



2018  
2019

# MEASURING INSTRUMENTS

CATALOGUE NO. E22



## DIGITAL CALIPERS (STANDARD MODEL)

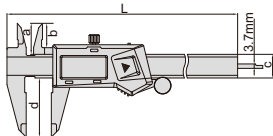
DATA  
OUTPUT



1108-150

INSPECTION  
CERTIFICATE  
TRACEABLE TO DKD

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



(mm)

Code	Range	Accuracy	L	a	b	c	d
1108-150*	0-150mm/0-6"	±0.02mm	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

\*Supplied with manufacturer inspection certificate traceable to DKD Germany

## WATERPROOF DIGITAL CALIPERS

IP67  
WATERPROOF

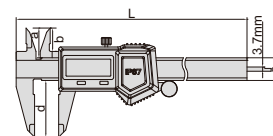
INSPECTION  
CERTIFICATE  
TRACEABLE TO DKD

ATTENTION: IT IS NECESSARY TO SET  
ZERO AFTER POWER ON EACH TIME



1118-150B

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



(mm)

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

\*Supplied with manufacturer inspection certificate traceable to DKD Germany

## DIGITAL CALIPER WITH ROUND DEPTH BAR

DATA  
OUTPUT



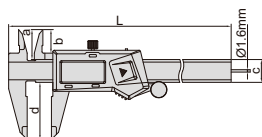
1119-150

INSPECTION  
CERTIFICATE  
TRACEABLE TO DKD



round depth  
bar Ø1.6mm

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



(mm)

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

\*Supplied with manufacturer inspection certificate traceable to DKD Germany

## DIGITAL CALIPERS

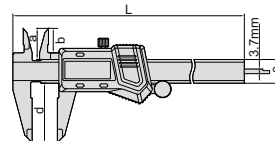
INSPECTION  
CERTIFICATE  
TRACEABLE TO DKD

ATTENTION: NO  
DATA OUTPUT



1114-150A

- Zinc alloy housing for digital unit
- Resolution: 0.01mm/0.0005"
- Buttons: zero, on/off, mm/inch
- Automatic power off, move the digital unit to turn on power
- Battery CR2032, meet DIN862
- Made of stainless steel



(mm)

Code	Range	Accuracy	L	a	b	c	d
1114-150A*	0-150mm/0-6"	±0.03mm	236	21	16	16	40
1114-200A*	0-200mm/0-8"	±0.03mm	286	24	19	16	50
1114-300A*	0-300mm/0-12"	±0.03mm	400	25	20.5	17	60

\*Supplied with manufacturer inspection certificate traceable to DKD Germany

## HEAVY DUTY 300mm DIGITAL CALIPER

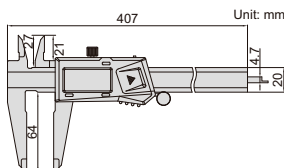
DATA  
OUTPUT



1196-300

INSPECTION  
CERTIFICATE  
TRACEABLE TO DKD

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



(mm)

Code	Range	Accuracy
1196-300*	0-300mm/0-12"	±0.03mm

\*Supplied with manufacturer inspection certificate traceable to DKD Germany

## DIGITAL CALIPER WITH CARBIDE TIPPED JAWS

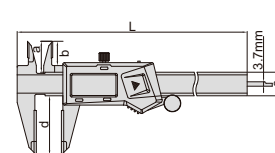
INSPECTION  
CERTIFICATE  
TRACEABLE TO DKD

DATA  
OUTPUT



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, data output
- Meet DIN862
- Made of stainless steel
- Optional accessory: data output cable



(mm)

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

\*Supplied with manufacturer inspection certificate traceable to DKD Germany  
- Sizes available up to 300mm

## DIGITAL CALIPER WITH CERAMIC TIPPED JAWS

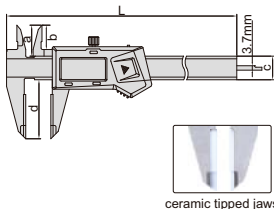


1193-150

INSPECTION  
CERTIFICATE  
TRACEABLE TO DKD

DATA  
OUTPUT

- Ceramic tipped jaws for outside measurement, extremely wear-resistant, non-magnetic, non-conductive
- Resolution: 0.01mm/0.0005"
- Buttons: on/off, zero, mm/inch
- Automatic power off, move the digital unit to turn on power
- Battery CR2032, data output
- Meet DIN862
- Made of stainless steel
- Optional accessory: data output cable



ceramic tipped jaws

(mm)

Code	Range	Accuracy	L	a	b	c	d
1193-150*	0-150mm/0-6"	±0.03mm	235	21	16.5	16	40

\*Supplied with manufacturer inspection certificate traceable to DKD Germany  
- Sizes available up to 300mm

## LEFT HAND DIGITAL CALIPER

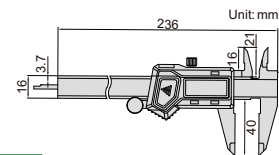
INSPECTION  
CERTIFICATE  
TRACEABLE TO DKD

DATA  
OUTPUT



1130-150

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



Code	Range	Accuracy
1130-150*	0-150mm/0-6"	±0.03mm

\*Supplied with manufacturer inspection certificate traceable to DKD Germany  
- Sizes available up to 300mm

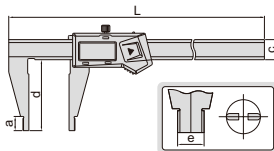
## DIGITAL CALIPERS



1170-300

DATA  
OUTPUT

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



(mm)

Code	Range	Accuracy	a	c	d	e	L
1170-306	0-300mm/0-12"	±0.04mm	12	17	60	10	420
1170-300	0-300mm/0-12"	±0.04mm	12	17	90	10	420

## DIAL CALIPERS

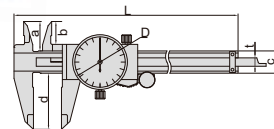


1312-150A

INSPECTION  
CERTIFICATE  
TRACEABLE TO DKD

SHOCK  
PROOF

- Shockproof dial indicator
- Made of stainless steel



Dial indicator graduation 0.02mm

(mm)

Code	Range	Accuracy	L	a	b	c	d	D	t
1312-150A*	0-150mm	±0.03mm	235	21	16.5	16	40	Ø39	6.5
1312-200A*	0-200mm	±0.03mm	288	24	19	16	48	Ø39	6.5
1312-300A*	0-300mm	±0.03mm	410	28	22	20	62	Ø44.5	7.5

Dial indicator graduation 0.01mm

(mm)

Code	Range	Accuracy	L	a	b	c	d	D	t
1311-150A*	0-150mm	±0.03mm	235	21	16.5	16	40	Ø39	6.5
1311-200A*	0-200mm	±0.03mm	288	24	19	16	48	Ø39	6.5
1311-300A*	0-300mm	±0.03mm	410	28	22	20	62	Ø44.5	7.5

\*Supplied with manufacturer inspection certificate traceable to DKD Germany

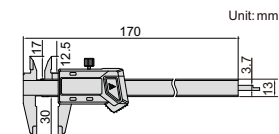
## MINI DIGITAL CALIPER

ATTENTION:  
NO DATA OUTPUT



1111-100A

- Resolution: 0.01mm/0.0005"
- Buttons: zero, mm/inch, on/off
- Automatic power off, move the digital unit to turn on power
- Battery LR44
- Meet DIN862
- Made of stainless steel



Code	Range	Accuracy
1111-100A	0-100mm/0-4"	±0.02mm

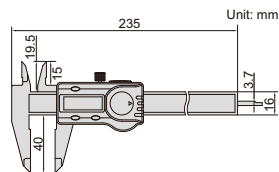
## PLASTIC DIGITAL CALIPER

ATTENTION:  
NO DATA OUTPUT



1139-150

- Made of hard plastic, non-magnetic and non electric conductive
- Prevent workpieces from scratching by calipers
- Resolution: 0.01mm/0.0005"
- Buttons: on/off, zero, mm/inch
- Battery CR2032, automatic power off



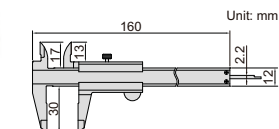
Code	Range	Accuracy
1139-150	0-150mm/0-6"	±0.1mm

## MINI VERNIER CALIPER



1203-1003

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

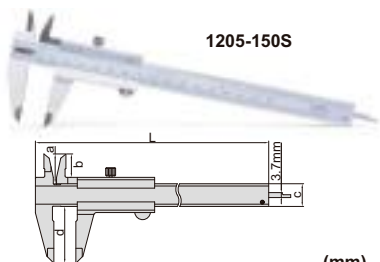


Code	Range	Graduation	Accuracy
1203-1003	0-100mm	0.05mm	±0.05mm

## VERNIER CALIPERS

1205-150S

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



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	17	50
1205-300S	0-300mm/0-12"	±0.05mm	414	27.5	22	20	64

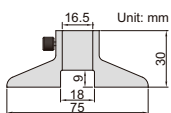
Graduation 0.02mm/0.001"

(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	17	50
1205-3002S	0-300mm/0-12"	±0.03mm	414	27.5	22	20	64

## DEPTH BASE ATTACHMENT

6140

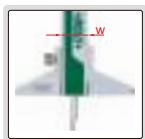


- To increase the stability of depth measurement
- Suitable for digital calipers and dial calipers
- Made of stainless steel

Code	Application
6140	Suitable for calipers with beam width (w) 16mm

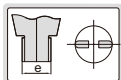


VIDEO



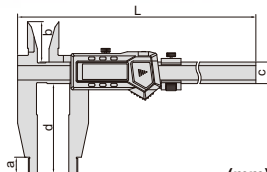
## DIGITAL CALIPERS

DATA  
OUTPUT



1136-501

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



(mm)

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

Sizes available up to 2000mm

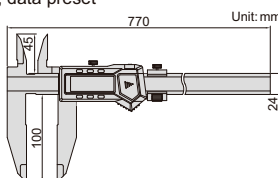
## DIGITAL CALIPER

DATA  
OUTPUT



1135-601

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



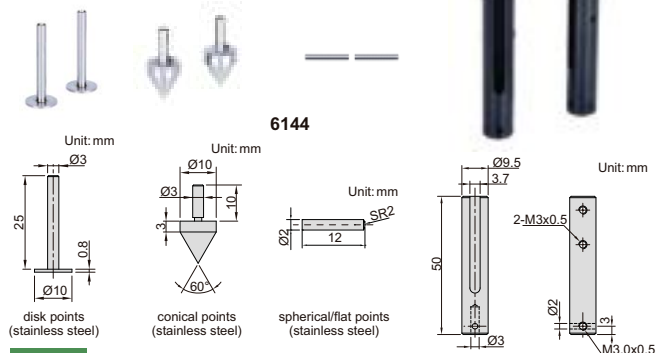
Unit: mm

Code	Range	Accuracy
1135-601	0-600mm/0-24"	±0.05mm

Sizes available up to 1000mm

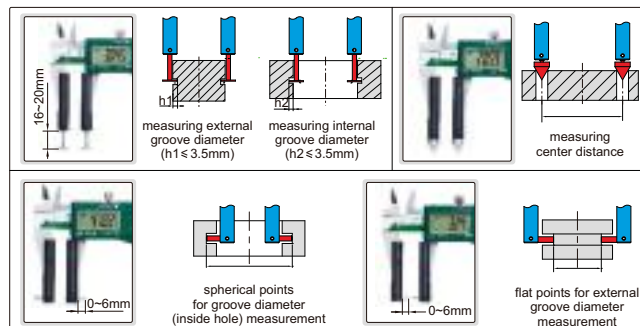
## ACCESSORY SET FOR DIGITAL CALIPERS CODE 6144

6144



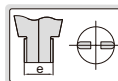
Code  
6144

- Suitable for 0-150mm/0-6" and 0-200mm/0-8" digital calipers (thickness of lower jaws ≤ 3.7mm)



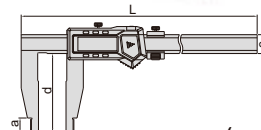
## DIGITAL CALIPERS

DATA  
OUTPUT



1106-501

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

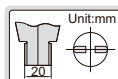


(mm)

Code	Range	Accuracy	a	c	d	e	L
1106-501	0-500mm/0-20"	±0.05mm	18	24	100	20	675
1106-601	0-600mm/0-24"	±0.05mm	18	24	100	20	770
1106-1002	0-1000mm/0-40"	±0.08mm	24	31	150	20	1220

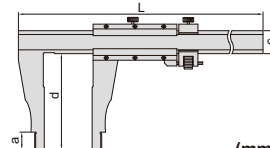
Sizes available up to 3000mm

## VERNIER CALIPERS



1214-600

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

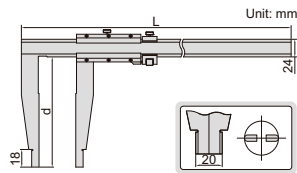


(mm)

Code	Range	Accuracy	a	c	d	L
1214-500	0-500mm/0-20"	±0.05mm	18	24	100	670
1214-600	0-600mm/0-24"	±0.05mm	18	24	100	770
1214-1000	0-1000mm/0-40"	±0.08mm	24	32	140	1216

Sizes available up to 2000mm

## LONG JAW VERNIER CALIPERS

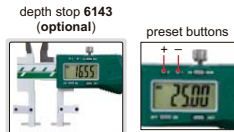


1215-532

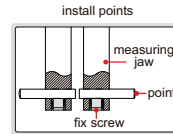
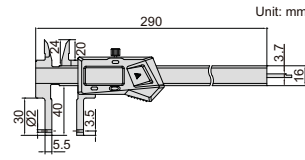
- Graduation: 0.02mm/0.001"
- With fine adjustment
- Made of stainless steel
- Satin chrome plated reading surface

Code	Range	Accuracy	(mm)	
			d	L
1215-532	0-500mm/0-20"	±0.06mm	200	670
1215-622	0-600mm/0-24"	±0.06mm	150	770

Sizes available up to 3000mm

DIGITAL CALIPER WITH INTERCHANGEABLE POINTS  
CODE 1526-200

1526-200

DATA  
OUTPUT

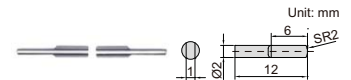
short spherical points (included)



long spherical/flat points (included)



spherical blade points (included)



- Supplied with 3 pairs of points and zero setting block for external measurement
- Resolution: 0.01mm/0.0005"
- Buttons: on/off, set, mm/inch, preset (+, -)
- Automatic power off, move the digital unit to turn on power
- Battery CR2032
- Data output
- Made of stainless steel
- Optional accessory: points (code 1526-T101, 7392, 7391, 7381, 7321), depth stop (code 6143), data output cable

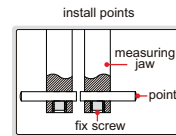
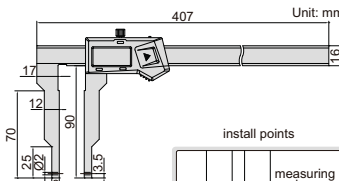
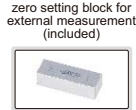
zero setting block for external measurement (included)



Point	Range	Accuracy	Application
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

DIGITAL CALIPER WITH INTERCHANGEABLE POINTS  
CODE 1124-300A

1124-300A



short spherical/flat points (included)



long spherical/flat points (included)



short spherical blade points (included)



long spherical blade points (included)



- Supplied with 4 pairs of points and zero setting block for external measurement
- Resolution: 0.01mm/0.0005"
- Buttons: on/off, set, mm/inch, preset (+, -)
- Automatic power off, move the digital unit to turn on power
- Battery CR2032
- Data output
- Made of stainless steel
- Optional accessory: points (code 1526-T101, 7392, 7391, 7381, 7321), depth stop (code 6143), data output cable

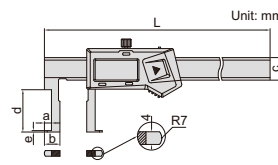
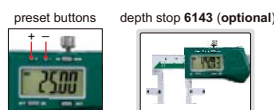
Point	Range	Accuracy	Application
short spherical/flat points	24-324mm/1-12.7"(internal) 0-288mm/0-11.3"(external)	±0.04mm	spherical points for grooves inside hole (small hole) flat points for external grooves
long spherical/flat points	40-340mm/1.5-13.3"(internal) 0-272mm/0-10.7"(external)	±0.04mm	spherical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

## DIGITAL INSIDE GROOVE CALIPERS

- Measure groove diameter
- Resolution: 0.01mm/0.0005"
- Buttons: on/off, set, mm/inch, preset (+, -)
- Automatic power off, move the digital unit to turn on power
- Battery CR2032
- Data output
- Made of stainless steel
- Optional accessory: depth stop (code 6143), data output cable



1120-150A

DATA  
OUTPUT

Code	Range	Accuracy	(mm)				
			L	a	b	c	d
1120-150A	22-150mm	±0.04mm	250	5	11	16	30
1120-200A	25-200mm	±0.04mm	310	5	12.5	16	40

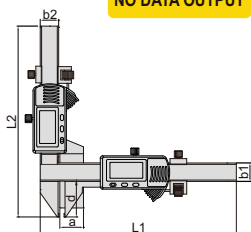
Sizes available up to 300mm



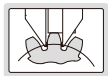
## DIGITAL GEAR TOOTH CALIPER

ATTENTION:  
NO DATA OUTPUT

1181-M25A



- Resolution: 0.01mm/0.0005"
- Carbide tips
- Buttons: zero, on/off, mm/inch
- Automatic power off, move the digital unit to turn on power
- Battery CR2032
- Made of stainless steel



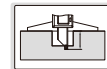
(mm)

Code	Range	Accuracy	L1	L2	a	b1	b2	d
1181-M25A	M1-25mm	±0.04mm	170	165.5	21	16	16	30.5

## DIGITAL POINT DEPTH GAGE

DATA  
OUTPUT

1143-200A



Unit: mm

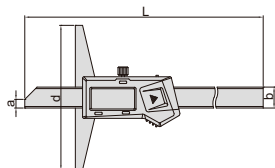
- Buttons: on/off, zero, mm/inch
- Automatic power off, move the digital unit to turn on power
- Meet DIN862
- Battery CR2032
- Data output
- Made of stainless steel
- Optional accessory: data output cable

Code	Range	Resolution	Accuracy
1143-200A	0-200mm/0-8"	0.01mm/0.0005"	±0.03mm

## DIGITAL DEPTH GAGES (STANDARD MODEL)

DATA  
OUTPUT

1141-150A



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

(mm)

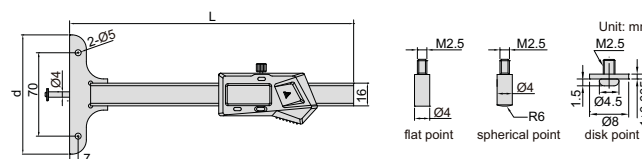
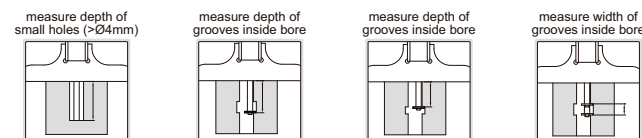
Code	Range	Accuracy	L	a	b	d
1141-150A	0-150mm/0-6"	±0.03mm	230	6	14.5	100
1141-200A	0-200mm/0-8"	±0.03mm	280	6	14.5	100
1141-300A	0-300mm/0-12"	±0.03mm	380	6	14.5	150

Sizes available up to 500mm

## DIGITAL DEPTH GAGE WITH ROUND DEPTH BAR

DATA  
OUTPUTMEASURE DEPTH OF  
SMALL HOLES (>Ø4mm)MEASURE WIDTH AND DEPTH  
OF GROOVES INSIDE BORE

1148-200



- Resolution: 0.01mm/0.0005"
- Supplied with three interchangeable points (flat, spherical, disk)
- Buttons: on/off, set, mm/inch, preset (+, -)
- Automatic power off, move the digital unit to turn on power
- Battery CR2032
- Data output
- Made of stainless steel
- Optional accessory: data output cable, disk points (see below table), extension base (code 6141, for 1148-200)

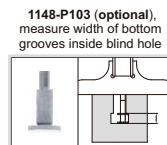
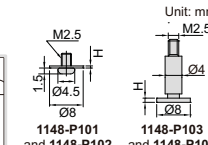


1148-P101 (optional)



extension base for 1148-200 (optional)

6141 series

1148-P103 (optional),  
measure width of bottom  
grooves inside blind hole

Unit: mm

1148-P101 and 1148-P102

1148-P103 and 1148-P104

(mm)

Code	Range*	Accuracy	L	d	Remark
1148-200	0-200mm/0-8"	±0.03mm	300	101	with mounting holes for extension base

\*When disk points are used, the range is reduced by 10mm

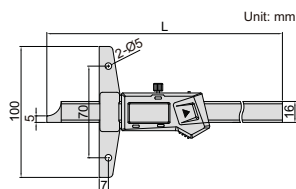
## OPTIONAL DISK POINTS

Code	Description	H	Remark
1148-P101	0.5mm disk point	0.5±0.005mm	for narrow grooves
1148-P102	0.7mm disk point	0.7±0.005mm	for narrow grooves
1148-P103	1mm disk point	1±0.005mm	for grooves inside blind hole
1148-P104	0.5mm disk point	0.5±0.005mm	for grooves inside blind hole

## DIGITAL DEPTH GAGES WITH MOUNTING HOLES FOR EXTENSION BASE

DATA  
OUTPUT

1147-150



Unit: mm

- Resolution: 0.01mm/0.0005"
- Buttons: on/off, zero, mm/inch
- Automatic power off, move the digital unit to turn on power
- Meet DIN862
- Battery CR2032
- Data output
- Made of stainless steel
- Optional accessory: data output cable, extension base (code 6141)

(mm)

Code	Range	Accuracy	L
1147-150	0-150mm/0-6"	±0.03mm	237
1147-200	0-200mm/0-8"	±0.03mm	287

Sizes available up to 300mm

extension base (optional)

6141 series

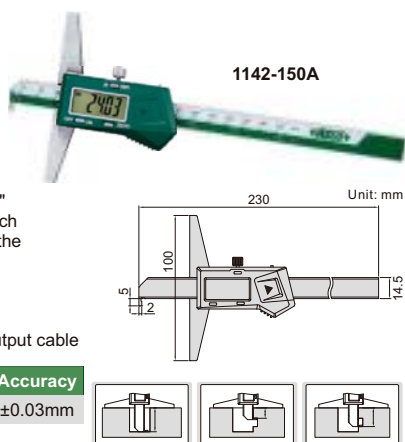
## DIGITAL HOOK DEPTH GAGE

DATA  
OUTPUT

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

Code	Range	Accuracy
1142-150A	0-150mm/0-6"	±0.03mm

Sizes available up to 300mm

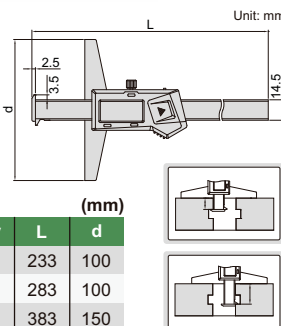


## DIGITAL DOUBLE HOOK DEPTH GAGES

DATA  
OUTPUT

- Resolution: 0.01mm/0.0005"
- Buttons: on/off, zero, mm/inch
- Automatic power off, move the digital unit to turn on power
- Meet DIN862
- Battery CR2032
- Data output
- Made of stainless steel
- Optional accessory: data output 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"	±0.03mm	383	150



## VERNIER DEPTH GAGES (STANDARD MODEL)

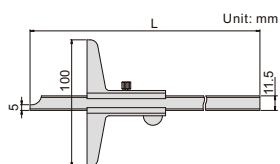
Code	Range	Accuracy	L
1240-1501	0-150mm	±0.03mm	245
1240-2001	0-200mm	±0.03mm	282
1240-3001	0-300mm	±0.04mm	382

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

Sizes available up to 500mm

1240-200

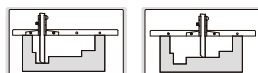
- Made of stainless steel
- Satin chrome plated reading surface



## EXTENSION BASE



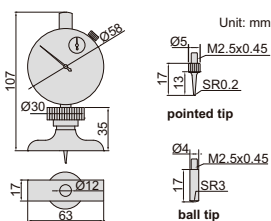
6141-320



- Supplied with two screws
- Made of stainless steel
- Suitable for depth gages series 1147, 1148, 1247, 1248 and 1249

Code	Length
6141-320	320mm

## DIAL DEPTH GAGE



- Dial indicator graduation: 0.01mm
- Stainless steel base
- Supplied with pointed tip and ball tip

Code	Range	Dial indicator stroke	Accuracy
2341-101A	0-10mm	10mm	±0.017mm

2341-101A

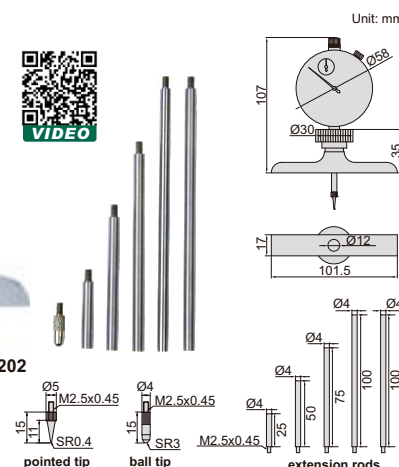


## DIAL DEPTH GAGE



2342-202

- Accuracy: ±0.03mm
- Dial indicator stroke: 30mm
- Dial indicator graduation: 0.01mm
- Stainless steel base
- Extension rods: 25mm (1 pc), 50mm (1 pc), 75mm (1 pc), 100mm (2 pcs)
- Supplied with pointed tip and ball tip



Code	Range	Base
2342-202	0-300mm	101.5x17mm

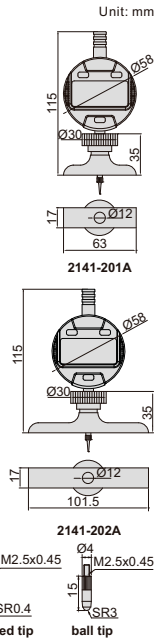
## DIGITAL DEPTH GAGES

DATA  
OUTPUT



2141-202A

- Digital indicator stroke: 12.7mm/0.5"
- Digital indicator resolution: 0.01mm/0.0005"
- Button function: on/off, zero, mm/inch, ABS, data preset, change measuring direction
- CR2032 battery, automatic power off
- Data output, stainless steel base
- Extension rods: 12.5mm (1 pc), 25mm (1 pc), 50mm (1 pc), 75mm (1 pc), 100mm (2 pcs)
- Supplied with pointed tip and ball tip
- Optional accessory: data output cable



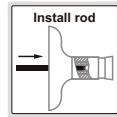
Code	Range	Accuracy	Base
2141-201A	0-300mm/0-12"	±20μm	63x17mm
2141-202A	0-300mm/0-12"	±20μm	101.5x17mm

## DEPTH MICROMETERS

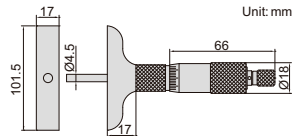
- Meet DIN863-2
- Graduation: 0.01mm
- Micrometer head accuracy:  $\pm 3\mu\text{m}$
- Rod accuracy:  $\pm (2+L/75)\mu\text{m}$ , L is the measuring range in mm
- Rods with flat end
- Ratchet stop



3240-25



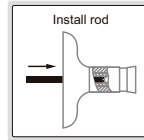
Code	Range	Rods
3240-25	0-25mm	1 pc
3240-100	0-100mm	4 pcs
3240-150	0-150mm	6 pcs
3240-300	0-300mm	12 pcs



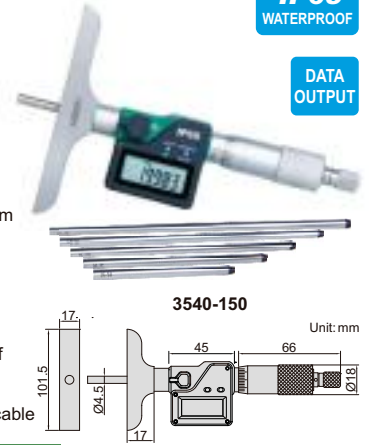
## DIGITAL DEPTH MICROMETER

IP65  
WATERPROOF

DATA  
OUTPUT



- Resolution: 0.001mm/0.00005"
- Micrometer head accuracy:  $\pm 3\mu\text{m}$
- Rod accuracy:  $\pm (2+L/75)\mu\text{m}$ , L is the measuring range in mm
- Button function: on/off, set, mm/inch, ABS/INC
- IP65 dust/waterproof
- Data output
- LR44 battery, automatic power off
- Rods with flat end
- Ratchet stop
- Optional accessory: data output cable



3540-150

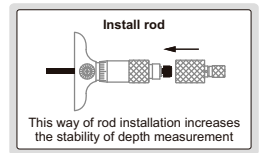
Code	Range	Rods
3540-150	0-150mm/0-6"	6 pcs

Sizes available up to 300mm

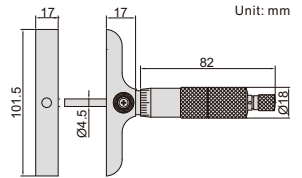
## DEPTH MICROMETERS



3241-100



This way of rod installation increases the stability of depth measurement



- Meet DIN863-2
- 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

Code	Range	Rods
3241-25	0-25mm	1 pc
3241-100	0-100mm	4 pcs
3241-150	0-150mm	6 pcs
3241-300	0-300mm	12 pcs

## DIGITAL HEIGHT GAGES (ECONOMIC MODEL)

ATTENTION: CAN NOT USE CLAMP  
FOR PROTRACTORS (CODE 2372-CLAMP)

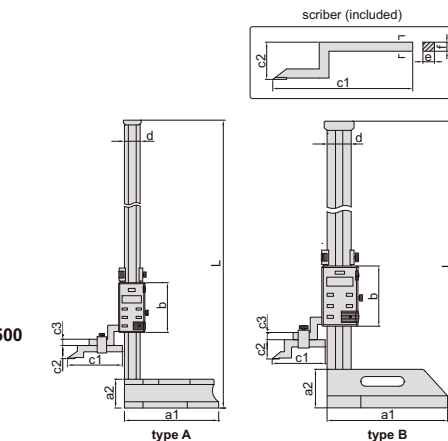
ATTENTION:  
LOW ACCURACY

DATA  
OUTPUT



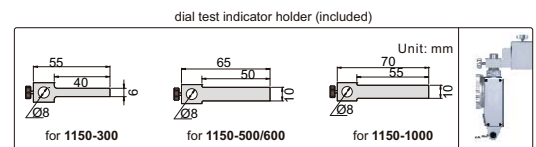
1150-500

1150-1000



Code	Range	Type	Accuracy	L	a1	a2	b	c1	c2	c3	d	e	f
1150-300	0-300mm/0-12"	A	±0.05mm	470	135	45	80	76	25	10	23	6	8
1150-500	0-500mm/0-20"	A	±0.06mm	720	180	55	95	103	25	12	30	10	12
1150-600	0-600mm/0-24"	A	±0.06mm	820	180	55	95	103	25	12	30	10	12
1150-1000	0-1000mm/0-40"	B	±0.08mm	1275	250	80	125	110	39	15	50	10	15

Sizes available up to 2000mm



- 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)
- LR44 battery
- Data output
- Supplied with dial test indicator holder
- Supplied with dust cover
- Optional accessory: data output cable (code 7301-SPC5)

dust cover (included)

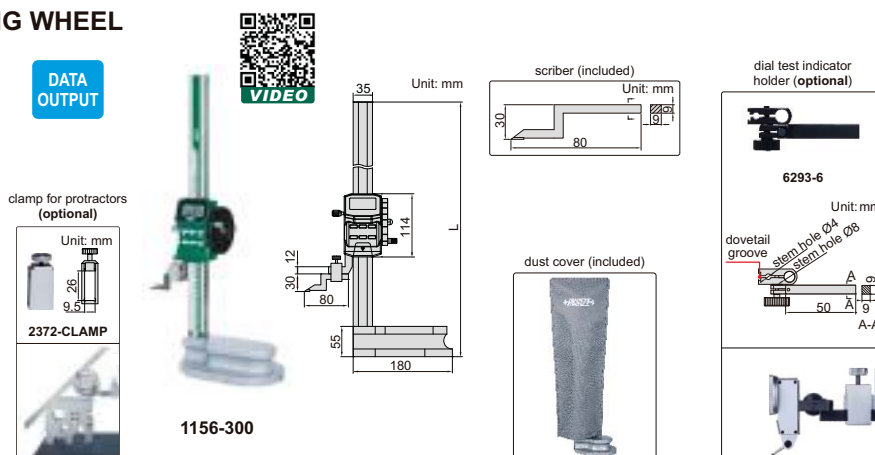


## DIGITAL HEIGHT GAGES WITH DRIVING WHEEL

- Resolution: 0.01mm/0.0005"
- Buttons: on/off, zero, mm/inch, preset +, preset -, hold
- Automatic power off, move the digital unit to turn on power
- Carbide tipped scriber
- Made of stainless steel
- Battery CR2032
- Data output
- Supplied with dust cover
- Optional accessory: data output cable, dial test indicator holder (code **6293-6**), clamp for protractors (code **2372-CLAMP**)

Code	Range	Accuracy	L
<b>1156-300</b>	0-300mm/0-12"	±0.03mm	515
<b>1156-600</b>	0-600mm/0-24"	±0.05mm	815

Sizes available up to 1000mm

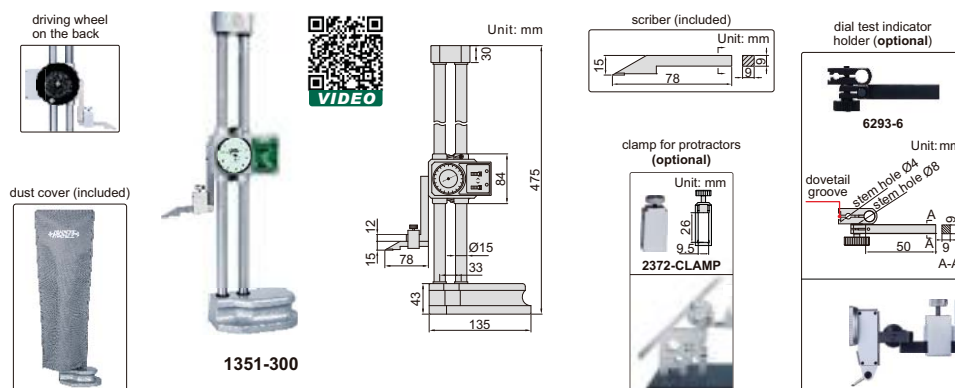


## DIAL HEIGHT GAGE

- 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
- Supplied with dust cover
- Optional accessory:  
dial test indicator holder (code **6293-6**),  
clamp for protractors (code **2372-CLAMP**)

Code	Range	Accuracy
1351-300	0-300mm	±0.04mm

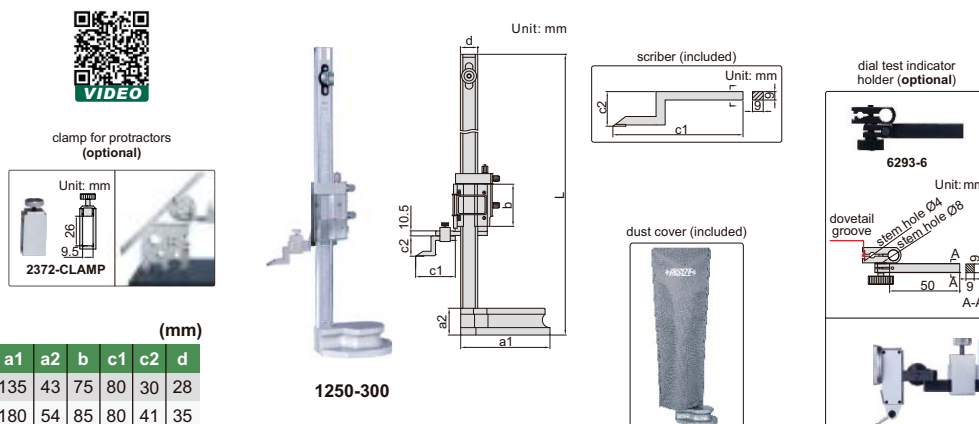
Sizes available up to 600mm



## VERNIER HEIGHT GAGES

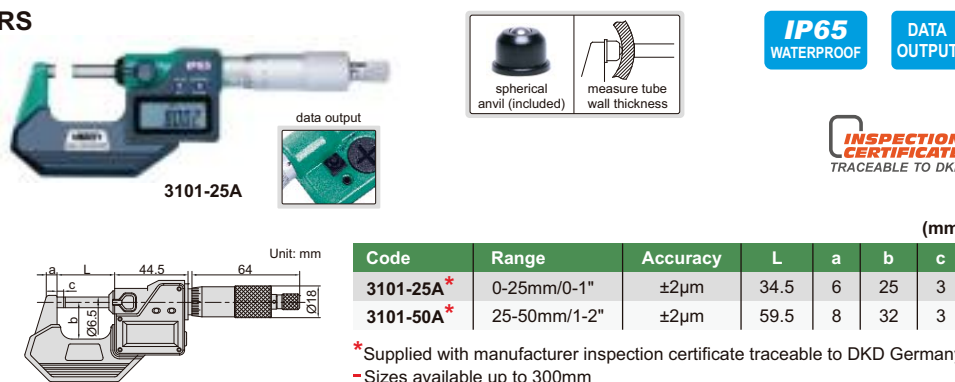
- Graduation: 0.02mm/0.001"
- Adjustable main scale to set zero
- Carbide tipped scribe
- Made of stainless steel (except the base)
- Satin chrome plated scale
- Supplied with magnifier
- With fine adjustment
- Supplied with dust cover
- Optional accessory: dial test indicator holder (code **6293-6**), clamp for protractors (code **2372-CLAMP**)

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



## DIGITAL OUTSIDE MICROMETERS (WITH DATA OUTPUT)

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



## DIGITAL OUTSIDE MICROMETERS (WITHOUT DATA OUTPUT)

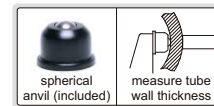


ATTENTION: NO  
DATA OUTPUT

IP65  
WATERPROOF



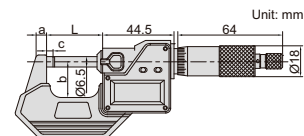
3108-25A



Code	Range	Accuracy	L	a	b	c
3108-25A*	0-25mm/0-1"	±2µm	34.5	6	25	3
3108-50A*	25-50mm/1-2"	±2µm	59.5	8	32	3
3108-75A*	50-75mm/2-3"	±3µm	84.5	8	44.5	3
3108-100A*	75-100mm/3-4"	±3µm	109.5	8	57	3

\* Supplied with manufacturer inspection certificate traceable to DKD Germany  
- Sizes available up to 200mm

- Resolution 0.001mm/0.00005"
- IP65 dust/waterproof
- Button function: on/off, set, mm/inch, ABS/INC
- No data output
- LR44 battery, automatic power off
- Carbide measuring faces
- Ratchet stop
- Supplied with spherical anvil
- Setting standards are included (except 0-25mm/0-1")



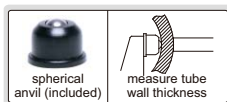
## DIGITAL OUTSIDE MICROMETERS



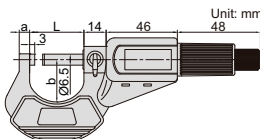
ATTENTION: NO  
DATA OUTPUT



3109-25A



- Resolution 0.001mm/0.00005"
- Button function: on/off, set, mm/inch, ABS/INC
- No data output
- LR44 battery, automatic power off
- Carbide measuring faces
- Friction 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

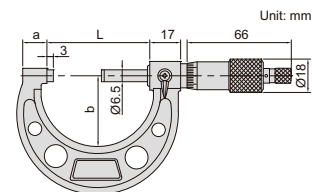
\* Supplied with manufacturer inspection certificate traceable to DKD Germany

## 1µm GRADUATION OUTSIDE MICROMETERS



3210-25A

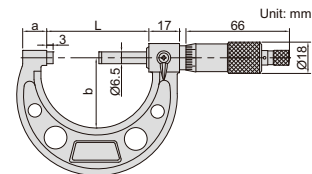
- Graduation: 0.001mm
- Carbide measuring faces
- Meet DIN863-1
- Ratchet stop
- Supplied with setting standards (except 0-25mm)



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

\* Supplied with manufacturer inspection certificate traceable to DKD Germany  
- Sizes available up to 200mm

## OUTSIDE MICROMETERS



3203-50A



3203-25A



3203-1004A

- Graduation: 0.01mm
- Carbide measuring faces
- Ratchet stop
- Meet DIN863-1
- Supplied with setting standards (except 0-25mm)

### Set

Code	Range	Micrometers included	Packaging
3203-1004A*	0-100mm	3203-25A, 3203-50A, 3203-75A, 3203-100A	blow mould case
3203-1506A	0-150mm	3203-25A, 3203-50A, 3203-75A, 3203-100A, 3203-125A, 3203-150A	blow mould case

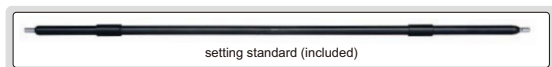
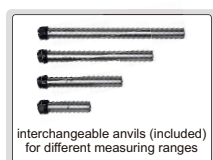
\* Supplied with manufacturer inspection certificate traceable to DKD Germany

### Individual

Code	Range	Accuracy	L	a	b
3203-25A*	0-25mm	±2µm	32	9	28
3203-50A*	25-50mm	±2µm	57	14	38
3203-75A*	50-75mm	±2µm	82	15	49
3203-100A*	75-100mm	±3µm	107	15	60
3203-125A	100-125mm	±3µm	133	16.5	73
3203-150A	125-150mm	±3µm	158	16.5	85
3203-175A	150-175mm	±4µm	183	19.4	104
3203-200A	175-200mm	±4µm	209	19.4	117
3203-225A	200-225mm	±4µm	234	19.4	130
3203-250A	225-250mm	±5µm	260	19.4	142
3203-275A	250-275mm	±5µm	285	19.4	155
3203-300A	275-300mm	±5µm	310	19.4	168

## OUTSIDE MICROMETERS WITH INTERCHANGEABLE ANVILS

- Graduation: 0.01mm
- Ratchet stop
- Meet DIN863-3
- Carbide measuring faces
- Supplied with setting standards



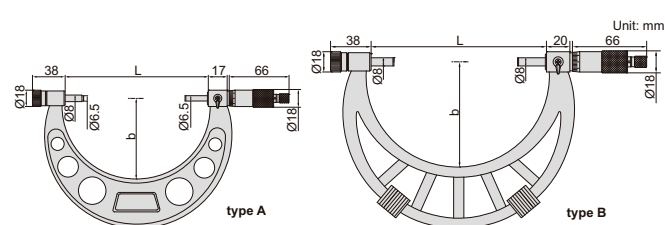
Code	Range	Type	Accuracy	L	b	Setting standard (included)
3206-150A	0-150mm	A	6μm	158	82	25, 50, 75, 100, 125
3206-300A	150-300mm	A	9μm	308	165	150, 175, 200, 225, 250, 275
3206-400	300-400mm	B	11μm	409	224	325, 375
3206-500	400-500mm	B	13μm	509	275	425, 475

Sizes available up to 1000mm



3206-150A

3206-400



## INDICATING MICROMETER

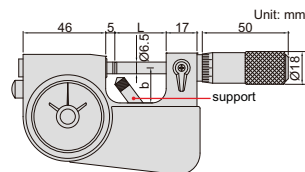


3332-25

- Meet DIN863-3
- Micrometer head graduation: 0.002mm
- Micrometer head accuracy: 4μm
- Dial indicator: range ±0.04mm, graduation 0.001mm, accuracy 0.001mm
- Carbide measuring faces
- Supplied with setting standards

Code	Micrometer head range	L	b	Remark
3332-25	0-25mm	28.5	19	with support

Sizes available up to 100mm



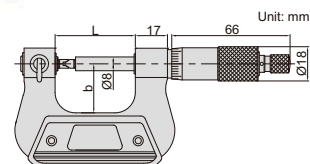
## SCREW THREAD MICROMETER

NON-ROTATING SPINDLE

measuring tips are not included



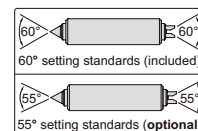
3281-25A



- Measure pitch diameter of screw threads
- Graduation 0.01mm
- Non-rotating spindle
- Ratchet stop
- Supplied with 60° setting standards
- Optional accessory: 55° setting standards, measuring tips (code 7381)

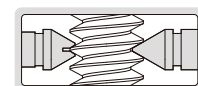
accuracy of micrometers with tips (mm)

Pitch	Range
	0-25
0.4~0.5	±0.01
0.6~0.8	±0.01
1~1.25	±0.012
1.5~2.0	±0.014
2.5~3.5	±0.016



Code	Range	L	b
3281-25A	0-25mm	42	26

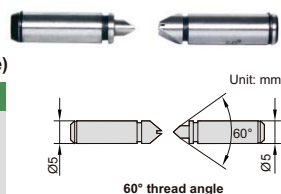
Sizes available up to 200mm



## MEASURING TIPS FOR SCREW THREAD MICROMETERS

Metric and unified thread (60° thread angle)

Code	Pitch
7381-TS	6 pairs/set: 0.4-0.5mm/64-48TPI, 0.6-0.9mm/44-28TPI, 1-1.75mm/24-14TPI, 2-3mm/13-9TPI, 3.5-5mm/8-5TPI, 5.5-7mm/4.5-3.5TPI

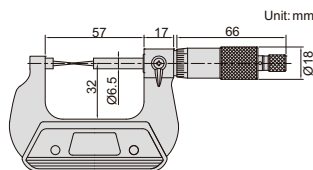


- Supplied in pair
- Suitable for 3281, 3581 series micrometers

## POINT MICROMETER



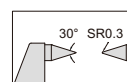
3230-25A



- Measure the web thickness of drills, small grooves and keyways
- Graduation: 0.01mm
- Ratchet stop
- Carbide tips
- Supplied with setting standards (except 0-25mm)

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

Sizes available up to 100mm

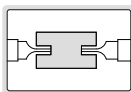


## BLADE MICROMETERS

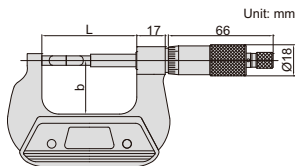
NON-ROTATING  
SPINDLE



3232-25A



- Meet DIN863-3
- Measure the groove diameter of shafts and keyways
- Graduation: 0.01mm
- Non-rotating spindle
- Ratchet stop
- Supplied with setting standards (except 0-25mm)

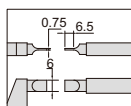


Unit: mm

(mm)

Code	Range	Accuracy	L	b
3232-25A	0-25mm	4μm	57	32
3232-50A	25-50mm	4μm	82	44.5

Sizes available up to 175mm



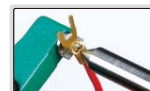
## DIGITAL CRIMP HEIGHT MICROMETER

DATA  
OUTPUT

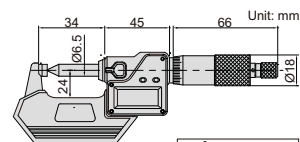
IP65  
WATERPROOF



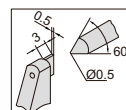
3566-25BA



- Measure the height of crimp contact
- Resolution 0.001mm/0.00005"
- IP65 dust/waterproof
- Button function: on/off, set, mm/inch, ABS/INC
- Data output
- LR44 battery, automatic power off
- Ratchet stop
- Optional accessory: data output cable



Unit: mm

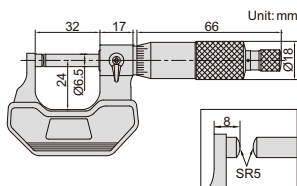


Code	Range	Accuracy
3566-25BA	0-25mm/0-1"	±4μm

## SPHERICAL ANVIL TUBE MICROMETER



3260-25SA



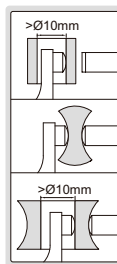
Unit: mm



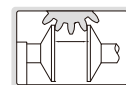
- Meet DIN863-3
- Measure wall thickness of tubes
- Graduation 0.01mm
- Ratchet stop
- Carbide measuring faces
- Supplied with setting standards (except 0-25mm)

Code	Range	Accuracy
3260-25SA	0-25mm	4μm

Sizes available up to 100mm

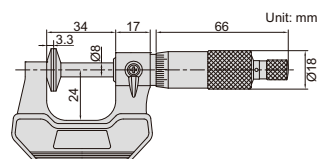


## DISK MICROMETER



3282-25

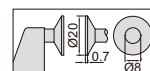
- Meet DIN863-3
- Measure root tangent length of gear
- Graduation: 0.01mm
- Ratchet stop
- Supplied with setting standards



Unit: mm

Code	Range	Accuracy	Parallelism
3282-25	0-25mm	4μm	5μm

Sizes available up to 100mm



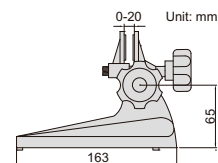
## MICROMETER STAND

Code  
6301

- Suitable for micrometers up to 100mm



6301



Unit: mm

## INSIDE MICROMETERS

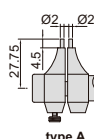


3220-50

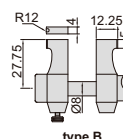
micrometer stand with  
clamp (optional)



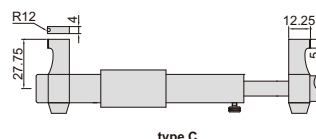
- Graduation: 0.01mm
- Ratchet stop
- Carbide measuring faces
- Optional accessory: setting ring (code 6312), micrometer stand and clamp (code 6301 and 6301-1)



type A



type B



type C

Unit: mm

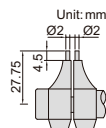
Code	Range	Type	Setting ring	Accuracy
3220-30	5-30mm	A	5mm (included)	7μm
3220-50	25-50mm	B	25mm (included)	8μm
3220-75	50-75mm	B	50mm (optional)	9μm
3220-100	75-100mm	C	75mm (optional)	10μm

## DIGITAL INSIDE MICROMETER



3520-30

DATA  
OUTPUT

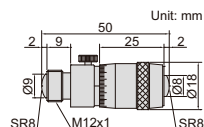


- Resolution 0.001mm/0.00005"
- Button function: on/off, set, mm/inch, ABS/INC
- Data output
- LR44 battery, automatic power off
- Ratchet stop
- Carbide measuring faces
- Optional accessory: data output cable, setting ring (code 6312)

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

Sizes available up to 100mm

## TUBULAR INSIDE MICROMETERS



- 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



3222-300

Code	Range	Travel of micrometer head	Extension rods
3222-300	50-300mm	13mm	13mm, 25mm, 50mm (2pcs), 100mm
3222-500	50-500mm	13mm	13mm, 25mm, 50mm (2pcs), 100mm, 200mm
3222-600	50-600mm	13mm	13mm, 25mm, 50mm, 100mm, 150mm, 200mm
3222-1000	50-1000mm	13mm	13mm, 25mm, 50mm (2pcs), 100mm, 200mm (2pcs), 300mm

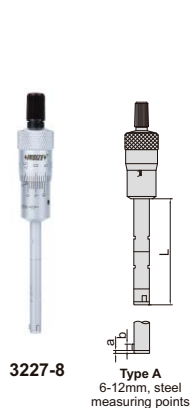
Sizes available up to 1500mm

## THREE POINTS INTERNAL MICROMETERS

INSPECTION  
CERTIFICATE

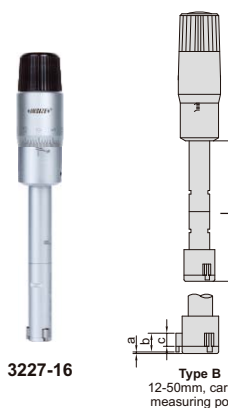


- Meet DIN863-4
- 6-12mm: graduation 0.001mm, 12-100mm: graduation 0.005mm
- Ratchet stop
- Optional accessory: setting rings (code 6312), micrometer stand and clamp (code 6301 and 6301-2)



3227-8

Type A  
6-12mm, steel  
measuring points

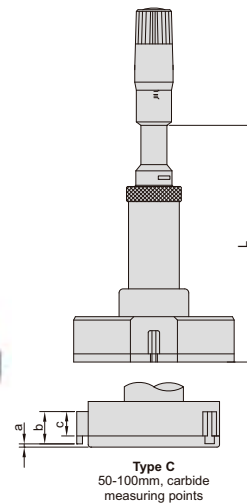


3227-16

Type B  
12-50mm, carbide  
measuring points



3227-100



Type C  
50-100mm, carbide  
measuring points

### Individual

Code	Range	Type	Accuracy	Setting ring	Extension rod (included)	L	a	b	c
3227-8*	6-8mm	A	4µm	Ø6mm(included)	100mm	54.5	1.5	2.5	—
3227-10*	8-10mm	A	4µm	Ø8mm(included)	100mm	54.5	1.5	2.5	—
3227-12*	10-12mm	A	4µm	Ø10mm(included)	100mm	54.5	1.5	2.5	—
3227-16*	12-16mm	B	4µm	Ø16mm(included)	150mm	80	0.5	6	4.5
3227-20*	16-20mm	B	4µm	Ø16mm(included)	150mm	80	0.5	6	4.5
3227-25*	20-25mm	B	4µm	Ø25mm(included)	150mm	90	0.5	8	6
3227-30*	25-30mm	B	4µm	Ø25mm(included)	150mm	90	0.5	8	6
3227-40*	30-40mm	B	4µm	Ø40mm(included)	150mm	97	0.5	14	12
3227-50*	40-50mm	B	5µm	Ø40mm(included)	150mm	97	0.5	14	12
3227-63*	50-63mm	C	5µm	Ø62mm(included)	150mm	114	0.5	17.5	14.5
3227-75*	62-75mm	C	5µm	Ø62mm(included)	150mm	114	0.5	17.5	14.5
3227-88*	75-88mm	C	5µm	Ø87mm(included)	150mm	114	0.5	17.5	14.5
3227-100*	87-100mm	C	5µm	Ø87mm(included)	150mm	114	0.5	17.5	14.5

### Set

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

\*Supplied with manufacturer inspection certificate

setting ring (included)



extension rod (included)



3227-504

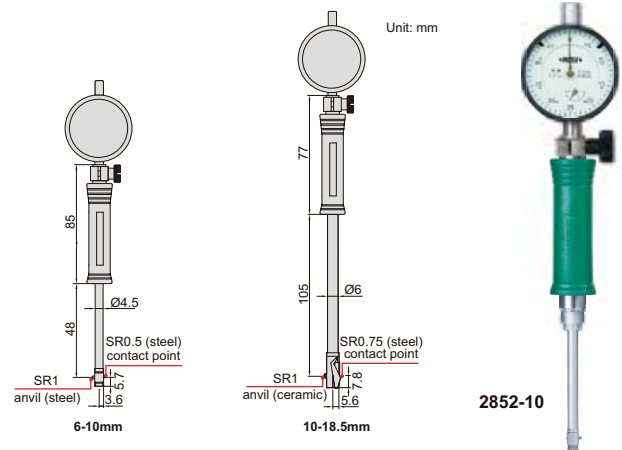
## BORE GAGES FOR SMALL HOLES



**ATTENTION: NOT SUITABLE  
FOR 0.001MM DIAL INDICATORS**

- Repeatability: 0.003mm
- Optional accessory: setting ring (code **6312**)

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



## BORE GAGES

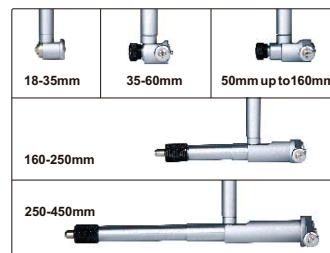
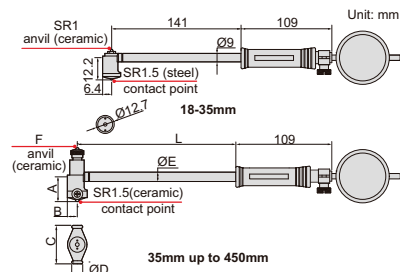
**ATTENTION: NOT SUITABLE  
FOR 0.001MM DIAL INDICATORS**

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

Range	A	B	C	ØD	ØE	F	L
35-60mm	22	9	27	13	12.8	SR2	141
50-100mm	26	9	35	13	12.8	SR2	141
50-160mm	26	9	35	13	12.8	SR2	241
160-250mm	56.5	13	74.5	15	12.8	SR2	241
250-450mm	86.5	15	101.5	15	14.5	SR2.5	241



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



## BORE GAGE SETS

**ATTENTION: NOT SUITABLE  
FOR 0.001MM DIAL INDICATORS**

- Repeatability: 0.003mm
- Optional accessory: setting ring (code **6312**)

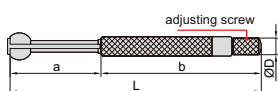
packaging (code **2824-S3**)



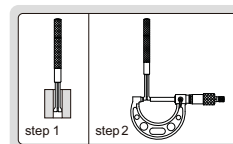
Code	Range	Indicator	Bore gages included	Accuracy
<b>2824-S160</b>	35-160mm	dial indicator, code <b>2308-10FA</b> , range 10mm, graduation 0.01mm	① 35-50mm (dial indicator and handle are not included) ② 50-160mm	35-50mm ±0.018mm 50-160mm ±0.018mm
<b>2824-S3</b>	18-160mm	dial indicator, code <b>2308-10FA</b> , range 10mm, graduation 0.01mm	① 18-35mm ② 35-60mm (dial indicator is not included) ③ 50-160mm (dial indicator is not included)	18-35mm ±0.015mm 35-60mm ±0.018mm 50-160mm ±0.018mm



## SMALL HOLE GAGE SET



**4208-1**

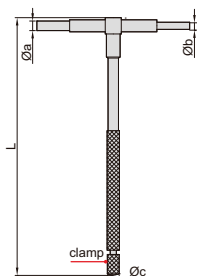
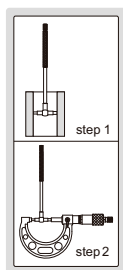


Range	L	a	b	ØD
3-5mm	76mm	24mm	52mm	5mm
5-7.5mm	79mm	27mm	52mm	5mm
7.5-10mm	88mm	30mm	58mm	6mm
10-13mm	91mm	34mm	58mm	6mm

- 4 gages per set
- For small holes, slots and grooves, etc.
- Satin chrome finish

Code	Total range	Gages included
<b>4208-1</b>	3-13mm	3-5mm, 5-7.5mm, 7.5-10mm, 10-13mm

## TELESCOPING GAGE SET



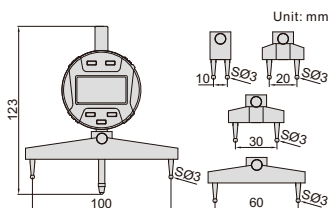
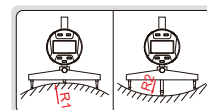
- 6 gages per set
- For quick measurement of inside diameter of holes and width of slots
- Satin chrome finish

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

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

## DIGITAL RADIUS GAGE

ATTENTION: NO DATA OUTPUT



- Resolution: 0.005mm/0.00005"
- Buttons: on/off, hold, mm/inch, s (select jaws), zero
- Measure radius of internal or external arcs
- Display can be rotated by 320°
- Supplied with 5 jaws for different sizes of arc
- Battery CR2032, automatic power off

Code	Range of external radius (R1)	Range of internal radius (R2)	Accuracy (mm)
2183	5-910mm/0.2-35.83"	7-910mm/0.3-35.83"	±0.01R <sup>*</sup>

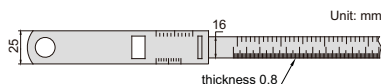
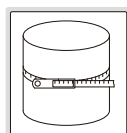
\* R is the radius to be measured

## CIRCUMFERENCE TAPES

## ATTENTION: BASIC MODEL



7114-950



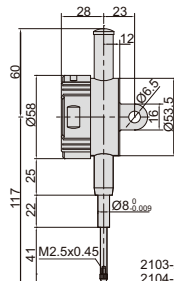
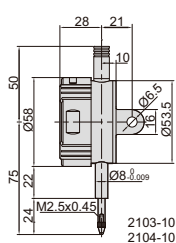
- Graduation: 0.1mm
- Measure diameter and circumference of pipes, trees, tires, etc.
- Laser engraved scale
- Made of stainless steel

Code	Circumference range	Diameter range	Accuracy	
			Circumference	Diameter
<b>7114-950</b>	150-950mm	Ø50-300mm	±1.5mm	±0.5mm
<b>7114-2200</b>	940-2200mm	Ø300-700mm	±1.5mm	±0.5mm
<b>7114-3460</b>	2190-3460mm	Ø700-1100mm	±1.5mm	±0.5mm

### DIGITAL INDICATORS (ADVANCED MODEL)

## DATA OUTPUT

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



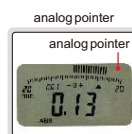
**INSPECTION  
CERTIFICATE**  
TRACEABLE TO NIST



Resolution 0.001mm/0.00005"

Code	Range	Accuracy	Hysteresis	Remark
<b>2103-10*</b>	12.7mm/0.5"	5µm	2µm	lug back
<b>2103-25*</b>	25.4mm/1"	5µm	3µm	lug back
<b>2103-10F*</b>	12.7mm/0.5"	5µm	2µm	flat back
<b>2103-25F*</b>	25.4mm/1"	5µm	3µm	flat back

\* Supplied with manufacturer inspection certificate traceable to NIST USA



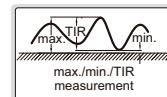
spindle lift knob is included



warning when over tolerance



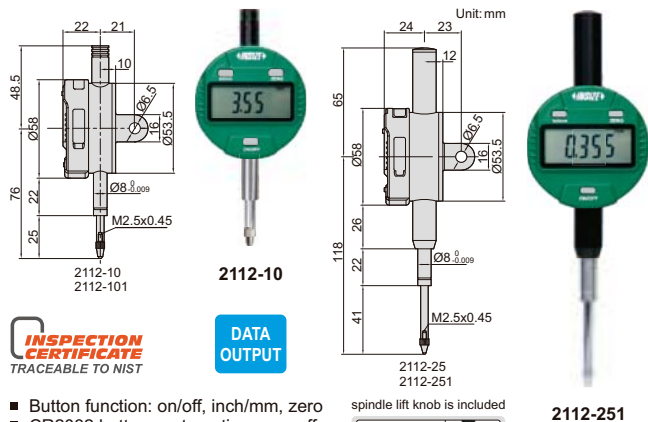
max./min./TIR



Resolution 0.01mm/0.0005"

Code	Range	Accuracy	Hysteresis	Remark
<b>2104-10*</b>	12.7mm/0.5"	20μm	10μm	lug back
<b>2104-25*</b>	25.4mm/1"	20μm	10μm	lug back
<b>2104-10F*</b>	12.7mm/0.5"	20μm	10μm	flat back
<b>2104-25F*</b>	25.4mm/1"	20μm	10μm	flat back

## DIGITAL INDICATORS (STANDARD MODEL)



INSPECTION  
CERTIFICATE  
TRACEABLE TO NIST

DATA  
OUTPUT

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



Resolution 0.01mm/0.0005"

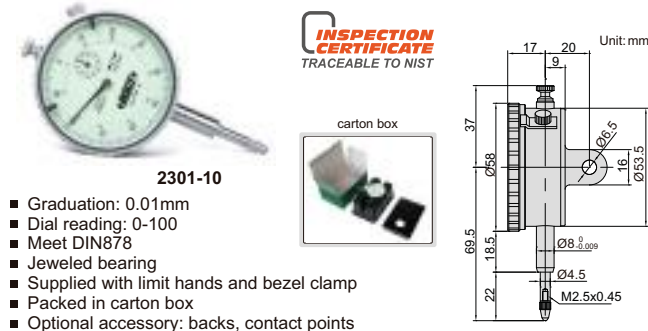
Code	Range	Accuracy	Hysteresis	Remark
2112-10*	12.7mm/0.5"	20μm	10μm	lug back
2112-25*	25.4mm/1"	20μm	10μm	lug back
2112-10F*	12.7mm/0.5"	20μm	10μm	flat back
2112-25F*	25.4mm/1"	20μm	10μm	flat back

Resolution 0.001mm/0.00005"

Code	Range	Accuracy	Hysteresis	Remark
2112-101*	12.7mm/0.5"	5μm	2μm	lug back
2112-251*	25.4mm/1"	5μm	3μm	lug back
2112-101F*	12.7mm/0.5"	5μm	2μm	flat back
2112-251F*	25.4mm/1"	5μm	3μm	flat back

\*Supplied with manufacturer inspection certificate traceable to NIST USA

## DIAL INDICATORS (PROMOTION MODEL)



INSPECTION  
CERTIFICATE  
TRACEABLE TO NIST

- Graduation: 0.01mm
- Dial reading: 0-100
- Meet DIN878
- Jeweled bearing
- Supplied with limit hands and bezel clamp
- Packed in carton box
- Optional accessory: backs, contact points

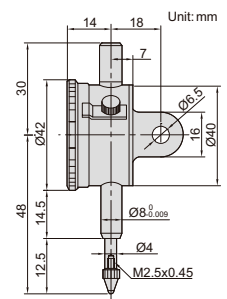
Code	Range	Accuracy	Hysteresis	Range/rev	Remark
2301-10*	10mm	17μm	3μm	1mm	lug back with spare flat back
2301-10F*	10mm	17μm	3μm	1mm	flat back

\*Supplied with manufacturer inspection certificate traceable to NIST USA

## COMPACT DIAL INDICATOR

INSPECTION  
CERTIFICATE  
TRACEABLE TO NIST

JEWELLED  
BEARING



- Meet DIN878
- Jeweled bearing
- With lug back
- Supplied with limit pointers and bezel clamp
- Optional accessory: backs, contact points

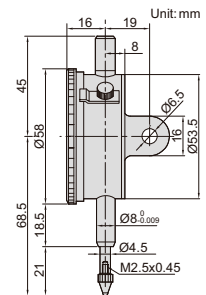
Code	Range	Graduation	Accuracy	Hysteresis	Range/rev	Dial reading
2311-5*	5mm	0.01mm	14μm	3μm	0.5mm	0-50

\*Supplied with manufacturer inspection certificate traceable to NIST USA

## DIAL INDICATORS (STANDARD MODEL)

INSPECTION  
CERTIFICATE  
TRACEABLE TO NIST

JEWELLED  
BEARING



- Graduation: 0.01mm
- Dial reading: 0-100
- Meet DIN878
- Jeweled bearing
- Supplied with limit pointers and bezel clamp
- Optional accessory: backs, contact points

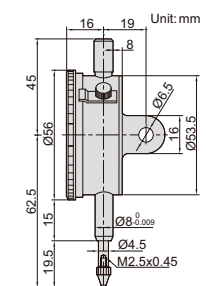
Code	Range	Accuracy	Hysteresis	Range/rev	Remark
2308-10A*	10mm	17μm	3μm	1mm	lug back
2308-10FA*	10mm	17μm	3μm	1mm	flat back

\*Supplied with manufacturer inspection certificate traceable to NIST USA

## PRECISION DIAL INDICATORS

INSPECTION  
CERTIFICATE  
TRACEABLE TO NIST

JEWELLED  
BEARING



- Graduation: 0.001mm
- Jeweled bearing
- Supplied with limit pointers and bezel clamp
- Optional accessory: backs, contact points

Code	Range	Accuracy	Hysteresis	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

\*Supplied with manufacturer inspection certificate traceable to NIST USA

## SHOCKPROOF DIAL INDICATORS

JEWELLED  
BEARING

SHOCK  
PROOF

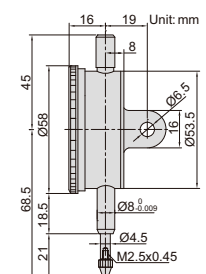


- Meet DIN878
- Graduation: 0.01mm
- Shockproof
- Jeweled bearing
- Supplied with limit pointers and bezel clamp
- Optional accessory: backs, contact points

Code	Range	Accuracy	Hysteresis	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

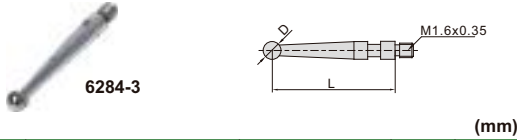
\*Supplied with manufacturer inspection certificate traceable to NIST USA

INSPECTION  
CERTIFICATE  
TRACEABLE TO NIST





## STYLI FOR DIAL TEST INDICATORS

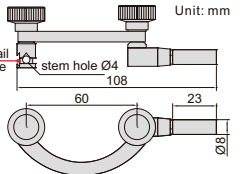


Code	For dial test indicator	Material of contact point	L (mm)	D (mm)
6284-1	2380-08, 2398-08	steel	13.5	SØ1
6284-3	2381-08, 2399-08	carbide	13.5	SØ2
6284-4		ruby	13.5	SØ2

## DIAL TEST INDICATOR CENTERING HOLDER



Code  
6291-1



■ Center cylinders or holes on machine tools

## DIAL TEST INDICATOR HOLDERS



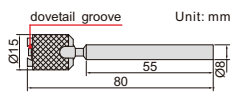
Code	Stem section	Stem length (L)
6293-1	9x9mm	100mm
6293-6	9x9mm	50mm



## DIAL TEST INDICATOR UNIVERSAL HOLDER

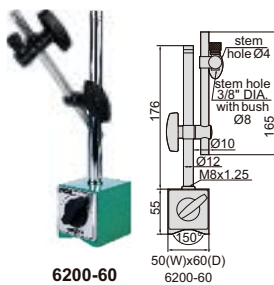


Code  
6297-1

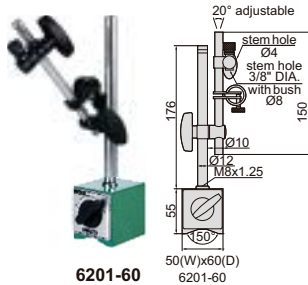


■ Set the indicators at the desired attitude to the workpiece

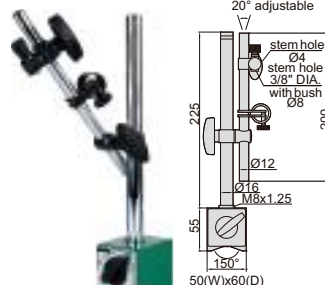
## MAGNETIC STANDS



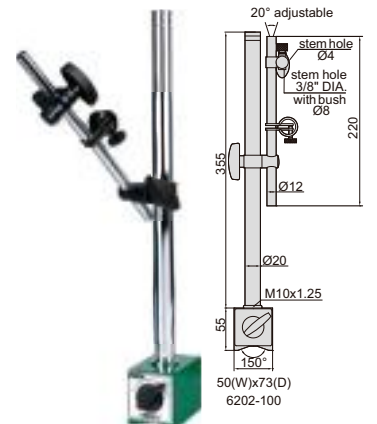
6200-60



6201-60



6202-80



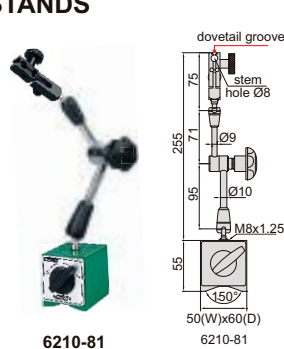
6202-100

■ For digital/dial indicators and dial test indicators

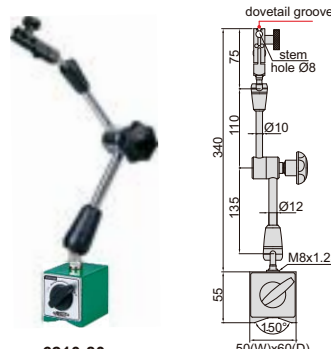
Code	Magnetic force	Applicable holding stem	Remark
6200-60	60kgf	Ø8mm, Ø4mm, 3/8" DIA.	without fine adjustment
6201-60	60kgf	Ø8mm, Ø4mm, 3/8" DIA.	with fine adjustment
6202-80	80kgf	Ø8mm, Ø4mm, 3/8" DIA.	with fine adjustment
6202-100	100kgf	Ø8mm, Ø4mm, 3/8" DIA.	with fine adjustment

## UNIVERSAL MAGNETIC STANDS

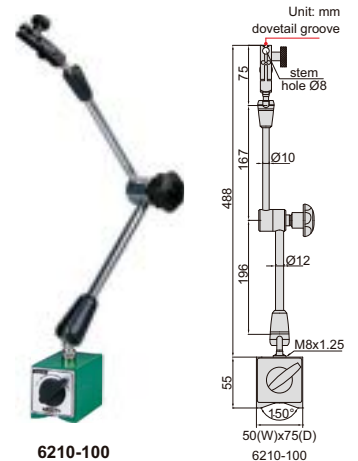
■ For digital/dial indicators and dial test indicators



6210-81



6210-80



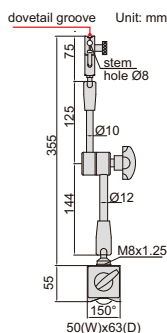
6210-100

Code	Magnetic force	Applicable holding stem	Remark
6210-81	80kgf	Ø8mm	with fine adjustment and dovetail groove
6210-80	80kgf	Ø8mm	with fine adjustment and dovetail groove
6210-100	100kgf	Ø8mm	with fine adjustment and dovetail groove

## UNIVERSAL MAGNETIC STAND (LIGHT DUTY)

**ATTENTION: LOW LOCKING FORCE**

- Magnetic force: 80kgf
- Applicable holding stem: Ø8mm
- For digital/dial indicators and dial test indicators



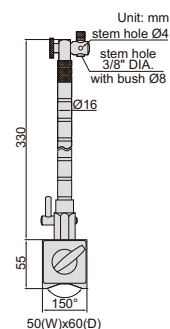
6208-80A

Code	Remark
6208-80A	with fine adjustment and dovetail groove

## FLEX ARM MAGNETIC STAND

**ATTENTION: FOR DIAL TEST INDICATORS ONLY**

- For dial test indicators



6207-80A

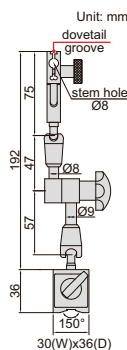
Code	Magnetic force	Applicable holding stem
6207-80A	80kgf	Ø8mm, Ø4mm, 3/8" DIA.

## MINI MAGNETIC STAND

**ATTENTION: FOR DIAL TEST INDICATORS ONLY**

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

6224-40



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

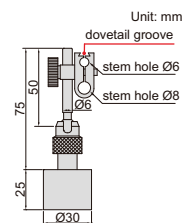
## MINI MAGNETIC STAND

**ATTENTION: FOR DIAL TEST INDICATORS ONLY**

- For dial test indicators
- With dovetail groove



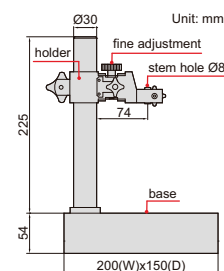
6211-10



Code	Magnetic force	Applicable holding stem
6211-10	10kgf	Ø6mm, Ø8mm

## GRANITE DIAL INDICATOR STAND

dust cover (included)



- Vertical travel of holder: 150mm
- Fine adjustment range: 2mm
- Base: flatness 2.5µm
- Supplied with dust cover

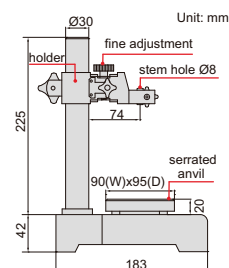
Code	Applicable holding stem
6866-150	Ø8mm

6866-150



## DIAL INDICATOR STAND

dust cover (included)



- Vertical travel of holder: 150mm
- Fine adjustment range: 2mm
- Supplied with dust cover

Code	Applicable holding stem	Anvil
6863-150	Ø8mm	serrated, flatness 1.5µm, hardness HRC60±2

6863-150

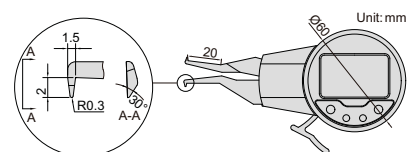
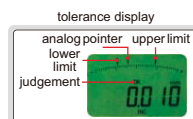
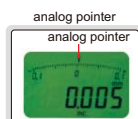
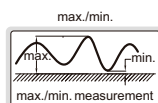


## DIGITAL INTERNAL CALIPER GAGE

- Resolution: 0.005mm/0.0002"
- Repeatability: 0.01mm
- 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
- Data output



2121-15



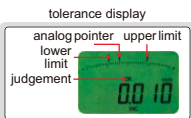
Code	Range	Accuracy
2121-15	5-15mm/0.2-0.6"	±0.03mm

Sizes available up to 60mm

## DIGITAL EXTERNAL CALIPER GAGE



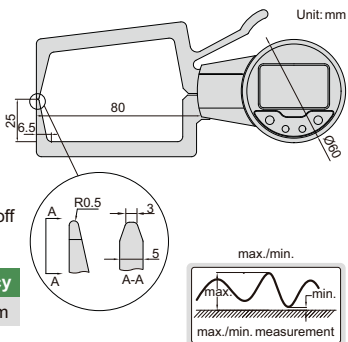
2131-21



- Resolution: 0.005mm/0.0002"
- Repeatability: 0.01mm
- 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
- Data output

Code	Range	Accuracy
2131-21	0-20mm/0-0.8"	±0.03mm

Sizes available up to 60mm



## EXTERNAL DIAL CALIPER GAGE

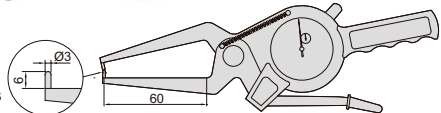


2332-20

- Carbide measuring tips

Code	Range	Graduation	Accuracy
2332-20	0-20mm	0.01mm	±0.04mm

Sizes available up to 100mm



## DIGITAL EXTERNAL CALIPER GAGE

DATA  
OUTPUT

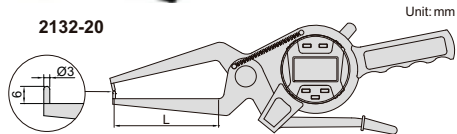


2132-20

- Carbide measuring tips
- 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
- Data output
- Optional accessory: data output cable

Code	Range	Resolution	Accuracy	L
2132-20	0-20mm/0-0.8"	0.01mm/0.0005"	±0.04mm	60

Sizes available up to 100mm



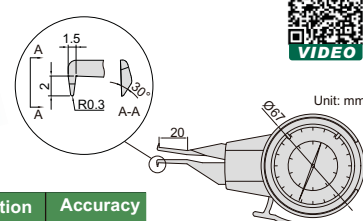
## INTERNAL DIAL CALIPER GAGE



2222-15

Code	Range	Graduation	Accuracy
2222-15	5-15mm	0.01mm	±0.03mm

Sizes available up to 60mm



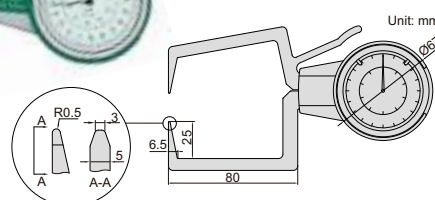
## EXTERNAL DIAL CALIPER GAGE



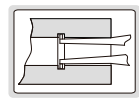
2333-201

Code	Range	Graduation	Accuracy
2333-201	0-20mm	0.01mm	±0.03mm

Sizes available up to 60mm



## INTERNAL DIAL CALIPER GAGES



2321-35

- Carbide measuring tips

Code	Range	Graduation	Accuracy	L	A	D
2321-35	15-35mm	0.01mm	±0.04mm	50	3	Ø3
2321-55	35-55mm	0.01mm	±0.04mm	80	6	Ø3

Sizes available up to 135mm



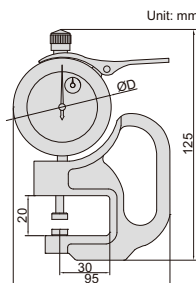
## THICKNESS GAGES



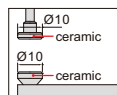
2364-10



2364-1



Code	Range	Graduation	Accuracy	ØD
2364-10	0-10mm	0.01mm	±0.02mm	58mm
2364-1	0-1mm	0.001mm	±0.005mm	56mm

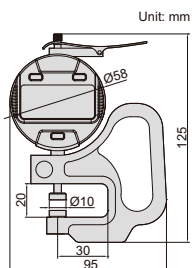


## DIGITAL THICKNESS GAGES



2871-101

- Ceramic spindle tip and anvil
- Buttons: on/off, zero, mm/inch
- Battery CR2032, automatic power off
- Data output
- Optional accessory: data output cable



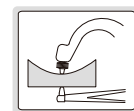
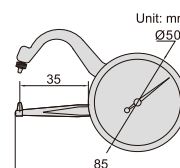
DATA  
OUTPUT

Code	Range	Resolution	Accuracy
2871-10	0-10mm/0-0.4"	0.01mm/0.0005"	±0.02mm
2871-101	0-10mm/0-0.4"	0.001mm/0.00005"	±0.005mm

## THICKNESS GAGE



2862-101

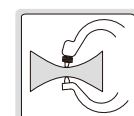
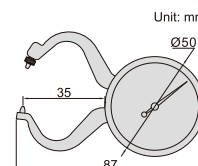


Code	Range	Graduation	Accuracy
2862-101	0-10mm	0.05mm	±0.1mm

## THICKNESS GAGE

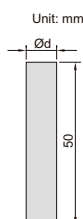


2863-10



Code	Range	Graduation	Accuracy
2863-10	0-10mm	0.05mm	±0.1mm

## PIN GAGE SETS



- Meet DIN2267, grade 1
- Made of alloy steel
- Hardness HRC62-65
- Diameter accuracy: ±1µm



4166-6D

Code	Diameter Ød (mm)	Step	Pin gages per set
4166-0D	0.20, 0.21, 0.22, ..., 0.50	0.01mm	31
4166-1	0.50, 0.51, 0.52, ..., 1.00	0.01mm	51
4166-1D	1.00, 1.01, 1.02, ..., 1.50	0.01mm	51
4166-2	1.50, 1.51, 1.52, ..., 2.00	0.01mm	51
4166-2D	2.00, 2.01, 2.02, ..., 2.50	0.01mm	51
4166-3	2.50, 2.51, 2.52, ..., 3.00	0.01mm	51
4166-3D	3.00, 3.01, 3.02, ..., 3.50	0.01mm	51
4166-4	3.50, 3.51, 3.52, ..., 4.00	0.01mm	51
4166-4D	4.00, 4.01, 4.02, ..., 4.50	0.01mm	51
4166-5	4.50, 4.51, 4.52, ..., 5.00	0.01mm	51
4166-5D	5.00, 5.01, 5.02, ..., 5.50	0.01mm	51
4166-6	5.50, 5.51, 5.52, ..., 6.00	0.01mm	51
4166-6D	6.00, 6.01, 6.02, ..., 6.50	0.01mm	51
4166-7	6.50, 6.51, 6.52, ..., 7.00	0.01mm	51
4166-7D	7.00, 7.01, 7.02, ..., 7.50	0.01mm	51
4166-8	7.50, 7.51, 7.52, ..., 8.00	0.01mm	51
4166-8D	8.00, 8.01, 8.02, ..., 8.50	0.01mm	51
4166-9	8.50, 8.51, 8.52, ..., 9.00	0.01mm	51
4166-9D	9.00, 9.01, 9.02, ..., 9.50	0.01mm	51
4166-10	9.50, 9.51, 9.52, ..., 10.00	0.01mm	51

## STEEL GAGE BLOCK SETS



Dimension:

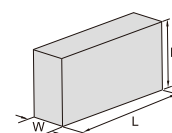
Size (L)	W	H
0.5≤L≤10mm	9mm	30mm
L>10mm	9mm	35mm



4100-287

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

Blocks per set	Blocks included in set			Code
	Size (mm)	Step (mm)	Quantity	
87	1.001-1.009	0.001	9	4100-287
	1.01-1.49	0.01	49	
	0.5-9.5	0.5	19	
	10-100	10	10	
47	1.005		1	4100-247
	1.01-1.19	0.01	19	
	1.2-1.9	0.1	8	
	1-9	1	9	
32	10-100	10	10	4100-232
	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	



## METRIC THREAD PLUG GAGES



4130-10

- Supplied with Go and No-Go end
- Class 6H
- Standard ISO1502



ATTENTION:  
BASIC MODEL

Code	Size (mm)
4130-2D5*	M2.5x0.45
4130-3*	M3x0.5
4130-4*	M4x0.7
4130-5*	M5x0.8
4130-6*	M6x1
4130-8*	M8x1.25

Code	Size (mm)
4130-10*	M10x1.5
4130-12*	M12x1.75
4130-14*	M14x2
4130-16*	M16x2
4130-20*	M20x2.5
4130-24*	M24x3

\*Supplied with manufacturer inspection certificate

## PLAIN PLUG GAGES

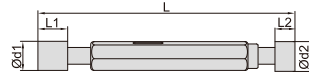
### CUSTOM-MADE

OTHER CLASSES ARE AVAILABLE, SUCH AS H8; H9  
OTHER DIAMETERS ARE AVAILABLE, SUCH AS 19,003mm  
OTHER LENGTHS ARE AVAILABLE, SUCH AS 70mm



4124-12

- Supplied with Go and No-Go gages together
- Class H7
- Hardness HRC 60±2
- Standard DIN7150-2



#### Size tolerance of H7

(mm)

Diameter Ød	Size tolerance of Go gage (µm)	Size tolerance of No-Go gage (µm)	L1	L2	L
≥2, ≤3	+0.5 / +2.5	+9 / +11	6.5	4.5	20
>3, ≤6	+0.75 / +3.25	+10.75 / +13.25	8	6	24
>6, ≤10	+0.75 / +3.25	+13.75 / +16.25	10	7	29
>10, ≤14	+1 / +4	+16.5 / +19.5	12	8	34
>14, ≤18	+1 / +4	+16.5 / +19.5	14	10	36
>18, ≤24	+1 / +5	+19 / +23	16	12	42
>24, ≤30	+1 / +5	+19 / +23	18	14	42
>30, ≤40	+1.5 / +5.5	+23 / +27	20	15	55

Code	Diameter Ød (mm)	Code	Diameter Ød (mm)	Code	Diameter Ød (mm)
4124-3	3	4124-13	13	4124-24	24
4124-4	4	4124-14	14	4124-25	25
4124-5	5	4124-15	15	4124-26	26
4124-6	6	4124-16	16	4124-28	28
4124-7	7	4124-17	17	4124-30	30
4124-8	8	4124-18	18	4124-35	35
4124-9	9	4124-19	19	4124-40	40
4124-10	10	4124-20	20		
4124-11	11	4124-22	22		
4124-12	12	4124-23	23		

## METRIC THREAD RING GAGES

INSPECTION  
CERTIFICATE



4120-16



4120-16N

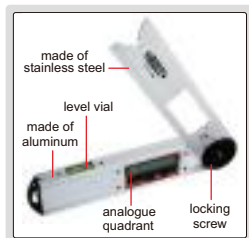
ATTENTION:  
BASIC MODEL

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

Code (Go)	Code (No Go)	Size (mm)	Code (Go)	Code (No Go)	Size (mm)
4120-2D5*	4120-2D5N*	M2.5x0.45	4120-10*	4120-10N*	M10x1.5
4120-3*	4120-3N*	M3x0.5	4120-12*	4120-12N*	M12x1.75
4120-4*	4120-4N*	M4x0.7	4120-14*	4120-14N*	M14x2
4120-5*	4120-5N*	M5x0.8	4120-16*	4120-16N*	M16x2
4120-6*	4120-6N*	M6x1	4120-20*	4120-20N*	M20x2.5
4120-8*	4120-8N*	M8x1.25	4120-24*	4120-24N*	M24x3

\* Supplied with manufacturer inspection certificate

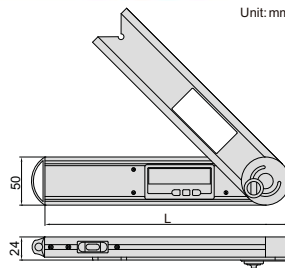
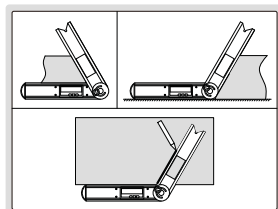
## DIGITAL PROTRACTOR



2171-250



Unit: mm



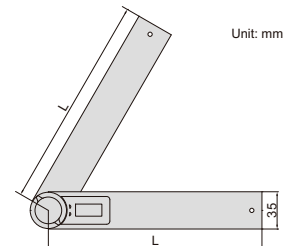
- Buttons: on/off, hold (keep the reading), zero, ABS (absolute and incremental measurement)
- Fix the locking screw at 4 positions for different measuring ranges: 0°~225°, -225°~0°, -45°~180°, -180°~45°
- Remove the locking screw for 360° range
- With level vial
- Battery CR2032
- Automatic power off

Code	Size (L)	Range	Resolution	Accuracy
2171-250	250mm	0-360°	0.05°	±0.15°

## DIGITAL PROTRACTORS



2176-200



Unit: mm

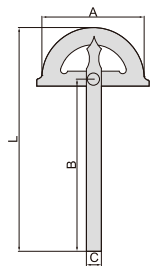
- Buttons: on/off, zero
- With clamping screw to lock the blades
- Graduation of blade: 1mm and 1/32"
- Made of stainless steel
- CR2032 battery
- Automatic power off

Code	Size (L)	Range	Resolution	Accuracy
2176-200	200mm	0-360°	0.1°	±0.3°
2176-300	300mm	0-360°	0.1°	±0.3°

## PROTRACTORS



4799-180



- Made of stainless steel
- Satin chrome plated scale
- With clamping screw

Code	Size (AxB)	Range	Graduation	Accuracy	L	C
4799-180	80x120mm	0-180°	1°	±0.3°	168	11
4799-1120	120x150mm	0-180°	1°	±0.3°	220	14
4799-1150	150x200mm	0-180°	1°	±0.3°	285	16
4799-1200	200x300mm	0-180°	1°	±0.3°	413	20

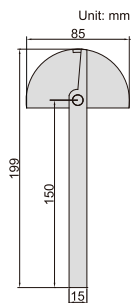
## PROTRACTOR



4780-85

- Made of stainless steel
- Satin chrome plated scale
- With clamping screw

Code	Size	Range	Graduation	Accuracy
4780-85	85x150mm	0-180°	1°	±0.3°



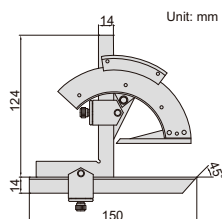
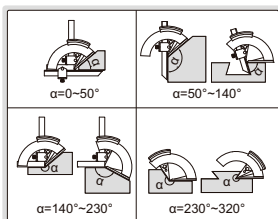
## PROTRACTOR



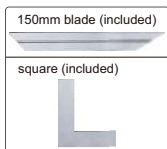
2374-320

- Made of stainless steel
- Satin chrome plated scale

Code	Range	Graduation	Accuracy
2374-320	0-320°	2'	±2'

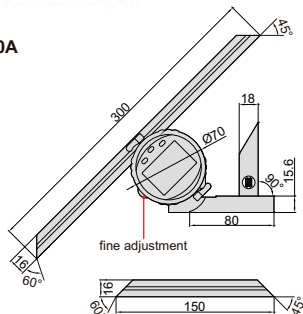
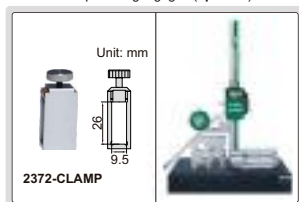


## DIGITAL PROTRACTOR



2172-360A

clamp for height gages (optional)

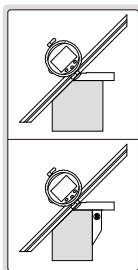


DATA OUTPUT



- Display in degree (for example 32.655°) and degree/minute/second (for example 32°39'30")
- SET button: preset the reading, change measuring direction
- MODE button: choose 0-90°, 0-180° or 0-360° display
- ZERO/ON/OFF button: zero and power on/off
- Battery CR2032, automatic power off
- Data output
- Supplied with square to set 90°
- Made of stainless steel
- Optional accessory: data output cable, clamp (code 2372-CLAMP), suitable for height gages 1156, 1351 and 1250

Code	Range	Graduation	Accuracy
2172-360A	0-360°	10"/0.005°	±5'



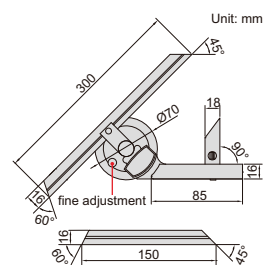
## UNIVERSAL PROTRACTOR



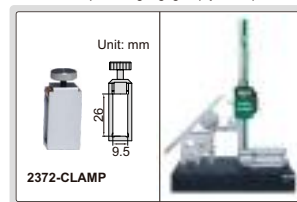
2372-360

- Parallax-free reading
- Made of stainless steel
- Optional accessory: clamp (code 2372-CLAMP), suitable for height gages 1156, 1351 and 1250

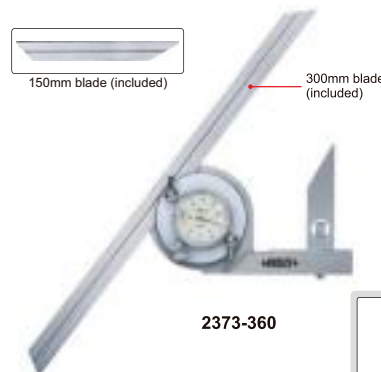
Code	Range	Graduation	Accuracy
2372-360	0-360°	5'	±5'



clamp for height gages (optional)



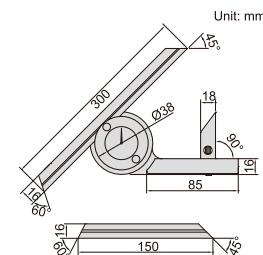
## DIAL PROTRACTOR



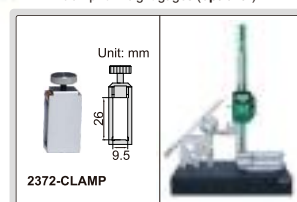
2373-360

- Made of stainless steel
- Optional accessory: clamp (code 2372-CLAMP), suitable for height gages 1156, 1351 and 1250

Code	Range	Graduation	Accuracy
2373-360	0-360°	5'	±5'



clamp for height gages (optional)

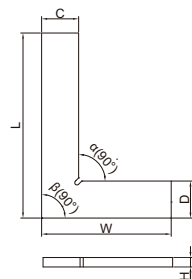


## 90° FLAT EDGE SQUARES



4791-100

- DIN875 grade 0
- Made of hardened stainless steel



Code	Size (LxW)	Squarness		C	D	H
		Inside (α)	Outside (β)			
4791-100	100x70mm	7μm	7μm	20	20	5
4791-150	150x100mm	7μm	8μm	30	30	6

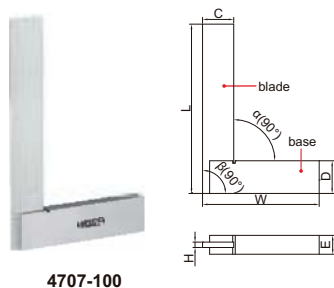
Sizes available up to 300x200mm

## MACHINIST SQUARES WITH WIDE BASE

**ATTENTION:**  
LOW ACCURACY

**ATTENTION:** NO ANTI-RUST  
TREATMENT, NOT HARDENED

- Economic model
- DIN875 grade 2
- Made of carbon steel, no anti-rust treatment, not hardened



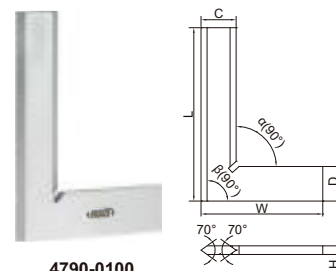
4707-100

Code	Size (LxW)	Squareness		C	D	H	E
		Inside (α)	Outside (β)				
4707-75	75x50mm	26μm	28μm	16	16	3	9
4707-100	100x70mm	28μm	30μm	19	19	3	12
4707-150	150x100mm	33μm	35μm	25	25	3	16
4707-200	200x130mm	37μm	40μm	30	32	4	16
4707-250	250x165mm	42μm	45μm	30	32	4	19
4707-300	300x200mm	47μm	50μm	32	32	4	19

Sizes available up to 1000x550mm

## 90° BEVELED EDGE SQUARES

- DIN875 grade 00
- Satin chrome plating
- Beveled edges for inside and outside measurement
- Made of hardened stainless steel



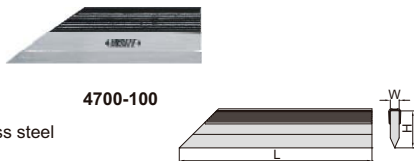
4790-0100

Code	Size (LxW)	Squareness		C	D	H
		Inside (α)	Outside (β)			
4790-050	50x40mm	2.4μm	2.5μm	13	13	4
4790-075	75x50mm	2.6μm	2.8μm	15	15	4
4790-0100	100x70mm	2.8μm	3.0μm	20	20	5
4790-0150	150x100mm	3.2μm	3.5μm	30	30	6
4790-0200	200x130mm	3.7μm	4.0μm	34	34	7

Sizes available up to 300x200mm

## STRAIGHT EDGE

- DIN874
- Beveled edge
- Made of hardened stainless steel
- Satin chrome plating

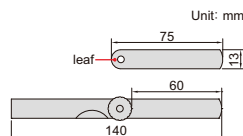


4700-100

Code	Size (L)	Straightness	W	H
4700-150	150mm	2.6μm	6mm	30mm

Sizes available up to 500mm

## FEELER GAGE



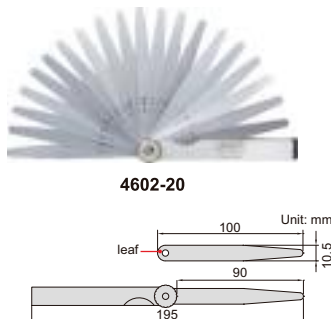
4601-25

- Made of hardened alloy steel
- Meet DIN2275
- Quantity of leaves: 25
- Accuracy:  $\pm(3+T/80)$  μm, 'T' is the thickness of leaves in μm

Code	Range	Thickness of leaves included (mm)
4601-25	0.04-1.00mm	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

## FEELER GAGES

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

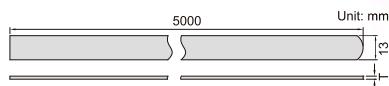


4602-20

Code	Range	Thickness of leaves included (mm)	Quantity of leaves
4602-13	0.05 - 1.00mm	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	13
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

## FEELER GAGE TAPES

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



4621-30

Code	Thickness (T)	Accuracy
4621-02	0.02mm	±4μm
4621-03	0.03mm	±4μm
4621-04	0.04mm	±4μm
4621-05	0.05mm	±4μm
4621-06	0.06mm	±4μm
4621-07	0.07mm	±5μm
4621-08	0.08mm	±5μm
4621-10	0.10mm	±5μm
4621-15	0.15mm	±6μm
4621-20	0.20mm	±8μm
4621-25	0.25mm	±9μm
4621-30	0.30mm	±9μm
4621-40	0.40mm	±12μm
4621-50	0.50mm	±14μm

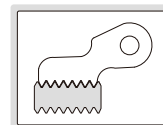
## PITCH GAGES

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



4820-124

ATTENTION:  
LOW ACCURACY



### 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

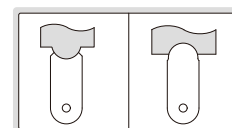
Code	Range	Pitch of leaves included	Quantity of leaves
4820-452	0.25-6mm	0.25, 0.3, 0.35, 0.4, 0.45, 0.5, 0.6, 0.7, 0.75, 0.8, 0.9, 1, 1.25, 1.5, 1.75, 2, 2.5, 3, 3.5, 4, 4.5, 5, 5.5, 6mm	52
	4-62TPI	4, 4-1/2, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 16, 18, 19, 20, 22, 24, 25, 26, 28, 30, 32, 36, 40, 48, 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 GAGES

ATTENTION:  
LOW ACCURACY



4801-17

- Made of medium carbon steel

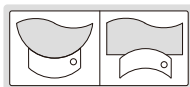
Code	Range	Radius of leaves included (mm)	Quantity of leaves (internal+external)	Accuracy
4801-17	1-7mm	1, 1.25, 1.5, 1.75, 2, 2.25, 2.5, 2.75, 3, 3.5, 4, 4.5, 5, 5.5, 6, 6.5, 7	17+17	$\pm 0.03\text{mm}$
4801-16	7.5-15mm	7.5, 8, 8.5, 9, 9.5, 10, 10.5, 11, 11.5, 12, 12.5, 13, 13.5, 14, 14.5, 15	16+16	$\pm 0.035\text{mm}$
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	$\pm 0.042\text{mm}$

## RADIUS GAGE

- Quantity of leaves: 31 pcs
- Accuracy:  $\pm 0.06\text{mm}$
- Made of stainless steel



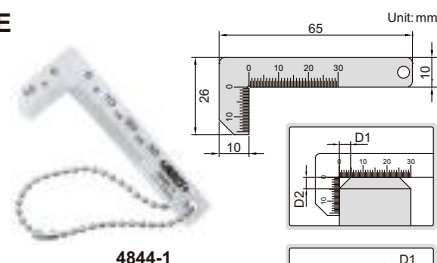
4802-31



Code	Range	Radius of leaves included (mm)
4802-31	25-40mm	25, 25.5, 26, 26.5, 27, 27.5, 28, 28.5, 29, 29.5, 30, 30.5, 31, 31.5, 32, 32.5, 33, 33.5, 34, 34.5, 35, 35.5, 36, 36.5, 37, 37.5, 38, 38.5, 39, 39.5, 40

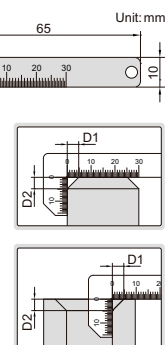
## CHAMFER GAGE

- To measure internal and external chamfers
- Made of stainless steel



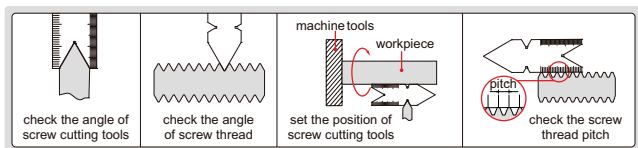
4844-1

Code	Graduation	Accuracy
4844-1	0.5mm	$\pm 0.25\text{mm}$



## CENTER GAGES

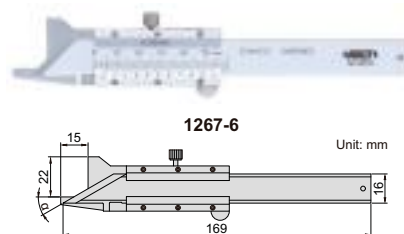
- To check and set screw cutting tools, and check the angle and pitch of screw thread
- Angle accuracy:  $\pm 30\text{min}$ .
- Made of stainless steel



Code	Thread type	Angle ( $\alpha$ )	Graduation
4810-601	METRIC 60°	60°	0.5mm and 1mm
4810-55	WHITWORTH 55°	55°	14ths and 20ths on front side, 24ths and 32ths on back side

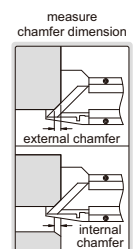
## CHAMFER GAGE

- Measure 45° chamfer dimension
- Made of stainless steel
- Satin chrome plated reading surface



1267-6

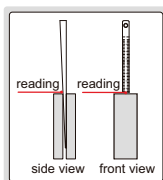
Code	Range	Accuracy	Graduation	Chamfer ( $\alpha$ )
1267-6	0-10mm	$\pm 0.06\text{mm}$	0.02mm	45°



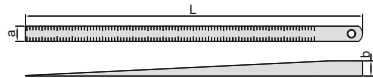
## TAPER GAGE



4630-1



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



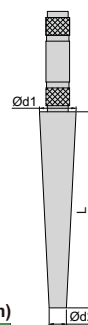
Code	Range	Graduation	Accuracy	L	a	b
4630-1	0.5-10mm	0.05mm	±0.07mm	220mm	10mm	10.5mm

## TAPER BORE GAGES

- Quick measurement of bore diameter
- Hardened steel, HRC50-58
- Satin chrome plated surface
- Aluminium oxidized handle

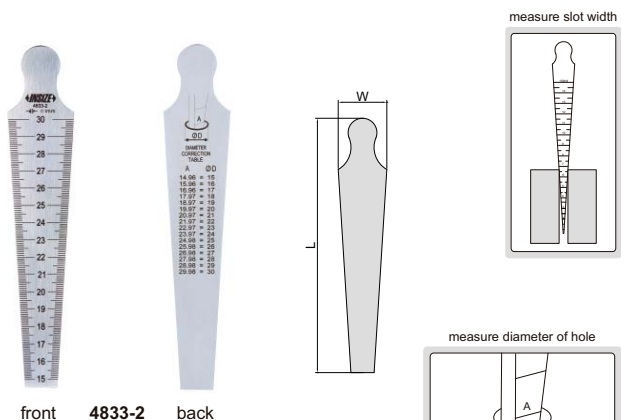


4852-15



Code	Range	Graduation	Accuracy	L	Ød1	Ød2
4852-1	1-6.5mm	0.1mm	±0.05mm	62.5	7	0.8
4852-3	3-16mm	0.1mm	±0.05mm	143	17	2.8
4852-15	15-30mm	0.1mm	±0.05mm	165	31	14.7

## TAPER GAGES



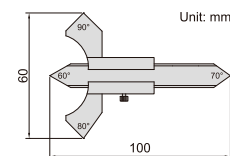
- Measure opening, slot width, hole diameter, etc.
- Diameter correction table on the back (only for 4833-1, 4833-2)
- Made of stainless steel

Code	Range	Graduation	Accuracy	L	W
4833-1	0.8-15mm	0.1mm	±0.1mm	146mm	17mm
4833-2	15-30mm	0.1mm	±0.1mm	159mm	30.4mm

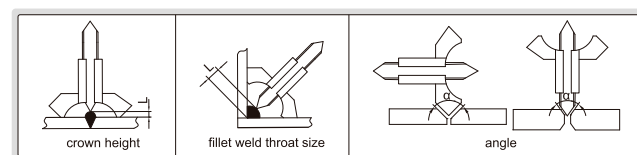
## WELDING GAGE



4830



- Made of stainless steel
- Stain chrome plated reading surface

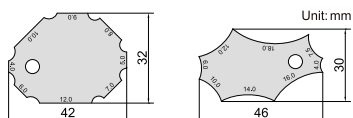
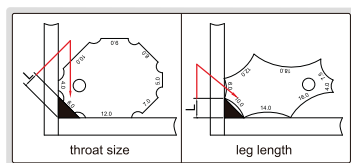


Code	Measurement	Range	Graduation	Accuracy
4830	crown height	0-8mm	0.1mm	±0.1mm
	fillet weld throat size	0-20mm	0.1mm	±0.3mm
	angle	60°, 70°, 80°, 90°	—	±1°

## FILLET WELDING GAGE



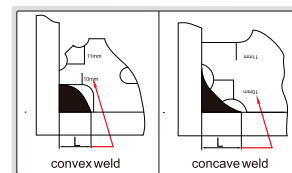
4832-1



- Made of stainless steel
- Sizes marked on both faces

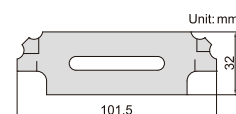
Code	Throat size (mm)	Leg length (mm)	Accuracy
4832-1	4, 5, 6, 7, 8, 9, 10, 12	4, 6, 7.5, 10, 12, 14, 16, 18	±0.5mm

## FILLET WELDING GAGE



4836-1

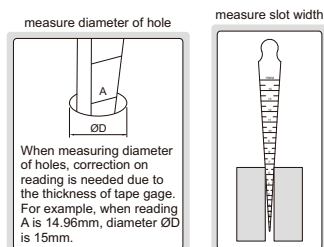
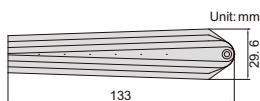
- Measure concave and convex weld sizes
- 7 blades are included
- Made of stainless steel



Code	Size (mm)	Accuracy
4836-1	3mm, 4mm, 5mm, 6mm, 8mm, 9mm, 10mm, 11mm, 12mm, 14mm, 16mm, 19mm, 22mm, 25mm	±0.5mm

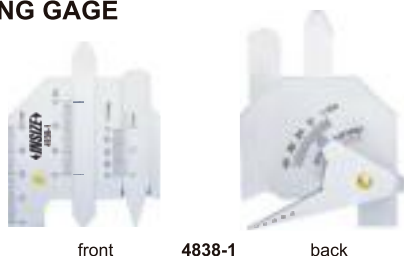
## TAPER GAGE SET

- Include 4 pcs (1-8mm, 8-15mm, 15-22mm, 22-29mm)
- Measure opening, slot width, hole diameter, etc.
- Diameter correction table on the back
- Made of stainless steel

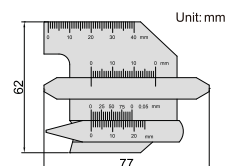


Code	Range	Graduation	Accuracy
4837-1	1-29mm	0.05mm	±0.05mm

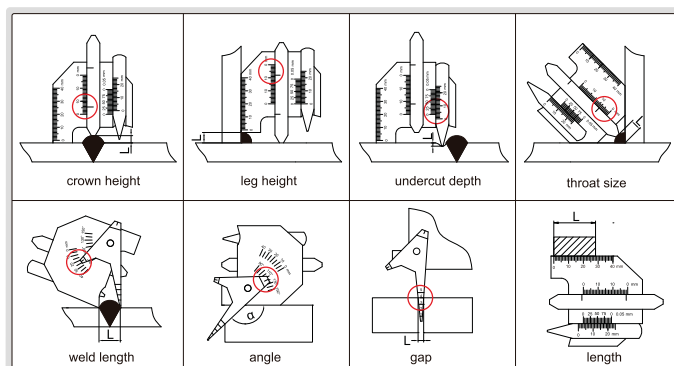
## WELDING GAGE



- Made of stainless steel



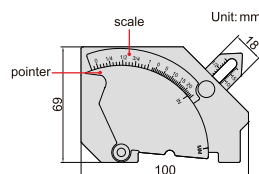
Code	Measurement	Range	Graduation	Accuracy
4838-1	crown height	0-10mm	1mm	±0.5mm
	leg height	0-14mm	1mm	±0.5mm
	undercut depth	0-5mm	0.05mm	±0.05mm
	throat size	0-13mm	1mm	±0.5mm
	weld length	0-40mm	1mm	±1mm
	angle	90°-150°	5°	±1°
	gap	0.5-5mm	1mm	±0.5mm
	length	0-40mm	1mm	±0.5mm



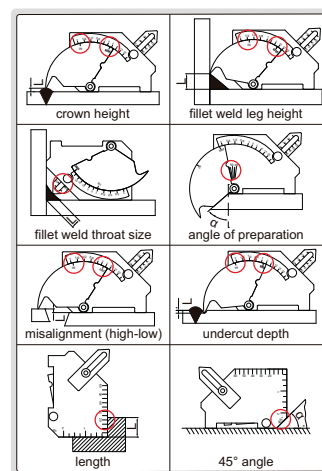
## WELDING GAGE



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°



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



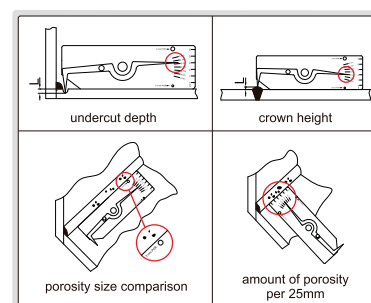
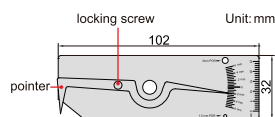
## WELDING GAGE

- Pointer can be locked for later reference
- Made of stainless steel

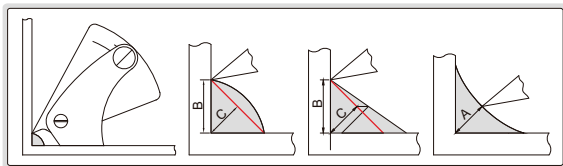


4834-1

Code	Measurement	Range	Graduation	Accuracy
4834-1	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	—

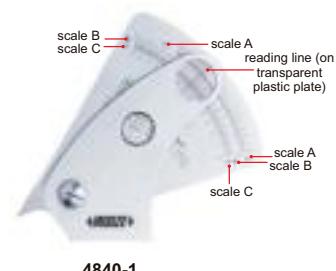
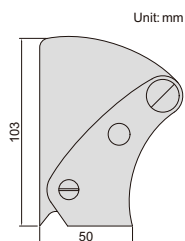


## WELDING GAGE



Code	Graduation	Accuracy
4840-1	0.2mm	±0.3mm

■ Made of stainless steel



4840-1

## PIPE WELDING GAGE

■ Made of stainless steel

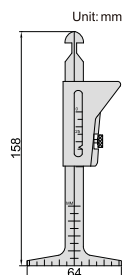


front

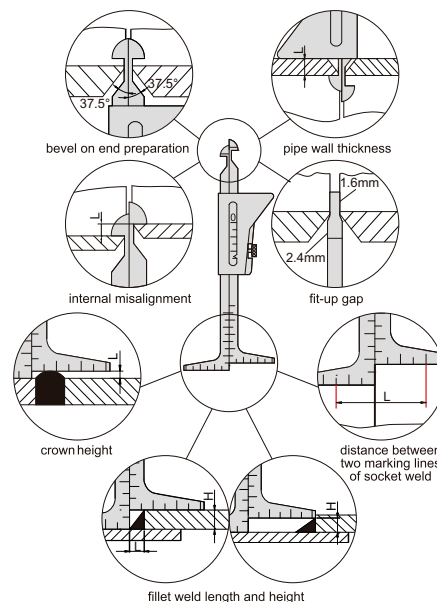
4839-1



back



Code	Measurement	Range	Graduation	Accuracy
4839-1	bevel on end preparation	37.5°	—	±1°
	pipe wall thickness	0-45mm (0-1-3/4")	1mm (1/16")	±0.5mm
	internal misalignment	0-35mm (0-1-3/8")	1mm (1/32")	±0.5mm
	fit-up gap	1.6mm, 2.4mm	—	±0.1mm
	crown height	0-35mm (0-1-3/8")	1mm (1/32")	±0.5mm
	distance between two marking lines of socket weld	0-60mm (0-2-3/8")	1mm (1/16")	±0.5mm
	fillet weld length	0-30mm (0-1-1/4")	1mm (1/16")	±0.5mm
	fillet weld height	0-35mm (0-1-3/8")	1mm (1/32")	±0.5mm



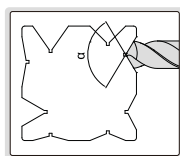
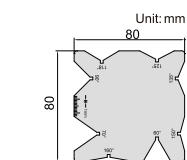
## DRILL ANGLE GAGE



4842-1

- Check drills with angle 60°, 70°, 90°, 118°, 125°, 135°, 150° or 160°
- Made of stainless steel

Code	Accuracy
4842-1	±0.5°



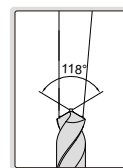
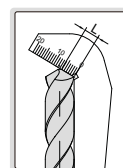
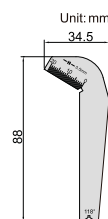
## DRILL POINT GAGE



4843-1

- For twist drills with 118° angle, to check if the center of tip is concentric with the drill body
- Made of stainless steel

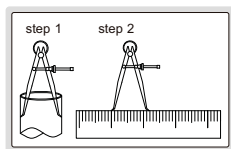
Code	Accuracy	
	Angle	Length
4843-1	±0.5°	±0.5mm



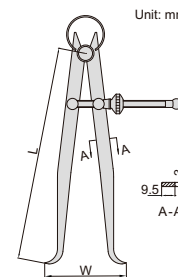
## INSIDE SPRING CALIPERS

■ Made of carbon steel

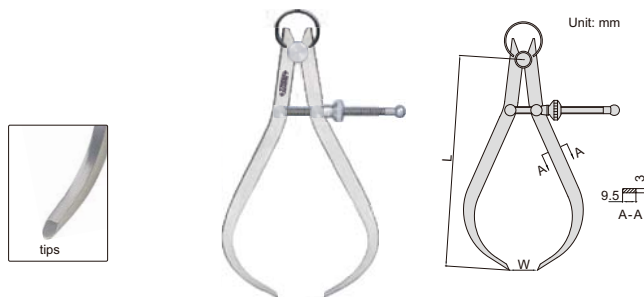
Code	Size (L)	Range (W)
7261-150	150mm	20 - 170mm
7261-200	200mm	22 - 220mm
7261-250	245mm	30 - 270mm
7261-300	300mm	30 - 320mm



7261-150



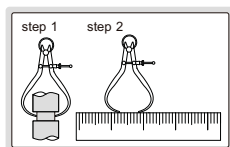
## OUTSIDE SPRING CALIPERS



- Made of carbon steel

7262-150

Code	Size (L)	Range (W)
7262-150	155mm	0-140mm
7262-200	210mm	0-210mm
7262-250	265mm	0-270mm
7262-300	310mm	0-320mm



## SPRING DIVIDERS

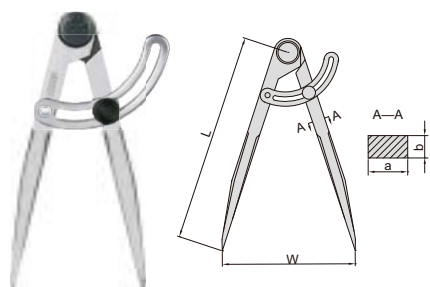
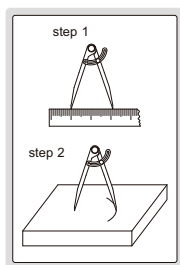


7260-150

Code	Size (L)	Range (W)
7260-150	150mm	0-150mm
7260-200	200mm	0-210mm
7260-250	245mm	0-260mm
7260-300	300mm	0-320mm

- Made of carbon steel
- Hardened points

## DIVIDERS



7247-150

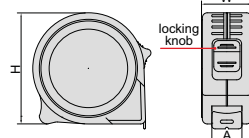
- Made of carbon steel
- Hardened points

Code	Size (L)	Range (W)	a	b
7247-150	150mm	0-140mm	8.5	7
7247-200	200mm	0-190mm	10	7
7247-300	300mm	0-290mm	12	7

## MEASURING TAPES



7140-5

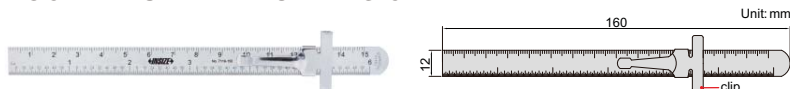


packaging



Code	Range	Graduation	Width of tape A	W	H
7140-3	0-3m	1mm	16mm	28	62
7140-5	0-5m	1mm	19mm	30	68
7140-8	0-8m	1mm	25mm	38	78

## POCKET RULE WITH SLIDING CLIP



7119-150

- With sliding clip, clip also can be used as depth gage base
- Inch/metric conversion table on the back
- Made of stainless steel

Code	Range	Graduation	Accuracy
7119-150	150mm/6"	1mm, 1/64"	±0.15mm

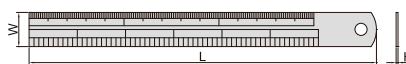
## STEEL RULES



7110-300

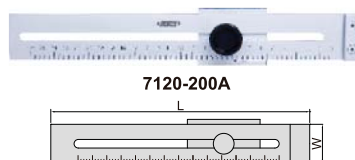
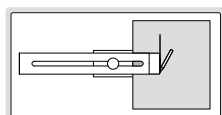
- Graduation: 0.5mm, 1mm, 1/64", 1/32", 1/16"
- Semi-flexible rules
- Made of stainless steel
- Non-glare surface

ATTENTION:  
BASIC MODEL



Code	Range	Accuracy	L	W	H	Remark
7110-150	150mm/6"	±0.15mm	170	18	1.0	graduation on front and back
7110-300	300mm/12"	±0.15mm	330	25	1.0	graduation on front and back
7110-3001	300mm/12"	±0.15mm	325	30	1.0	graduation on front and back
7110-500	500mm/20"	±0.15mm	530	30	1.2	graduation on front and back
7110-600	600mm/24"	±0.20mm	630	30	1.2	graduation on front and back
7110-1000	1000mm/40"	±0.20mm	1040	32	1.5	graduation on front and back

## MARKING GAGES



7120-200A

- Made of stainless steel
- Satin chrome finish

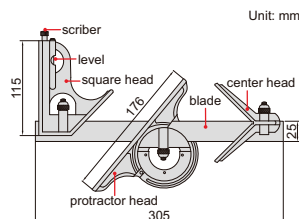
Code	Range	Graduation	Accuracy	L	W
7120-200A	0-200mm	0.1mm	±0.1mm	250	40
7120-250A	0-250mm	0.1mm	±0.1mm	300	40
7120-300A	0-300mm	0.1mm	±0.1mm	350	40

## COMBINATION SQUARE SET

- Center head (made of cast iron):  
To locate center of cylinder with diameter (Ød): 30-100mm  
Accuracy:  $\pm 0.15\text{mm}$
- Protractor head (made of cast iron):  
To set the blade at desired angle to an edge of a workpiece, and can be used to measure angles  
Range: 0-180°, accuracy:  $\pm 7\text{min}$ .
- Square head (made of cast iron):  
To set the blade at 90° or 45° to an edge of a workpiece  
Accuracy:  $\pm 8\text{min}$  for 90° square,  $\pm 10\text{min}$  for 45° square
- Blade (made of stainless steel):  
Range: 300mm/12",  
Graduation: 0.5mm and 1/32" on front face, 1mm and 1/64" on back face
- Optional accessory:  
rigid rule (code 7113)

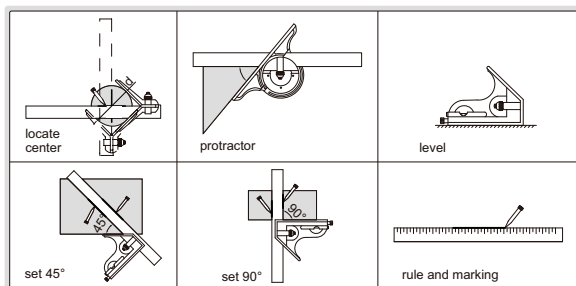


2278-180



Unit: mm

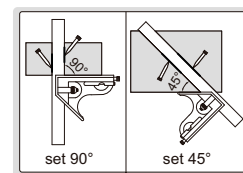
Code	Remark
2278-180	4-piece set



## LIGHT DUTY COMBINATION SQUARE



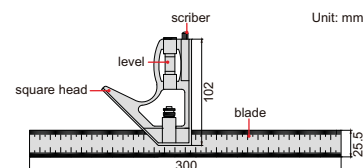
2276-300



- Square head (made of zinc):  
To set the blade at 90° or 45° to an edge of a workpiece  
Accuracy:  $\pm 0.5^\circ$
- Blade (made of stainless steel):  
Range: 300mm,  
Graduation: 0.5mm and 1mm on front and back sides

### Code

2276-300



Unit: mm

## SCRIBER CALIPER

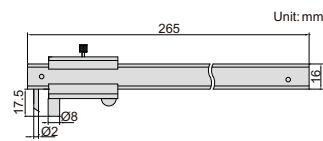


7202-200A

The position of scriber tip can be adjusted

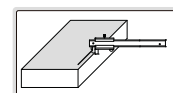


- Graduation: 0.1mm, 1/128"
- Made of stainless steel
- Satin chrome plated reading surface
- Carbide scriber tip
- Optional accessory:  
carbide scriber tip (code SP-SCRIBER-7202)

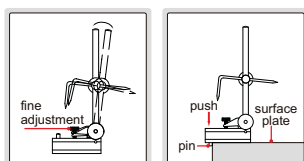


Unit: mm

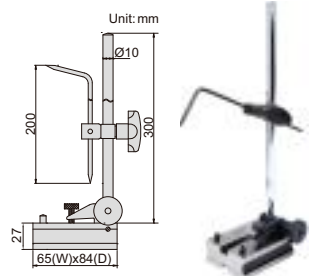
Code	Range	Accuracy
7202-200A	0-200mm/0-8"	$\pm 0.1\text{mm}$



## HEIGHT SCRIBER



- Grooved bottom for cylinder
- Two pins to be set against the edge of surface plate



6990-300A

### Code

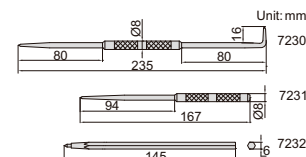
6990-300A

## SCRIBERS



- Nickel plated

Code	Tip
7230	hardened tips
7231	hardened tip
7232	carbide tip



Unit: mm

## GRANITE SURFACE PLATES



CUSTOM-MADE  
SUPPLY SPECIAL SIZES ACCORDING  
TO CUSTOMER'S REQUEST

### Grade 0

Code	Size (LxWxH)	Flatness	Weight (Kg)	Max. load (Kg)
6900-032*	300x200x60mm	5.4µm	11	60
6900-042*	400x250x60mm	5.9µm	18	100
6900-044*	400x400x60mm	6.3µm	29	120
6900-064*	630x400x80mm	7.0µm	60	130

\*Supplied with manufacturer inspection certificate



6900-132



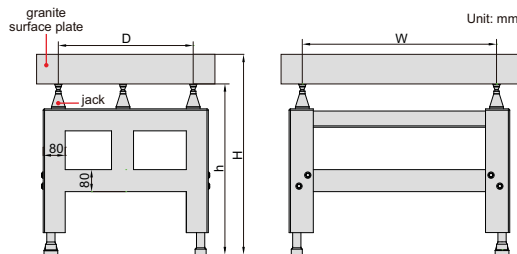
INSPECTION  
CERTIFICATE

- 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
- Optional accessory: stand for granite surface plate (code 6902), jack for granite surface plate (code 6903)

## STANDS FOR GRANITE SURFACE PLATE



- For medium size granite surface plates
- 5 jacks are included
- Adjusting range of jacks: 25mm
- One foot on the bottom is adjustable

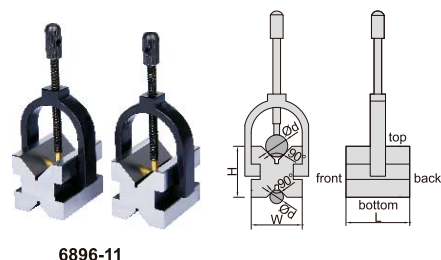


(mm)

6902-64H

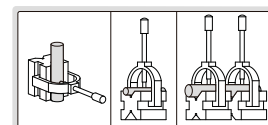
Code	For granite surface plate	W	D	H (with granite surface plate)	h (without granite surface plate)
6902-64H	630x400x80mm (code 6900-064 and 6900-164)	352	224	1000-1025	920-945

## V-BLOCK SETS



6896-11

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



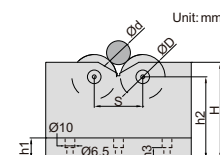
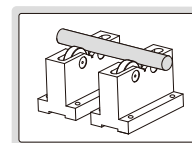
Code	Size (LxWxH)	Range of shafts (Ød)	Parallelism of both V grooves to top and bottom sides
6896-11	50x40x40mm	5-30mm	5µm
6896-12	80x63x63mm	7-63mm	5µm
6896-13	100x80x80mm	7-80mm	5µm

## ROLLER BEARING V-BLOCK SET

- Runout accuracy: 5µm
- Parallelism of bearings to bottom: 12µm
- Two V-blocks per set
- Workpieces don't get damaged due to bearings
- Suitable for heavy workpieces

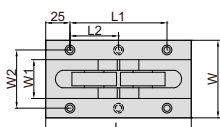


6888-1



Code	Size (LxWxH)	Code of bearings	Diameter of bearings (ØD)	Range of shafts (Ød)	Load capacity
6888-1	150x60x100mm	6303 ZZ	42mm	25-70mm	500kg

Code	W1	W2	h1	h2	h3	L1	L2	S
6888-1	22	44	20	85	12	100	-	60
6888-2	40	60	22	85	12	100	-	50
6888-3	60	80	30	124	20	180	90	120

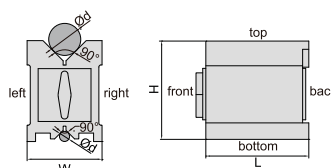


## MAGNETIC V-BLOCK

- Hardened, high accuracy, strong magnetic force, for grinding, light milling, drilling and inspection of round and square jobs
- Suitable for cast iron surface plates and granite surface plates
- V groove on the top for large shafts
- V groove on the bottom for small shafts
- All working surfaces are hardened to HRC60±2
- Magnetic force on top, bottom and two V grooves



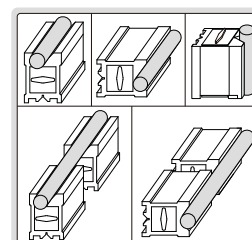
6889-1



STRONG  
MAGNETIC FORCE

HIGH  
PRECISION

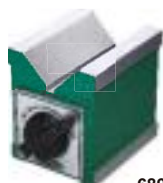
HARDENED  
SURFACES



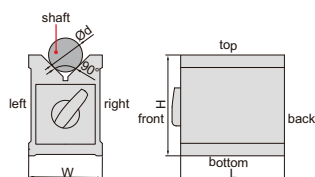
Matched pair

Code	Size (LxWxH)	Range of shafts (Ød)	Magnetic force	Parallelism of V grooves to top, bottom, left, right sides	Squareness of V grooves to back side	Height difference of a matched pair
6889-1	75x56x75mm	5-40mm	75kgf	5µm	5µm	5µm

## MAGNETIC V-BLOCK



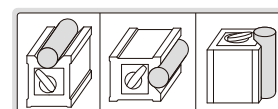
6890-702



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

ATTENTION: NOT SUITABLE  
FOR STEEL OR IRON SURFACE

ATTENTION:  
NOT HARDENED



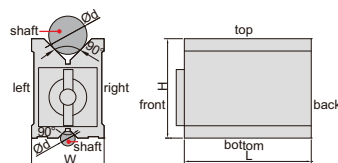
Code	Size (LxWxH)	Range of shafts (Ød)	Magnetic force
6890-702	70x60x73mm	6-44mm	56kgf

## MAGNETIC V-BLOCK

- 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 steel or iron surface

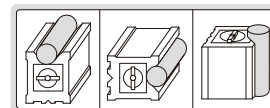


6801-1202



**ATTENTION: NOT SUITABLE FOR STEEL OR IRON SURFACE**

**ATTENTION: NOT HARDENED**

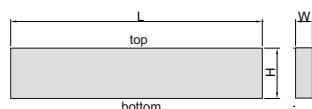


Code	Size (LxWxH)	Range of shafts (Ød)	Magnetic force	Parallelism of V grooves to top, bottom, left, right sides	Squareness of V grooves to back side
6801-1202	100x70x95mm	6-67mm	80kgf	10µm	10µm

## PARALLEL SET



6533-144



- Parallelism between top and bottom: 5µm
- Height difference of a matched pair: 5µm
- Hardened to HRC55-60
- Made of alloy tool steel

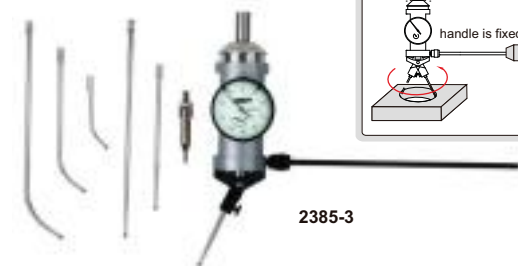
(mm)

Code	Parallels per set	Length (L)	Thickness (W)	Height (H)
6533-144	14 pairs	150	10	14, 16, 18, 20, 22, 24, 26, 28, 30, 32, 35, 40, 45, 50

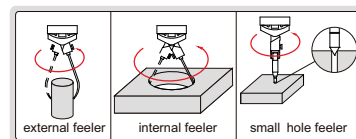
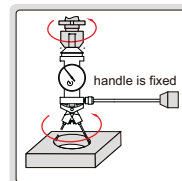
## CENTERING INDICATOR



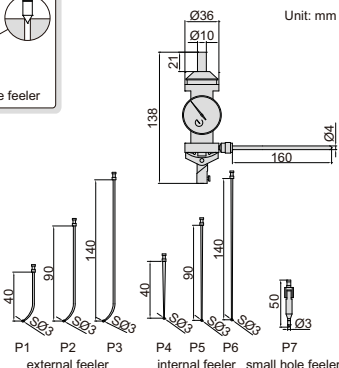
VIDEO



2385-3



Feeler	Measuring diameter	Accuracy
P1	Ø0-60mm	±0.04mm
P2	Ø0-160mm	±0.06mm
P3	Ø0-250mm	±0.08mm
P4	Ø3.2-80mm	±0.04mm
P5	Ø3.2-180mm	±0.06mm
P6	Ø3.2-280mm	±0.08mm
P7	Ø0-2.8mm	±0.04mm



Unit: mm

Code

2385-3

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

## DIAL TEST INDICATOR CENTERING HOLDER



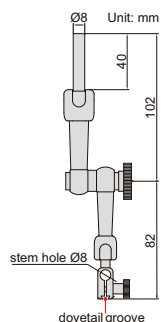
- Center cylinders or holes on machine tools
- Can be used with dial test indicators

Code

6295-1A

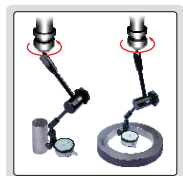


6295-1A



Unit: mm

## INDICATOR CENTERING HOLDER



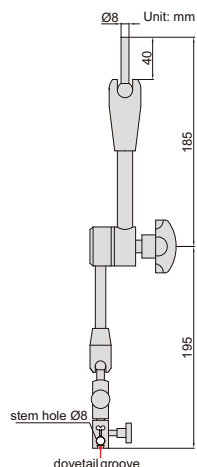
- Center cylinders or holes on machine tools
- Can be used with dial test indicators or dial indicators

Code

6294-1A

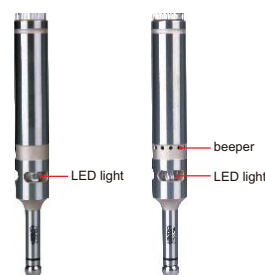


6294-1A



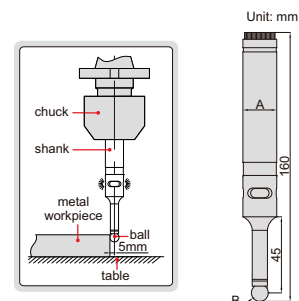
Unit: mm

## ELECTRONIC EDGE FINDERS



6566-2

6566-3



Unit: mm

- Accuracy: 5µm
- The shank is electrically conducted to the metal workpiece through the chuck and table, the LED lights up and the beeper sounds (only for 6566-3), when the ball touches the workpiece
- Not suitable for rotary use
- Hardened shank and contact ball

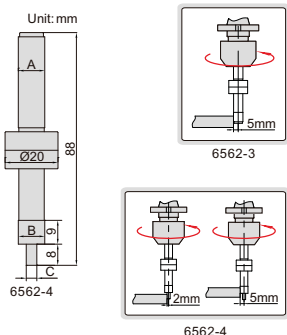
Code	Shank (A)	Contact ball (B)	Beeper	Battery
6566-2	Ø20mm	SØ10mm	without	23AE, 12Vx1pc
6566-3	Ø20mm	SØ10mm	with	23AE, 12Vx1pc

## EDGE FINDERS

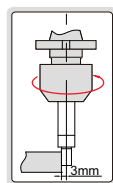


- Hardened shank and contact point

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

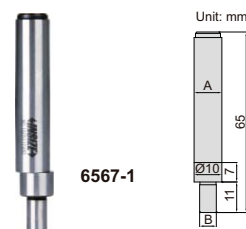


## EDGE FINDER



- Hardened shank and contact point

Code	Shank (A)	Contact point (B)	Accuracy
6567-1	Ø10mm	Ø6mm	8µm

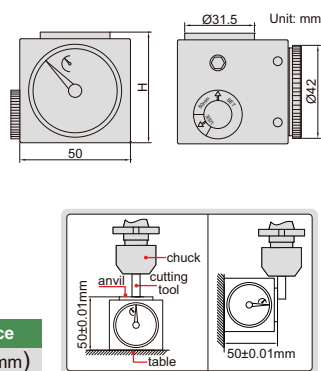


## ZERO SETTER



- Magnetic base
- Accuracy: ±10µm

Code	Height (H)	Test force
2397-502A	50mm	9N (at 50mm)



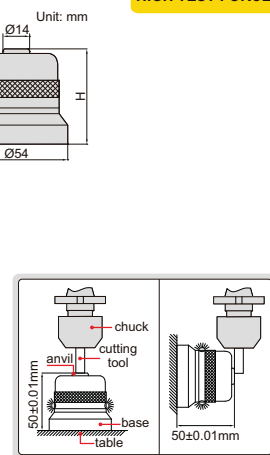
## ELECTRONIC ZERO SETTER



6550-50A

- Accuracy: ±10µm
- 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

Code	Height (H)	Test force
6550-50A	50mm	27N (at 49mm)

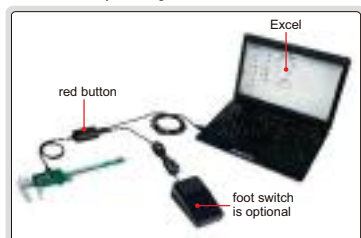


ATTENTION:  
HIGH TEST FORCE

## DATA OUTPUT CABLES (KEYBOARD FORMAT)

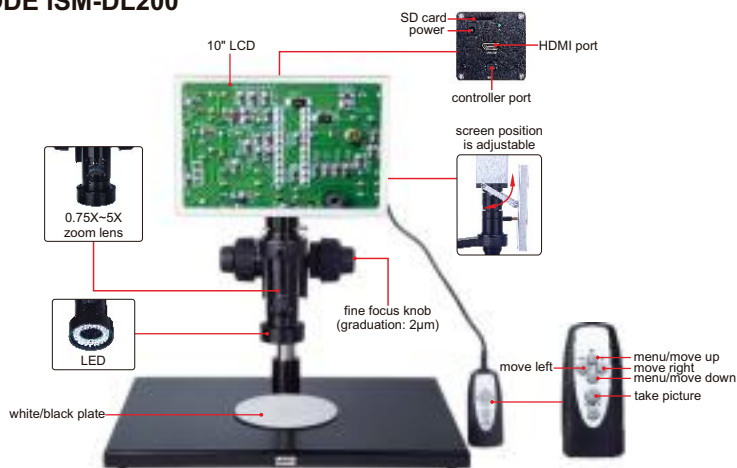


Without software, data can be input as keyboard signal to Excel, Word, etc.



Code	Description	Plug to product	Socket on product	Plug to computer	Applicable products
7302-SPC5A	cable for digital calipers (length 2.5m)				digital calipers
7302-SPC5B					digital height gages
7302-SPC4	cable for 1103 (length 2.5m)				digital depth gages
7302-SPC6	cable for digital micrometers (length 2.5m)				digital calipers
7302-SPC3A	cable for digital indicators (length 2.5m)				digital micrometers
7304-2	foot switch with cable (length 1.5m)				digital three points internal micrometers
7302-HUB	HUB converter (length 0.3m, four USB ports to computer)				digital indicators
					digital protractors

## DIGITAL MICROSCOPE (WITH DISPLAY) CODE ISM-DL200



TAKE PICTURES



- Take pictures, saved to memory card
- Automatic white balance and exposure
- Brightness, contrast ratio, gain are adjustable

### SPECIFICATION

Magnification	18X~112X
Sensor	1/3" CMOS
Pixel	1.3M
Resolution	1280×800
Frame rate	60fps
Output	HDMI
Power supply	power adapter
Dimension (L×W×H)	400×300×430mm
Weight	6kg

### STANDARD DELIVERY

Main unit	1 pc
0.5X camera adapter	1 pc
1X auxiliary objective	1 pc
4G memory card and holder	1 pc
White/black plate	1 pc
HDMI cable	1 pc
Power adapter	1 pc

### OPTIONAL ACCESSORY

1X camera adapter	ISM-DL-CA1X
2X auxiliary objective	ISM-DL-OB2X
X-Y glass stage (travel: 74×60mm)	ISM-DL-STAGE

### MAGNIFICATION, FOCUS DISTANCE AND VIEW FIELD

Auxiliary Objective	Specification	Camera adapter	
		0.5X (included)	1X (optional)
1X (included)	Magnification	18~112X	36~224X
	Focus distance	70±2mm	70±2mm
	View filed	12.8×8.4~2×1.3mm	6.3×4.3~1×0.65mm
2X (optional)	Magnification	36~224X	72~448X
	Focus distance	29±2mm	29±2mm
	View field	6.3×4.3~1×0.65mm	3.3×2~0.51×0.38mm

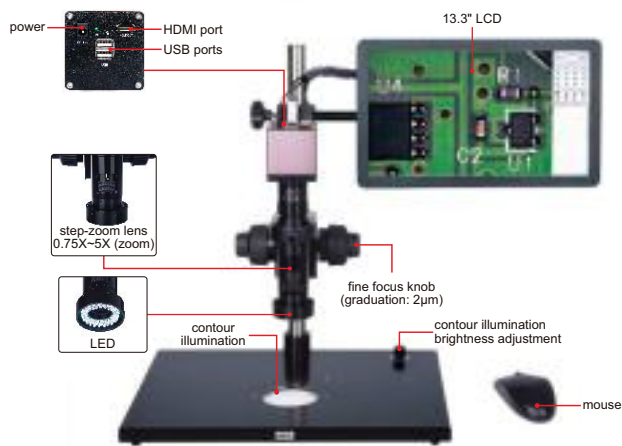
## DIGITAL MEASURING MICROSCOPE (WITH DISPLAY)

TAKE PICTURES

MEASUREMENT

BUILT-IN SOFTWARE  
WITHOUT COMPUTER

- 1080P high-definition image
- Built-in software without computer, operation by mouse
- Take pictures, saved to USB flash disk
- Measurement results can be output to Excel
- Automatic white balance and exposure
- Brightness, contrast ratio, gain are adjustable



ISM-DL301 (with contour illumination)

To be continued

Continued from previous page



1X camera adapter  
(optional)



2X auxiliary objective  
(optional)



16G USB flash disk  
(included)



calibration plate  
(included)



1X auxiliary objective  
(included)



0.5X camera adapter  
(included)

## SPECIFICATION

Code	ISM-DL301** (with contour illumination)
Magnification	15X~100X
Sensor	1/2" CMOS
Pixel	2M
Resolution	1920×1080
Frame rate	60fps
Output	HDMI
Power supply	power adapter and 220V, 50/60Hz**
Dimension (L×W×H)	570×300×430mm
Weight	6.5kg

\*\* Add "U" on code No. when power supply is 110V, 50/60Hz

## STANDARD DELIVERY

Main unit	1 pc
0.5X camera adapter	1 pc
1X auxiliary objective	1 pc
Calibration plate	1 pc
16G USB flash disk	1 pc
White/black plate	1 pc
Mouse	1 pc
HDMI cable	1 pc
Power adapter	2 pcs

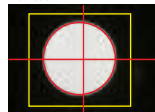
## SOFTWARE

- Language: English
- Output to Excel
- Edge-detection:

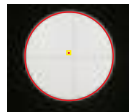
Point tool



Box tool



Click tool



### ■ Measurement tools:

- measure length of line or distance between two points
- measure angle from horizontal line
- measure distance between two parallel lines
- measure distance between point and line
- measure radius, diameter, girth and area of circle with three points
- measure minimum distance between point and circle
- measure minimum distance between line and circle
- measure minimum distance between two circles
- add text

- measure length of line or distance between two points in horizontal direction
- measure angle from vertical line
- measure distance between three parallel lines
- measure radius, length and angle of arc
- measure radius, diameter, girth and area concentric of circles
- measure distance between point and center of circle
- measure distance between line and center of circle
- measure center distance between two circles
- measure radius, diameter, girth and area of circle with two points

- measure length of line or distance between two points in vertical direction
- measure angle of two lines
- measure distance between multiple parallel lines
- measure girth and area of polygon
- measure length, width, girth and area of rectangle
- measure maximum distance between point and circle
- measure maximum distance between line and circle
- measure maximum distance between two circles
- cross hair

## MEASURING ACCURACY

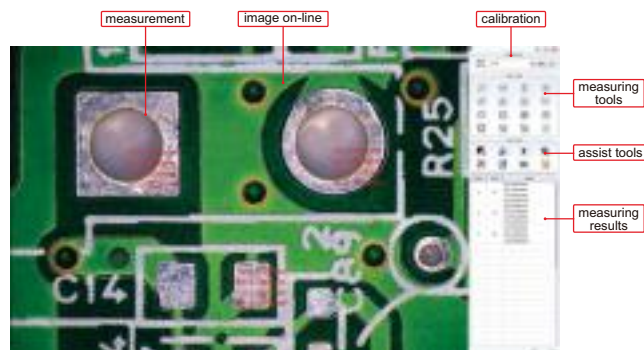
Magnification	Measuring accuracy
15X	±8μm
30X	±6μm
50X	±6μm
80X	±4μm
100X	±4μm
>100X	±4μm

## MAGNIFICATION, FOCUS DISTANCE AND VIEW FIELD

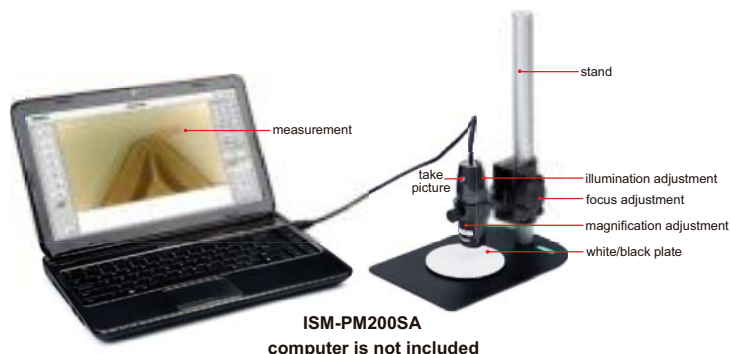
Auxiliary Objective	Specification	Camera adapter	
		0.5X (included)	1X (optional)
1X (included)	Magnification	15~100X	30~200X
	Focus distance	70±2mm	70±2mm
	View filed	16×11~2.5×1.6mm	7.8×5.3~1.2×0.8mm
2X (optional)	Magnification	30~200X	60~400X
	Focus distance	29±2mm	29±2mm
	View field	7.8×5.3~1.2×0.8mm	3.8×2.7~0.6×0.4mm

## OPTIONAL ACCESSORY

1X camera adapter	ISM-DL-CA1X
2X auxiliary objective	ISM-DL-OB2X
X-Y glass stage (travel: 74×60mm)	ISM-DL-STAGE



## DIGITAL MEASURING MICROSCOPES



- Can take pictures and videos
- Supplied with software

**ISM-PM200SA**  
computer is not included



universal stand (included in ISM-PM200SB)



### SPECIFICATION

Code	ISM-PM200SA	ISM-PM200SB
Magnification	10X~200X	
Focus distance	short focus distance	
Stand	standard	universal
Focus support	included	
Calibration rule	graduation 0.1 and 1mm	
Pixel	2M (resolution: 1600×1200)	
Illumination	built-in adjustable LED	
Power supply	USB 2.0 cable (voltage required: 5±0.1V)	

### MAGNIFICATION, FOCUS DISTANCE, VIEW FIELD AND ACCURACY

Magnification	Focus distance	View field	Accuracy
50X	21mm	8.1×6.4mm	30μm
100X	13mm	3.9×3.1mm	15μm
150X	16mm	2.6×2.1mm	10μm
200X	19mm	1.8×1.5mm	8μm



software CD (included)



filter (optional)

### OPTIONAL ACCESSORY

Green filter	ISM-PM-GREEN
Yellow filter	ISM-PM-YELLOW
Blue filter	ISM-PM-BLUE

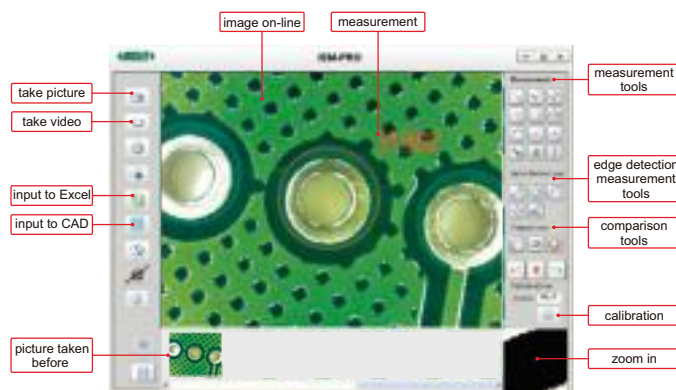
### SOFTWARE

- **Language:** English, Japanese, Korean, German, Turkey, Portuguese, Chinese
- **Operation system:** Windows 7/8/XP/Vista
- **Measurement tools:**

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

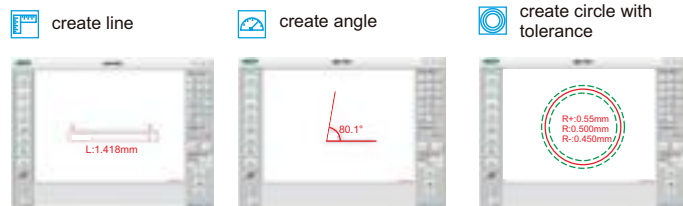
#### ■ Edge detection measurement tools:

- ☐ detect line automatically, and calculate length
- ☐ detect arc automatically, and calculate radius, angle and arc length
- ☐ detect two lines automatically, and calculate angle
- ☐ detect circle automatically, and calculate radius, girth and area
- ☐ detect two parallel lines automatically, and calculate distance

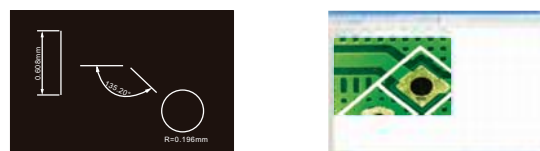


#### ■ Comparison tools:

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



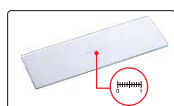
#### ■ Data export to CAD or Excel:



## WiFi DIGITAL MEASURING MICROSCOPE CODE ISM-WF200



plastic calibration rule  
(graduation 1mm, included)



glass calibration rule  
(graduation 0.1mm, included)



software CD  
(included)

- Maximum working distance is 5m under WiFi mode
- Can be connected to multiple iPads, Android devices or computers at the same time under WiFi mode
- Take pictures and videos
- Supplied with software

### SPECIFICATION

Magnification	10X~200X
Pixel	1.3M (resolution: 1280x1024)
Illumination	built-in adjustable LED
Power supply	built-in rechargeable battery

### STANDARD DELIVERY

Microscope	1 pc
Base support	1 pc
Focus support ring for 80X/150X	1 pc
Focus support ring for 60X/200X	1 pc
Glass calibration rule (graduation 0.1mm)	1 pc
Plastic calibration rule (graduation 1mm)	1 pc
USB cable and software	1 pc
AC/DC adapter	1 pc

### OPTIONAL ACCESSORY

Stand	ISM-PM-STAND
Green filter	ISM-PM-GREEN
Yellow filter	ISM-PM-YELLOW
Blue filter	ISM-PM-BLUE



stand (code  
ISM-PM-STAND, optional)



filter (optional)



connected to iPad  
by WiFi



connected to Android  
device by WiFi



connected to computer by WiFi

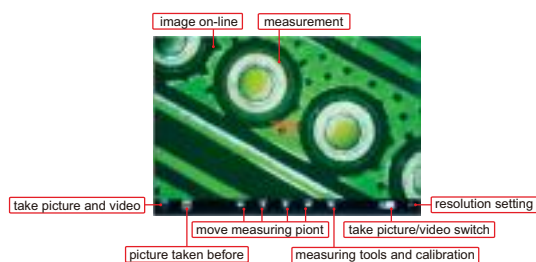


connected to computer by USB cable

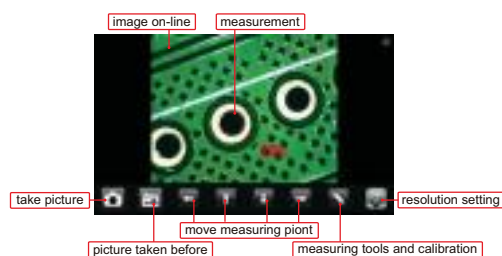
### MAGNIFICATION, FOCUS DISTANCE, VIEW FIELD AND ACCURACY

Magnification	Focus distance	View field	Accuracy
50X	21mm	8.1×6.4mm	30μm
100X	13mm	3.9×3.1mm	15μm
150X	16mm	2.6×2.1mm	10μm
200X	19mm	1.8×1.5mm	8μm

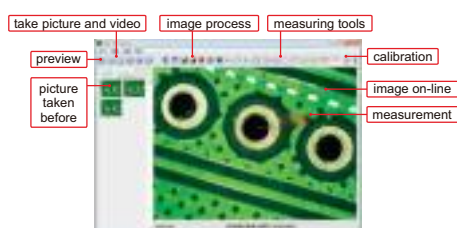
### 1 Software ISM-PAD (for iPad by WiFi)



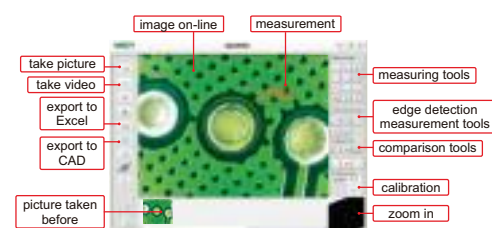
### 2 Software ISM-APK (for Android devices by WiFi)



### 3 Software ISM-WF Partner (for computer by WiFi)



### 4 Software ISM-PRO (for computer by USB cable)



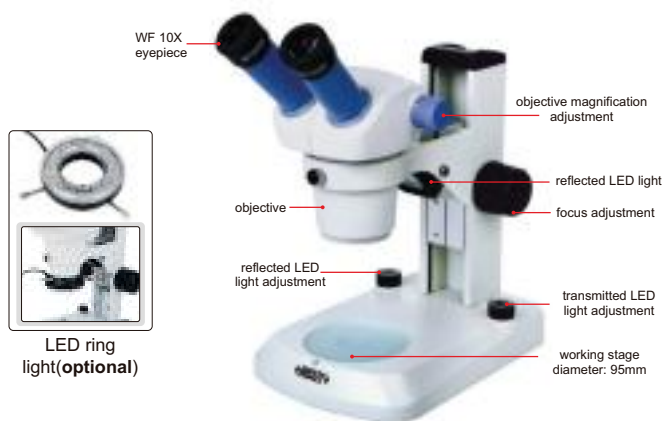
## ZOOM STEREO MICROSCOPE CODE ISM-ZS30

### SPECIFICATION

Optical tube	binocular
Eyeiece (wide field)	10X (view field: Ø20mm)
Objective	1X~4.5X (zoom)
Zoom ratio	1:4.5
Pupil distance	55~75mm (adjustable)
Diopter adjustment	±5 diopter (two eyepieces)
Working distance of objective	97mm
Max. workpiece height	147mm
Illumination	adjustable reflected and transmitted LED light
Power supply	110/220V, 50/60Hz
Dimension (L×W×H)	260×190×400mm
Weight	4.3kg

### STANDARD DELIVERY

Main unit	1 pc
WF 10X eyepiece	2 pcs
Ø95mm glass plate	1 pc
Ø95mm white/black plate	1 pc
Anti-dust cover	1 pc



### OPTIONAL ACCESSORY

Auxiliary objective	0.5X	ISM-ZS30-OB05X
	0.63X	ISM-ZS30-OB06X
	0.75X	ISM-ZS30-OB07X
	2X	ISM-ZS30-OB2X
Eyepiece	10X dividing eyepiece (graduation 0.1mm/div.)	ISM-ZS30-EPD10X
	WF15X (view field: Ø16mm)	ISM-ZS50-EP15X
	WF20X (view field: Ø12mm)	ISM-ZS50-EP20X
Digital camera		ISM-D500
LED ring light		ISM-ZS-RL

## ROUGHNESS TESTER CODE ISR-C002

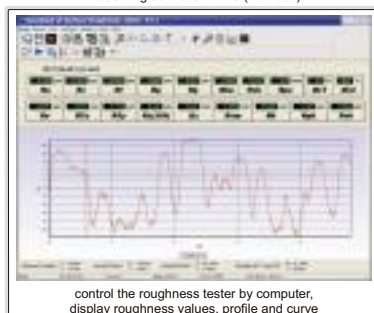
- 21 roughness parameters
- Connected with printer via bluetooth
- Display roughness values, profile and curve
- Memory of maximum 100 results
- Automatic power off

CAN BE CONTROLLED  
BY COMPUTER

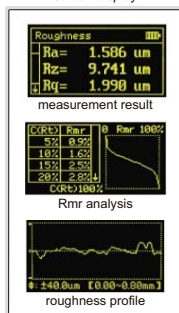


DATA  
OUTPUT

measuring software for PC (included)



screen display



light duty test stand (optional)



heavy duty test stand (optional)



adjustable stand (included)



probe cover (included)



software CD (included)



wireless printer (optional)



Unit: mm

### SPECIFICATION

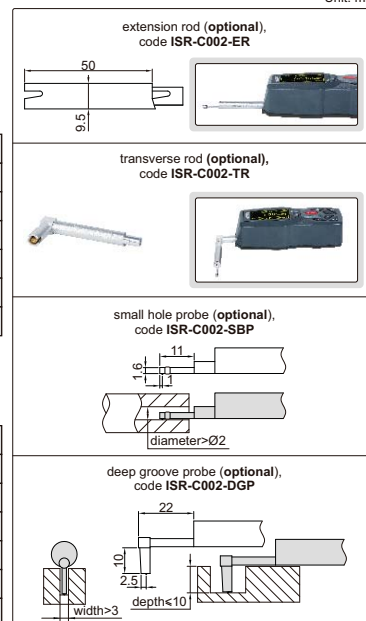
Parameters		Ra, Rz, Rq, Rv, Rp, RS, R3z, R3y, Rt, Rz (JIS), Rk, Rku, Rsm, Rpc, Rpk, Rvk, Rsk, Mr1, Mr2, Ry (JIS), Rmax
Range		160μm
Accuracy		±10%
Resolution (Ra)		0.001μm
Probe	type	inductive
	stylus radius/angle	5μm/90°
	stylus material	diamond
Measuring force		4mN
Measuring unit		μm/μin
Cut off		0.25/0.8/2.5mm
Number of cut-offs		1 to 5
Traverse speed		0.5mm/s, 1mm/s
Memory		100 measurement results
Output		USB and bluetooth
Power		built-in rechargeable battery
Dimension (L×W×H)		141×55×40mm
Weight		400g

### STANDARD DELIVERY

Main unit	1 pc
Standard probe	1 pc
Calibration block and support	1 pc of each
Adjustable stand	1 pc
Probe cover	1 pc
USB cable and software for PC	1 pc
AC/DC adapter	1 pc

### OPTIONAL ACCESSORY

Extension rod	ISR-C002-ER
Transverse rod	ISR-C002-TR
Deep groove probe	ISR-C002-DGP
Small hole probe	ISR-C002-SBP
Light duty test stand	ISR-C002-STAND1
Heavy duty test stand	ISR-C002-STAND
Wireless printer	ISR-C002-PRINTER



## ROUGHNESS TESTER CODE ISR-C003



calibration block  
(included)



VIDEO



### STANDARD DELIVERY

Main unit	1 pc
Calibration block	1 pc
AC/DC adapter	1 pc

- Unit:  $\mu\text{m}$ ,  $\mu\text{in}$
- Automatic power off

### SPECIFICATION

Parameters	Ra, Rz, Rq, Rt
Range	Ra, Rq: 0.05~15 $\mu\text{m}$ Rz, Rt: 0.1~50 $\mu\text{m}$
Accuracy	$\pm 10\%$
Resolution (Ra)	0.01 $\mu\text{m}$
Probe	type: piezoelectric stylus radius/angle: 10 $\mu\text{m}/90^\circ$ stylus material: diamond
Measuring force	5mN
Measuring unit	$\mu\text{m}/\mu\text{in}$
Cut off	0.25/0.8/2.5mm
Evaluation length	1.25mm for cut off 0.25mm 4mm for cut off 0.8mm 5mm for cut off 2.5mm
Traverse speed	0.75mm/s
Power	built-in rechargeable battery
Dimension (L×W×H)	106×70×24mm
Weight	200g

## SURFACE ROUGHNESS SPECIMEN SET CODE ISR-CS2

ATTENTION: PLEASE APPLY  
ANTI-RUST OIL AFTER USE



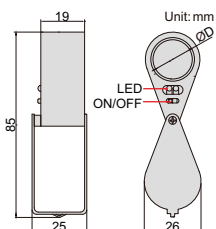
- For checking, identifying and specifying the roughness by symbol
- Made of carbon steel

Machining method	Roughness (Ra)	Roughness (Rz)	Quantity
Horizontal milling	0.4, 0.8, 1.6, 3.2, 6.3, 12.5 $\mu\text{m}$	1.6, 3.2, 6.3, 12.5, 25, 50 $\mu\text{m}$	6 pcs
	16, 32, 63, 125, 250, 500 $\mu\text{in}$		
Vertical milling	0.4, 0.8, 1.6, 3.2, 6.3, 12.5 $\mu\text{m}$	1.6, 3.2, 6.3, 12.5, 25, 50 $\mu\text{m}$	6 pcs
	16, 32, 63, 125, 250, 500 $\mu\text{in}$		
Turning	0.4, 0.8, 1.6, 3.2, 6.3, 12.5 $\mu\text{m}$	1.6, 3.2, 6.3, 12.5, 25, 50 $\mu\text{m}$	6 pcs
	16, 32, 63, 125, 250, 500 $\mu\text{in}$		
Plain grinding	0.05, 0.1, 0.2, 0.4, 0.8, 1.6 $\mu\text{m}$	0.2, 0.4, 0.8, 1.6, 3.2, 6.3 $\mu\text{m}$	6 pcs
	2, 4, 8, 16, 32, 63 $\mu\text{in}$		
Flat lapping	0.05, 0.1 $\mu\text{m}$	0.2, 0.4 $\mu\text{m}$	2 pcs
	2, 4 $\mu\text{in}$		
External grinding	0.2, 0.4, 0.8, 1.6 $\mu\text{m}$	0.8, 1.6, 3.2, 6.3 $\mu\text{m}$	4 pcs
	8, 16, 32, 63 $\mu\text{in}$		

## FOLDING MAGNIFIER WITH ILLUMINATION



7515-10



closed



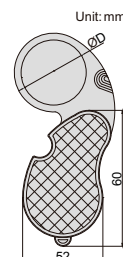
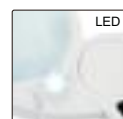
- Glass lens
- Powered by 3xLR927 batteries (included)

Code	Magnification	Lens diameter (ØD)
7515-10	10X	Ø21mm

## FOLDING MAGNIFIER WITH ILLUMINATION



7514-1

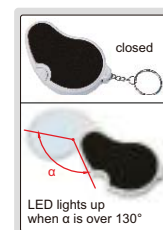


- Plastic lens
- Powered by 2xCR1620 batteries (included)
- LED lights up automatically when  $\alpha$  is over  $130^\circ$



VIDEO

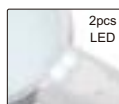
Code	Magnification	Lens diameter (ØD)
7514-1	2.5X	Ø45mm



## MAGNIFIERS WITH ILLUMINATION

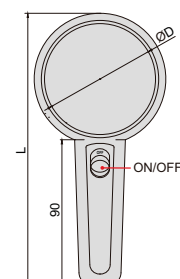
- Glass lens
- Powered by 3xAAA batteries (included)

Code	Magnification	Lens diameter (ØD)	L (mm)
7513-2	2X	Ø75mm	170
7513-4	4X	Ø50mm	145



7513-2

7513-4



### THREE WAYS MAGNIFIER WITH ILLUMINATION

- Plastic lens
- Powered by 2xAA batteries (included) or power adapter (110~240V, 50~60Hz)

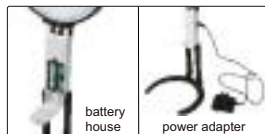


VIDEO



10pcs LED

three ways use



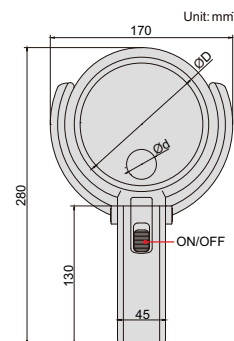
battery house

power adapter

Code	Magnification	Lens diameter (ØD)	Lens diameter (Ød)
7512-1	2X/4X	Ø120mm	Ø28mm



7512-1



Unit: mm

### TABLE MAGNIFIER WITH ILLUMINATION CODE 7516-5D

60pcs LED



lens cover



european power plug

clamping holder  
(clamping range  
10~60mm)

#### SPECIFICATION

Magnification	2.25X
Diopter	5D
Lens diameter	Ø122mm
Illumination	power: 7W, illuminance: 420lm
Power supply	100~240V, 50~60Hz

7516-5D

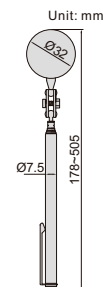
- LED illumination, working life 20000h

### TELESCOPING INSPECTION MIRROR



7160-1

- Inspect hidden areas
- Rotation of the mirror: 360°
- Length of the handle is adjustable, the handle is made of brass and chrome plated



Unit: mm

Code	Size of mirror	Length
7160-1	Ø32mm	178~505mm

### PORTABLE HARDNESS TESTER CODE ISH-PHB



VIDEO

#### 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:	30mm
	maximum roughness (Ra):	1.6µm
Power supply	3×AAA batteries	
Dimension	150×84×28mm	
Weight	200g	

#### STANDARD DELIVERY

Main unit	1 pc
Impact device D	1 pc
Hardness test block D	1 pc
Small support ring	1 pc
Cleaning brush	1 pc

#### OPTIONAL ACCESSORY

Wireless printer	ISH-DS-PRINTER
Couplant	ISH-COUPPLANT
Support rings	see details
Hardness test block D	ISH-BHLD

hardness test block D  
(included)small support ring  
(included)wireless printer  
(optional)

- Based on Leeb (HLD), converted to Vickers (HV), Brinell (HB), Rockwell (HRC and HRB), Shore (HS) and tensile strength (MPa)
- Memory of 99 measurement values for browsing
- Set measurement times (1~9) to have average value
- Connected with printer via bluetooth
- Automatic power off
- According to ASTM A 956

#### APPLICABLE MATERIAL AND HARDNESS RANGE FOR IMPACT DEVICE D

Material	HLD	HV	HB	HRC	HRB	HS	Tensile strength (MPa)
Steel & cast steel	300-900	81-955	81-654	20-68	38-100	32-100	375-2639
Tool steel	300-840	80-898		20-67			
Stainless steel	300-800	85-802	85-655		46-101		
Cast iron	360-650		93-334				
Cast aluminum alloy	170-570		19-164		23-84		
Brass	200-550		40-173		13-95		
Bronze	300-700		60-290				
Copper	200-690		45-315				

## COATING THICKNESS GAGE CODE 9501-1200

FOR MAGNETIC AND  
NON-MAGNETIC SUBSTRATES

DATA  
OUTPUT



- Magnetic induction probe (Fe) is to measure the thickness of non-magnetic coating on magnetic substrate  
Substrate: iron, steel, magnetic stainless steel (does not include non-magnetic stainless steel)  
Coating: zinc, copper, chrome, tin, plastic, powder, paint (nickel is not included)
- Eddy current probe (NFe) is to measure the thickness of non-conductive coating on non-magnetic substrate  
Substrate: copper, aluminum, zinc, non-magnetic stainless steel  
Coating: plastic, powder, paint, anodizing
- Low and high limits with judgement
- Automatic power off

### SPECIFICATION

Probe type	Fe (included) magnetic induction probe	NFe (optional) eddy current probe	Fe90 (optional) magnetic induction probe for bores and grooves	Fe10 (optional) magnetic induction probe with big range
Measuring range	0~1250μm	0~1250μm	0~1250μm	500~10000μm
Accuracy	$\pm(3\%L+1)\mu\text{m}$ (range≤1250μm) $\pm(3\%L+10)\mu\text{m}$ (range>1250μm) L is measuring thickness in μm			
Resolution	0.1μm (range<100μm) 1μm (range≥100μm)			
Measuring mode	continuous and single			
Minimum substrate thickness	0.5mm	0.3mm	0.5mm	2mm
Minimum measuring area	Ø7mm	Ø5mm	Ø7mm	Ø40mm
Minimum curvature radius of convex workpiece	1.5mm	3mm	---	10mm
Memory	500			
Power supply	2x1.5V AA batteries			
Dimension	128x68x32mm			
Weight	340g			

### STANDARD DELIVERY

Main unit	1 pc
Magnetic induction probe (Fe)	1 pc
Zero calibration block for Fe probe	1 pc
Calibration foils (50μm, 100μm, 250μm, 500μm, 1000μm)	1 set
1.5V AA battery	2 pcs
USB cable and software	1 pc



eddy current probe  
NFe (optional) with  
zero calibration block



magnetic induction  
probe (Fe90) for bores  
and grooves (optional)



zero calibration block  
for Fe (included)



calibration foils  
(included)



magnetic induction  
probe (Fe10) with big  
range (optional)



software CD  
(included)

### OPTIONAL ACCESSORY

Eddy current probe (NFe) with zero calibration block	9501-1200-NFE
Magnetic induction probe (Fe90) for bores and grooves	9501-1200-FE90
Magnetic induction probe (Fe10) with big range	9501-1200-FE10

## ULTRASONIC THICKNESS GAGE (BASIC MODEL) CODE ISU-100D

INSPECTION  
CERTIFICATE



ATTENTION: NOT SUITABLE  
FOR CASTING WORKPIECES

### STANDARD DELIVERY

Main unit	1 pc
Transducer	1 pc
Couplant	1 bottle
Battery (AAA)	2 pcs



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

### SPECIFICATION

Measuring range	0.8~300mm
Resolution	0.01mm (range<100mm) 0.1mm (range≥100mm)
Accuracy	$\pm 0.04\text{mm}$ (range<10mm) $\pm(0.04+H/1000)\text{mm}$ (range 10~100mm) $\pm H/333\text{mm}$ (range≥100mm) H is the thickness to be measured in mm
Transducer	frequency 5MHz diameter (Ød) 10.8mm
Minimum size of pipe for measurement	20×1.2mm (diameter × wall thickness)
Applicable temperature	<60°C
Velocity	1000-9999m/s
Power supply	2×AAA batteries
Dimension	114×64×28mm
Weight	200g

## PORTABLE REFRACTOMETER CODE ISQ-RM30

SUITABLE FOR WATER  
BASED COOLANT



- Quickly measure the concentration of coolant
- Refer to the refraction factor of coolant, for example: the refraction factor of grinding emulsion is 2.1, the reading value is 6%, so the actual concentration is  $(2.1 \times 6\%) = 12.6\%$

### SPECIFICATION

Measuring range	0~32%
Graduation	0.2%
Dimension	27×40×160mm
Weight	175g

## DIGITAL ANEMOMETER CODE 9331-40

DATA  
OUTPUT

software (included), display measurement values and graph, save and output data



### SPECIFICATION

Measuring range	velocity	0.8~30m/s, 1.4~108km/h, 0.9~67.2mil/h, 1.3~98.5ft/s, 78~5900ft/m, 0.8~58.3knots
	flow	0~9999CMS, 0~99990CMM, 0~99990CFM
	temperature	-20~60°C/-4~140°F
	relative humidity	0~100%RH
Accuracy	velocity	±(2%+0.5) for m/s, km/h, mil/h, ft/s, knots ±(2%+50) for ft/m
	temperature	±1.5°C/±2.7°F
	relative humidity	±3% (20~80%RH), ±5% (<20%RH or >80%RH)
Resolution	velocity	0.01m/s, 0.01km/h, 0.01mil/h, 0.01ft/s, 1ft/m, 0.01knots
	flow	0.01CMS, 0.1CMM, 0.1CFM
	temperature	0.1°C/0.1°F
	relative humidity	0.1%RH
Flowing area range		0~9.999m²/0~9.999ft²
Sampling time		0.4s
Maximum working height		2000m
Output		USB
Power supply		9V battery
Dimension		165×85×38mm
Weight		200g

- Measure velocity, flow, temperature and relative humidity
- Velocity unit: m/s, km/h, mil/h, ft/m, ft/s, knots
- Flow unit: CMS (cubic meter per second), CMM (cubic meter per minute), CFM (cubic feet per minute)
- Temperature type: ambient, dew point, wet bulb
- Maximum and minimum modes
- Automatic power off

### STANDARD DELIVERY

Main unit	1 pc
USB cable and software	1 pc
9V battery	1 pc

software CD  
(included)

## DIGITAL MOISTURE METER CODE 9341-50

### SPECIFICATION

Measuring depth		0~50mm
Measuring range	Moisture	0~60%
	temperature	-10~50°C/14~122°F
	relative humidity	0~100%RH
Accuracy	Moisture	±2%
	temperature	±2%
	relative humidity	±5%RH
Resolution	Moisture	0.1%
	temperature	0.1°C/0.1°F
	relative humidity	0.1%RH
Sampling time		0.5s for moisture 1s for temperature and relative humidity
Power supply		2×AAA batteries
Dimension		130×56×29mm
Weight		206g

- Suitable for wood, smooth cement, hard gypsum, mixed mortar, brick, etc.
- Measure moisture, temperature and relative humidity
- Temperature type: ambient, dew point, wet bulb
- Maximum and minimum modes
- Automatic power off

### STANDARD DELIVERY

Main unit	1 pc
Battery (AAA)	2 pcs

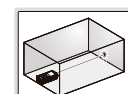
cover  
(included)

## LASER DISTANCE METER CODE 9561-80

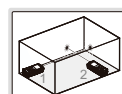
- Large display with backlight
- Unit: m, ft, in
- Distance, area, volume and height measurement
- Continuous measuring mode to track maximum and minimum value
- Memory of 99 measurement values
- Automatic power off: laser 20s, main unit 150s

### SPECIFICATION

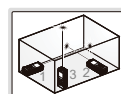
Measuring range	0.05~80m
Accuracy	±3mm
Resolution	1mm, 10mm, 0.1", 0.01ft
Measuring speed	0.5 second
Laser type	635nm, Class II, <1mW
Power supply	3×AAA batteries, for 4000 measurements
Dimension (L×W×H)	120×60×28mm
Weight	175g



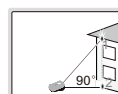
distance measurement



area measurement



volume measurement



height measurement

### STANDARD DELIVERY

Main unit	1 pc
Battery (AAA)	3 pcs

## CONTACT DIGITAL TACHOMETER CODE 9222-199

- Unit: RPM, m/min, m/sec, ft/min, ft/sec, in/min
- Maximum and minimum modes
- Memory 100 measurement values
- Automatic power off

### SPECIFICATION

Measuring range	50~19999RPM
Accuracy	± (0.03%+2) RPM
Resolution	0.01RPM (range 50~99.99RPM)
	0.1RPM (range 100~9999.9RPM)
	1RPM (range 10000~19999RPM)
Power supply	4×AAA batteries
Dimension	183×60×27mm
Weight	122g

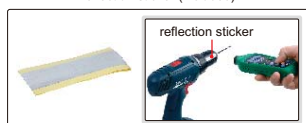
### STANDARD DELIVERY

Main unit	1 pc
Wheel with 0.1m perimeter	1 pc
Wheel with 6" perimeter	1 pc
Cone cavity head	1 pc
Cone head	1 pc
Extension rod	1 pc
Battery (AAA)	4 pcs



## NON-CONTACT DIGITAL TACHOMETER CODE 9221-999

reflection sticker (included)



- Maximum and minimum modes
- Memory 100 measurement values
- Automatic power off

### SPECIFICATION

Measuring range	50~99999RPM
Accuracy	±(0.03%+2) RPM
Resolution	0.01RPM (range 50~99.99RPM)
	0.1RPM (range 100~9999.9RPM)
	1RPM (range 10000~99999RPM)
Measuring distance	50~250mm
Power supply	4×AAA batteries
Dimension	155×60×27mm
Weight	118g

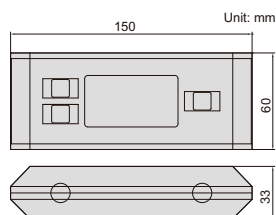
## DIGITAL LEVEL AND PROTRACTOR

**IP54**  
WATERPROOF

**ABSOLUTE**  
LEVEL

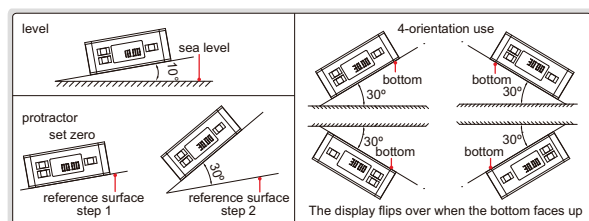
**BACKLIGHT**

**BUZZER ALARM**  
AT 0° AND 90°



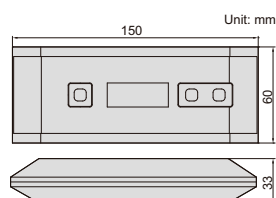
2179-360

- IP54 dust/waterproof
- Aluminum frame
- Magnetic bottom with V-groove for shafts
- The sea level is permanently set inside the chip, zero setting is not needed when batteries are replaced
- Buttons: ON/OFF, absolute and incremental measurement, keep the reading, buzzer alarm, unit(mm/m, %, in/ft), backlight
- Two AAA batteries
- Automatic power off



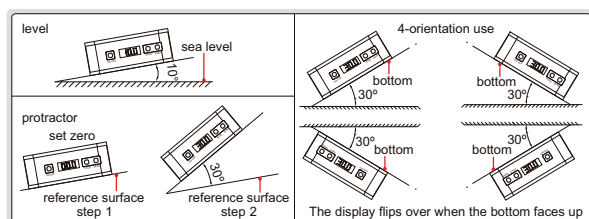
Code	Range	Resolution	Accuracy
2179-360	0-360° (90°x4)	0.05° (=0.873mm/m)	at 0° and 90°: ±0.1°; others: ±0.2°

## DIGITAL LEVEL AND PROTRACTOR



2173-360

- Aluminum frame
- Magnetic bottom with V-groove for shafts
- Zero setting can be made on any plain surfaces
- Buttons: ON/OFF, ZERO, HOLD (keep the reading)
- CR2032 battery, automatic power off



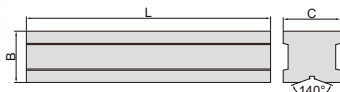
Code	Range	Resolution	Accuracy
2173-360	0-360° (90°x4)	0.1° (= 1.745 mm/m)	at 0° and 90°: ±0.1°; others: ±0.2°

## BLOCK LEVELS

ATTENTION:  
BASIC MODEL



4903-200A



- V-groove on bottom for shafts (shafts dia. 15~70mm)
- With transverse vial
- Supplied with adjusting wrench

(mm)

Code	Length (L)	Sensitivity	B	C
4903-150A	150mm	0.02mm/m (=0.001°)	40	45
4903-200A	200mm	0.02mm/m (=0.001°)	42	47
4903-300A	300mm	0.02mm/m (=0.001°)	45	50

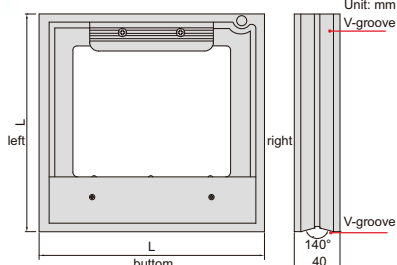
## FRAME LEVEL

ATTENTION:  
BASIC MODEL



4902-200

- V-groove on bottom and left for shafts (shafts dia. 15~70mm)
- With transverse vial
- Supplied with adjusting wrench



Unit: mm

V-groove

V-groove

140°

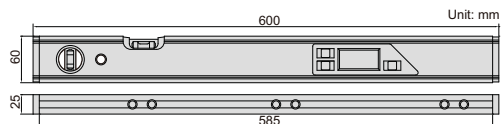
40

Code	Sensitivity	Size (LxL)
4902-200	0.02mm/m (=0.001°)	200x200mm

## DIGITAL LEVEL



4910-600



Unit: mm

BACKLIGHT

ABSOLUTE LEVEL

- With transverse and longitudinal vials
- Used as level and protractor
- Aluminum frame
- Magnetic bottom
- The sea level is permanently set inside the chip, zero setting is not needed when batteries are replaced
- Buttons: ON/OFF, absolute and incremental measurement, keep the reading, buzzer alarm, unit (mm/m, %, in/ft) conversion, backlight
- The display flips over when the bottom faces up
- Two AAA batteries
- Automatic power off

BUZZER ALARM  
AT 0° AND 90°

Code	Range	Resolution	Accuracy
4910-600	0-360°(90°x4)	0.1°(=1.745 mm/m)	at 0° and 90°: ±0.1°, others: ±0.2°

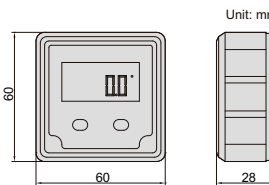
## DIGITAL LEVEL AND PROTRACTOR

BACKLIGHT

ABSOLUTE LEVEL

MAGNETIC BOTTOM

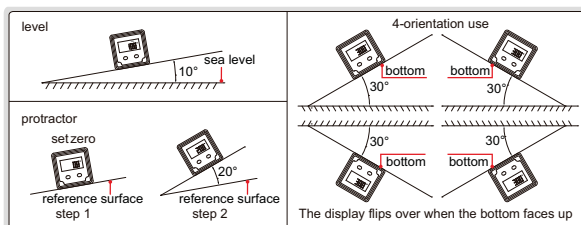
DISPLAY FLIPS OVER WHEN THE BOTTOM FACES UP



Unit: mm



2170-1



- Aluminum frame
- Magnetic bottom
- The display flips over when the bottom faces up
- The backlight is on automatically when in use, and automatically off in 15 minutes after use
- The sea level is permanently set inside the chip, zero setting is not needed when battery is replaced
- Buttons: ON/OFF, ZERO, absolute and incremental measurement
- One AAA battery
- Automatic power off in 5 minutes

Code	Range	Resolution	Accuracy
2170-1	4x90°	0.1° (= 1.745 mm/m)	at 0° and 90°: ±0.1°; others: ±0.2°

## FORCE GAGES



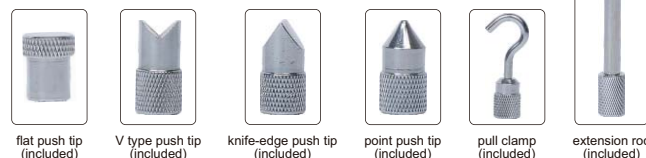
- Push and pull test
- Peak(max.) or tracking mode

### OPTIONAL ACCESSORY

Test stand ISF-MT500



ISF-F500



### SPECIFICATION

Code	ISF-F50	ISF-F100	ISF-F200	ISF-F300	ISF-F500
Capacity	N	50	100	200	300
	kgf	5	10	20	30
Graduation	N	0.25	0.5	1	2
Accuracy	±1% (of load capacity)				

### STANDARD DELIVERY

Main unit	1 pc
Push tip	4 pcs (flat, V type, knife-edge, point)
Pull clamp	1 pc
Extension rod	1 pc

## TORQUE WRENCHES

**ATTENTION: CLOCKWISE OPERATION ONLY**



- According to DIN ISO 6789, ASME B107.300
- All-metal construction, sturdy and durable



VIDEO

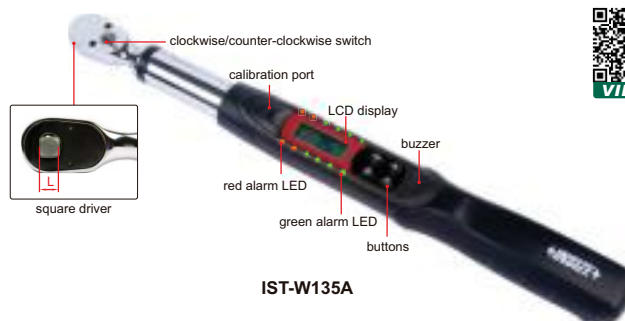
### SPECIFICATION

Code	IST-9WM30	IST-9WM60	IST-9WM100	IST-9WM200	IST-9WM335	IST-9WM500	IST-9WM800	IST-9WM1000
Range (clockwise)	6~30N.m	10~60N.m	20~100N.m	40~200N.m	65~335N.m	100~500N.m	160~800N.m	200~1000N.m
Accuracy	±4%	±4%	±4%	±4%	±4%	±4%	±4%	±4%
Graduation	0.1N.m	0.25N.m	0.5N.m	1N.m	1N.m	2.5N.m	4N.m	5N.m
Square driver (D)	3/8"	3/8"	1/2"	1/2"	1/2"	3/4"	3/4"	3/4"
Length	318mm	388mm	443mm	468mm	528mm	855mm	1055mm	1055mm
Weight	820g	960g	1040g	1160g	1300g	5000g	5900g	5900g

## DIGITAL TORQUE WRENCHES



- Clockwise and counter-clockwise operation
- Unit: N.m, in.lb, ft.lb, kg.cm
- Peak and track working mode
- Target torque value can be set, with audible and visible alarm:
  - Green LED light on and buzzer sounds when torque value is 90%~100% of target torque
  - Both green and red LED light on and buzzer sounds when target torque value is reached
- Power off automatically in 5 minutes without any operations
- Non-slip grip handle
- With damp record
- With overload record (once the torque reaches 110% of the maximum range)



VIDEO

**OPTIONAL ACCURACY FOR 6~850N.m:**  
CLOCKWISE: ±1%  
COUNTER-CLOCKWISE: ±2%

### OPTIONAL ACCESSORY

Calibration cable IST-W-CABLE

### SPECIFICHE

Code	Range	Accuracy	Resolution	Square driver (L)	Power supply	Length	Weight
IST-W30A	6~30N.m	clockwise: ±2% counter-clockwise: ±3%	0.01N.m	1/4"	2×AA batteries	390mm	830g
IST-W135A	27~135N.m		0.1N.m	3/8"		415mm	950g
IST-W200A	40~200N.m		0.1N.m	1/2"		530mm	1.4kg
IST-W340A	68~340N.m		0.1N.m	1/2"		650mm	1.6kg
IST-W500A	100~500N.m	clockwise: ±2.5% counter-clockwise: ±3.5%	0.1N.m	3/4"		950mm	2.1kg
IST-W850A	170~850N.m		0.1N.m	3/4"		1220mm	2.55kg

## DIAL TORQUE WRENCHES



- Clockwise and counter-clockwise operation
- According to DIN ISO 6789, ASME B107.300



### SPECIFICATION

Code	IST-DW3D5	IST-DW9	IST-DW18	IST-DW35	IST-DW70	IST-DW140	IST-DW240	IST-DW350
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 driver (D)	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

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Asia – Korea, China, Taiwan, etc.

is our premium quality and mainly  
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The products with  
this mark are supplied  
with manufacturer  
inspection certificate

INSIZE Inspection Certificate									
Product name	Digital Caliper	Traceable to	USA NIST No. 8110194A-10						
Code No.	1106-100	Inspector	Jesse						
Measuring range	0-150mm / 0-6"	Judgement	Passed						
Resolution	0.02mm / 0.0005"	Standard temperature	20°C / 68°F						
Measuring Length		Error		Measuring Length		Error		Measuring Length	
mm	in	mm	in	mm	in	mm	in	mm	in
0-4 DIA	+0.0008 -0.0015	/	0.0005	0-10	+0.01 -0.02	/	0.01	0-10	+0.01 -0.02
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