/0.0005"
- Buttons: on/off, zero, mm/inch
- Supplied with zero set surface
- Automatic power off, move the digital unit to turn on power
- Battery CR2032
- USB data output
- Made of stainless steel
- Optional accessory: SPC cable

Code	Range	Accuracy
1145-25A	0-25mm/0-1"	±0.03mm

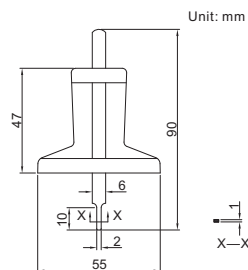


VERNIER DEPTH GAUGE



1244-30

- Graduation: 0.1mm
- Made of stainless steel

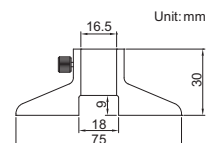


Code	Range	Accuracy
1244-30	0-30mm	±0.10mm

DEPTH BASE ATTACHMENT



6140

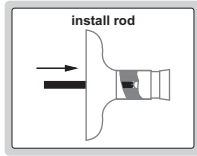
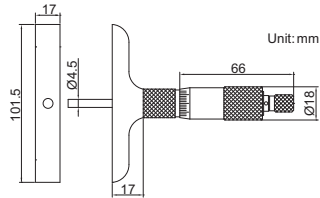


- To increase the stability of depth measurement
- Suitable for 0-150mm and 0-200mm of vernier calipers, digital calipers and dial calipers with beam width 16mm
- Made of stainless steel

DEPTH MICROMETER



3240-100



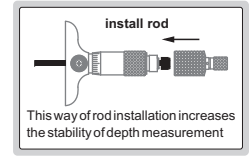
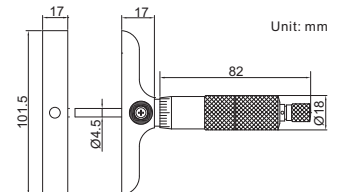
Code	Range	Rods
3240-25	0-25mm	1pc
3240-50	0-50mm	2pcs
3240-100	0-100mm	4pcs
3240-150	0-150mm	6pcs

- Graduation: 0.01mm
- Micrometer head accuracy: $\pm 3\mu\text{m}$
- Rod accuracy: $\pm (2 + L/75)\mu\text{m}$, L is the measuring range in mm
- Rods with flat end
- Ratchet stop

DEPTH MICROMETER



3241-100



Code	Range	Rods
3241-25	0-25mm	1pc
3241-50	0-50mm	2pcs
3241-100	0-100mm	4pcs
3241-150	0-150mm	6pcs

- Graduation: 0.01mm
- Micrometer head accuracy: $\pm 3\mu\text{m}$
- Rod accuracy: $\pm (2 + L/75)\mu\text{m}$, L is the measuring range in mm
- Rods with flat end
- Ratchet stop

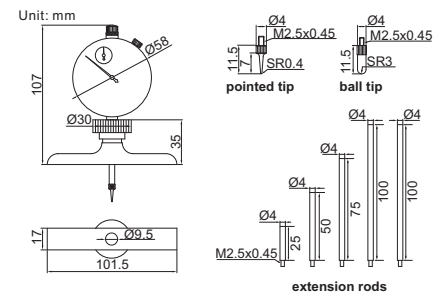
DIAL DEPTH GAUGE

- Dial indicator stroke: 30mm
- Dial indicator graduation: 0.01mm
- Stainless steel base
- Extension rods: 25mm (1pc), 50mm (1pc), 75mm (1pc), 100mm (2pcs)
- Supplied with pointed tip and ball tip

Code	Range	Accuracy
2342-202	0-300mm	$\pm 0.03\text{mm}$



2342-202



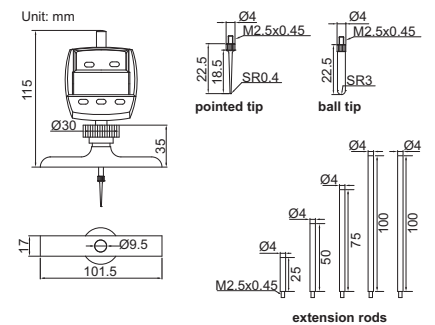
DIGITAL DEPTH GAUGE

- Digital indicator stroke: 25.4mm/1"
- Digital indicator resolution: 0.005mm/0.0005"
- Mode button : to track the minimum or maximum reading
- '+/-' button: to change measuring direction
- CR2032 battery, automatic power off
- Stainless steel base
- Extension rods: 25mm (1pc), 50mm (1pc), 75mm (1pc), 100mm (2pcs)
- Supplied with pointed tip and ball tip

Code	Range	Accuracy
2141-202	0-300mm/0-12"	$\pm 0.03\text{mm}$



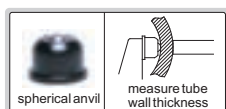
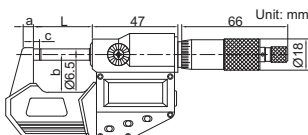
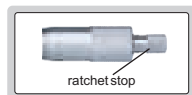
2141-202



DIGITAL OUTSIDE MICROMETER



3101-25A



- Resolution 0.001mm/0.00005"
- IP65 dust/waterproof
- Button function: on/off, set, mm/inch, ABS/INC, data output
- RS232 data output
- SR44 or LR44 battery, automatic power off
- Carbide measuring faces
- Supplied with spherical anvil
- Setting standards are included (except 0-25mm/0-1")
- Optional accessory: SPC cable

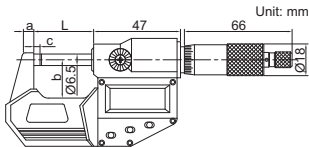
Ratchet stop type (mm)						
Code	Range	Accuracy	L	a	b	c
3101-25A	0-25mm/0-1"	$\pm 2\mu\text{m}$	32.5	6	24	3
3101-50A	25-50mm/1-2"	$\pm 2\mu\text{m}$	57.5	8	32	3
3101-75A	50-75mm/2-3"	$\pm 3\mu\text{m}$	82.5	8	44.5	3
3101-100A	75-100mm/3-4"	$\pm 3\mu\text{m}$	107.5	8	57	3

Ratchet thimble type (mm)						
Code	Range	Accuracy	L	a	b	c
3101-25FA	0-25mm/0-1"	$\pm 2\mu\text{m}$	32.5	6	24	3

METRIC DIGITAL OUTSIDE MICROMETER



3108-25A



- Resolution 0.001mm
- IP54 dust/waterproof
- Button function: on/off, set, ABS/INC
- Without data output
- SR44 or LR44 battery, automatic power off
- Carbide measuring faces
- Supplied with spherical anvil
- Setting standards are included (except 0-25mm)

Ratchet stop type (mm)

Code	Range	Accuracy	L	a	b	c
3108-25A	0-25mm	±2μm	32.5	6	24	3
3108-50A	25-50mm	±2μm	57.5	8	32	3
3108-75A	50-75mm	±3μm	82.5	8	44.5	3
3108-100A	75-100mm	±3μm	107.5	8	57	3

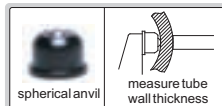
Ratchet thimble type (mm)

Code	Range	Accuracy	L	a	b	c
3108-25FA	0-25mm	±2μm	32.5	6	24	3

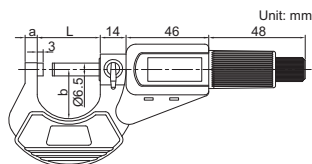
DIGITAL OUTSIDE MICROMETER



3109-25A



- Resolution 0.001mm/0.00005"
- Button function: on/off, set, mm/inch, ABS/INC
- Without data output
- SR44 or LR44 battery, automatic power off
- Carbide measuring faces
- Ratchet thimble
- Supplied with spherical anvil
- Setting standards are included (except 0-25mm/0-1")



Code	Range	Accuracy	L	a	b
3109-25A	0-25mm/0-1"	±2μm	32	6	27.5
3109-50A	25-50mm/1-2"	±2μm	57	8	37
3109-75A	50-75mm/2-3"	±3μm	82	8	50
3109-100A	75-100mm/3-4"	±3μm	107	10	61

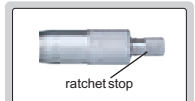
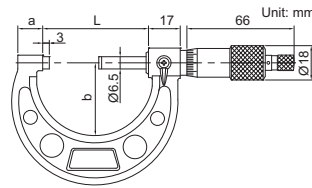
OUTSIDE MICROMETER



3203-25A



3203-50A



- Graduation: 0.01mm
- Carbide measuring faces
- Meet DIN863
- Supplied with setting standards (except 0-25mm)

Ratchet stop type (mm)

Code	Range	Accuracy	L	a	b
3203-25A	0-25mm	4μm	32	9	28
3203-50A	25-50mm	4μm	57	14	38
3203-75A	50-75mm	5μm	82	15	49
3203-100A	75-100mm	5μm	107	15	60
3203-125A	100-125mm	6μm	133	16.5	73
3203-150A	125-150mm	6μm	158	16.5	85
3203-175A	150-175mm	7μm	183	19.4	104
3203-200A	175-200mm	7μm	209	19.4	117
3203-225A	200-225mm	8μm	234	19.4	130
3203-250A	225-250mm	8μm	260	19.4	142
3203-275A	250-275mm	9μm	285	19.4	155
3203-300A	275-300mm	9μm	310	19.4	168

Ratchet thimble type (mm)

Code	Range	Accuracy	L	a	b
3203-25FA	0-25mm	4μm	32	9	28
3203-50FA	25-50mm	4μm	57	14	38

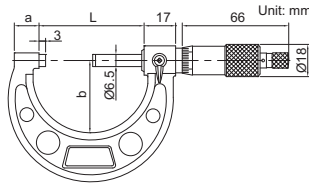
Micrometer set (ratchet stop type)

Code	Range	Micrometers included
3203-1004A	0-100mm	3203-25A, 3203-50A, 3203-75A, 3203-100A
3203-1506A	0-150mm	3203-25A, 3203-50A, 3203-75A, 3203-100A, 3203-125A, 3203-150A
3203-3012A	0-300mm	3203-25A, 3203-50A, 3203-75A, 3203-100A, 3203-125A, 3203-150A, 3203-175A, 3203-200A, 3203-225A, 3203-250A, 3203-275A, 3203-300A

1µm GRADUATION OUTSIDE MICROMETER



3210-25A



- Graduation 0.001mm
- Carbide measuring faces
- Meet DIN863
- Ratchet stop
- Supplied with setting standards (except 0-25mm)

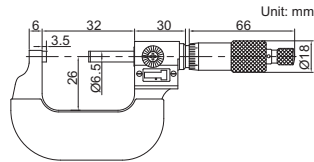
Code	Range	Accuracy	L	a	b
3210-25A	0-25mm	4µm	32	9	28
3210-50A	25-50mm	4µm	57	14	38
3210-75A	50-75mm	5µm	82	15	49
3210-100A	75-100mm	5µm	107	15	60

OUTSIDE MICROMETER WITH COUNTER



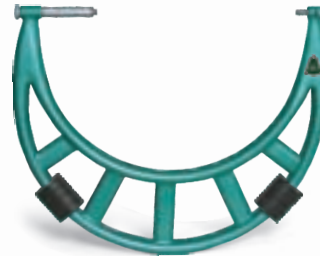
3400-25

- Counter resolution 0.01mm
- Thimble graduation 0.01mm
- Carbide measuring faces
- Ratchet stop
- Meet DIN863

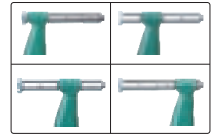


Code	Range	Accuracy
3400-25	0-25mm	4µm

OUTSIDE MICROMETER WITH EXTENSION ANVIL COLLAR

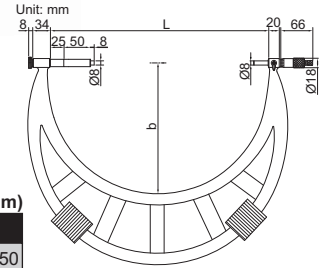


3205-400



adjust collars for different measuring ranges

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

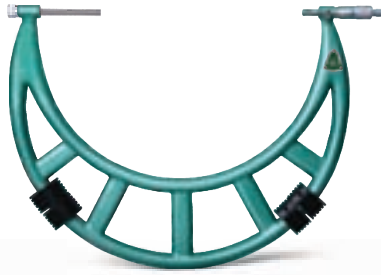


Code	Range	Accuracy	L	b
3205-400	300-400mm	11µm	410	250
3205-500	400-500mm	13µm	510	295
3205-600	500-600mm	14µm	610	345

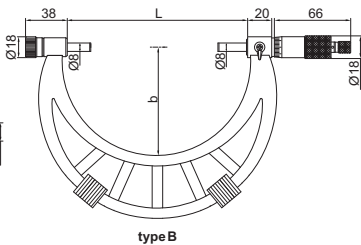
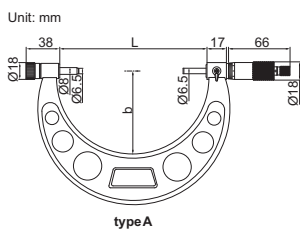
OUTSIDE MICROMETER WITH INTERCHANGEABLE ANVILS



3206-150A



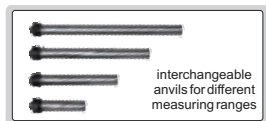
3206-400



type B

type A

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

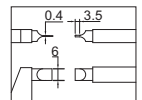


Code	Range	Type	Accuracy	L	b
3206-150A	0-150mm	A	6µm	158	82
3206-200A	100-200mm	A	7µm	208	114
3206-300A	150-300mm	A	9µm	308	165
3206-400	300-400mm	B	11µm	409	224
3206-500	400-500mm	B	13µm	509	275

BLADE MICROMETER

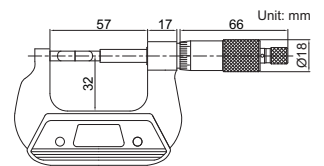


3232-25BA



- Measure the groove diameter of shafts and keyways
- Graduation 0.01mm
- Non-rotating spindle
- Ratchet stop

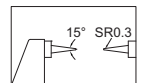
Code	Range	Accuracy
3232-25BA	0-25mm	4µm



POINT MICROMETER

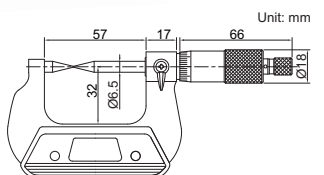


3230-25BA



- Measure the web thickness of drills, small grooves and keyways
- Graduation 0.01mm
- Ratchet stop
- Carbide tips

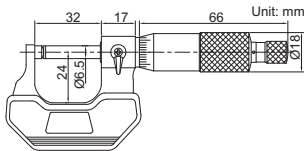
Code	Range	Accuracy
3230-25BA	0-25mm	4µm



SPHERICAL ANVIL TUBE MICROMETER

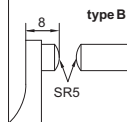
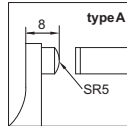
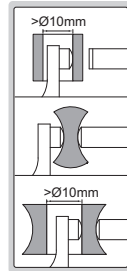


3260-25A



- Measure wall thickness of tubes
- Graduation 0.01mm
- Ratchet stop
- Carbide measuring faces

Code	Range	Type	Accuracy
3260-25A	0-25mm	A	4µm
3260-25SA	0-25mm	B	4µm



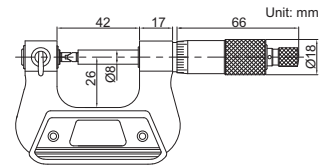
SCREW THREAD MICROMETER

measuring tips are not included



3281-25A

- Measure pitch diameter of screw threads
- Graduation 0.01mm
- Non-rotating spindle
- Ratchet stop
- Optional accessory: measuring tips (code 7381)



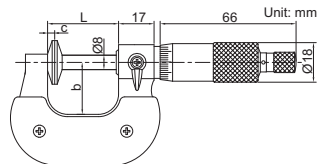
Code	Range	Micrometer head accuracy	Measuring tips accuracy
3281-25A	0-25mm	4µm	8µm

DISK MICROMETER

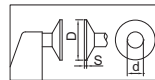
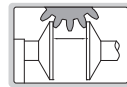


3282-25

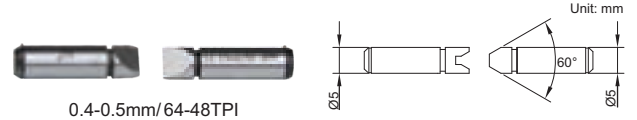
- Measure root tangent length of gear
- Graduation 0.01mm
- Ratchet stop
- Supplied with setting standards (except 0-25mm)



Code	Range	Accuracy	L	b	c	D	S	d
3282-25	0-25mm	4µm	34	24	3.3	Ø20	0.7	Ø8
3282-50	25-50mm	4µm	59	32	3.3	Ø20	0.7	Ø8



MEASURING TIPS FOR SCREW THREAD MICROMETER



Metric and unified thread (60° thread angle)

Code	Pitch
7381-TS	0.4-0.5mm/64-48TPI 1-1.75mm/24-14TPI 3.5-5mm/8-5TPI

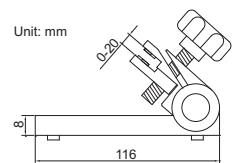
6 pairs per set

MICROMETER STAND



6300

- Suitable for micrometers up to 100mm



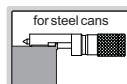
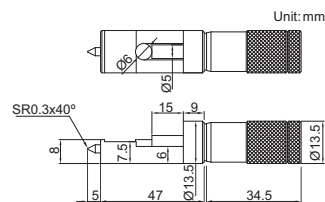
CAN SEAM MICROMETER



3293-131

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

Code	Range	Accuracy
3293-131	0-13mm	4µm

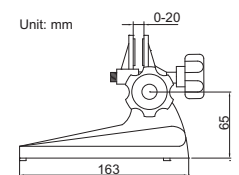


MICROMETER STAND



6301

- Suitable for micrometers up to 100mm

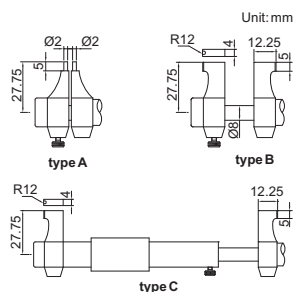


INSIDE MICROMETER



3220-50

- Graduation 0.01mm
- Ratchet stop
- Carbide measuring faces
- Optional accessory: setting ring (code 6312)



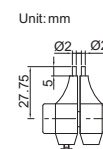
Code	Range	Type	Setting ring	Accuracy
3220-30	5-30mm	A	5mm	5μm
3220-50	25-50mm	B	25mm	6μm
3220-75	50-75mm	B	—	7μm
3220-100	75-100mm	C	—	8μm
3220-125	100-125mm	C	—	9μm
3220-150	125-150mm	C	—	9μm

DIGITAL INSIDE MICROMETER



3520-30

- Resolution 0.001mm/0.0005"
- IP54 dust/waterproof
- Button function: on/off, set, mm/inch, ABS/INC, data output
- RS232 data output
- SR44 or LR44 battery, automatic power off
- Ratchet stop
- Carbide measuring faces
- Optional accessory: SPC cable



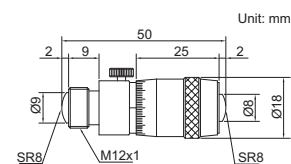
Code	Range	Setting ring	Accuracy
3520-30	5-30mm/0.2-1.2"	5mm	±5μm

TUBULAR INSIDE MICROMETER

- Graduation 0.01mm
- Accuracy: $(3+n+L/50)\mu\text{m}$
n=number of rods,
L=maximum measuring length (mm)
- Supplied with setting standards
- Carbide measuring faces



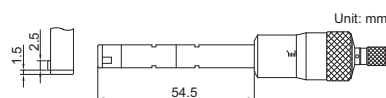
3222-150



Code	Range	Travel of micrometer head	Extension rods
3222-150	50-150mm	13mm	13mm, 25mm, 50mm
3222-300	50-300mm	13mm	13mm, 25mm, 50mm(2pcs), 100mm
3222-500	50-500mm	13mm	13mm, 25mm, 50mm(2pcs), 100mm, 200mm
3222-1000	50-1000mm	13mm	13mm, 25mm, 50mm(2pcs), 100mm, 200mm(2pcs), 300mm

THREE POINTS INTERNAL MICROMETER

- Graduation 0.001mm
- Ratchet stop
- Supplied with setting rings and extension rods



Individual

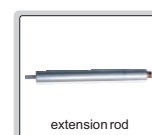
Code	Range	Accuracy	Setting ring	Extension rod
3227-8	6-8mm	4μm	Ø6mm	100mm
3227-10	8-10mm	4μm	Ø8mm	100mm
3227-12	10-12mm	4μm	Ø10mm	100mm

Set

Code	Range	Micrometers included	Setting ring	Extension rod
3227-123	6-12mm	6-8mm, 8-10mm, 10-12mm	Ø6mm, Ø8mm, Ø10mm	100mm

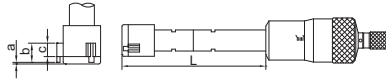


3227-10



THREE POINTS INTERNAL MICROMETER

- Graduation 0.005mm
- Carbide measuring faces
- Ratchet stop
- Supplied with setting rings and extension rods



3227-16

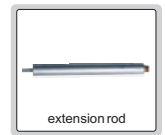
Code	Range	Accuracy	Setting ring	Extension rod	L	a	b	c
3227-16	12-16mm	4μm	Ø16mm	150mm	80	0.5	6	4.5
3227-20	16-20mm	4μm	Ø16mm	150mm	80	0.5	6	4.5
3227-25	20-25mm	4μm	Ø25mm	150mm	90	0.5	8	6
3227-30	25-30mm	4μm	Ø25mm	150mm	90	0.5	8	6
3227-40	30-40mm	4μm	Ø40mm	150mm	97	0.5	14	12
3227-50	40-50mm	5μm	Ø40mm	150mm	97	0.5	14	12
3227-63	50-63mm	5μm	Ø62mm	150mm	114	0.5	17.5	14.5
3227-75	62-75mm	5μm	Ø62mm	150mm	114	0.5	17.5	14.5
3227-88	75-88mm	5μm	Ø87mm	150mm	114	0.5	17.5	14.5
3227-100	87-100mm	5μm	Ø87mm	150mm	114	0.5	17.5	14.5

Set

Code	Range	Micrometers included	Setting ring	Extension rod
3227-202	12-20mm	12-16mm, 16-20mm	Ø16mm	150mm
3227-504	20-50mm	20-25mm, 25-30mm, 30-40mm, 40-50mm	Ø25mm, Ø40mm	150mm
3227-1004	50-100mm	50-63mm, 62-75mm, 75-88mm, 87-100mm	Ø62mm, Ø87mm	150mm

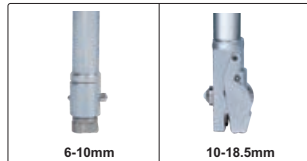


setting ring



extension rod

BORE GAUGE FOR SMALL HOLES

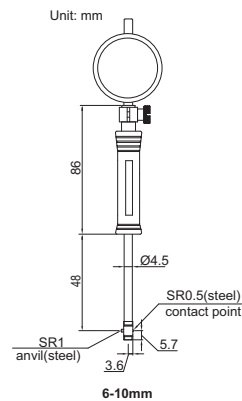


6-10mm

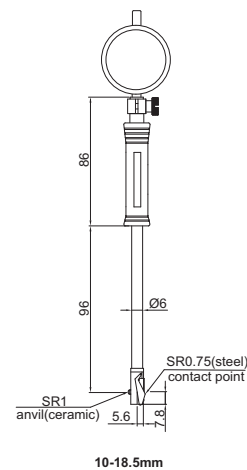
10-18.5mm

- Optional accessory: setting ring (code 6312)

Code	Range	Indicator	Accuracy	Repeatability
2852-10	6-10mm	dial indicator, range 3mm, graduation 0.01mm (code 2311-3F)	±0.012mm	0.003mm
2852-18	10-18.5mm		±0.012mm	0.003mm



6-10mm



10-18.5mm



2852-10

PRECISION BORE GAUGE



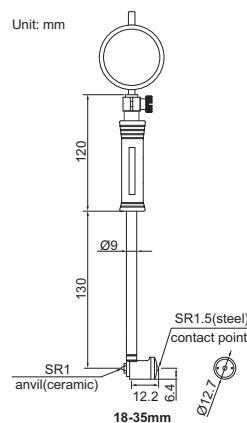
18-35mm

35-60mm

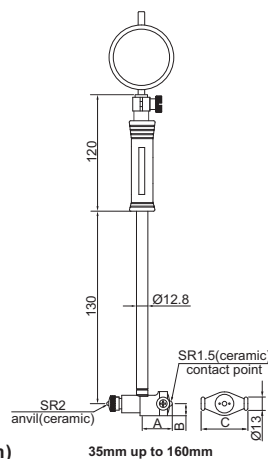
50-160mm

- Optional accessory: setting ring (code 6312)

Code	Range	Indicator	Accuracy	Repeatability	A	B	C
2825-35A	18-35mm	dial indicator, range 1mm, graduation 0.001mm (code 2313-1FA)	±0.006mm	0.002mm	—	—	—
2825-60A	35-60mm		±0.007mm	0.002mm	12.2	6.4	27
2825-160A	50-160mm		±0.007mm	0.002mm	26	9	35



18-35mm

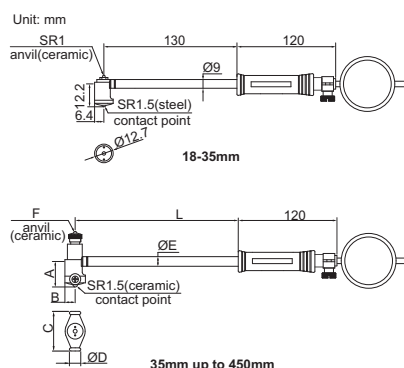


35mm up to 160mm



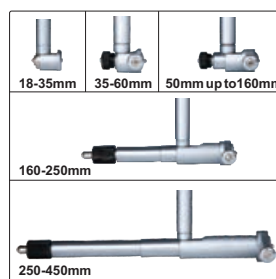
2825-160A

BORE GAUGE

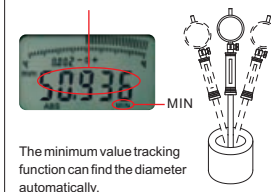


2322-35A

2122-160A



Read the diameter directly, after inputting the size of setting ring.



The minimum value tracking function can find the diameter automatically.

- Optional accessory: setting ring (code 6312), long handle (code 7351)

Code	Range	Indicator	Accuracy	Repeatability
2322-35A	18-35mm	dial indicator, range 10mm, graduation 0.01mm (code 2308-10FA)	±0.015mm	0.003mm
2322-60A	35-60mm		±0.018mm	0.003mm
2322-100A	50-100mm		±0.018mm	0.003mm
2322-160A	50-160mm		±0.018mm	0.003mm
2322-161A	100-160mm		±0.018mm	0.003mm
2322-250A	160-250mm		±0.018mm	0.003mm
2322-450A	250-450mm		±0.018mm	0.003mm

Range	A	B	C	ØD	ØE	F	L
35-60mm	12.2	6.4	27	13	12.8	SR2	130
50-100mm	18.8	9	27	13	12.8	SR2	130
50-160mm	26	9	35	13	12.8	SR2	130
100-160mm	26	9	35	13	12.8	SR2	130
160-250mm	56.5	13	74.5	15	12.8	SR2	230
250-450mm	86.5	15	101.5	15	14.5	SR2.5	230

Code	Range	Indicator	Accuracy	Repeatability
2122-160A	50-160mm	digital indicator, range: 12.7mm/0.5", resolution: 0.002mm/0.0001" (code 2108-10F)	±0.018mm	0.003mm

BORE GAUGE SET

- Indicator: dial indicator code 2308-10FA range 10mm, graduation 0.01mm
- Optional accessory: setting ring (code 6312)

Code	Range	Bore gauges included	Accuracy	Repeatability
2824-S3	18-160mm	18-35mm 35-60mm 50-160mm	18-35mm ±0.015mm 35-60mm ±0.018mm 50-160mm ±0.018mm	0.003mm



2824-S3

SETTING RING

- For zero setting of inside micrometers, three points internal micrometers and bore gauges
- Deviation (difference between the nominal size and the size marked on the setting ring when supplied): ±3µm for Ø3-100mm, ±5µm for Ø100-300mm
- Cylindricity: 1µm for Ø3-100mm, 2µm for Ø100-250mm, 2.5µm for Ø250-300mm



6312-20

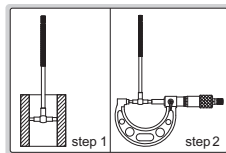
Code	Nominal Size	Code	Nominal Size	Code	Nominal Size	Code	Nominal Size	Code	Nominal Size
6312-3	3mm	6312-17	17mm	6312-31	31mm	6312-45	45mm	6312-87	87mm
6312-4	4mm	6312-18	18mm	6312-32	32mm	6312-46	46mm	6312-90	90mm
6312-5	5mm	6312-19	19mm	6312-33	33mm	6312-47	47mm	6312-95	95mm
6312-6	6mm	6312-20	20mm	6312-34	34mm	6312-48	48mm	6312-100	100mm
6312-7	7mm	6312-21	21mm	6312-35	35mm	6312-49	49mm	6312-125	125mm
6312-8	8mm	6312-22	22mm	6312-36	36mm	6312-50	50mm	6312-150	150mm
6312-9	9mm	6312-23	23mm	6312-37	37mm	6312-55	55mm	6312-175	175mm
6312-10	10mm	6312-24	24mm	6312-38	38mm	6312-60	60mm	6312-200	200mm
6312-11	11mm	6312-25	25mm	6312-39	39mm	6312-62	62mm	6312-225	225mm
6312-12	12mm	6312-26	26mm	6312-40	40mm	6312-65	65mm	6312-250	250mm
6312-13	13mm	6312-27	27mm	6312-41	41mm	6312-70	70mm	6312-275	275mm
6312-14	14mm	6312-28	28mm	6312-42	42mm	6312-75	75mm	6312-300	300mm
6312-15	15mm	6312-29	29mm	6312-43	43mm	6312-80	80mm		
6312-16	16mm	6312-30	30mm	6312-44	44mm	6312-85	85mm		

TELESCOPING GAUGE SET



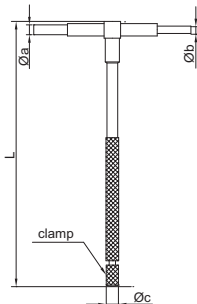
4206-1

- 6 gauges per set
- For quick measurement of inside diameter of holes and width of slots
- Satin chrome finish



Code	Total range	Gauges included
4206-1	8-150mm	8-12.7mm, 12.7-19mm 19-32mm, 32-54mm 54-90mm, 90-150mm

Range	L	Øa	Øb	Øc
8-12.7mm	115	3.9	2.9	6.2
12.7-19mm	115	5.3	3.8	6.2
19-32mm	115	5.3	3.8	6.2
32-54mm	137	7.6	6.1	7.2
54-90mm	137	7.6	6.1	7.2
90-150mm	137	7.6	6.1	7.2



DIGITAL INDICATOR



2103-10

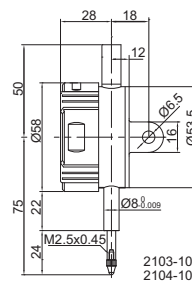


2104-25

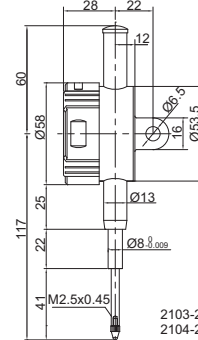


2103-50

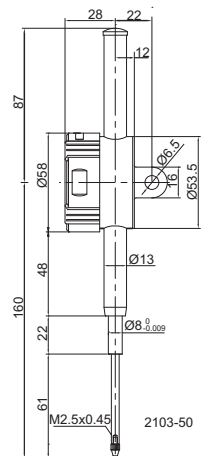
Unit: mm



2103-10
2104-10



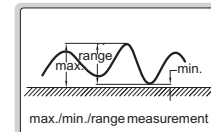
2103-25
2104-25



2103-50



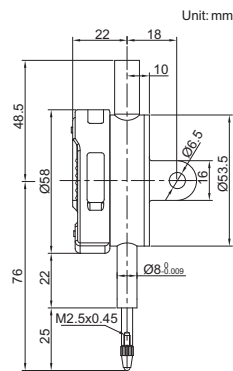
display can be rotated by 320°



DIGITAL INDICATOR



2112-10



Unit: mm

- Economic model
- Button function: on/off, inch/mm, zero
- CR2032 battery, automatic power off
- USB data output
- Optional accessory: SPC cable, backs, contact points

Code	Range	Resolution	Accuracy (f _{ges})	Hysteresis (f _u)	Remark
2112-10	12.7mm/0.5"	0.01mm/0.0005"	20µm	10µm	lug back
2112-101	12.7mm/0.5"	0.001mm/0.00005"	5µm	2µm	lug back
2112-10F	12.7mm/0.5"	0.01mm/0.0005"	20µm	10µm	flat back
2112-101F	12.7mm/0.5"	0.001mm/0.00005"	5µm	2µm	flat back

- Reading in digit and analog
- Display can be rotated by 320°
- Button function: tolerance Go and No-Go display, data preset, measuring direction change, max./min./range measurement, inch/metric conversion, absolute/incremental measurement
- CR2032 battery, automatic power off
- USB data output
- Optional accessory: SPC cable, backs, contact points

Resolution 0.001mm/0.00005"

Code	Range	Accuracy (f _{ges})	Hysteresis (f _u)	Remark
2103-10	12.7mm/0.5"	5µm	2µm	lug back
2103-25	25.4mm/1"	5µm	3µm	lug back
2103-50	50.8mm/2"	6µm	3µm	lug back
2103-10F	12.7mm/0.5"	5µm	2µm	flat back
2103-25F	25.4mm/1"	5µm	3µm	flat back
2103-50F	50.8mm/2"	6µm	3µm	flat back

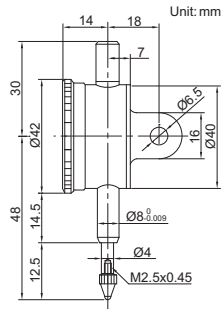
Resolution 0.01mm/0.0005"

Code	Range	Accuracy (f _{ges})	Hysteresis (f _u)	Remark
2104-10	12.7mm/0.5"	20µm	10µm	lug back
2104-25	25.4mm/1"	20µm	10µm	lug back
2104-10F	12.7mm/0.5"	20µm	10µm	flat back
2104-25F	25.4mm/1"	20µm	10µm	flat back

DIAL INDICATOR



2311-5



- Jeweled bearing
- Supplied with limit hands
- Optional accessory: backs, contact points

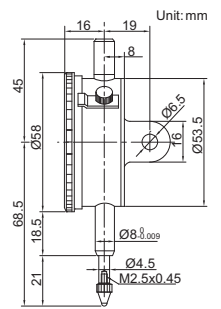
Graduation 0.01mm

Code	Range	Accuracy (f _{ges})	Hysteresis (f _u)	Range/rev	Dial reading	Remark
2311-5	5mm	16µm	3µm	0.5mm	0-50	lug back
2311-5F	5mm	16µm	3µm	0.5mm	0-50	flat back

DIAL INDICATOR



2308-10A



- Jeweled bearing
- Supplied with limit hands and bezel clamp
- Optional accessory: backs, contact points

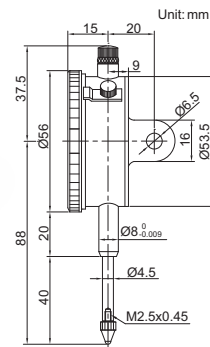
Graduation 0.01mm

Code	Range	Accuracy (f _{ges})	Hysteresis (f _u)	Range/rev	Dial reading	Remark
2308-10A	10mm	17µm	3µm	1mm	0-100	lug back
2308-10FA	10mm	17µm	3µm	1mm	0-100	flat back

DIAL INDICATOR



2310-30A



- Supplied with limit hands and bezel clamp
- Optional accessory: backs, contact points

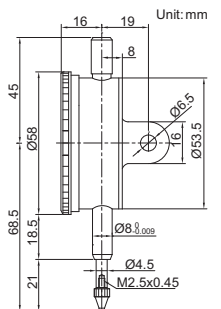
Graduation 0.01mm

Code	Range	Accuracy (f _{ges})	Hysteresis (f _u)	Range/rev	Dial reading	Remark
2310-30A	30mm	35µm	7µm	1mm	0-100	lug back
2310-30FA	30mm	35µm	7µm	1mm	0-100	flat back

SHOCKPROOF DIAL INDICATOR



2314-10A



- Shockproof
- Jeweled bearing
- Supplied with limit hands and bezel clamp
- Optional accessory: backs, contact points

Graduation 0.01mm

Code	Range	Accuracy (f _{ges})	Hysteresis (f _u)	Range/rev	Dial reading	Remark
2314-10A	10mm	20µm	3µm	1mm	0-100	lug back
2314-10FA	10mm	20µm	3µm	1mm	0-100	flat back

DIAL INDICATOR



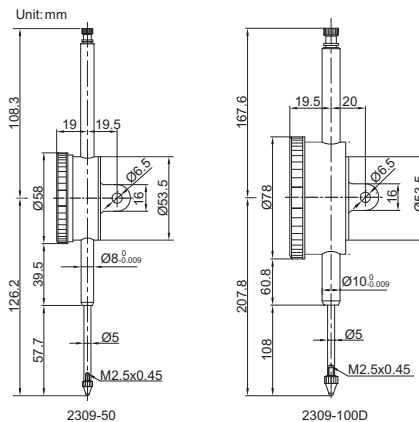
2309-50

- Shockproof
- Jeweled bearing
- Supplied with limit hands
- Optional accessory: backs, contact points

Graduation 0.01mm

Code	Range	Accuracy (f _{ges})	Hysteresis (f _u)	Range/rev	Dial reading	Remark
2309-50	50mm	40µm	8µm	1mm	0-100	flat back with spare lug back
2309-100D	100mm	50µm	9µm	1mm	0-100	flat back with spare lug back

Note: 1) 2309-100D can only be used vertically
2) 2309-100D is supplied with stem clamp Ø10mm for magnetic stands (code 6200-60, 6201-60, 6202-80, 6202-100)



back of 2309-100D

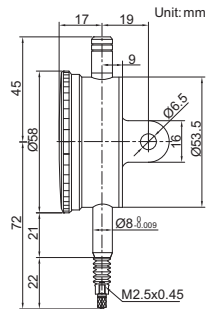


stem clamp Ø10mm for 2309-100D

WATERPROOF DIAL INDICATOR



2324-10



- IP54 dust/waterproof
- Jeweled bearing

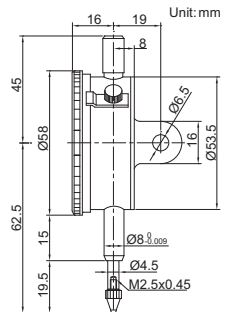
Graduation 0.01mm

Code	Range	Accuracy (fges)	Hysteresis (fu)	Range/rev	Dial reading	Remark
2324-10	10mm	17µm	3µm	1mm	0-100	lug back
2324-10F	10mm	17µm	3µm	1mm	0-100	flat back

PRECISION DIAL INDICATOR



2313-1A



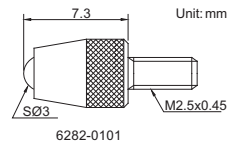
- Jeweled bearing
- Supplied with limit hands and bezel clamp
- Optional accessory: backs, contact points

Graduation 0.001mm

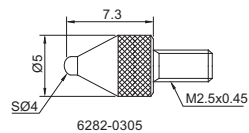
Code	Range	Accuracy (fges)	Hysteresis (fu)	Range/rev	Dial reading	Remark
2313-1A	1mm	5µm	2µm	0.2mm	0-100-0	lug back
2313-1FA	1mm	5µm	2µm	0.2mm	0-100-0	flat back

CONTACT POINT

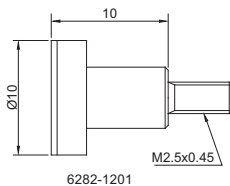
Code	Material of measuring face
6282-0101	carbide



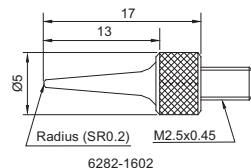
Code	Material of measuring face
6282-0305	carbide



Code	Material of measuring face
6282-1201	steel



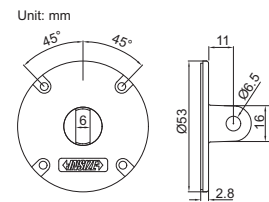
Code	Material of measuring face
6282-1602	steel



LUG BACK



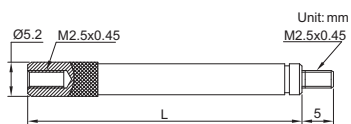
7330-L2



- Made of aluminum

Code	For digital/dial indicators
7330-L2	2308
	2309 (except 2309-30, 2309-30F)
	2310
	2313-1A, 2313-1FA
	2313-2A, 2313-2FA
	2314
	2329-10
	2801
	2802

EXTENSION ROD

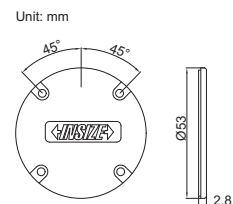


Code	Material	L (mm)
6282-2001	steel	10
6282-2003	steel	20
6282-2005	steel	30
6282-2017	steel	100

FLAT BACK



7330-F2



- Made of aluminum

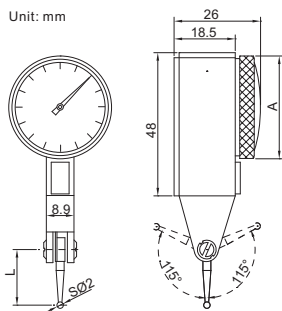
Code	For digital/dial indicators
7330-F2	2308
	2309 (except 2309-30, 2309-30F)
	2310
	2313-1A, 2313-1FA
	2313-2A, 2313-2FA
	2314
	2329-10
	2801
	2802

DIAL TEST INDICATOR

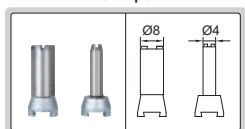
Unit: mm



2380-08



clamps



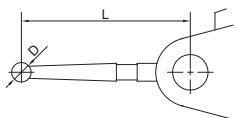
(mm)

Code	Range	Graduation	Accuracy (f _{ges})	Hysteresis (f _u)	Dial reading	A	L
2380-08	0.8mm	0.01mm	13µm	3µm	0-40-0	Ø30	16.5
2381-08	0.8mm	0.01mm	13µm	3µm	0-40-0	Ø37.5	16.5

STYLI FOR DIAL TEST INDICATORS



6284-3



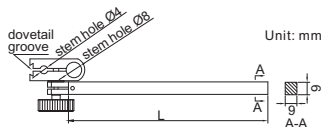
(mm)

Code	For dial test indicator	Material of contact point	L	D
6284-1	2380-08	Steel	16.5	SØ1
6284-3	2381-08	Carbide	16.5	SØ2

DIAL TEST INDICATOR HOLDER



6293-1



Unit: mm

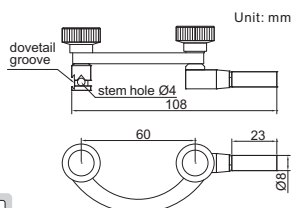
Code	Stem section	Stem length (L)
6293-1	9x9mm	100mm



DIAL TEST INDICATOR CENTERING HOLDER



6291-1



Unit: mm

Code
6291-1



- Center cylinders or holes on a machine tool

MAGNETIC STAND



6200-60



6201-60

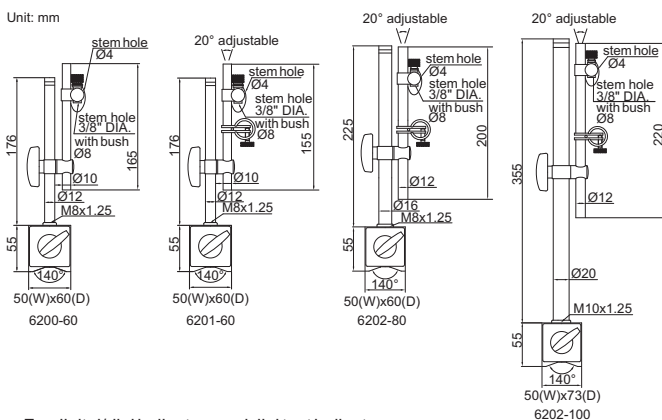


6202-80



6202-100

Unit: mm



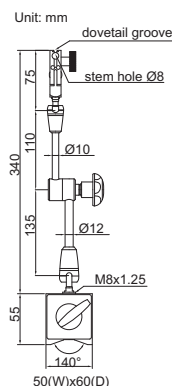
- For digital/dial indicators and dial test indicators

Code	Magnetic force	Applicable holding stem	Remark
6200-60	60kgf	Ø8mm, Ø4mm, 3/8" DIA.	without fine adjustment
6201-60	60kgf	Ø8mm, Ø4mm, 3/8" DIA.	with fine adjustment
6202-80	80kgf	Ø8mm, Ø4mm, 3/8" DIA.	with fine adjustment
6202-100	100kgf	Ø8mm, Ø4mm, 3/8" DIA.	with fine adjustment

UNIVERSAL MAGNETIC STAND



6210-80




Unit: mm

- For digital/dial indicators and dial test indicators

Code	Magnetic force	Applicable holding stem	Remark
6210-80	80kgf	Ø8mm	with fine adjustment and dovetail groove

UNIVERSAL MAGNETIC STAND



Unit: mm

dovetail groove
stem hole Ø8


75
125
355
144
55
Ø10
Ø12
M8x1.25
140°
50(W)x63(D)

- Economic model
- For digital/dial indicators and dial test indicators
- With fine adjustment and dovetail groove

6208-80A

Code	Magnetic force	Applicable holding stem
6208-80A	80kgf	Ø8mm

THICKNESS GAGE

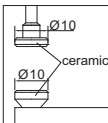


Unit: mm

Ø58
125
20
30
95


2364-10

Code	Range	Graduation	Accuracy
2364-10	0-10mm	0.01mm	±0.02mm



Ø10
ceramic
Ø10

FLEX ARM MAGNETIC STAND



Unit: mm


stem hole Ø4
stem hole 3/8" DIA. with bush Ø8
330
55
140°
50(W)x60(D)

- For dial test indicators

6207-80A

Code	Magnetic force	Applicable holding stem
6207-80A	80kgf	Ø8mm, Ø4mm, 3/8" DIA.

THICKNESS GAUGE

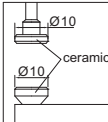


Unit: mm

Ø56
140
38
30
95

2366-30

Code	Range	Graduation	Accuracy
2366-30	0-30mm	0.01mm	±0.035mm



Ø10
ceramic
Ø10

MINI MAGNETIC STAND



Unit: mm

dovetail groove
stem hole Ø8

75
192
47
57
36
Ø8
Ø9
140°
30(W)x36(D)

- For dial test indicators
- With fine adjustment and dovetail groove

6224-40

Code	Magnetic force	Applicable holding stem
6224-40	40kgf	Ø8mm


STEEL GAUGE BLOCK SET



4100-87

- Made of alloy steel
- Meet ISO3650
- Supplied with inspection certificate

PRECISION THICKNESS GAUGE



Unit: mm

Ø58
115
16
Ø6
28
116

2360-1

- Stainless steel spindle tip and anvil

Code	Range	Graduation	Accuracy
2360-1	0-1mm	0.001mm	±0.005mm

Blocks per set	Blocks included in set			Code		
	Size (mm)	Step (mm)	Quantity	Grade 0	Grade 1	Grade 2
87	1.001-1.009	0.001	9	4100-87	4100-187	4100-287
	1.01-1.49	0.01	49			
	0.5-9.5	0.5	19			
	10-100	10	10			
47	1.005		1	4100-47	4100-147	4100-247
	1.01-1.19	0.01	19			
	1.2-1.9	0.1	8			
	1-9	1	9			
	10-100	10	10			
32	1.005		1	4100-32	4100-132	4100-232
	1.01-1.09	0.01	9			
	1.1-1.9	0.1	9			
	1-9	1	9			
	10-30	10	3			
	60		1			

THREAD RING GAUGE



4120-20



4120-20N

- Go and No-Go gauges are supplied separately
- Class 6g
- Standard ISO1502

Code Go	Code No Go	Size (mm)
4120-2	4120-2N	M2x0.4
4120-2D5	4120-2D5N	M2.5x0.45
4120-3	4120-3N	M3x0.5
4120-3D5	4120-3D5N	M3.5x0.6
4120-4	4120-4N	M4x0.7
4120-5	4120-5N	M5x0.8
4120-6	4120-6N	M6x1
4120-8	4120-8N	M8x1.25
4120-10	4120-10N	M10x1.5
4120-12	4120-12N	M12x1.75
4120-14	4120-14N	M14x2

Code Go	Code No Go	Size (mm)
4120-16	4120-16N	M16x2
4120-18	4120-18N	M18x2.5
4120-20	4120-20N	M20x2.5
4120-22	4120-22N	M22x2.5
4120-24	4120-24N	M24x3
4120-27	4120-27N	M27x3
4120-30	4120-30N	M30x3.5
4120-33	4120-33N	M33x3.5
4120-36	4120-36N	M36x4
4120-42	4120-42N	M42x4.5
4120-48	4120-48N	M48x5

FINE THREAD RING GAUGE



4129-20R



4129-20RN

- Go and No-Go gauges are supplied separately
- Class 6g
- Standard ISO1502

Code Go	Code No Go	Size (mm)
4129-8G	4129-8GN	M8x0.5
4129-8L	4129-8LN	M8x0.75
4129-8P	4129-8PN	M8x1
4129-10L	4129-10LN	M10x0.75
4129-10P	4129-10PN	M10x1
4129-10Q	4129-10QN	M10x1.25
4129-12P	4129-12PN	M12x1
4129-12Q	4129-12QN	M12x1.25
4129-12R	4129-12RN	M12x1.5
4129-14P	4129-14PN	M14x1
4129-14Q	4129-14QN	M14x1.25
4129-14R	4129-14RN	M14x1.5
4129-16P	4129-16PN	M16x1
4129-16R	4129-16RN	M16x1.5
4129-18P	4129-18PN	M18x1
4129-18R	4129-18RN	M18x1.5
4129-20P	4129-20PN	M20x1
4129-20R	4129-20RN	M20x1.5
4129-22R	4129-22RN	M22x1.5
4129-24P	4129-24PN	M24x1

Code Go	Code No Go	Size (mm)
4129-24R	4129-24RN	M24x1.5
4129-24T	4129-24TN	M24x2
4129-27R	4129-27RN	M27x1.5
4129-27T	4129-27TN	M27x2
4129-30P	4129-30PN	M30x1
4129-30R	4129-30RN	M30x1.5
4129-30T	4129-30TN	M30x2
4129-33R	4129-33RN	M33x1.5
4129-33T	4129-33TN	M33x2
4129-36R	4129-36RN	M36x1.5
4129-36T	4129-36TN	M36x2
4129-42R	4129-42RN	M42x1.5
4129-42T	4129-42TN	M42x2
4129-45R	4129-45RN	M45x1.5
4129-45T	4129-45TN	M45x2
4129-48R	4129-48RN	M48x1.5
4129-48T	4129-48TN	M48x2
4129-52R	4129-52RN	M52x1.5
4129-52T	4129-52TN	M52x2
4129-60T	4129-60TN	M60x2

THREAD PLUG GAUGE



4130-10

- Supplied with Go and No-Go gauges together
- Class 6H
- Standard ISO1502

Code	Size (mm)	Code	Size (mm)	Code	Size (mm)
4130-2	M2x0.4	4130-10	M10x1.5	4130-27	M27x3
4130-2D5	M2.5x0.45	4130-12	M12x1.75	4130-30	M30x3.5
4130-3	M3x0.5	4130-14	M14x2	4130-33	M33x3.5
4130-3D5	M3.5x0.6	4130-16	M16x2	4130-36	M36x4
4130-4	M4x0.7	4130-18	M18x2.5	4130-42	M42x4.5
4130-5	M5x0.8	4130-20	M20x2.5	4130-48	M48x5
4130-6	M6x1	4130-22	M22x2.5		
4130-8	M8x1.25	4130-24	M24x3		

FINE THREAD PLUG GAUGE



4139-36R

- Supplied with Go and No-Go gauges together
- Class 6H
- Standard ISO1502

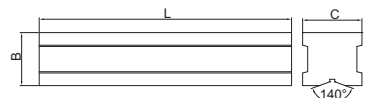
Code	Size (mm)	Code	Size (mm)	Code	Size (mm)
4139-8G	M8x0.5	4139-18P	M18x1	4139-33T	M33x2
4139-8L	M8x0.75	4139-18R	M18x1.5	4139-36R	M36x1.5
4139-8P	M8x1	4139-20P	M20x1	4139-36T	M36x2
4139-10L	M10x0.75	4139-20R	M20x1.5	4139-42R	M42x1.5
4139-10P	M10x1	4139-22R	M22x1.5	4139-42T	M42x2
4139-10Q	M10x1.25	4139-24P	M24x1	4139-45R	M45x1.5
4139-12P	M12x1	4139-24R	M24x1.5	4139-45T	M45x2
4139-12Q	M12x1.25	4139-24T	M24x2	4139-48R	M48x1.5
4139-12R	M12x1.5	4139-27R	M27x1.5	4139-48T	M48x2
4139-14P	M14x1	4139-27T	M27x2	4139-52R	M52x1.5
4139-14Q	M14x1.25	4139-30P	M30x1	4139-52T	M52x2
4139-14R	M14x1.5	4139-30R	M30x1.5	4139-60T	M60x2
4139-16P	M16x1	4139-30T	M30x2		
4139-16R	M16x1.5	4139-33R	M33x1.5		

BLOCK LEVEL



4903-200A

- V-groove on bottom for shafts
- With transverse vial
- Supplied with adjusting wrench



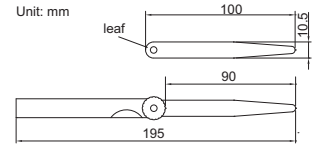
Code	Length(L)	Sensitivity	B	C
4903-150A	150mm	0.02mm/m	40	45
4903-200A	200mm	0.02mm/m	42	47
4903-300A	300mm	0.02mm/m	45	50

FEELER GAUGE

- Made of hardened alloy steel
- Meet DIN2275
- Accuracy: $\pm(3+T/80)\mu\text{m}$, 'T' is the thickness of leaves in μm



4602-20



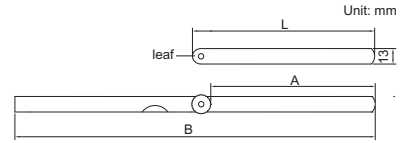
Code	Range	Thickness of leaves included (mm)	Quantity of leaves
4602-17	0.02-1.00mm	0.02, 0.03, 0.04, 0.05, 0.06, 0.07, 0.08, 0.09, 0.10, 0.15, 0.20, 0.25, 0.30, 0.40, 0.50, 0.75, 1.00	17
4602-20	0.05-1.00mm	0.05, 0.10, 0.15, 0.20, 0.25, 0.30, 0.35, 0.40, 0.45, 0.50, 0.55, 0.60, 0.65, 0.70, 0.75, 0.80, 0.85, 0.90, 0.95, 1.00	20
4602-32	0.03-1.00mm	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	32

LONG FEELER GAUGE



4605-20

- Made of hardened alloy steel
- Meet DIN2275
- Accuracy: $\pm(3+T/80)\mu\text{m}$, 'T' is the thickness of leaves in μm



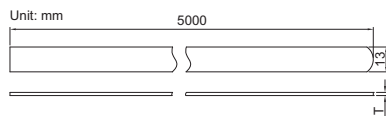
Code	Range	Thickness of leaves included (mm)	Quantity of leaves	L (mm)	A (mm)	B (mm)
4605-20	0.05-1.00mm	0.05, 0.10, 0.15, 0.20, 0.25, 0.30, 0.35, 0.40, 0.45, 0.50, 0.55, 0.60, 0.65, 0.70, 0.75, 0.80, 0.85, 0.90, 0.95, 1.00	20	150	135	295
4605-201	0.05-1.00mm		20	200	185	395
4605-202	0.05-1.00mm		20	300	285	590

FEELER GAUGE TAPE



4621-30

- Used as shims to accurately set spacing
- Made of hardened alloy steel
- Length 5m
- Width 13mm



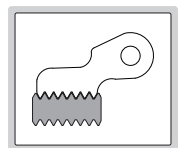
Code	Thickness (T)	Accuracy	Code	Thickness (T)	Accuracy
4621-02	0.02mm	$\pm 4\mu\text{m}$	4621-35	0.35mm	$\pm 11\mu\text{m}$
4621-03	0.03mm	$\pm 4\mu\text{m}$	4621-40	0.40mm	$\pm 12\mu\text{m}$
4621-04	0.04mm	$\pm 4\mu\text{m}$	4621-45	0.45mm	$\pm 12\mu\text{m}$
4621-05	0.05mm	$\pm 4\mu\text{m}$	4621-50	0.50mm	$\pm 14\mu\text{m}$
4621-06	0.06mm	$\pm 4\mu\text{m}$	4621-55	0.55mm	$\pm 14\mu\text{m}$
4621-07	0.07mm	$\pm 5\mu\text{m}$	4621-60	0.60mm	$\pm 14\mu\text{m}$
4621-08	0.08mm	$\pm 5\mu\text{m}$	4621-65	0.65mm	$\pm 14\mu\text{m}$
4621-09	0.09mm	$\pm 5\mu\text{m}$	4621-70	0.70mm	$\pm 17\mu\text{m}$
4621-10	0.10mm	$\pm 5\mu\text{m}$	4621-75	0.75mm	$\pm 17\mu\text{m}$
4621-12	0.12mm	$\pm 5\mu\text{m}$	4621-80	0.80mm	$\pm 19\mu\text{m}$
4621-15	0.15mm	$\pm 6\mu\text{m}$	4621-85	0.85mm	$\pm 19\mu\text{m}$
4621-18	0.18mm	$\pm 7\mu\text{m}$	4621-90	0.90mm	$\pm 22\mu\text{m}$
4621-20	0.20mm	$\pm 8\mu\text{m}$	4621-95	0.95mm	$\pm 22\mu\text{m}$
4621-25	0.25mm	$\pm 9\mu\text{m}$	4621-100	1.00mm	$\pm 24\mu\text{m}$
4621-30	0.30mm	$\pm 9\mu\text{m}$			

PITCH GAUGE

- Check the pitch of screw thread
- Accuracy: $\pm 0.07\text{mm}$



4820-124



Metric 60° screw

Code	Range	Pitch of leaves included	Quantity of leaves
4820-124	0.25-7mm	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	24

Unified 60° screw

Code	Range	Pitch of leaves included	Quantity of leaves
4820-230	4-42TPI	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	30

Metric 60° and Whitworth 55° screw

Code	Range	Pitch of leaves included	Quantity of leaves
4820-452	0.25-6mm	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	52
	4-62TPI	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	

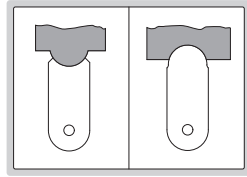
Metric 60° and Unified 60° screw

Code	Range	Pitch of leaves included	Quantity of leaves
4820-552	0.4-7mm	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	52
	4-42TPI	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	

RADIUS GAUGE

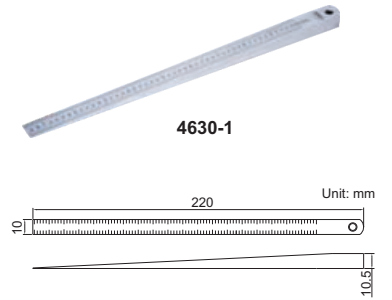
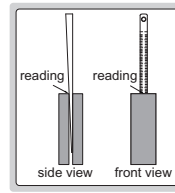


4801-17



Code	Range	Radius of leaves included (mm)	Quantity of leaves (internal + external)	Accuracy
4801-17	1-7mm	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	17+17	±0.03mm
4801-16	7.5-15mm	7.5, 8, 8.5, 9, 9.5, 10, 10.5, 11, 11.5, 12, 12.5, 13, 13.5, 14, 14.5, 15	16+16	±0.035mm
4801-15	15.5-25mm	15.5, 16, 16.5, 17, 17.5, 18, 18.5, 19, 19.5, 20, 21, 22, 23, 24, 25	15+15	±0.042mm

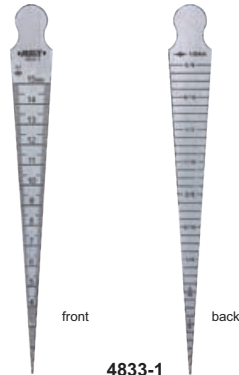
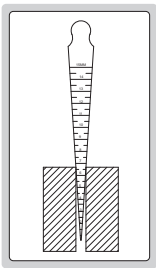
TAPER GAUGE



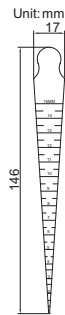
- For quick measurement of gap width
- Stain chrome plated reading surface
- Made of stainless steel

Code	Range	Graduation	Accuracy
4630-1	0.5 - 10mm	0.05mm	±0.07mm

TAPER GAUGE



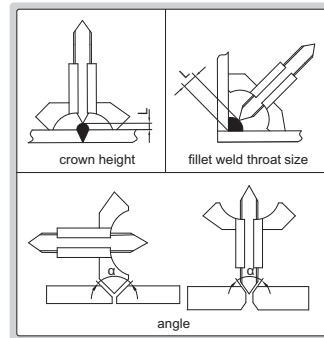
4833-1



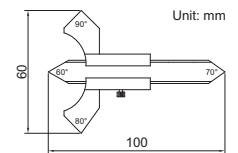
- Measure opening, slot width, hole size, etc.
- Made of stainless steel

Code	Range	Graduation	Accuracy
4833-1	0.8 - 15mm (1/32" - 5/8")	0.1mm (1/64")	±0.1mm

WELDING GAUGE



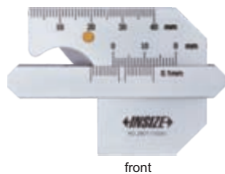
4830



- Made of stainless steel
- Stain chrome plated reading surface

Code	Measurement	Range	Graduation	Accuracy
4830	crown height	0 - 8mm	0.1mm	±0.1mm
	fillet weld throat size	0 - 20mm	0.1mm	±0.3mm
	angle	60°, 70°, 80°, 90°	—	±1°

WELDING GAUGE

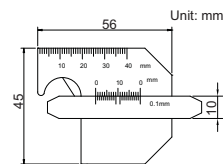


front



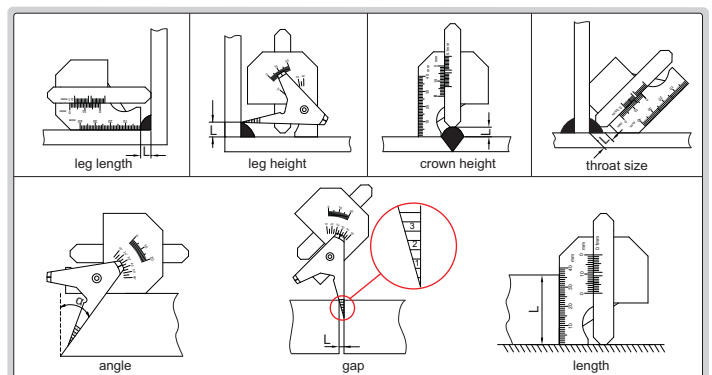
back

6832-1



- Made of stainless steel
- Stain chrome plated surface

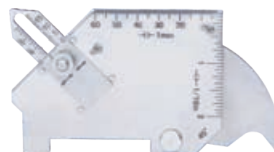
Code	Measurement	Range	Graduation	Accuracy
6832-1	leg length	0 - 10mm	0.1mm	±0.1mm
	leg height	0 - 20mm	1mm	±0.5mm
	crown height	0 - 10mm	0.1mm	±0.1mm
	throat size	0 - 10mm	0.1mm	±0.1mm
	angle	0° - 60°	5°	±1°
	gap	1 - 3.5mm	0.5mm	±0.5mm
	length	0 - 40mm	1mm	±0.5mm



WELDING GAUGE

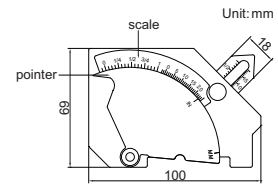


front



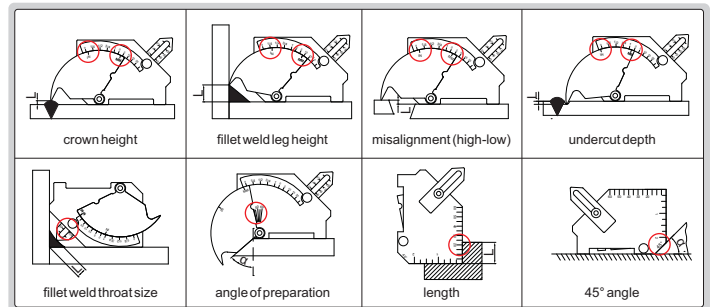
back

4835-1



- Adjustable scale to compensate pointer wear
- Made of stainless steel

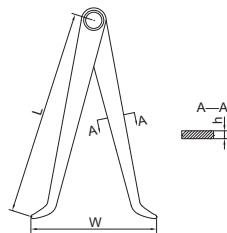
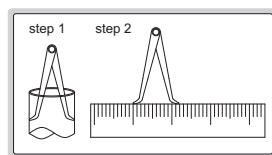
Code	Measurement	Range	Graduation	Accuracy
4835-1	crown height	0 - 25mm (0 - 1")	1mm (1/16")	±0.5mm
	fillet weld leg height	0 - 25mm (0 - 1")	1mm (1/16")	±0.5mm
	misalignment (high-low)	0 - 25mm (0 - 1")	1mm (1/16")	±0.5mm
	undercut depth	0 - 2mm (0 - 1/8")	1mm (1/16")	±0.5mm
	fillet weld throat size	0 - 20mm (0 - 3/4")	1mm (1/16")	±0.5mm
	angle of preparation	0 - 60°	5°	±1°
	length	0 - 60mm (0 - 2")	1mm (1/16")	±0.5mm
	45° angle	—	—	±1°



INSIDE CALIPER



7240-150



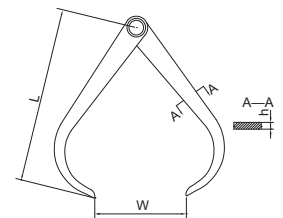
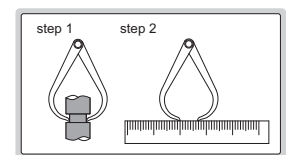
- Made of carbon steel

Code	Size (L)	Range (W)	h
7240-150	150mm	15 - 150mm	2mm
7240-200	200mm	15 - 200mm	2mm

OUTSIDE CALIPER



7241-150



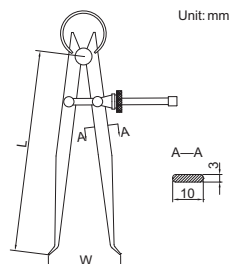
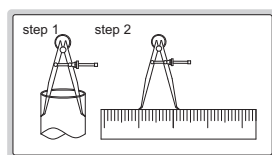
- Made of carbon steel

Code	Size (L)	Range (W)	h
7241-150	150mm	0 - 150mm	2mm
7241-200	200mm	0 - 200mm	2mm

INSIDE SPRING CALIPER



7249-150



Unit: mm

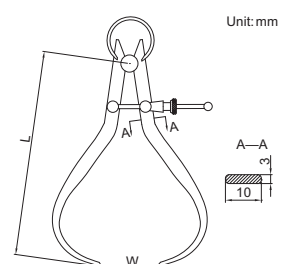
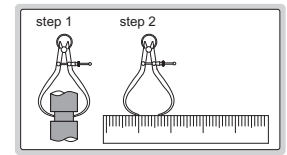
- Made of carbon steel

Code	Size (L)	Range (W)
7249-150	150mm	15 - 140mm
7249-200	200mm	18 - 190mm
7249-300	300mm	20 - 290mm

OUTSIDE SPRING CALIPER



7244-150



Unit: mm

- Made of carbon steel

Code	Size (L)	Range (W)
7244-150	150mm	0 - 140mm
7244-200	200mm	0 - 190mm
7244-300	300mm	0 - 290mm

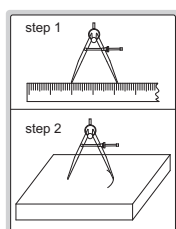
SPRING DIVIDER



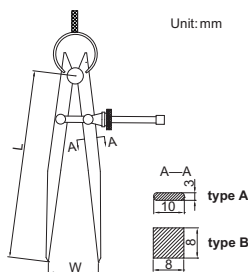
7250-150

- Made of carbon steel
- Hardened points

Code	Size (L)	Type	Range (W)
7250-150	150mm	A	0 - 140mm
7250-200	200mm	A	0 - 190mm
7250-300	300mm	B	0 - 290mm



Unit: mm



SCRIBER



7230



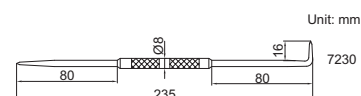
7231



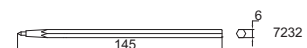
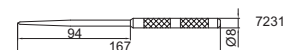
7232

- Nickel plated

Code	Tip
7230	hardened tips
7231	hardened tip
7232	carbide tip



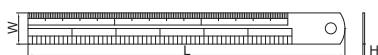
Unit: mm



STEEL RULE



7110-300



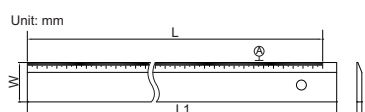
- Graduation: 0.5mm, 1mm, 1/64", 1/32", 1/16"
- Semi-flexible rules
- Made of stainless steel
- Non-glare surface

Code	Range	Accuracy	L	W	H	Remark
7110-150	150mm/6"	±0.08mm	170	18	1.0	graduation on front and back
7110-200	200mm/8"	±0.08mm	220	18	1.0	graduation on front and back
7110-300	300mm/12"	±0.11mm	330	25	1.0	graduation on front and back
7110-500	500mm/20"	±0.14mm	530	30	1.2	graduation on front and back
7110-600	600mm/24"	±0.15mm	630	30	1.2	graduation on front and back
7110-1000	1000mm/40"	±0.20mm	1040	32	1.5	graduation on front and back
7110-1200	1200mm/48"	±0.24mm	1240	35	1.8	graduation on front
7110-1500	1500mm/60"	±0.35mm	1550	38	1.8	graduation on front
7110-2000	2000mm/80"	±0.45mm	2065	40	2.0	graduation on front

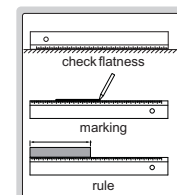
STRAIGHT EDGE



7111-300A



- Check flatness and straightness, as well as for marking
- Graduation on the beveled edge
- Made of hardened tool steel
- Chrome plated



Code	Range (L)	Straightness of A	L1	W
7111-300A	300mm	0.02mm	320mm	40mm
7111-1000A	1000mm	0.04mm	1020mm	50mm

GRANITE SURFACE PLATE



6900-042



- Made of granite, free from deterioration or dimensional change over time, minimal changes in dimension due to temperature changes
- Meet DIN876, grade 00 is for inspection room or lab, grade 0 is for workshop
- Supplied with calibration certificate
- Optional accessory: stand for granite surface plate (code 6902)

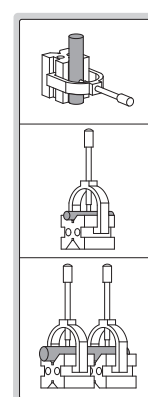
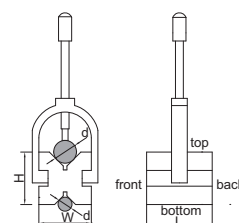
Grade 0

Code	Size (LxWxH)	Flatness	Weight (Kg)
6900-042	400x250x60mm	5.9µm	18
6900-064	630x400x80mm	7.0µm	60

V-BLOCK SET



6896-11



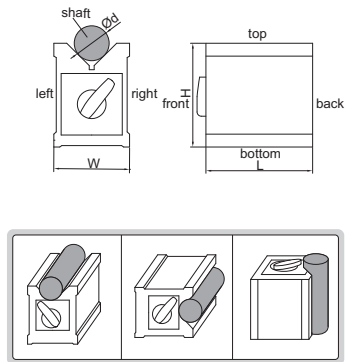
- Hold cylindrical workpieces for inspection and machining
- Two V-blocks per set
- Hardened to HRC60±2
- V groove on the top for large shafts
- V groove on the bottom for small shafts
- Parallelism of both V grooves to top and bottom sides: 5µm
- Squareness of both V grooves to front and back sides: 5µm
- Height difference of a matched pair: 5µm

Code	Size (LxWxH)	Range of shafts (Ød)
6896-11	50x40x40mm	5 - 40mm

MAGNETIC V-BLOCK



6890-702



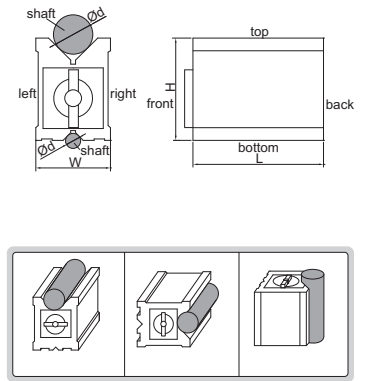
- Hold cylindrical workpieces for inspection and machining
- Supplied in single piece
- Not hardened
- Not suitable for cast iron surface plates
- Parallelism of V groove to top, bottom, left and right sides: 10µm
- Squareness of V groove to back side: 10µm

Code	Size (LxWxH)	Range of shafts (Ød)	Magnetic force
6890-702	70x60x73mm	6 - 44mm	56kgf

MAGNETIC V-BLOCK



6801-1202



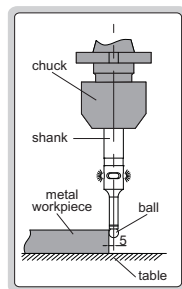
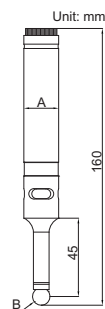
- Hold cylindrical workpieces for inspection and machining
- Supplied in single piece
- Not hardened
- V groove on the top for large shafts
- V groove on the bottom for small shafts
- Not suitable for cast iron surface plates
- Parallelism of both V grooves to top, bottom, left, right side: 10µm
- Squareness of both V grooves to back side: 10µm

Code	Size (LxWxH)	Range of shafts (Ød)	Magnetic force
6801-1202	100x70x95mm	6 - 67mm	80kgf

ELECTRONIC EDGE FINDER



6566-2



- The shank is electrically conducted to the metal workpiece through the chuck and table, the LED lights up when the ball touches the workpiece
- Not suitable for rotary use
- Hardened shank and contact ball

Code	Shank (A)	Contact ball (B)	Accuracy	Beeper	Battery
6566-2	Ø20mm	SØ10mm	5µm	without	LR1, 1.5Vx2pcs

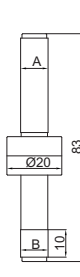
EDGE FINDER



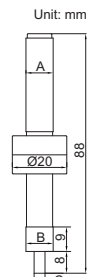
6562-3



6562-4

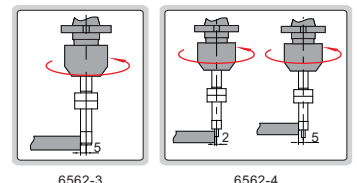


6562-3



6562-4

- Hardened shank and contact point

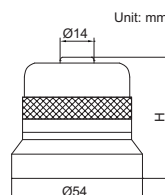


Code	Shank (A)	Contact point (B)	Contact point (C)	Accuracy
6562-3	Ø10mm	Ø10mm	—	5µm
6562-4	Ø10mm	Ø10mm	Ø4mm	5µm

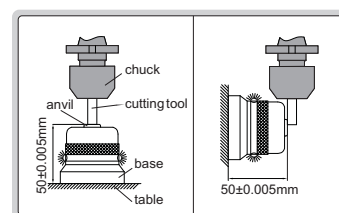
ELECTRONIC ZERO SETTER



6550-50A



- The base is electrically conducted to the cutting tools through the table and chuck, the LED lights up when the cutting tool touches the anvil
- Magnetic base
- Battery LR44 or SR44



Code	Height (H)	Accuracy
6550-50A	50mm	±5µm

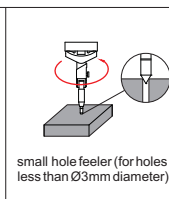
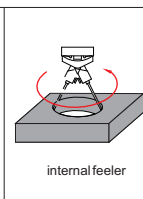
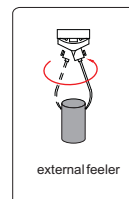
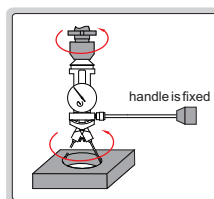
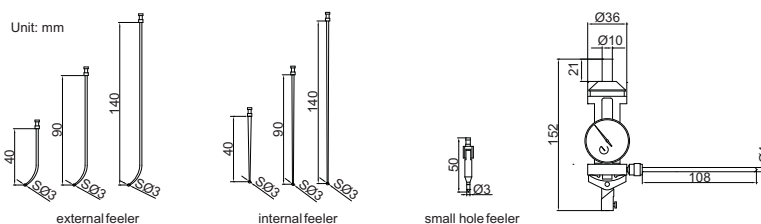
CENTERING INDICATOR



2385-3

- Provides quick and accurate centering in boring and milling set-up

Code	Dial indicator stroke	Graduation
2385-3	3mm	0.01mm



2-PIECE MEASURING TOOL SET

- Includes:
 - Digital caliper, range 0-150mm/0-6", resolution 0.01mm/0.0005" (code 1108-150)
 - Digital outside micrometer, range 0-25mm/0-1", resolution 0.001mm/0.00005" (code 3109-25A)



5022

Code
5022

2-PIECE MEASURING TOOL SET

- Includes:
 - Dial indicator, range 10mm, graduation 0.01mm (code 2308-10A)
 - Magnetic stand (code 6201-60)



5024

Code
5024

4-PIECE MEASURING TOOL SET

- Includes:
 - Digital caliper, range 0-150mm/0-6", resolution 0.01mm/0.0005" (code 1108-150)
 - Outside micrometer, range 0-25mm, graduation 0.01mm, (code 3202-25A)
 - 90° beveled edge square, 100x70mm, grade 0 (code 4790-1000)
 - Steel rule, 150mm/6" (code 7110-150)



5042

Code
5042

13-PIECE MEASURING TOOL SET

- Includes:
 - Digital caliper, range 0-150mm/0-6", resolution 0.01mm/0.0005", (code 1108-150)
 - Outside micrometer, range 0-25mm, graduation 0.01mm (code 3202-25A)
 - Dial indicator, range 10mm, graduation 0.01mm (code 2308-10A)
 - Magnetic stand (code 6201-60)
 - Protractor, range 0-180°, graduation 1° (code 4799-180)
 - Pitch gauge, range 0.25-7mm, 24pcs, metric 60° thread (code 4820-124)
 - Radius gauge, range 1-7mm (code 4801-17)
 - Feeler gauge, range 0.05-1.00mm, 20pcs (code 4602-20)
 - 90° beveled edge square, 100x70mm, grade 0 (code 4790-1000)
 - Scriber (code 7230)
 - Steel rule, 150mm/6" (code 7110-150)
 - Depth base attachment (code 6140)
 - Zero setting bar

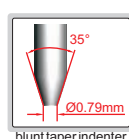


5013

Code
5013

SHORE DUROMETER

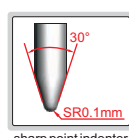
- According to ISO868, ISO7619, ASTM D 2240
- Optional accessory: hardness test block for ISH-SA (code ISH-BSA), testing stand



blunt taper indenter



ISH-SA



sharp point indenter



ISH-SD

SPECIFICATION

Code	ISH-SA	ISH-SD
Scale	Shore A	Shore D
Application	natural rubber, soft elastomer, etc.	hard elastomer, plastic, hard rubber, etc.
Measuring range	HA: 10-90	HD: 20-90
Resolution	1HA	1HD
Indenter protrusion	2.5mm	2.5mm
Dimension	115x60x25mm	
Net weight	500g	

DIGITAL MICROSCOPE CODE ISM-PM200SA

- Can take pictures and videos
- Supplied with measuring software (code **ISM-PRO**)



SPECIFICATION

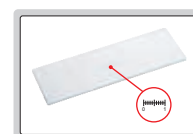
Magnification	10X - 200X
Pixel	1.3M (resolution: 1280x1024)
Illumination	built-in adjustable LED
Power supply	USB 2.0 cable (voltage required: 5±0.1V)

STANDARD DELIVERY

Digital microscope	1pc
Stand	1pc
White/black plate	1pc
Focus support ring for 80X/150X	1pc
Focus support ring for 60X/200X	1pc
Calibration rule (graduation 0.1mm)	1pc
Calibration rule (graduation 1mm)	1pc
ISM-PRO software disc	1pc



focus support ring



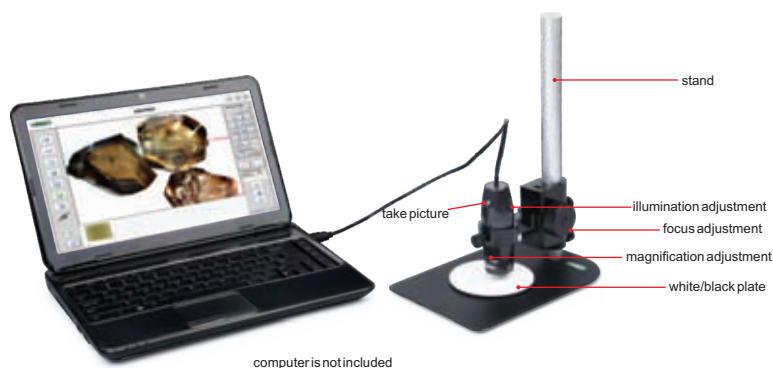
calibration rule

MAGNIFICATION, FOCUS DISTANCE, VIEW FIELD AND ACCURACY

Magnification	Focus distance	View field	Accuracy
50X	21mm	8.1x6.4mm	30μm
100X	13mm	3.9x3.1mm	15μm
150X	16mm	2.6x2.1mm	10μm
200X	19mm	1.8x1.5mm	8μm

HIGH MAGNIFICATION DIGITAL MICROSCOPE CODE ISM-PM600SA

- Can take pictures and videos
- Supplied with measuring software (code **ISM-PRO**)

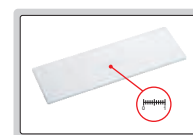


SPECIFICATION

Magnification	450X - 600X
Pixel	1.3M (resolution: 1280x1024)
Illumination	built-in adjustable LED
Power supply	USB 2.0 cable (voltage required: 5±0.1V)

STANDARD DELIVERY

Digital microscope	1pc
Stand	1pc
White/black plate	1pc
Calibration rule (graduation 0.1mm)	1pc
ISM-PRO software disc	1pc



calibration rule (graduation 0.1mm)

MAGNIFICATION, FOCUS DISTANCE, VIEW FIELD AND ACCURACY

Magnification	Focus distance	View field	Accuracy
450X	1.4mm	0.85x0.67mm	6μm
500X	5.5mm	0.76x0.61mm	6μm
550X	8.6mm	0.69x0.55mm	5μm
600X	11.5mm	0.63x0.51mm	5μm

SOFTWARE FOR DIGITAL MICROSCOPE CODE ISM-PRO

- **Applicable digital microscope:** ISM-PM200SA, ISM-PM600SA, ISM-PM160L
- **Language:** English, Japanese, Korean, German, Turkey, Portuguese, Chinese
- **Operation system:** Windows 7/XP/ Vista

Measurement:

- measure length of line or distance between two points
- measure distance between point and line
- measure distance between two parallel lines
- measure area of rectangle
- measure radius, girth and area of circle
- measure distance between two circles
- measure angle with three points
- measure angle with two lines

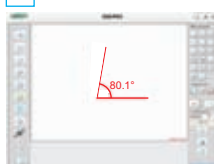
Comparison:

Create line, angle or circle with desired size, to compare with workpieces.

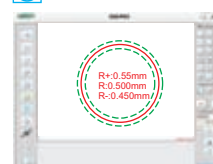
- create line



- create angle



- create circle with tolerance

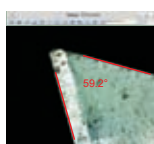


Edge detection measurement:

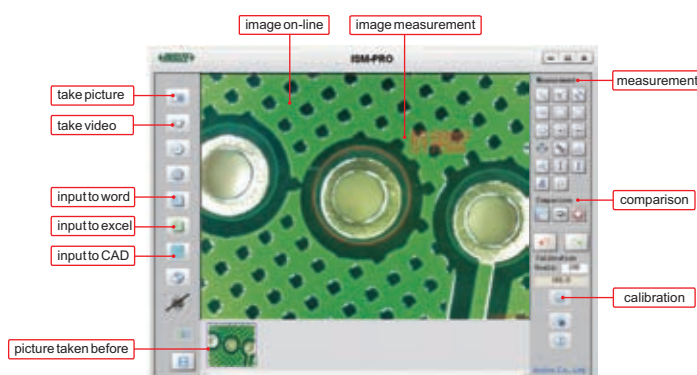
- find two parallel lines automatically, and calculate distance



- find two lines automatically, and calculate angle



- find circle automatically, and calculate radius, girth and area



WIRELESS DIGITAL MICROSCOPE CODE ISM-WM200*

- Can take pictures and videos
- Supplied with measuring software (simple version)



SPECIFICATION

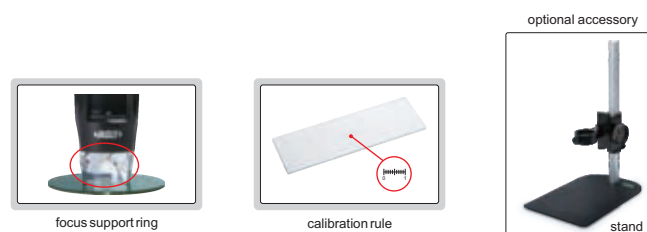
Magnification	10X - 200X
Pixel	0.35M (resolution: 720x480)
Illumination	built-in adjustable LED
Max. transmission distance (between digital microscope and receiver)	5m
Power supply	built-in rechargeable battery

STANDARD DELIVERY

Digital microscope	1pc
Receiver	1pc
Focus support ring for 80X/150X	1pc
Focus support ring for 60X/200X	1pc
Calibration rule graduation 0.1mm	1pc
Calibration rule graduation 1mm	1pc
Software disc (simple version)	1pc
AC/DC adapter	1pc

OPTIONAL ACCESSORY

Stand	ISM-WM200-STAND
-------	-----------------

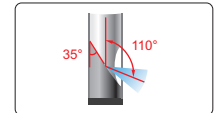
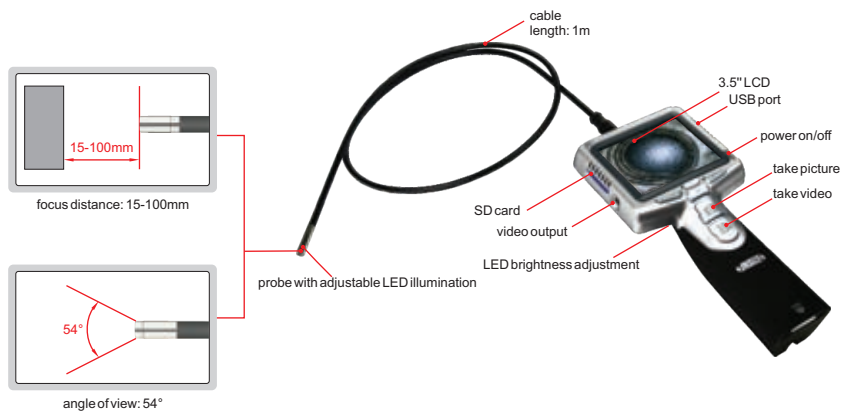


MAGNIFICATION, FOCUS DISTANCE, VIEW FIELD AND ACCURACY

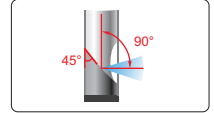
Magnification	Focus distance	View field	Accuracy
60X	19mm	6.9x5.2mm	40μm
80X	16mm	5.0x3.8mm	30μm
150X	16mm	2.6x2.1mm	20μm
200X	19mm	1.8x1.5mm	15μm

* Add suffix on code No. to devote AC voltage and plug

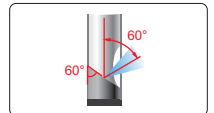
ENDOSCOPE CODE ISV-E55*



35° mirror (optional)



45° mirror (included)



60° mirror (optional)

SPECIFICATION

Probe diameter	5.5mm
Dust/waterproof probe	IP57
Pixel	0.3M
Resolution	640x480
Frame rate	30fps
Video format	PAL or NTSC
Memory	2G SD card (store 6000 pictures or 15 minutes video)
Power supply	rechargeable battery (for 3 hours working)
Weight	450g

STANDARD DELIVERY

Main unit	1pc
Cable with probe	1pc
SD card 2G	1pc
45° mirror	1pc

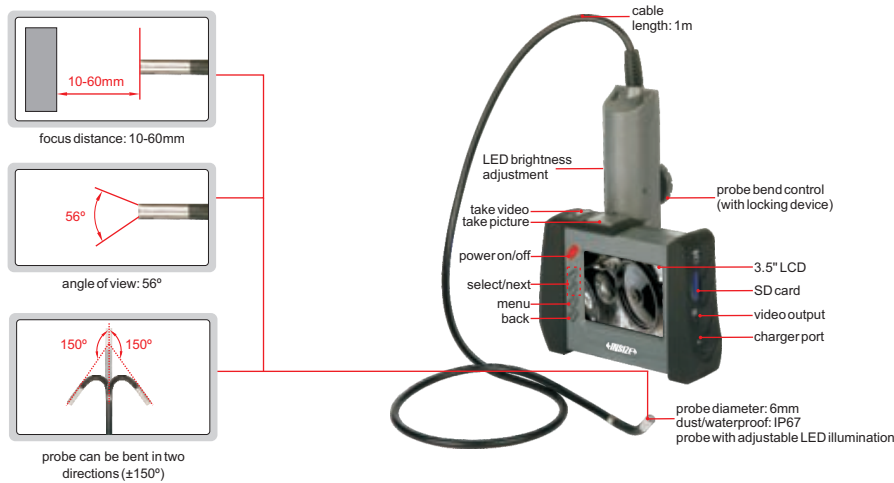
Spare battery	1pc
AC/DC adapter	1pc
Video output cable	1pc
USB cable	1pc

OPTIONAL ACCESSORY

35° mirror	ISV-E55-M35
60° mirror	ISV-E55-M60

* Add suffix on code No. to devote AC voltage and plug

ENDOSCOPE CODE ISV-WE60*



the probe can be separated from main body

- The probe can be separated from main body (2.4G WiFi), the maximum distance is 10m

SPECIFICATION

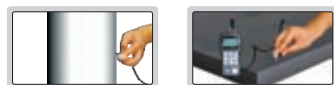
Probe diameter	6mm
Dust/waterproof probe	IP67
Pixel	0.1M
Resolution	325x250
Frame rate	30fps
Image process	mirror, zoom (1.5X)
File format	picture: JPG, video: ASF
Memory	2G SD card
Power supply of probe	rechargeable battery (charged through main body or USB port)
Power supply of main body	rechargeable battery (for 4 hours working)
Weight	650g

STANDARD DELIVERY

Main body	1pc
Probe	1pc
SD card (2G)	1pc
AC/DC adapter	1pc
Video output cable	1pc
USB cable	1pc

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ULTRASONIC THICKNESS GAUGE CODE ISU-200C



- Measure the thickness from one side of object, suitable for pipe, tank, etc.
- Applicable material: metal, plastic, glass, nylon, resin, ceramic, rubber, ice



couplant



transducer ISU-P02(optional)



transducer ISU-P07(optional)



transducer ISU-HT5(optional)

SPECIFICATION

Resolution	0.1mm
Accuracy	$\pm 0.1\text{mm}$ (range < 10mm) $\pm (0.1 + H/100)\text{mm}$ (range $\geq 10\text{mm}$) H is the thickness to be measured
Repeatability	0.1mm
Velocity	1000-9999m/s
Power supply	2x1.5V AA batteries
Dimension	64x150x32mm
Weight	245g

STANDARD DELIVERY

Main unit	1pc
Transducer ISU-P05	1pc
Battery (AA)	2pcs
Couplant (for ISU-P05, ISU-P02, ISU-P07)	1 bottle

OPTIONAL ACCESSORY

Transducer	ISU-P02, ISU-P07, ISU-HT5
Couplant (for ISU-HT5)	ISU-HT5-COULANT
RS232 cable and software	ISU-200B-CABLE

SPECIFICATION OF TRANSDUCERS

Code	Frequency	Diameter (Ød)	Measuring range	Minimum size of pipe for measurement (diameter × wall thickness)	Applicable temperature	Application
ISU-P05	5.0MHz	12mm	1.2-230mm	20x3mm	<60°C	general use
ISU-P02	2.0MHz	17mm	3-300mm	20x3mm	<60°C	for casting steel
ISU-P07	7.0MHz	8mm	0.8-80mm	15x2mm	<60°C	for thin material
ISU-HT5	5.0MHz	14mm	3-200mm	30x2mm	<300°C	for high temperature

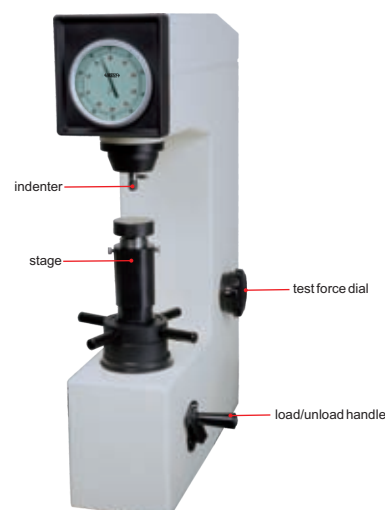
MANUAL ROCKWELL HARDNESS TESTER CODE ISH-R150

SPECIFICATION

Hardness scale	HRA, HRB, HRC, HRD, HRF, HRG
Preliminary test force	98N
Test force	588N, 980N, 1471N
Display	analogue
Stage elevation	manual
Load control	manual
Min. reading	0.5HR
Max. workpiece height	170mm
Max. workpiece depth	165mm (from the center of indenter)
Dimension	520x160x700mm
Weight	60kg

STANDARD DELIVERY

Main unit	1pc	Ø1.5875mm carbide ball indenter	1pc
Ø60mm flat anvil	1pc	Hardness test block HRB85-95	1pc
Ø150mm flat anvil	1pc	Hardness test block HRC60-70	1pc
V-type anvil	1pc	Hardness test block HRC20-30	1pc
Diamond indenter	1pc		



Ø60mm flat anvil



Ø150mm flat anvil



V-type anvil

PORTABLE HARDNESS TESTER CODE ISH-PHA*

- Supplied with impact device D
- Based on Leeb (HLD), converted to Vickers (HV), Brinell (HB), Rockwell (HRC and HRB), Shore (HS) and tensile strength (MPa)
- Connected with printer via bluetooth
- LCD display with backlight
- Automatic power off
- According to ASTM A956

SPECIFICATION

Min. reading	1HLD, 1HV, 1HB, 0.1HRC, 0.1HRB, 1HS, 1MPa	
Accuracy	±6HLD (when HLD=800)	
Display	Leeb (HLD), converted hardness, material, impact direction, test times, average value, date	
Output	bluetooth	
Applicable workpiece	minimum weight	5kg
		2kg (on solid support)
		0.1kg (coupled on plate)
	minimum thickness: 5mm	
	minimum radius of curved surface: 11mm	
	maximum roughness (Ra): 1.6µm	
Power supply	3xAAA batteries	
Dimension	150x80x24mm	
Weight	200g	



STANDARD DELIVERY

Main unit	1pc
Impact device D	1pc
Printer	1pc
Hardness test block	1pc
Small support ring	1pc
Cleaning brush	1pc
AC/DC adapter	1pc

OPTIONAL ACCESSORY

Support rings	
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*Add suffix on code No. to devote AC voltage and plug



PORTABLE HARDNESS TESTER CODE ISH-SPHA*

- Based on Leeb (HL), converted to Vickers (HV), Brinell (HB), Rockwell (HRC and HRB), Shore (HS) and tensile strength (MPa)
- Connected with printer via bluetooth
- Connected with computer via USB port
- Up to 800 test results can be saved
- Low and high limits with judgement
- Touch screen operation, large display with backlight
- Language: English, Chinese, Italian, German, French and Russian
- Automatic power off
- According to ASTM A956

SPECIFICATION

Min. reading	1HL, 1HV, 1HB, 0.1HRC, 0.1HRB, 1HS, 1MPa
Accuracy	±6HL (when HL=800)
Display	Leeb (HL), converted hardness, material, impact direction, test times, average value, deviation, time
Output	bluetooth and USB
Power supply	built-in rechargeable battery
Dimension	135x83x24mm
Weight	350g

STANDARD DELIVERY

Main unit	1pc
Impact device D	1pc
Printer	1pc
Hardness test block	1pc
Small support ring	1pc
Cleaning brush	1pc
AC/DC adapter	1pc
USB cable and software disc	1pc of each
Pen for touch screen	1pc



OPTIONAL ACCESSORY

Impact device DC	ISH-SPHA-DC
Impact device C	ISH-SPHA-C
Impact device D+15	ISH-SPHA-D15
Impact device DL	ISH-SPHA-DL
Impact device G	ISH-SPHA-G
Hardness test block	ISH-BHLG
Support rings	

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