measuring & gauging

The UK's biggest range of precision measuring tools, gauges and test equipment from Insize, JBO, Haimer and Cutwel Pro. More measuring tools and gauges including Mitutoyo & Bowers available on cutwel.co.uk.

INSIZE JBO CUTWEL PRO HAIMER

contents

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Digital, dial & vernier calipers

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Outside and inside digital or mechanical micrometers

Bore Gauges 1361
Digital, dial and pistol grip bore gauges

Depth Micrometers 1364
Vernier and digital depth micrometers for quick and accurate depth measurements up to 300mm (12")

Depth Gauges 1365
Digital, dial & vernier depth gauges

Height Gauges 1368
Digital & dial height gauges up to 1,000mm

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Digital, dial & analogue indicators, dial test indicators, stands and holders

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German made thread gauges from JBO

DIGITAL CALIPER - 1108

With Data Output

- Resolution: 0.01mm/0.0005”
- Button function: on/off, zero, mm/inch
- Automatic power off (move digital unit to turn on)
- Battery CR2032
- Data output
- Made of stainless steel
- Optional Accessory: data output cable

DATA OUTPUT

Measuring Range mm/inch	Accuracy	Thumb Wheel	L	a	b	c	d	ORDER CODE	
0-150 / 0-6”	±0.03mm		236	21	16	16	40	1108-150W	
0-150 / 0-6”	±0.03mm	•	286	24	19	16	50	1108-150	
0-200 / 0-8”	±0.03mm		400	25	20.5	17	60	1108-200W	
0-200 / 0-8”	±0.03mm	•	236	21	16	16	40	1108-200	
0-300 / 0-12”	±0.03mm		286	24	19	16	50	1108-300W	
0-300 / 0-12”	±0.03mm	•	400	25	20.5	17	60	1108-300	

HEAVY DUTY DIGITAL CALIPER - 1114

Zinc Alloy Heavy Duty Digital Caliper

- Zinc alloy housing for digital unit
- Resolution: 0.01mm/0.0005”
- Button function: on/off, zero, mm/inch
- Automatic power off (move digital unit to turn on)
- Battery CR2032
- Made of stainless steel

Measuring Range mm/inch	Accuracy	Thumb Wheel	L	a	b	c	d	ORDER CODE	
0-150 / 0-6”	±0.03mm		236	21	16	16	40	1114-150AW	
0-150 / 0.6”	±0.03mm	•	236	21	16	16	40	1114-150A	
0-200 / 0-8”	±0.03mm		286	24	19	16	50	1114-200AW	
0-200 / 0-8”	±0.03mm	•	286	24	19	16	50	1114-200A	
0-300 / 0-12”	±0.03mm		400	25	20.5	17	60	1114-300AW	
0-300 / 0-12”	±0.03mm	•	400	25	20.5	17	60	1114-300A	

HEAVY DUTY 300mm DIGITAL CALIPER - 1196

Supplied With Manufacturer’s Inspection Certificate

- Resolution: 0.01mm/0.0005”
- Button function: on/off, zero, mm/inch
- Automatic power off (move digital unit to turn on)
- Battery CR2032
- Data output
- Made of stainless steel
- Optional Accessory: data output cable

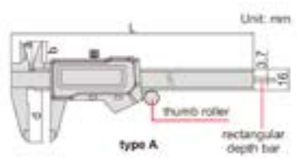
DATA OUTPUT

Measuring Range mm/inch	Thumb Wheel	Accuracy	ORDER CODE	
0-300 / 0-12”		±0.03mm	1196-300W	
0-300 / 0-12”	•	±0.03mm	1196-300	

IP67 DIGITAL CALIPER - 1126

IP67 Waterproof and Dustproof With Large Display

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



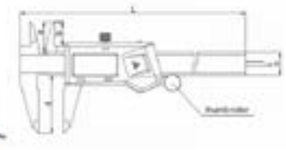
IP67

Measuring Range mm/inch	Accuracy	Thumb Wheel	L	a	b	d	ORDER CODE	
0-150 / 0-6”	±0.03		234	20	15	40	1126-150W	
0-150 / 0-6”	±0.03	•	234	20	15	40	1126-150	
0-200 / 0-8”	±0.03		286	24	19	50	1126-200W	
0-200 / 0-8”	±0.03	•	286	24	19	50	1126-200	
0-300 / 0-12”	±0.03		390	26	21.5	60	1126-300W	
0-300 / 0-12”	±0.03	•	390	26	21.5	60	1126-300	

IP67 DIGITAL CALIPER - 1118

Waterproof and Dustproof With Absolute Function

- Resolution: 0.01mm/0.0005”
- Button function: on/off, zero, mm/inch, ABS/REL, Hold
- Battery CR2032



IP67

Measuring Range mm/inch	Accuracy	Thumb Wheel	L	a	b	c	d	ORDER CODE	
0-150 / 0-6”	±0.03mm		236	21	16	16	40	1118-150BW	
0-150 / 0-6”	±0.03mm	•	286	24	19	16	50	1118-150B	
0-200 / 0-8”	±0.03mm		400	25	20.5	17	60	1118-200BW	
0-200 / 0-8”	±0.03mm	•	236	21	16	16	40	1118-200B	
0-300 / 0-12”	±0.03mm		286	24	19	16	50	1118-300BW	
0-300 / 0-12”	±0.03mm	•	400	25	20.5	17	60	1118-300B	

DIGITAL CALIPER - 1119

With Round Depth Bar & Data Output

- Resolution: 0.01mm/0.0005”
- Button function: on/off, zero, mm/inch
- Automatic power off (move digital unit to turn on)
- Battery CR2032
- Data output
- Made of stainless steel
- Optional Accessory: data output cable

DATA OUTPUT

Measuring Range mm/inch	Accuracy	Thumb Wheel	ORDER CODE	
0-150 / 0-6”	±0.03		1119-150W	
0-150 / 0-6”	±0.03	•	1119-150	

DIGITAL CALIPER - 1110

With Carbide Tipped Jaws & Data Output

- Carbide tipped jaws, inside and outside
- Resolution: 0.01mm/0.005”
- Button function: on/off, zero, hold
- Automatic power off (move digital unit to turn on)
- Battery CR2032
- Data output
- Made of stainless steel

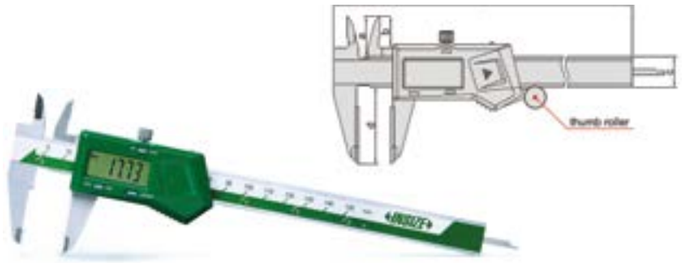
DATA OUTPUT

Measuring Range mm/inch	Accuracy	Thumb Wheel	ORDER CODE	
0-150 / 0-6”	±0.03mm		1110-150AW	
0-150 / 0-6”	±0.03mm	•	1110-150A	
0-200 / 0-8"	±0.03mm		1110-200AW	
0-200 / 0-8”	±0.03mm	•	1110-200A	
0-300 / 0-12"	±0.03mm		1110-300AW	
0-300 / 0-12”	±0.03mm	•	1110-300A	

DIGITAL CALIPER - 1193

With Ceramic Tipped Jaws & Data Output

- Ceramic tipped jaws for outside measurements
- Resolution: 0.01mm/0.005”
- Button function: on/off, zero, mm/inch
- Automatic power off (move digital unit to turn on)
- Battery CR2032
- Data output
- Made of stainless steel
- Optional Accessory: data output cable



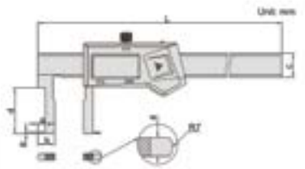
DATA OUTPUT

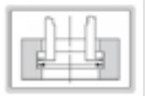
Measuring Range mm/inch	Resolution mm/inch	Accuracy	Thumb Wheel	ORDER CODE	
0-150 / 0-6”	0.01 / .0005”	±0.03mm		1193-150W	
0-150 / 0-6”	0.01 / .0005”	±0.03mm	•	1193-150	
0-200 / 0-8”	0.01 / .0005”	±0.03mm		1193-200W	
0-200 / 0-8”	0.01 / .0005”	±0.03mm	•	1193-200	
0-300 / 0-12”	0.01 / .0005”	±0.03mm		1193-300W	
0-300 / 0-12”	0.01 / .0005”	±0.03mm	•	1193-300	

INSIDE GROOVE CALIPER - 1120

For Grooves & Recesses

- Resolution: 0.01mm/0.0005”
- Button function: on/off, set, mm/inch, preset (+,-)
- Automatic power off (move digital unit to turn on)
- Battery CR2032
- Data output
- Made of stainless steel





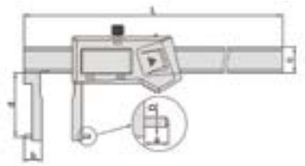
DATA OUTPUT

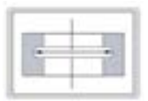
Measuring Range mm/inch	Accuracy	L	a	b	c	d	e	ORDER CODE	
22-150 / 0.87-6”	±0.04mm	250	5	11	16	30	1	1120-150A	
25-200 / 0.98-8”	±0.04mm	310	5	12.5	16	40	1	1120-200A	
30-300 / 1.18-12”	±0.05mm	410	5	15	17	50	1.5	1120-300A	

DIGITAL INSIDE POINT CALIPER - 1121

For Measuring Groove Diameter Inside Bores & Recesses

- Resolution: 0.01mm/0.0005”
- Button function: on/off, set, mm/inch, preset (+,-)
- Automatic power off (move digital unit to turn on)
- Battery CR2032
- Data output
- Made of stainless steel





DATA OUTPUT

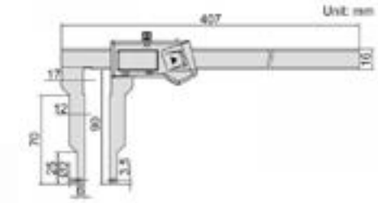
Measuring Range mm/inch	Accuracy	L	a	b	c	d	e	ORDER CODE	
24-150 / 0.94-6”	±0.04mm	250	5	12	16	30	2	1121-150A	
25-200 / 0.98-8”	±0.04mm	310	5	12.5	16	40	2	1121-200A	
50-300 / 1.97-12”	±0.06mm	410	8	25	17	80	2	1121-3001A	

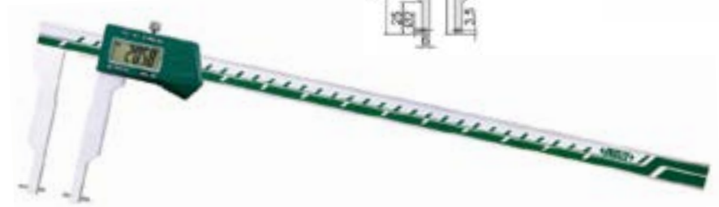
MEASURING & GAUGING
CALIPERS

DIGITAL CALIPER WITH INTERCHANGEABLE POINTS - 1124

With Interchangeable Points

- Supplied with 4 pairs of points and zero setting block for external measurement
- Resolution: 0.01mm/0.0005”
- Accuracy ±0.004mm
- Button function: on/off, set, mm/inch, preset (+,-)
- Automatic power off (move digital unit to turn on)
- Battery CR2032
- Data output
- Made of stainless steel



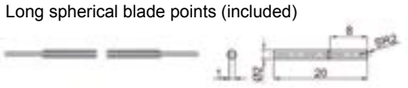


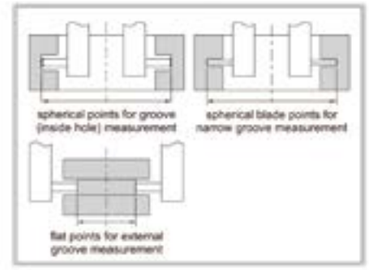
Short spherical/flat points (included)

Long spherical/flat points (included)

Short spherical blade points (included)

Long spherical blade points (included)





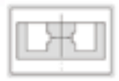
DATA OUTPUT

POINT	Measuring Range mm/inch	Application	ORDER CODE	
Short spherical / flat points	24-324mm/1-12.7” (internal) 0-288mm/0.11.3” (external)	Spherical points for grooves inside holes, flat points for external grooves	1124-300A	
Long spherical / flat points	40-340mm/1.5-13.3” (internal) 0-272mm/0-10.7” (external)	Spherical points for grooves inside hole (large hole) flat points		
Short spherical blade points	24-324mm/1-12.7” (internal) 0-288mm/0-11.3” (external)	For narrow grooves inside holes (small holes)		
Long spherical blade points	40-340mm/1.5-13.3” (internal) 0-272mm/0-10.7” (external)	For narrow grooves inside hole (large holes)		

DIGITAL OUTSIDE NECK CALIPER - 1187

For Grooves & Recesses

- Button function: on/off, zero, mm/inch
- Automatic power off (move digital unit to turn on)
- Battery CR2032
- Data output
- Made of stainless steel
- Optional Accessory: data output cable (code 7306-20, 7302-SPC1A/SPC1B, 7305-SPC2)



DATA OUTPUT

Measuring Range mm/inch	Resolution mm/inch	Accuracy	ORDER CODE	
0-150 / 0-6”	0.01 / .0005”	±0.04mm	1187-150A	

DIGITAL OUTSIDE POINT CALIPER - 1185

For Wall Thickness Inside Bores & Recesses

- Buttons: on/off, zero, mm/inch
- Automatic power off (move digital unit to turn on)
- Battery CR2032
- Data output
- Made of stainless steel
- Optional accessory: depth stop (code 6143)

DATA OUTPUT

Measuring Range mm/inch	Resolution mm/inch	Accuracy	ORDER CODE	
0-150 / 0-6”	0.01 / .0005”	±0.04mm	1185-150A	

INSIDE GROOVE CALIPER - 1178

Inside Groove Type

- Measure diameters of grooves inside bores
- Buttons: on/off, set, mm/inch, preset (+,-)
- Automatic power off (move digital unit to turn on)
- Battery CR2032
- Data output
- Accuracy ±0.005mm
- Made of stainless steel
- Optional accessory: depth stop (cc
  cable

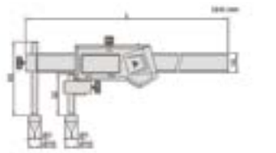
DATA OUTPUT

Measuring Range mm / inch	ORDER CODE	
25-300mm / 1.18-12”	1178-300	

DIGITAL CALIPER - 1192

Offset Centreline Type

- Measure hole center distance in the same or offset plane.
- Resolution: 0.01mm/0.0005”.
- Button function: on/off, set, mm/inch, preset (+,-).
- Automatic power off (move digital unit to turn on).
- Battery CR2032.
- Data output.
- Made of stainless steel.
- Optional Accessory:
  data output cable
  (code 7302-SPC5A)



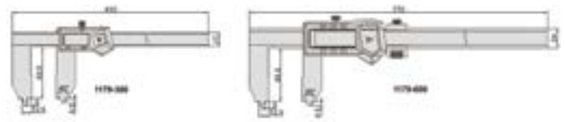
DATA OUTPUT

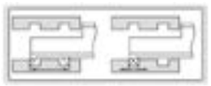
Measuring Range mm / inch	Accuracy	L	ORDER CODE	
10-150mm / 0.4-6”	±0.05mm	236	1192-150A	
10-200 / 0.4-8”	±0.07mm	286	1192-200A	
10-300 / 0.4-12”	±0.09mm	396	1192-300A	

RTJ DIGITAL CALIPER - 1179

For RTJ Ring Grooves

- 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.





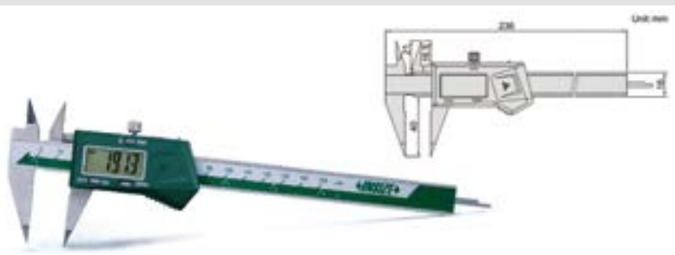
DATA OUTPUT

Range (inside dia. of RTJ ring groove) mm (inch)	Range (outside dia. of RTJ ring groove) mm (inch)	Angle Of RTJ Ring Groove	Accuracy	ORDER CODE	
10 - 300 (0.4 - 12")	25-300 (1-12")	23°	±0.06mm	1179-300	
10 - 600 (0.4 - 24")	25-600 (1-24")	23°	±0.07mm	1179-600	

DIGITAL POINT CALIPER - 1183

For Small Grooves And Recesses

- Pointed jaws fit into small grooves and recesses
- Resolution 0.01mm/0.0005”
- Buttons: on/off, zero, mm/inch
- Automatic power off (move digital unit to turn on)
- Battery CR2032
- Data output
- Made of stainless steel



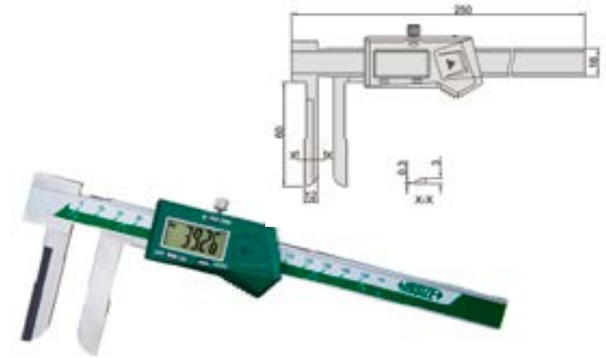
DATA OUTPUT

Measuring Range mm / inch	Accuracy	ORDER CODE	
0-150mm / 0-6”	±0.03mm	1183-150A	

DIGITAL KNIFE-EDGE CALIPER - 1123

With Inside Jaws

- Measure diameters of deep step holes
- Resolution 0.01mm/0.0005”
- Buttons: on/off, zero, mm/inch
- Automatic power off (move digital unit to turn on)
- Battery CR2032
- Data output
- Made of stainless steel
- Optional accessory: data output cable



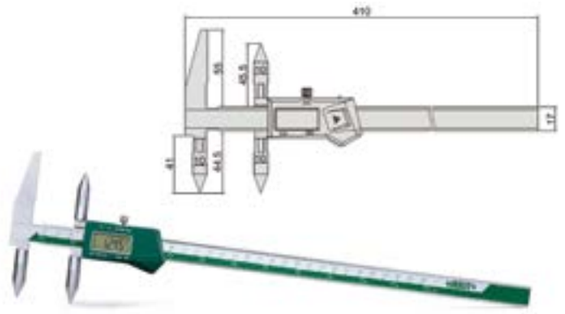
DATA OUTPUT

Measuring Range mm / inch	Accuracy	ORDER CODE	
15-150mm/0.6-6”	± 0.05mm	1123-150A	

DIGITAL CENTRELINE/EDGE TO CENTRE CALIPER - 1525

For Hole Centre Distance Or Edge To Hole Centre Distance

- Measure hole centre distance or edge to hole centre distance
- Resolution: 0.01mm/0.0005”
- Button function: on/off, set, mm/inch, preset (+,-)
- Automatic power off (move digital unit to turn on)
- Battery CR2032
- Data output
- Made of stainless steel
- Optional Accessory: data output cable



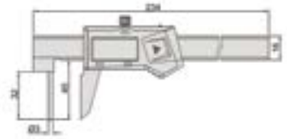
DATA OUTPUT

Range of upper jaw (edge to center)	Range of lower jaw (edge to center)	Accuracy	D	ORDER CODE	
5-300mm/0.2-12”	10-300mm/0.4-12”	±0.08mm	10mm	1525-300	

TUBE THICKNESS CALIPER - 1161

For Measuring Wall Thickness Of Tubes

- Measure wall thickness of tubes
- Resolution 0.01mm/0.0005”
- Buttons: on/off, zero, mm/inch
- Automatic power off (move digital unit to turn on)
- Battery CR2032
- Data output
- Made of stainless steel
- Optional accessory:
  data output cable
  (code 7302-SPC5A)



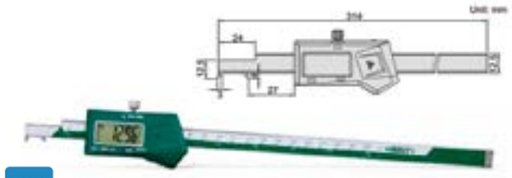
DATA OUTPUT

Measuring Range mm / inch	Accuracy	ORDER CODE	
0-150mm / 0-6”	±0.05mm	1161 -150A	

DIGITAL HOOK CALIPER - 1122

For Measuring Groove Width Inside

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



DATA OUTPUT

Measuring Range mm / inch	Accuracy	ORDER CODE	
3-200mm/0.12-8”	±0.03mm	1122-200A	

LARGE DIGITAL CALIPERS - 1106

With Long Measuring Jaws

- 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

Figure 1

Figure 3

Figure 2

DATA OUTPUT

Measuring Range mm / inch	Jaw Length	Accuracy	Figure	ORDER CODE	
0-500 / 0-20"	100	± 0.05	1	1106-501	
0-500 / 0-20"	100	± 0.05	2	1136-501	
0-500 / 0-20"	100	± 0.05	3	1117-501	
0-1000 / 0-40"	150	± 0.08	2	1136-1002	
0-1000 / 0-40"	150	± 0.08	3	1117-1002	
0-1000 / 0-40"	150	± 0.08	1	1106-1002	
0-1500 / 0-60"	150	± 0.11	1	1106-1502	
0-2000 / 0-80"	150	± 0.11	1	1106-2002	

VERNIER CALIPER - 1205

0.05mm or 0.02mm Graduations

- Made of stainless steel
- Satin chrome plated reading surface
- View cutwel.co.uk for a wider range of sizes

Measuring Range	Accuracy	ORDER CODE	
Graduation 0.05mm/1/128”			
0-150mm / 0-6”	±0.05	1205-150S	
0-200mm / 0-8”	±0.05	1205-200S	
0-250mm / 0-10”	±0.05	1205-250S	
0-300mm / 0-12”	±0.05	1205-300S	
Graduation 0.05mm			
0-150mm	±0.05	1205-1503S	
0-200mm	±0.05	1205-2003S	
0-250mm	±0.05	1205-2503S	
0-300mm	±0.05	1205-3003S	
Graduation 0.02mm/0.001”			
0-150/0-6”	±0.03	1205-1502S	
0-150/0-6”	±0.03	1205-2002S	
0-150/0-6”	±0.03	1205-2502S	
0-150/0-6”	±0.03	1205-3001S	
Graduation 0.02mm			
0-150mm / 0-6”	±0.03	1205-1501S	
0-200mm / 0-8”	±0.03	1205-2001S	
0-250mm / 0-10”	±0.03	1205-2501S	
0-300mm / 0-12”	±0.03	1205-3001S	

DIAL CALIPERS - 1311/1312

0.01mm or 0.02mm Graduations

- Shockproof dial Indicator
- Made of stainless steel
- With thumb roller

Measuring Range	Accuracy	ORDER CODE	
Graduation 0.01mm			
0-150mm	±0.03mm	1311-150A	
0-200mm	±0.03mm	1311-200A	
0-300mm	±0.03mm	1311-300A	
Graduation 0.02mm			
0-150mm	±0.03mm	1312-150A	
0-200mm	±0.03mm	1312-200A	
0-300mm	±0.03mm	1312-300A	

IP65 DIGITAL MICROMETER - 3101

IP65 Waterproof & Dustproof with Data Output

- IP65 waterproof
- Resolution: 0.001mm/0.00005”
- Button function: on/off, zero, mm/inch, ABS/INC, data output.
- Carbide measuring faces
- Battery SR44 or LR44
- Data output
- Supplied with spherical anvil
- Setting standards are included (except 0-25mm/0-1”)
- Optional accessory: foot switch for data transfer (code 7304-2), data output cable (code 7302-SPC6)

DATA OUTPUT IP65

Measuring Range mm / inch	Resolution mm/inch	Accuracy	ORDER CODE	
0-25 / 0-1"	0.001 / .00005”	±0.002	3101-25A	
25-50 / 1 - 2"	0.001 / .00005”	±0.002	3101-50A	
50-75 / 2-3"	0.001 / .00005”	±0.003	3101-75A	
75-100 / 3-4"	0.001 / .00005”	±0.003	3101-100A	
100-125 / 4-5"	0.001 / .00005”	±0.003	3101-125A	
125-150 / 5-6"	0.001 / .00005”	±0.003	3101-150A	
150-175 / 6-7"	0.001 / .00005”	±0.004	3101-175A	
175-200 / 7-8"	0.001 / .00005”	±0.004	3101-200A	
200-225 / 8-9"	0.001 / .00005”	±0.005	3101-225A	
225-250 / 9-10"	0.001 / .00005”	±0.005	3101-250A	
250-275 / 10-11"	0.001 / .00005”	±0.006	3101-275A	
275-300 / 11-12"	0.001 / .00005”	±0.006	3101-300A	

IP65 METRIC DIGITAL MICROMETER - 3108

IP65 Waterproof & Dustproof - No Data Output

- IP65 waterproof
- Resolution: 0.001mm
- Button function: on/off, set, ABS/INC
- Carbide measuring faces
- Battery SR44 or LR44
- Supplied with spherical anvil
- Setting standards are included (except 0-25mm)

IP65

Measuring Range mm / inch	Resolution mm	Accuracy	ORDER CODE	
0-25 / 0-1"	0.001 / .00005”	±0.002	3108-25A	
25-50 / 1 - 2"	0.001 / .00005”	±0.002	3108-50A	
50-75 / 2-3"	0.001 / .00005”	±0.003	3108-75A	
75-100 / 3-4"	0.001 / .00005”	±0.003	3108-100A	
100-125 / 4-5"	0.001 / .00005”	±0.003	3108-125A	
125-150 / 5-6"	0.001 / .00005”	±0.003	3108-150A	
150-175 / 6-7"	0.001 / .00005”	±0.004	3108-175A	
175-200 / 7-8"	0.001 / .00005”	±0.004	3108-200A	

DIGITAL MICROMETER (BASIC MODEL) - 3109

No Data Output

- Resolution: 0.001mm/0.00005”
- Button function: on/off, set, mm/inch, ABS/INC
- Carbide measuring faces
- Battery SR44 or LR44
- Supplied with spherical anvil
- Data output
- Setting standards are included (except 0-25mm/0-1”)

DATA OUTPUT

Measuring Range mm / inch	Resolution mm/inch	Accuracy	ORDER CODE	
0-25 / 0-1"	0.001 / .00005”	±0.002	3109-25A	
25-50 / 1-2"	0.001 / .00005”	±0.002	3109-50A	
50-75 / 2-3"	0.001 / .00005”	±0.003	3109-75A	
75-100 / 3-4"	0.001 / .00005”	±0.003	3109-100A	

OUTSIDE MICROMETER - 3202

With Carbide Measuring Faces

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

Measuring Range mm	ORDER CODE	
0-25	3202-25A	
25-50	3202-50A	
50-75	3202-75A	
75-100	3202-100A	

OUTSIDE MICROMETER SET - 3202 SET

4-6pc Micrometer Sets With Setting Standards

Measuring Range mm	Pcs In Set	ORDER CODE	
0-100	4	3202-1004A	
0-150	6	3202-1506A	

METRIC OUTSIDE MICROMETER SET - 3210 / 3203 SET

4-6pc Micrometer Sets With Setting Standards

- Graduation: 0.01mm or 0.001mm
- Carbide measuring faces
- Supplied with setting standards (except 0-25mm)

Measuring Range mm	Pcs In Set	Graduation	ORDER CODE	
0-100	4	0.01mm	3203-1004A	
150-300	6	0.01mm	3203-3006A	
0-150	6	0.01mm	3203-1506A	
0-100	4	0.001mm	3210-1004A	
0-150	6	0.001mm	3210-1506A	

OUTSIDE MICROMETER - 3210 / 3203

With Carbide Measuring Faces

- Metric or inch models
- Carbide measuring faces
- Supplied with setting standards (except 0-25mm)

Measuring Range	Graduation	Accuracy	ORDER CODE	
SERIES 3210				
0-25mm	0.001mm	±0.004	3210-25A	
25-50mm	0.001mm	±0.004	3210-50A	
50-75mm	0.001mm	±0.005	3210-75A	
75-100mm	0.001mm	±0.005	3210-100A	
SERIES 3203 (METRIC)				
0-25mm	0.01mm	±0.004	3203-25A	
25-50mm	0.01mm	±0.004	3203-50A	
50-75mm	0.01mm	±0.005	3203-75A	
75-100mm	0.01mm	±0.005	3203-100A	
100-125mm	0.01mm	±0.006	3203-125A	
125-150mm	0.01mm	±0.006	3203-150A	
150-175mm	0.01mm	±0.007	3203-175A	
175-200mm	0.01mm	±0.007	3203-200A	
200-225mm	0.01mm	±0.008	3203-225A	
225-250mm	0.01mm	±0.008	3203-250A	
250-275mm	0.01mm	±0.009	3203-275A	
275-300mm	0.01mm	±0.009	3203-300A	
SERIES 3203 (IMPERIAL)				
0-1”	0.0001”	0.00016”	3203-1A	
1-2”	0.0001”	0.00016”	3203-2A	
2-3”	0.0001”	0.00020”	3203-3A	
3-4”	0.0001”	0.00020”	3203-4A	

DIGITAL SCREW THREAD MICROMETER - 3581

Measure Pitch Diameter of Screw Threads

- Measure pitch diameter of screw threads
- Resolution 0.001mm/0.00005”
- Button function: on/off, set, mm/inch, ABS/INC, data output
- LR44 battery, automatic power off
- Ratchet stop
- Non-rotating spindle
- Supplied with 60° setting standards (except 0-25mm/0-1”)
- Optional accessory: data output cable (code 7302-SPC6), 55° setting standards (code 3281-SP), measuring tips (code 7381)

Measuring tips not included

DATA OUTPUT

Measuring Range mm / inch	Resolution mm/inch	Accuracy	ORDER CODE	
0-25 / 0 - 1"	0.001 / .00005"	±0.004/0.008	3581-25A	
25-50 / 1 - 2"	0.001 / .00005"	±0.004/0.008	3581-50A	
50-75 / 2 - 3"	0.001 / .00005"	±0.005/0.010	3581-75A	
75-100 / 3 - 4"	0.001 / .00005"	±0.005/0.010	3581-100A	

SCREW THREAD MICROMETER - 3281

Measure Pitch Diameter of Screw Threads

- Measure pitch diameter of screw threads
- Graduation 0.01mm
- Non-rotating spindle
- Ratchet stop
- Supplied With 60° Setting Standards (except 0-25mm)
- Optional accessory: 55° setting standards (code 3281-SP), measuring tips (code 7381)

Measuring tips not included

Measuring Range mm	Graduation mm	ORDER CODE	
0-25	0.01	3281-25A	
25-50	0.01	3281-50A	
50-75	0.01	3281-75A	
75-100	0.01	3281-100A	
100-125	0.01	3281-125A	
125-150	0.01	3281-150A	
150-175	0.01	3281-175A	
175-200	0.01	3281-200A	

MEASURING & GAUGING
MICROMETERS

SPLINE MICROMETER - 3233

For Measuring Splined Shafts, Slots And Keyways

- Measure splined shafts, slots and keyways
- Graduation 0.01mm
- Ratchet stop
- Carbide measuring faces
- Supplied with setting standards (except 0-25)

Measuring Range mm	Accuracy	ORDER CODE	
0-25	±0.004	3233-25A	
0-25	±0.004	3233-25BA	
25-50	±0.004	3233-50BA	
50-75	±0.005	3233-75BA	
75-100	±0.005	3233-100BA	
100-125	±0.006	3233-125BA	
125-150	±0.006	3233-150BA	
150-175	±0.007	3233-175BA	

INDICATING MICROMETER - 3332

With Carbide Measuring Faces

- Micrometer head graduation 0.002mm
- Accuracy ±0.004mm
- Dial indicator: range ±0.04mm, graduation 0.001mm accuracy 0.001mm
- Carbide Measuring Faces

Measuring Range mm	ORDER CODE	
0-25	3332-25	
25-50	3332-50	

DIGITAL NON-ROTATING SPINDLE DISK MICROMETER - 3594

For Measuring Gear Tooth Tangent

- Measure root tangent length of gear
- Resolution 0.001mm/0.00005”
- Button function: on/off, set, mm/inch, ABS/INC, data output
- Data output
- LR44 battery, automatic power off
- Ratchet stop
- Supplied with setting standards
- Optional accessory: data output cable (code 7302-SPC6)

DATA OUTPUT

Measuring Range mm / inch	Accuracy	ORDER CODE	PRICE
0-25mm/0-1”	±0.004	3594-25A	**£228.00**

OUTSIDE MICROMETER - 3206

With Interchangeable Anvils

- Graduation 0.001mm
- Ratchet stop
- Carbide Measuring Faces
- Supplied With Setting Standards

Type A

Type B

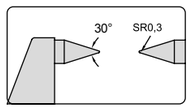
Interchangeable Anvils for measuring different ranges

Measuring Range mm	Graduation mm	Accuracy	Type	ORDER CODE	
0-50	0.01	±0.004	A	3206-50A	
0-100	0.01	±0.005	A	3206-100A	
0-150	0.01	±0.006	A	3206-150A	
150-300	0.01	±0.006	A	3206-151A	
100-200	0.01	±0.007	A	3206-200A	
150-300	0.01	±0.009	A	3206-300A	
200-300	0.01	±0.009	A	3206-301A	
300-400	0.01	±0.011	B	3206-400	
400-500	0.01	±0.013	B	3206-500	
500-600	0.01	±0.014	B	3206-600	
600-700	0.01	±0.016	B	3206-700	
700-800	0.01	±0.018	B	3206-800	
800-900	0.01	±0.020	B	3206-900	
900-1000	0.01	±0.022	B	3206-1000	

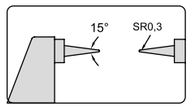
POINT MICROMETER - 3230

For Measuring Small Grooves & Keyways

- Supplied with setting standard (except 25mm)
- For measuring small grooves and key ways
- Graduation 0.01mm



Type A



Type B

Measuring Range mm	Type	Accuracy	ORDER CODE	
0-25	A	±0.004	3230-25A	
25-50	A	±0.004	3230-50A	
50-75	A	±0.005	3230-75A	
75-100	A	±0.005	3230-100A	
0-25	B	±0.004	3230-25BA	
25-50	B	±0.004	3230-50BA	
50-75	B	±0.005	3230-75BA	
75-100	B	±0.005	3230-100BA	

IP54 DIGITAL OUTSIDE MICROMETER - 3506

With Interchangeable Anvils

- Resolution 0.001mm/0.00005”
- IP54 dust/waterproof
- Button function: on/off, set, mm/inch, ABS/INC, data output
- Data output
- LR44 battery, automatic power off
- Carbide measuring faces
- Supplied with setting standards
- Optional accessory: data output cable (code 7302-SPC6)

IP54

Type A

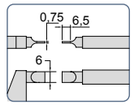
Type B

Measuring Range mm / inch	Graduation mm/inch	Accuracy	Type	ORDER CODE	
0-100 / 0-4"	0.001/0.0001"	±0.005	A	3506-100A	
0-150 / 0-6"	0.001/0.0001"	±0.006	A	3506-150A	
150-300 / 6-12"	0.001/0.0001"	±0.009	A	3506-300A	
200-300 / 8-12"	0.001/0.0001"	±0.009	A	3506-301A	
300-400 / 12-16"	0.001/0.0001"	±0.009	B	3506-400A	
400-500 / 16-20"	0.001/0.0001"	±0.011	B	3506-500A	
500-600 / 20-24"	0.001/0.0001"	±0.012	B	3506-600A	
600-700 / 24-28"	0.001/0.0001"	±0.013	B	3506-700A	
700-800 / 28-32"	0.001/0.0001"	±0.015	B	3506-800A	
800-900 / 32-36"	0.001/0.0001"	±0.016	B	3506-900A	
900-1000 / 36-40"	0.001/0.0001"	±0.017	B	3506-1000A	

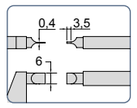
BLADE MICROMETER - 3232

For Measuring Groove Diameter or Shafts And Keyways

- Supplied with setting standard (except 25mm)
- For measuring groove diameter or shafts and keyways
- Graduation 0.01mm



Type A



Type B

Measuring Range mm	Type	Accuracy	ORDER CODE	
0-25	A	±0.004	3232-25A	
25-50	A	±0.004	3232-50A	
50-75	A	±0.005	3232-75A	
75-100	A	±0.005	3232-100A	
100-125	A	±0.006	3232-125A	
125-150	A	±0.006	3232-150A	
150-175	A	±0.007	3232-175A	
0-25	B	±0.004	3232-25BA	
25-50	B	±0.004	3232-50BA	

3-WIRES - 7382

For Use With Standard Outside Micrometers (6.35mm or 6.5mm Spindles)

- Used with standard outside micrometers with spindle 6.35mm or 6.50mm to measure pitch diameter of screw threads
- Diameter accuracy ±0.5
- Cylindricity: 1µm
- HRC60

For outside micrometers with spindle Ø6.35mm

Pin Gauge mm	ORDER CODE	
0.170	7382-11	
0.195	7382-12	
0.220	7382-13	
0.250	7382-14	
0.290	7382-15	
0.335	7382-16	
0.390	7382-17	
0.455	7382-18	
0.530	7382-19	
0.620	7382-110	
0.725	7382-111	
0.895	7382-112	
1.100	7382-113	
1.350	7382-114	
1.650	7382-115	
2.050	7382-116	
2.550	7382-117	
3.200	7382-118	
18 pairs/sets, including all above 3-wires	7382-1S	

For outside micrometers with spindle Ø6.50mm

Pin Gauge mm	ORDER CODE	
0.170	7382-21	
0.195	7382-22	
0.220	7382-23	
0.250	7382-24	
0.290	7382-25	
0.335	7382-26	
0.390	7382-27	
0.455	7382-28	
0.530	7382-29	
0.620	7382-210	
0.725	7382-211	
0.895	7382-212	
1.100	7382-213	
1.350	7382-214	
1.650	7382-215	
2.050	7382-216	
2.550	7382-217	
3.200	7382-218	
18 pairs/sets, including all above 3-wires		

GROOVE MICROMETERS - 3287

Measure Width Of Grooves Inside Bores

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

No ratchet stop

Two directional ratchet stop

MEASURING RANGE mm		ORDER CODE	
Outside A	Outside B		
No ratchet stop			
0-25	1.6-26.5	3287-25A	
25-50	26.5-51.5	3287-50A	
50-75	51.5-76.5	3287-75A	
75-100	76.5-101.5	3287-100A	

SHERICAL ANVIL TUBE MICROMETER - 3260

For Measuring Wall Thickness Of Tubes

- Measure wall thickness of tubes
- Graduation 0.01mm
- Ratchet stop
- Carbide measuring faces
- Supplied With Setting Standards (except 0-25mm)

Measuring Range mm	Type	Accuracy	ORDER CODE	
0-25	A	4	3260-25A	
20-50	A	4	3260-50A	
50-75	A	5	3260-75A	
75-100	A	5	3260-100A	
0-25	B	4	3260-25SA	
20-50	B	4	3260-50SA	
50-75	B	5	3260-75SA	
75-100	B	5	3260-100SA	

MICROMETER STAND - 6300

For Micrometers Up To 100mm

- Suitable for micrometers up to 100mm

ORDER CODE	
6300	

MICROMETER STAND - 6301

For Micrometers Up To 100mm

- Suitable for micrometers up to 100mm

ORDER CODE	
6301	

MICROMETER SETTING STANDARD

- Available in sizes up to 1950mm
- Please contact or view online for more information

Length	Accuracy	ORDER CODE	
25	1.5	6310-25	
50	2	6310-50	
75	2.5	6310-75	
100	3	6310-100	

MICROMETER HEAD - 6381

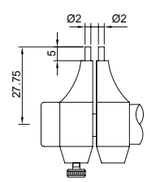
Ratchet Stop

Measuring Range mm	Accuracy	Stem	Spindle Dip	ORDER CODE	
0-25	3	With clamp nut	Flat	6381-25	
0-25	3	Plain	Flat	6381-25W	
0-25	3	With clamp nut	Spherical	6381-25S	
0-25	3	Plain	Spherical	6381-25WS	
0-25	3	With clamp nut	Flat	6381-25P	
0-25	3	Plain	Flat	6381-25WP	

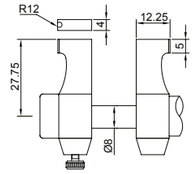
DIGITAL INSIDE MICROMETER - 3520

With Data Output

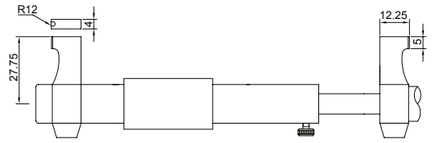
- Resolution 0.001mm/0.0005”
- Button function: on/off, set, mm/inch, ABS/INC
- Data output
- LR44 battery, automatic power off
- Ratchet stop
- Carbide measurring faces
- Optional accessory: data output cable, setting ring (code 6312)



Type A



Type B



Type C

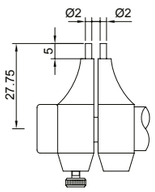
DATA OUTPUT

Measuring Range mm / inch	Resolution mm/inch	Accuracy	Type	ORDER CODE	
5-30 / 0.2-1.2”	0.001/0.00005	±0.005	A	3520-30	
25-50 / 1-2”	0.001/0.00005	±0.006	B	3520-50	
50-75 / 2-3”	0.001/0.00005	±0.007	B	3520-75	
75-100 / 3-4”	0.001/0.00005	±0.008	C	3520-100	

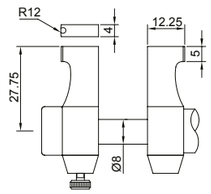
INSIDE MICROMETER - 3520

With Carbide Measuring Faces

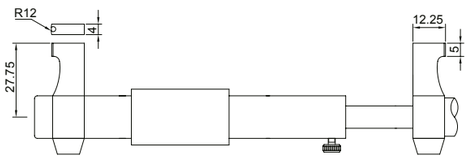
- Graduation: 0.01mm
- Carbide measuring faces
- Ratchet stop
- Optional accessory: setting ring (code 6312)



Type A



Type B



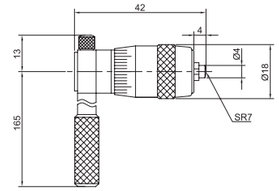
Type C

Measuring Range mm	Graduation mm	Accuracy	Type	ORDER CODE	
5-30	0.01	±0.005	A	3220-30	
25-50	0.01	±0.006	B	3220-50	
50-75	0.01	±0.007	B	3220-75	
75-100	0.01	±0.008	C	3220-100	

INSIDE MICROMETER - 3221

Tubular Type

- Graduation 0.01mm
- Optional accessory: setting ring (code 6312)

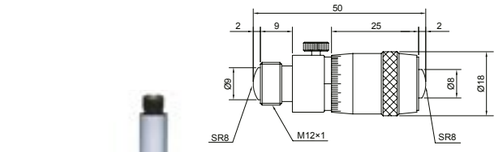


Measuring Range mm	Travel of Micrometer Head mm	Extension Rods	ORDER CODE	
25-32	7	-	3221-32	
25-50	7	2pcs	3221-50	
50-63	13	-	3221-63	
50-200	13	6pcs	3221-200	
50-300	13	10pcs	3221-300	
200-225	25	-	3221-225	
200-500	25	3pcs	3221-500	
200-1000	25	8pcs	3221-1000	

INSIDE MICROMETER - 3222

Tubular Type With Setting Standards

- Graduation: 0.01mm (micrometer head travel 13mm)
- Carbide measuring faces
- Supplied with setting standards

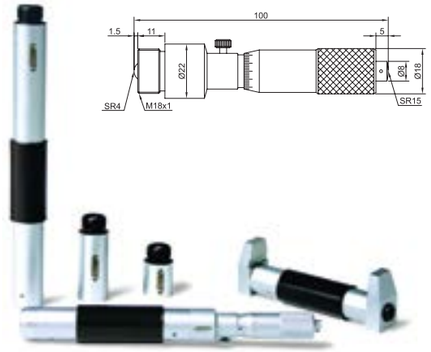


Measuring Range mm	Extension Rods mm	ORDER CODE	
50-63	-	3222-63	
50-150	13, 25, 50	3222-150	
50-300	13, 25, 50(2pcs), 100	3222-300	
50-500	13, 25, 50(2pcs), 100, 200	3222-500	
50-600	13, 25, 50, 100, 150, 200	3222-600	
50-1000	13, 25, 50(2pcs), 100, 200(2pcs), 300	3222-1000	
50-1500	13, 25, 50(2pcs), 100, 200(3pcs), 300(2pcs)	3222-1500	

INSIDE MICROMETER - 3225

Tubular Type With Setting Standards

- Graduation 0.01mm (micrometer head travel 25mm)
- Carbide measuring faces
- Supplied with setting standards

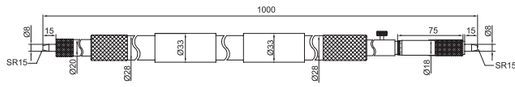


Measuring Range mm	Extension Rods mm	ORDER CODE	
100-125	-	3225-125	
100-500	25, 50, 100, 200	3225-500	
100-900	25, 50, 100, 200, 400	3225-900	
100-1300	25, 50, 100, 200, 400(2pcs)	3225-1300	
100-1700	25, 50, 100, 200, 400(3pcs)	3225-1700	
100-2100	25, 50, 100, 200, 400(4pcs)	3225-2100	

INSIDE MICROMETER - 3224

Tubular Type

- Graduation 0.01mm (micrometer head travel 50mm)
- Carbide measuring faces



Measuring Range mm	Extension Rods mm	ORDER CODE	
1000-2000	50, 100(2pcs), 200, 500	3224-2000	
1000-3000	50, 100(2pcs), 200, 500, 1000	3224-3000	
1000-4000	50, 100(2pcs), 200, 500, 1000(2pcs)	3224-4000	
1000-5000	50, 100(2pcs), 200, 500, 1000(3pcs)	3224-5000	

3 POINT INTERNAL BORE MICROMETER - 3227

For Measuring Internal Bores up to 300mm

- 6-12mm: Graduation: 0.001mm
  12-300mm: Graduation: 0.005mm
- Ratchet stop
- Supplied with setting ring (up to 100mm) and extension rods

Sets

Type B

Type C

Type D

Measuring Range mm	Type	Measuring Depth mm	SETTING RING* Ø mm	EXTENSION ROD* Mm	Accuracy	ORDER CODE	
6- 8	B	54.5	6	100	±0.004	3227-8	
8- 10	B	54.5	8	100	±0.004	3227-10	
10- 12	B	54.5	10	100	±0.004	3227-12	
12- 16	C	80	16	150	±0.004	3227-16	
16-20	C	80	16	150	±0.004	3227-20	
20-25	C	90	25	150	±0.004	3227-25	
25-30	C	90	25	150	±0.004	3227-30	
30-40	C	97	40	150	±0.004	3227-40	
40-50	C	97	40	150	±0.004	3227-50	
50-63	C	114	62	150	±0.005	3227-63	
62-75	C	114	62	150	±0.005	3227-75	
75-88	C	114	87	150	±0.005	3227-88	
87-100	C	114	87	150	±0.005	3227-100	
100-125	D	150	-	150	±0.005	3227-125	
125-150	D	150	-	150	±0.005	3227-150	
150-175	D	150	-	150	±0.005	3227-175	
175-200	D	150	-	150	±0.005	3227-200	
200-225	D	150	-	150	±0.005	3227-225	
225-250	D	150	-	150	±0.005	3227-250	
250-275	D	150	-	150	±0.005	3227-275	
275-300	D	150	-	150	±0.005	3227-300	

3 POINT INTERNAL BORE MICROMETER SETS

Measuring Range mm	Included Micrometers	Included Setting Ring Ø Mm	Included Extension Rod Mm	ORDER CODE	
6-12	6-8mm, 8-10mm, 10-12mm	6mm, 8mm, 10mm	100	3227-123	
12-20	12-16mm, 16-20mm	16mm	150	3227-202	
20-50	20-25mm, 25-30mm, 30-40mm, 40-50mm	25mm, 40mm	150	3227-504	
50-100	50-63mm, 62-75mm, 75-88mm, 87-100mm	62mm, 87mm	150	3227-1004	

IP54 DIGITAL 3 POINT INTERNAL BORE MICROMETER - 3127

For Measuring Internal Bores up to 300mm

- Resolution 0.001mm/0.00005
- IP54 waterproof
- Buttons: on/off, set, mm/inch, ABS/INC
- Data output
- SR44 or LR44 battery, automatic power off
- Ratchet stop
- Supplied with setting ring and extension rods
- Optional accessory: data output cable (code 7302-SPC6)

Sets

DATA OUTPUT IP54

Type B

Type C

Type D

Measuring Range mm / inch	Type	Measuring Depth Mm	SETTING RING* Ø Mm	EXTENSION ROD* Mm	Resolution mm/inch	Accuracy	ORDER CODE	
6- 8 / 0.25 - 0.3125"	B	54.5	6	100	0.001 / .00005"	±0.004	3127-8	
8- 10 / 0.3125 - 0.4"	B	54.5	8	100	0.001 / .00005"	±0.004	3127-10	
10- 12 / 0.4 - 0.4725"	B	54.5	10	100	0.001 / .00005"	±0.004	3127-12	
12- 16 / 0.4725 - 0.625"	C	80	16	150	0.001 / .00005"	±0.004	3127-16	
16-20 / 0.625 - 0.775"	C	80	16	150	0.001 / .00005"	±0.004	3127-20	
20-25 / 0.775 - 1"	C	90	25	150	0.001 / .00005"	±0.004	3127-25	
25-30 / 1 - 1.2"	C	90	25	150	0.001 / .00005"	±0.004	3127-30	
30-40 / 1.2 - 1.6"	C	97	40	150	0.001 / .00005"	±0.004	3127-40	
40-50 / 1.6 - 2"	C	97	40	150	0.001 / .00005"	±0.004	3127-50	
50-63 / 1.97-2.48"	C	114	62	150	0.001 / .00005"	±0.005	3127-63	
62-75 / 2,44-2,95"	C	114	62	150	0.001 / .00005"	±0.005	3127-75	
75-88 / 2,95-3,46"	C	114	87	150	0.001 / .00005"	±0.005	3127-88	
87-100 / 3,43-3,94"	C	114	87	150	0.001 / .00005"	±0.005	3127-100	
100-125 / 3,94-4,92"	D	150	-	150	0.001 / .00005"	±0.005	3127-125	
125-150 / 4,92-5,91"	D	150	-	150	0.001 / .00005"	±0.005	3127-150	
87-100 / 3,43-3,94"	D	150	-	150	0.001 / .00005"	±0.005	3127-175	
100-125 / 3,94-4,92"	D	150	-	150	0.001 / .00005"	±0.005	3127-200	
125-150 / 4,92-5,91"	D	150	-	150	0.001 / .00005"	±0.005	3127-225	
225-250 / 8.86-9.84"	D	150	-	150	0.001 / .00005"	±0.005	3127-250	
250-275 / 9.84-10.83"	D	150	-	150	0.001 / .00005"	±0.005	3127-275	
275-300 / 10.83-11.81"	D	150	-	150	0.001 / .00005"	±0.005	3127-300	

DIGITAL 3 POINT INTERNAL BORE MICROMETER SETS

Measuring Range mm	INCLUDED MICROMETERS	Included Setting Ring Ø mm	Included Extension Rod mm	ORDER CODE	
6-12	6-8mm, 8-10mm, 10-12mm	6mm, 8mm, 10mm	100	3127-123	
12-20	12-16mm, 16-20mm	16mm	150	3127-202	
20-50	20-25mm, 25-30mm, 30-40mm, 40-50mm	25mm, 40mm	150	3127-504	
50-100	50-63mm, 62-75mm, 75-88mm, 87-100mm	62mm, 87mm	150	3127-1004	

3 POINT BORE MICROMETER - 3228

Internal 50-300mm Range

- Graduation 0.001mm
- Carbide measuring faces
- Ratchet stop
- Supplied with setting rings

Measuring Range mm	Setting Ring Ø mm	Accuracy	ORDER CODE	
50-70	50	±0.005	3228-70	
70-100	70	±0.005	3228-100	
100-150	100	±0.006	3228-150	
150-250	150	±0.008	3228-250	
200-300	-	±0.009	3228-300	

3 POINT BORE MICROMETER - 3128

Internal 50-300mm Range

- Resolution 0.001mm/0.00005”
- IP54 waterproof
- Button function: on/off, set, mm/inch, ABS/INC
- Data output
- SR44 or LR44 battery, automatic power off
- Carbide measuring faces
- Ratchet stop
- Supplied with extension rods and setting rings
- Optional accessory: data output cable (code 7302-SPC6)

DATA OUTPUT

Measuring Range mm	Setting Ring Ø mm	Accuracy	ORDER CODE	
50-70	50	±0.005	3128-70	
70-100	70	±0.005	3128-100	
100-150	100	±0.006	3128-150	
150-250	150	±0.008	3128-250	
200-300	-	±0.009	3128-300	

SETTING RING

Plain Ring Gauge

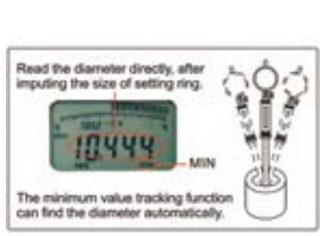
- Cylindricity 0.001-0.002.
- Tolerance ±0.01mm
- Hardness HRC 60 +/-2.

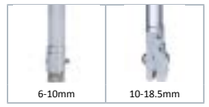
Dia	ORDER CODE		Dia	ORDER CODE		Dia	ORDER CODE		Dia	ORDER CODE	
1.5	6312-1D5		15	6312-15		28.5	6312-28D5		65	6312-65	
2	6312-2		15.5	6312-15D5		29	6312-29		70	6312-70	
2.5	6312-2D5		16	6312-16		29.5	6312-29D5		75	6312-75	
3	6312-3		16.5	6312-16D5		30	6312-30		80	6312-80	
3.5	6312-3D5		17	6312-17		31	6312-31		85	6312-85	
4	6312-4		17.5	6312-17D5		32	6312-32		87	6312-87	
4.5	6312-4D5		18	6312-18		33	6312-33		90	6312-90	
5	6312-5		18.5	6312-18D5		34	6312-34		95	6312-95	
5.5	6312-5D5		19	6312-19		35	6312-35		100	6312-100	
6	6312-6		19.5	6312-19D5		36	6312-36		112.5	6312-112D5	
6.5	6312-6D5		20	6312-20		37	6312-37		125	6312-125	
7	6312-7		20.5	6312-20D5		38	6312-38		137.5	6312-137D5	
7.5	6312-7D5		21	6312-21		39	6312-39		150	6312-150	
8	6312-8		21.5	6312-21D5		40	6312-40		162.5	6312-162D5	
8.5	6312-8D5		22	6312-22		41	6312-41		175	6312-175	
9	6312-9		22.5	6312-22D5		42	6312-42		187.5	6312-187D5	
9.5	6312-9D5		23	6312-23		43	6312-43		200	6312-200	
10	6312-10		23.5	6312-23D5		44	6312-44		212.5	6312-212D5	
10.5	6312-10D5		24	6312-24		45	6312-45		225	6312-225	
11	6312-11		24.5	6312-24D5		46	6312-46		237.5	6312-237D5	
11.5	6312-11D5		25	6312-25		47	6312-47		250	6312-250	
12	6312-12		25.5	6312-25D5		48	6312-48		262.5	6312-262D5	
12.5	6312-12D5		26	6312-26		49	6312-49		275	6312-275	
13	6312-13		26.5	6312-26D5		50	6312-50		287.5	6312-287D5	
13.5	6312-13D5		27	6312-27		55	6312-55		300	6312-300	
14	6312-14		27.5	6312-27D5		60	6312-60				
14.5	6312-14D5		28	6312-28		62	6312-62				

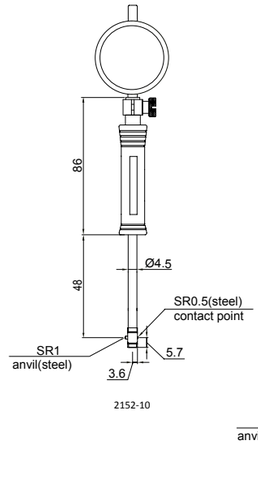
DIGITAL BORE GAUGE - 2152

For Small Holes (6-18.5mm), Includes Indicator

- Ceramic/steel contact points
- Data output
- Repeatability 0.003mm
- Accuracy: +/-0.012mm
- Optional accessory: setting ring (6312)





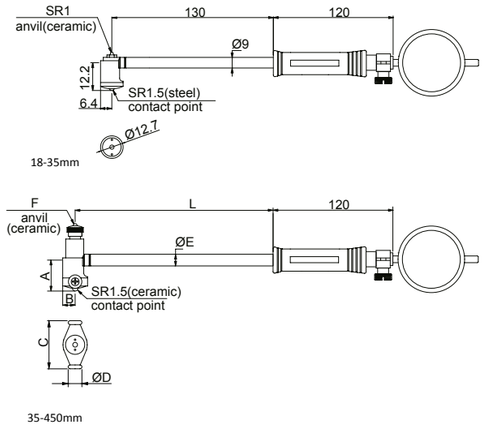


Measuring Range mm	Indicator Range mm (inch)	Indicator Resolution mm (inch)	ORDER CODE	
6-10	0-12.7 (0-0.5")	0.002 (0.0001")	2152-10	
10-18.5			2152-18	

DIGITAL BORE GAUGE - 2122

18-450mm, Includes Indicator

- Ceramic/steel contact points
- Repeatability 0.003mm
- Optional accessory: setting ring (6312), long handle (code 7351)

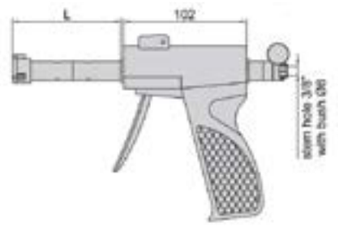


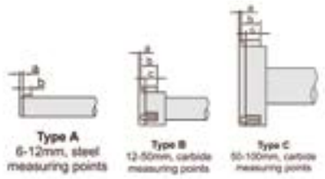
Measuring Range mm	Indicator Range mm (inch)	Indicator Resolution mm (inch)	Accuracy mm	A	B	C	ØD	ØE	F	L	ORDER CODE	
18-35	0-12.7 (0-0.5")	0.002 (0.0001")	±0.015	12.2	6.4	-	-	9	SR1	141	2122-35A	
35-60			±0.018	22	9	27	13	12.8	SR2	141	2122-60A	
50-100			±0.018	26	9	27	13	12.8	SR2	141	2122-100A	
50-160			±0.018	26	9	35	13	12.8	SR2	141	2122-160A	
100-160			±0.018	26	9	35	13	12.8	SR2	141	2122-161A	
160-250			±0.018	56.5	13	74.5	15	12.8	SR2	241	2122-250A	
250-450			±0.018	86.5	15	101.5	15	14.5	SR2.5	241	2122-450A	

PISTOL GRIP THREE POINTS BORE GAUGE - 2142

Digital Indicator Type

- Steel measuring points
- Extension rod included
- Setting ring included
- Optional accessory: digital indicator (code 2108-101F)





Range	Type	Accuracy	Setting Ring	Extension Rod	L	a	b	c	ORDER CODE	
Individual										
6-8mm	A	4	6mm	100mm	50	1.5	2.5	-	2124-8	
8-10mm	A	4	8mm	100mm	50	1.5	2.5	-	2124-10	
10-12mm	A	4	10mm	100mm	50	1.5	2.5	-	2124-12	
12-16mm	B	4	16mm	150mm	65	0.5	6	4.5	2124-16	
16-20mm	B	4	16mm	150mm	65	0.5	6	4.5	2124-20	
20-25mm	B	4	25mm	150mm	91	0.5	8	6	2124-25	
25-30mm	B	4	25mm	150mm	91	0.5	8	6	2124-30	
30-40mm	B	4	40mm	150mm	97	0.5	14	12	2124-40	
40-50mm	B	5	40mm	150mm	97	0.5	14	12	2124-50	
50-63mm	C	5	62mm	150mm	112	0.5	17.5	14.5	2124-63	
62-75mm	C	5	62mm	150mm	112	0.5	17.5	14.5	2124-75	
75-88mm	C	5	87mm	150mm	112	0.5	17.5	14.5	2124-88	
87-100mm	C	5	87mm	150mm	112	0.5	17.5	14.5	2124-100	

Range	Heads	Setting Ring	Extension Rod	ORDER CODE	
Set					
6-12mm	6-8mm, 8-10mm, 10-12mm	6mm, 8mm, 10mm	100mm	2124-S123	
12-20mm	12-16mm, 16-20mm	16mm	150mm	2124-S202	
50-50mm	20-25mm, 25-30mm, 30-40mm, 40-50mm	25mm, 40mm	150mm	2124-S504	
50-100mm	50-63mm, 62-75mm, 75-88mm, 87-100mm	62mm, 87mm	150mm	2124-S1004	

BORE GAUGE SETS - 2724 / 2842

Available in 35-160mm or 18-160mm options

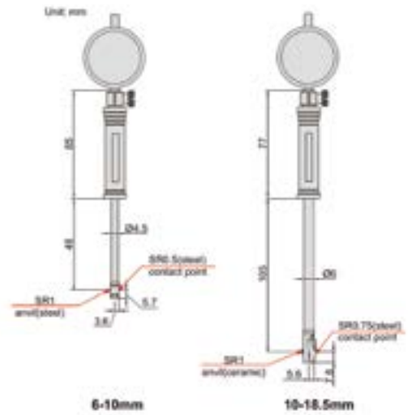
- Repeatability 0.003mm
- Accuracy: +/-0.018mm
- Optional accessory: setting ring (6312), long handle (code 7351)

Measuring Range	Indicator	Bore Gauges (Included)	Accuracy	ORDER CODE	
35-160mm	dial indicator, code 2308-10FA, range 10mm graduation 0.01mm	35-50mm (dial indicator and handle are optional) 50-160mm	35-50mm 0.018mm 50-160mm 0.018mm	2824-S160	
18-160mm	dial indicator, code 2308-10FA, range 10mm, graduation 0.01mm	18-35mm 25-60mm (dial indicator optional) 50-160mm (dial indicator optional)	18-35mm 0.015mm 35-60mm 0.018mm 50-160mm 0.018mm	2824-S3	
35-160mm	digital indicator, code 2108-10FA, range 12.7mm/0.5", resolution 0.01mm/0.0005" (can switch to 0.002mm/0.0001")	35-50mm (digital indicator and handle are optional) 50-160mm	35-50mm 0.018mm 50-160mm 0.018mm	2724-S160	
18-160mm	digital indicator, code 2108-10F, range 12.7mm/0.5", resolution 0.01mm/0.0005" (can switch to 0.002mm/0.0001")	18-35mm 35-60mm (digital indicator optional) 50-160mm (digital indicator optional)	18-35mm 0.015mm 35-60mm 0.018mm 50-160mm 0.018mm	2724-S3	

DIAL BORE GAUGE - 2852

For Small Holes (6-18.5mm), Includes Indicator

- Ceramic/steel contact points
- Repeatability 0.003mm
- Accuracy: +/-0.012mm
- Optional accessory: setting ring (6312)

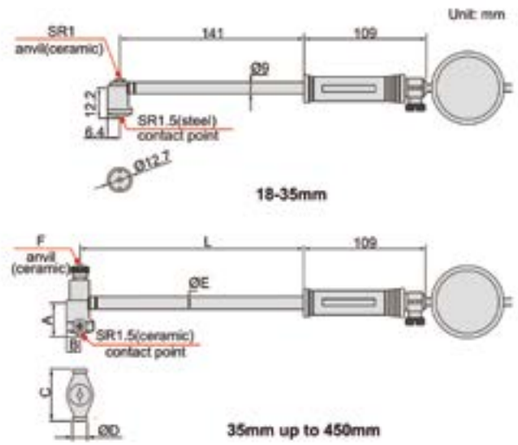


Measuring Range mm	Indicator	Accuracy	ORDER CODE	
6-10mm	dial indicator, range 3mm, graduation 0.01mm (code 2311-3F	0.012mm	2852-10	
10-18.5mm		0.012mm	2852-18	

DIAL BORE GAUGE - 2322

18-450mm, Includes Indicator

- Ceramic/steel contact points
- Repeatability 0.003mm
- Accuracy: +/-0.018mm
- Optional accessory: setting ring (6312), long handle (code 7351)



Measuring Range mm	Indicator Range mm (inch)	Indicator Resolution mm (inch)	Accuracy mm	A	B	C	ØD	ØE	F	L	ORDER CODE	
18-35	0-12.7 (0-0.5")	0.002 (0.0001")	±0.015	12.2	6.4	-	-	9	SR1	141	2322-35A	
35-60			±0.018	22	9	27	13	12.8	SR2	141	2322-60A	
50-100			±0.018	26	9	27	13	12.8	SR2	141	2322-100A	
50-160			±0.018	26	9	35	13	12.8	SR2	141	2322-160A	
100-160			±0.018	26	9	35	13	12.8	SR2	141	2322-161A	
160-250			±0.018	56.5	13	74.5	15	12.8	SR2	241	2322-250A	
250-450			±0.018	86.5	15	101.5	15	14.5	SR2.5	241	2322-450A	

IP65 DIGITAL DEPTH MICROMETERS - 3540

IP65 Waterproof & Dustproof

- Resolution: 0.001mm/0.00005”
- Micrometer head accuracy: +/-3µm
- Rod accuracy: +/-(2+L/75)
- Button function: on/off, set, mm/inch, ABS/INC
- IP54 dust/waterproof
- Data output
- LR44 battery, automatic power off
- Rods with flat end
- Ratchet stop

DATA OUTPUT IP65

Measuring Range mm / inch	Rods	ORDER CODE	
0-50mm / 0-2”	2pcs	3540-50	
0-150mm / 0-6”	6pcs	3540-150	
0-300mm / 0-12”	12pcs	3540-300	

DEPTH MICROMETERS - 3241

With Ratchet Stop

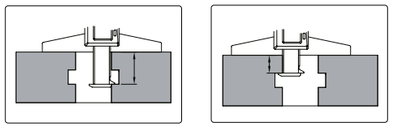
- Graduation: 0.01mm
- Rods with flat end
- Ratchet stop

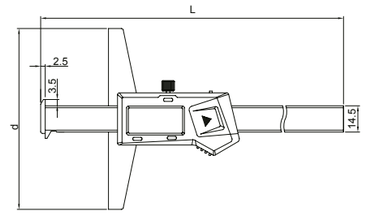
Measuring Range mm	Rods	ORDER CODE	
0-25	1pc	3241-25	
0-50	2pcs	3241-50	
0-100	4pcs	3241-100	
0-150	6pcs	3241-150	
0-300	12pcs	3241-300	

DIGITAL DEPTH GAUGE - 1144

Double Hook Type

- Buttons: on/off, zero, mm/inch
- Automatic power off (move digital unit to turn on)
- Battery CR2032
- Data output
- Made from Stainless steel
- Optional accessory: data output cable





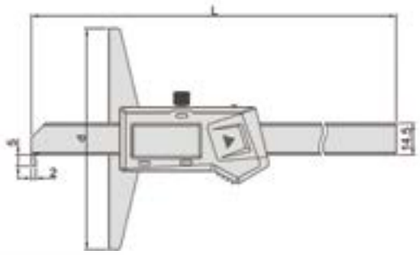
DATA OUTPUT

Measuring Range mm / inch	Resolution mm/inch	Accuracy	L	d	ORDER CODE	
150 / 6"	0.01 / .0005”	±0.03	233	100	1144-150A	
200 / 8"	0.01 / .0005”	±0.03	283	100	1144-200A	
300 / 12"	0.01 / .0005”	±0.04	383	150	1144-300A	

DIGITAL HOOK DEPTH GAUGE - 1142

With Data Output

- Resolution 0.01mm/0.0005”
- Buttons: on/off, zero, mm/inch
- Automatic power off (move digital unit to turn on)
- Battery CR2032
- Data output
- Made from Stainless steel
- Optional accessory: data output cable



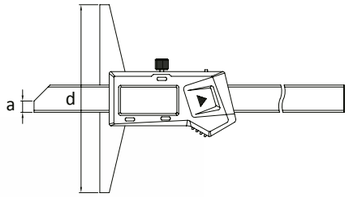
DATA OUTPUT

Measuring Range mm / inch	Accuracy	L	d	ORDER CODE	
0-150mm / 0-6”	±0.03mm	230mm	100mm	1142 - 150A	
0-200mm/0-8”	±0.03mm	280mm	100mm	1142 - 200A	

IP67 DIGITAL DEPTH GAUGE - 1149

IP67 Waterproof & Dustproof

- Resolution 0.01mm/0.0005"
- Buttons: on/off, zero, mm/inch, ABS/REL, hold
- Automatic power off (move digital unit to turn on)
- Battery CR2032
- Made from Stainless steel



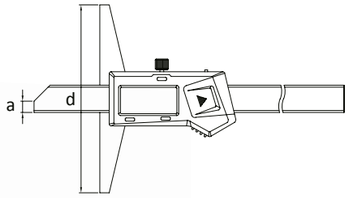
IP67

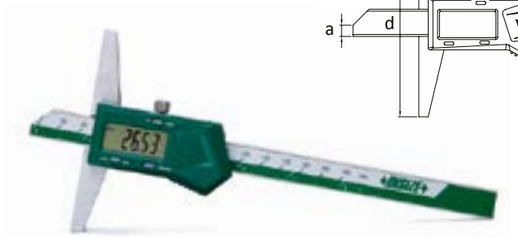
Measuring Range mm / inch	Resolution mm/inch	Accuracy	d	a	ORDER CODE	
150 / 6"	0.01 / .0005"	±0.03	100	6	1149-150	
200 / 8"	0.01 / .0005"	±0.03	100	6	1149-200	
300 / 12"	0.01 / .0005"	±0.04	150	6	1149-300	

DIGITAL DEPTH GAUGE - 1141

With Data Output

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





DATA OUTPUT

Measuring Range mm / inch	Resolution mm/inch	Accuracy	d	a	ORDER CODE	
150 / 6"	0.01 / .0005"	±0.03	100	6	1141-150A	
200 / 8"	0.01 / .0005"	±0.03	100	6	1141-200A	
300 / 12"	0.01 / .0005"	±0.04	150	6	1141-300A	

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DIAL DEPTH GAUGE - 2342

With Stainless Steel Base

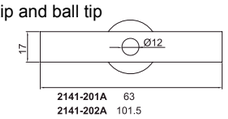
- Indicator stroke 30mm
- Graduation: 0.01mm
- Stainless steel base
- Extension rods: 25mm(1pc), 50mm(1pc), 75mm(1pc), 100mm(2pcs)
- Supplied with pointed tip and ball tip

Measuring Range mm	Base	ORDER CODE	
0-300	101.5 x 17mm	2342 -202	

DIGITAL DEPTH GAUGE - 2141

With Stainless Steel Base

- Mode: to track the minimum or maximum reading
- Digital indicator stroke: 25.4mm/1"
- Resolution 0.01mm/0.0005"
- Buttons: on/off, zero, mm/inch, ABS, data preset, change measuring direction
- Automatic power off
- Battery CR2032
- Stainless steel base
- Extension rods: 12.5mm (1pc), 25mm (1pc), 50mm(1pc), 75mm(1pc), 100mm(2pcs)
- Supplied with pointed tip and ball tip



2141-201A 63
2141-202A 101.5

Measuring Range mm / inch	Resolution mm/inch	Accuracy	Stroke mm / inch	ORDER CODE	
300 / 12"	0.01 / .0005"	±0.02	12.7 / 0.5"	2141-201A	
300 / 12"	0.01 / .0005"	±0.02	12.7 / 0.5"	2141-202A	

BOWERS
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Bore Gauges
MADE IN UK
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DIGITAL HEAVY DUTY HEIGHT GAUGE - 1156

With Driving Wheel

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

DATA OUTPUT

Measuring Range mm / inch	Accuracy	ORDER CODE	
0-300 / 0-12”	±0.03mm	1156-300	
0-600 / 0-25”	±0.05mm	1156-600	
0-1000 / 0-40”	±0.07mm	1156-1000	

SINGLE COLUMN DIGITAL HEIGHT GAUGE/SCRIBER - 1150

With Carbide Tipped Scriber

- Resolution: 0.01mm/0.0005"
- Functions: on/off, zero, mm/inch, ABS/INC, data hold, TOL, set
- Carbide tipped scriber
- SR44 or LR44 battery
- Data output via USB
- Supplied with clamp

DATA OUTPUT

Measuring Range mm / inch	Accuracy	ORDER CODE	
0-300 / 0-12”	±0.04mm	1150-300	
0-500 / 0-20”	±0.05mm	1150-500	
0-600 / 0-24”	±0.05mm	1150-600	
0-1000 / 0-40”	±0.07mm	1150-1000	

MEASURING & GAUGING
HEIGHT GAUGES

DOUBLE COLUMN DIGITAL HEIGHT GAUGE - 1151

With Driving Wheel

- Resolution 0.01mm/0.0005”
- Buttons: on/off, zero, mm/inch, ABS/INC, preset +/-, set
- ABS is for absolute and incremental measurements
- Carbide tipped scriber
- Made of stainless steel (except base)
- Battery LR44
- Data output
- Supplied with dial test indicator holder
- Optional accessory: data output cable

DATA OUTPUT

Measuring Range mm / inch	Accuracy	ORDER CODE	
0-300 / 0-12”	±0.04mm	1151-300	
0-500 / 0-20”	±0.05mm	1151-450	
0-600 / 0-24”	±0.05mm	1151-600	

DOUBLE COLUMN DIAL HEIGHT GAUGE - 1351

With Driving Wheel

- 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
- With driving wheel

Measuring Range mm	Accuracy	ORDER CODE	
0-300	±0.04mm	1351-300	
0-450	±0.05mm	1351-450	
0-600	±0.05mm	1351-600	

DIGITAL INDICATOR - 2114
Compact Type

- Compact design (Ø42mm)
- Resolution 0.01mm/0.0005”
- Hysteresis 0.001mm
- Accuracy 0.02mm
- Buttons: on/off, mm/inch, zero, ABS/INC
- Keeps preset data and tolerance data in memory after restart
- CR1632 battery, auto power off
- Data output
- Flat back
- Optional accessory: dat output cable (code 7302-SPC3A), contact points

DATA OUTPUT

Measuring Range mm/inch	Resolution	ORDER CODE	
5mm/0.2”	0.01mm/0.0005”	2114-5F	

DIGITAL INDICATOR - 2113
No Auto Power Off

- Buttons: on/off, mm/inch, zero
- CR2032 battery, NO auto power off
- Data output
- Flat back
- Hysteresis
  - 10 (2113-10F)
  - 2 (2113-101F)
- Optional accessory: data output cable (code 7302-SPC3A), contact points

DATA OUTPUT

Measuring Range mm/inch	Resolution	Accuracy	ORDER CODE	
12.7mm / 0.5”	0.01mm/0.0005”	20µm	2113-10F	
12.7mm / 0.5”	0.001mm/0.00005”	5µm	2113-101F	

BORE GAUGE INDICATOR - 2108
For Bore Gauges

- Specially designed for bore gauges
- Minimum value tracking function can find diameter automatically
- Resolution 0.002mm/0.0001”
- Hysteresis 0.001mm
- Accuracy 0.02mm
- Buttons: on/off, minimum value tracking, data preset, mm/inch, zero
- Display can be rotated 320°
- Keeps preset data and tolerance data in memory after restart
- CR2032 battery, auto power off
- Data output
- Optional accessory: data output cable (code 7302-SPC3A), contact points

DATA OUTPUT

Measuring Range mm/inch	Resolution	ORDER CODE	
12.7mm/0.5”	0.002mm/0.001”	2108-10F	

DIGITAL INDICATOR - 2118
320° Rotatable Display

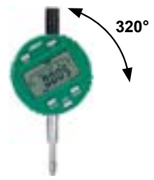
- Resolution 0.01mm/0.0005”
- Buttons: on/off, mm/inch, zero, ABS/INC
- Hysteresis 0.001mm
- Accuracy 0.02mm
- Keeps preset data and tolerance data in memory after restart
- CR1632 battery, auto power off
- Flat back
- Optional accessory: data output cable (code 7302-SPC3A), contact points

Measuring Range mm/inch	Resolution	ORDER CODE	
12.7mm/0.5”	0.01mm/0.005”	2118-10	

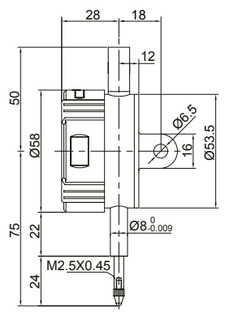
MEASURING & GAUGING
INDICATORS

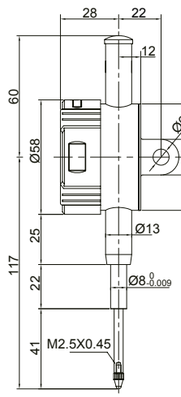
ADVANCED DIGITAL INDICATOR - 2103 / 2104
With Analogue Display For Dynamic Measurements

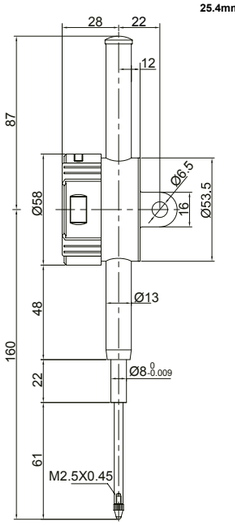
- Resolution 0.001mm/0.00005”
- Reading in digital and analog
- Buttons: tolerance Go/No-Go display, data preset, measuring direction change, mm/inch, zero, ABS/INC
- Keeps preset data and tolerance data in memory after restart
- CR2032 battery, auto power off
- Data output
- Optional accessory: data output cable code 7302-SPC3A), contact points



Display can be rotated by 320°







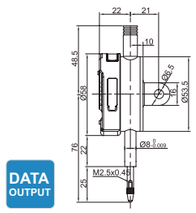
DATA OUTPUT

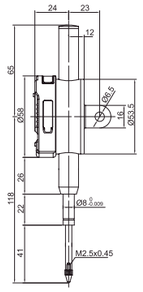
Measuring Range mm/inch	Resolution mm	Resolution inch	Accuracy	Note	ORDER CODE	
12.7 (.5")	0.001	.00005"	5µm	Lug Back	2103-10	
25.4 (1")	0.001	.00005"	5µm	Lug Back	2103-25	
50.8 (2")	0.001	.00005"	6µm	Lug Back	2103-50	
12.7 (.5")	0.001	.00005"	5µm	Flat Back	2103-10F	
25.4 (1")	0.001	.00005"	5µm	Flat Back	2103-25F	
50.8 (2")	0.001	.00005"	6µm	Flat Back	2103-50F	
12.7 (.5")	0.01	.0005"	20µm	Lug Back	2104-10	
25.4 (1")	0.01	.0005"	20µm	Lug Back	2104-25	
50.8 (2")	0.01	.0005"	30µm	Lug Back	2104-50	
12.7 (.5")	0.01	.0005"	20µm	Flat Back	2104-10F	
25.4 (1")	0.01	.0005"	20µm	Flat Back	2104-25F	
50.8 (2")	0.01	.0005"	30µm	Flat Back	2104-50F	

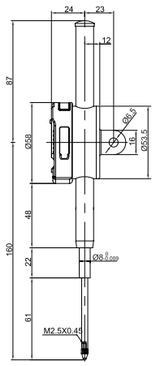
STANDARD DIGITAL INDICATOR - 2112

With Data Output

- Buttons: on/off, mm/inch, zero, preset, data preset, change direction, abs/inc measurement
- CR2032 battery, auto power off
- Data output
- Optional accessory: data output cable (code 7302-SPC3A), contact points







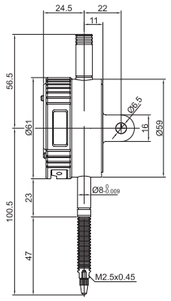
DATA OUTPUT

Measuring Range mm (inch)	Resolution mm	Resolution inch	Accuracy	BACK Type	ORDER CODE	
12.7 (.5")	0.001	.00005"	5µm	Lug Back	2112-101	
25.4 (1")	0.001	.00005"	5µm	Lug Back	2112-251	
50.8 (2")	0.001	.00005"	6µm	Lug Back	2112-501	
12.7 (.5")	0.001	.00005"	5µm	Flat Back	2112-101F	
25.4 (1")	0.001	.00005"	5µm	Flat Back	2112-251F	
50.8 (2")	0.001	.00005"	6µm	Flat Back	2112-501F	
12.7 (.5")	0.01	.0005"	20µm	Lug Back	2112-10	
25.4 (1")	0.01	.0005"	20µm	Lug Back	2112-25	
50.8 (2")	0.01	.0005"	30µm	Lug Back	2112-50	
12.7 (.5")	0.01	.0005"	20µm	Flat Back	2112-10F	
25.4 (1")	0.01	.0005"	20µm	Flat Back	2112-25F	
50.8 (2")	0.01	.0005"	30µm	Flat Back	2112-50F	

IP65/IP54 WATERPROOF DIGITAL INDICATOR - 2115

With Data Output

- IP65 or IP54 Dust/waterproof
- Buttons: on/off, mm/inch, zero, preset, data preset, change direction, abs/inc measurement, MAX/MIN/TIR, tolerance
- CR2032 battery, auto power off
- Data output
- Optional accessory: data output cable (code 7302-SPC3A), contact points



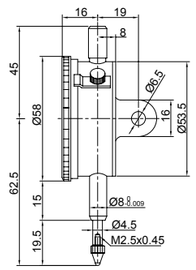
DATA OUTPUT IP65 IP54

Measuring Range mm (inch)	Resolution mm	Resolution inch	Accuracy	Back Type	IP Rating	ORDER CODE	
12.7 (.5")	0.001	.00005"	5µm	Lug Back	IP65	2115-101	
25.4 (1")	0.001	.00005"	5µm	Lug Back	IP54	2115-251	
12.7 (.5")	0.001	.00005"	5µm	Flat Back	IP65	2115-101F	
25.4 (1")	0.001	.00005"	5µm	Flat Back	IP54	2115-251F	
12.7 (.5")	0.01	.0005"	20µm	Lug Back	IP65	2115-10	
25.4 (1")	0.01	.0005"	20µm	Lug Back	IP54	2115-25	
12.7 (.5")	0.01	.0005"	20µm	Flat Back	IP65	2115-10F	
25.4 (1")	0.01	.0005"	20µm	Flat Back	IP54	2115-25F	

PRECISION DIAL INDICATOR - 2313

Supplied With Limit Pointers And Bezel Clamp

- Graduation 0.001mm
- Dial reading 0-100-0
- Jeweled bearing
- Supplied with limit pointers and bezel clamp

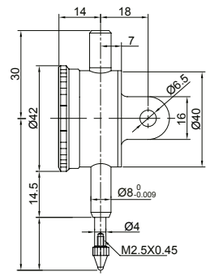


Measuring Range mm	Accuracy µm	HYSTERESIS µm	Range/Rev mm	DIAL READING	BACK Type	ORDER CODE	
1	5	2	0.2	0-100-0	Flat Back	2313-1FA	
2	6	2.5	0.2	0-100-0	Flat Back	2313-2FA	
1	5	2	0.2	0-100-0	Lug Back	2313-1A	
2	6	2.5	0.2	0-100-0	Lug Back	2313-2A	

COMPACT DIAL INDICATOR - 2311

Supplied With Limit Pointers

- Graduation 0.01mm
- Dial reading 0-50
- Jeweled bearing
- Supplied with limit pointers
- Ø42mm dial

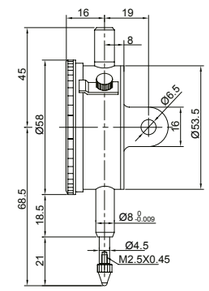


Measuring Range mm	Accuracy µm	HYSTERESIS µm	Range/Rev mm	DIAL READING	BACK Type	ORDER CODE	
3	12	3	0.5	0-50	Lug Back	2311-3	
5	14	3	0.5	0-50	Lug Back	2311-5	
3	12	3	0.5	0-50	Flat Back	2311-3F	
5	14	3	0.5	0-50	Flat Back	2311-5F	

STANDARD DIAL INDICATOR - 2308

Supplied With Limit Pointers and Bezel Clamp

- Graduation 0.01mm
- Jewelled bearing
- Supplied with limit pointers and bezel clamp

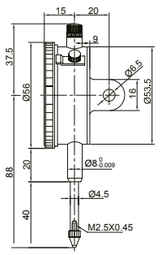


Measuring Range mm	Accuracy µm	HYSTERESIS µm	Range/Rev mm	DIAL READING	Back Type	ORDER CODE	
3	12	3	1	0-100	Lug Back	2308-3A	
5	14	3	1	0-100	Lug Back	2308-5A	
10	17	3	1	0-100	Lug Back	2308-10A	
3	12	3	1	0-100	Flat Back	2308-3FA	
5	14	3	1	0-100	Flat Back	2308-5FA	
10	17	3	1	0-100	Flat Back	2308-10FA	

LONG STROKE DIAL INDICATOR - 2310

Supplied With Limit Pointers And Bezel Clamp

- Graduation 0.01mm.
- Long stroke length.
- Supplied with limit pointers and bezel clamp.

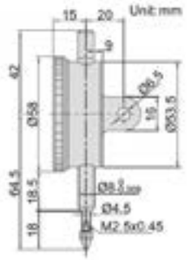


Measuring Range mm	Accuracy µm	Hysteresis µm	Range/Rev mm	Dial Reading	Back Type	ORDER CODE	
20	25	5	1	0-100	Lug Back	2310-20A	
30	35	7	1	0-100	Lug Back	2310-30A	
20	25	5	1	0-100	Flat Back	2310-20FA	
30	35	7	1	0-100	Flat Back	2310-30FA	

ONE REVOLUTION DIAL INDICATOR - 2316

Supplied With Limit Pointers

- Graduation 0.01mm
- Eliminate possibility of reading errors
- Shockproof
- Lug back
- Supplied with limit pointers

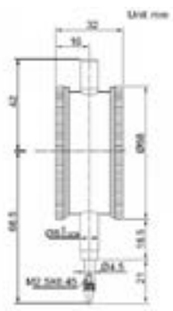


Measuring Range mm	Accuracy µm	Hysteresis µm	Dial Reading	Back Type	ORDER CODE	
0.5	9	3	25-0-25	Lug Back	2316-05F	
1	9	3	50-0-50	Lug Back	2316-1F	

DOUBLE FACE DIAL INDICATOR - 2328

Supplied With Limit Pointers

- Read both sides
- Graduation 0.01mm
- Jeweled bearing
- Supplied with limit pointers



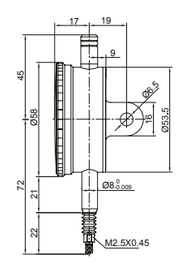
Measuring Range mm	Accuracy µm	Hysteresis µm	Range/Rev mm	Dial Reading	Back Type	ORDER CODE	
10	17	3	1	0-100	Double	2328-10	

WATERPROOF DIAL INDICATOR - 2324

IP54 Dust/Waterproof

- Graduation 0.01mm
- IP54 dust/waterproof
- Jeweled bearing
- Supplied with limit pointers

IP54

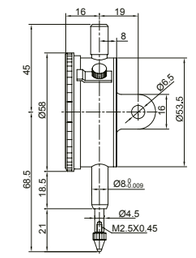


Measuring Range mm	Accuracy µm	Hysteresis µm	Range/Rev mm	Dial Reading	Back Type	ORDER CODE	
10	17	3	1	0-100	Lug Back	2324-10	
10	17	3	1	0-100	Flat Back	2324-10F	

SHOCKPROOF DIAL INDICATOR - 2314

Supplied With Limit Hands And Bezel Clamp

- Graduation 0.01mm
- Shockproof
- Supplied with limit hands and bezel clamp
- Jewelled bearing



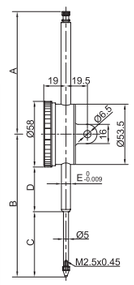
Measuring Range mm	Accuracy µm	Hysteresis µm	Range/Rev mm	Dial Reading	Back Type	ORDER CODE	
10	20	3	1	0-100	Lug Back	2314-10A	
10	20	3	1	0-100	Flat Back	2314-10FA	

EXTRA LONG STROKE DIAL INDICATOR - 2309

Shockproof, Supplied With Limit Hands

- Graduation 0.01mm
- Shockproof
- Supplied with limit hands

*with spare lug

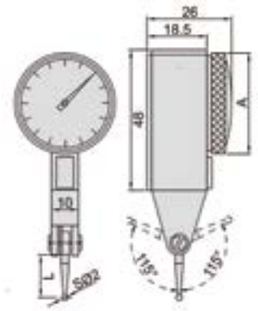


Measuring Range mm	Accuracy µm	HYSTERESIS µm	Range/Rev mm	Dial Reading	Back Type	ORDER CODE	
30	35	7	1	0-100	Lug Back	2309-30	
30	35	7	1	0-100	Flat Back	2309-30F	
50	40	8	1	0-100	Flat Back*	2309-50	
80	50	9	1	0-100	Flat Back*	2309-80	

STANDARD DIAL TEST INDICATOR - 2380 / 2381

Anti-Magnetic Body, Jeweled Bearing and Carbide Contact Point

- Carbide contact point
- 2 measuring directions
- Anti magnetic body
- Supplied with 2 clamps

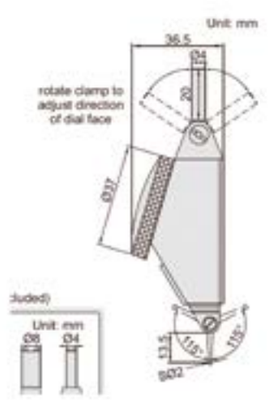


Measuring Range mm	Accuracy µm	Graduation mm	Dial Reading	Hysteresis µm	A	ORDER CODE	
0.8	13	0.01	0-40-0	3	Ø30	2380-08	
0.8	13	0.01	0-40-0	3	Ø37	2381-08	
0.2	6	0.002	0-100-0	2	Ø30	2380-02	
0.2	6	0.002	0-100-0	2	Ø37	2381-02	

LARGE RANGE DIAL TEST INDICATOR - 2386

Anti-Magnetic Body, Jeweled Bearing and Carbide Contact Point

- Graduation 0.01mm
- Carbide contact point
- Jeweled bearing
- 2 measuring directions
- Anti magnetic body
- Supplied with 2 clamps (4 & 8mm Diameter)



Measuring Range mm	Accuracy µm	Graduation mm	Dial Reading	Hysteresis µm	ORDER CODE	
1.6	25	0.01	0-40-0	8	2386 - 16A	

TILTED FACE DIAL TEST INDICATOR - 2399

Anti-Magnetic Body, Jeweled Bearing and Carbide Contact Point

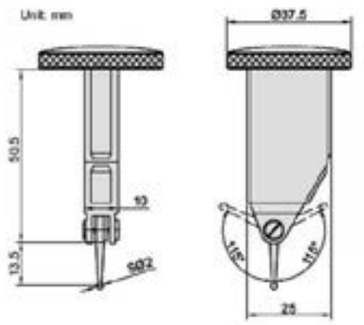
- Graduation 0.01mm
- Carbide contact point
- Jeweled bearing
- 2 measuring directions
- Anti magnetic body
- Supplied with 2 clamps: Ø4mm & Ø6mm

Measuring Range mm	Accuracy µm	Graduation mm	Dial Reading	Hysteresis µm	ORDER CODE	
0.8	13	0.01	0-40-0	3	2399-08	

BACK PLUNGER TYPE DIAL TEST INDICATOR - 2398

Anti-Magnetic Body, Jeweled Bearing and Carbide Contact Point

- Graduation 0.01mm
- Carbide contact point
- Jeweled bearing
- 2 measuring directions
- Anti magnetic body
- Supplied with 2 clamps: Ø4mm & Ø6mm

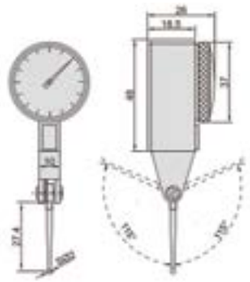


Measuring Range mm	Accuracy µm	Graduation mm	Dial Reading	Hysteresis µm	ORDER CODE	
0.8	13	0.01	0-40-0	3	2398-08	

LONG STYLI DIAL TEST INDICATOR - 2383

Anti-Magnetic Body, Jeweled Bearing and Carbide Contact Point

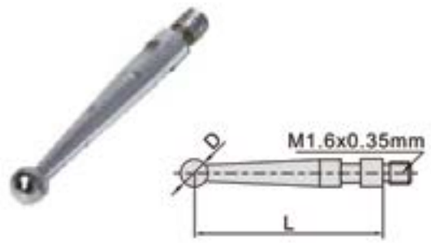
- Graduation 0.01mm.
- Carbide contact point.
- Jeweled bearing.
- 2 measuring directions.
- Anti magnetic body.
- Supplied with 2 clamps.



Measuring Range mm	Accuracy µm	Graduation mm	DIAL READING	Hysteresis µm	ORDER CODE	
0.8	13	0.01	0-40-0	3	2383-08A	

STYLI FOR DIAL TEST INDICATOR - 6284

Compatible With Insize Dial Test Indicators



For Dial Test Indicator	Material Of Contact Point	L	D	ORDER CODE	
2380-08 2398-08 2381-08 2399-08	Steel	16.5	S1	6284-1	
	Carbide	16.5	S2	6284-3	
	Ruby	16.5	S2	6284-4	
	Carbide	16.5	S3	6284-8	
2380-02 2381-02	Steel	16	S1	6284-21	
	Carbide	16	S2	6284-22	
	Carbide	16	S3	6284-23	
2896-05	Carbide	38.2	S1	6284-51	
2899-05	Carbide	38.2	S2	6284-52	
2391-08	Carbide	14.8	S2	6284-71	

STEEL EXTENSION RODS - 6282

For Long Reach Applications

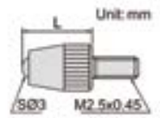
- Extension rod ideal for long reach applications where the standard plungers aren't long enough
- 10mm-100mm length options
- 4mm diameter plunger/anvil
- M2.5x0.45 thread both sides

Material	L	ORDER CODE	
Steel	10mm	6282-2001	
Steel	15mm	6282-2002	
Steel	20mm	6282-2003	
Steel	25mm	6282-2004	
Steel	30mm	6282-2005	
Steel	35mm	6282-2006	
Steel	40mm	6282-2007	
Steel	45mm	6282-2008	
Steel	50mm	6282-2009	
Steel	55mm	6282-2010	
Steel	60mm	6282-2011	
Steel	65mm	6282-2012	
Steel	70mm	6282-2013	
Steel	75mm	6282-2014	
Steel	80mm	6282-2015	
Steel	90mm	6282-2016	
Steel	100mm	6282-2017	

CONTACT POINTS - 6282

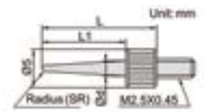
Wide Range Of Styles

BALL POINTS



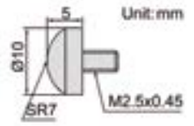
Material	L	ORDER CODE	
Carbide	7.3	6282-0101	
Ceramic	7.3	6282-0103	
Carbide	8.3	6282-0104	
Carbide	12.1	6282-0106	
Carbide	14	6282-0107	
Carbide	15	6282-0108	
Ceramic	15	6282-0109	
Carbide	17	6282-0110	
Carbide	19.3	6282-0111	
Carbide	20	6282-0112	
Ceramic	20	6282-0113	
Carbide	22	6282-0114	
Carbide	25	6282-0115	
Ceramic	25	6282-0116	
Carbide	30	6282-0117	
Ceramic	30	6282-0118	

NEEDLE POINTS



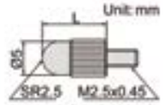
Material	L	L1	ORDER CODE	
Steel	15	11	6282-1601	
Steel	17	13	6282-1602	
Steel	25	21	6282-1603	
Steel	35	31	6282-1604	

SPHERICAL POINT



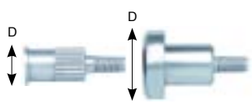
Material	ORDER CODE	
Steel	6282-0401	

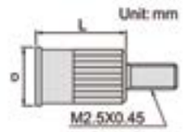
SHELL POINTS



Material	L	ORDER CODE	
Steel	5	6282-0202	
Steel	10	6282-0203	
Steel	15	6282-0205	
Steel	20	6282-0207	
Steel	25	6282-0208	
Steel	30	6282-0210	

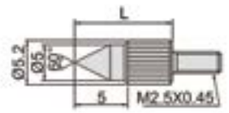
FLAT POINTS



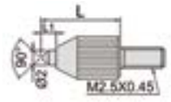


Material	Type	D	ORDER CODE	
Steel	A	5	6282-1101	
Steel	A	5	6282-1102	
Steel	B	10	6282-1201	
Steel	B	15	6282-1202	
Steel	B	20	6282-1203	
Steel	B	25	6282-1204	

CONICAL POINTS



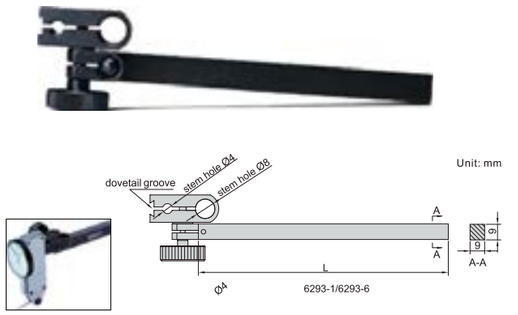
Material	Type	L	ORDER CODE	
Steel	A	10	6282-0601	
Steel	B	5	6282-0701	



Material	Type	L	L1	ORDER CODE	
Steel	C	9	2	6282-0801	
Steel	D	15	8	6282-0901	

DIAL TEST INDICATOR HOLDER - 6293

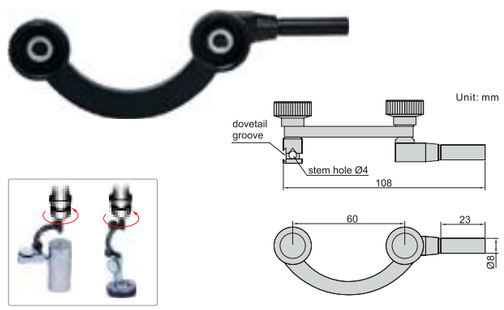
With 4mm And 8mm Diameter Stem Holes



Shank mm	Shank Length mm	ORDER CODE	
9x9	100	6293-1	
9x9	50	6293-6	

DIAL TEST INDICATOR - 6291

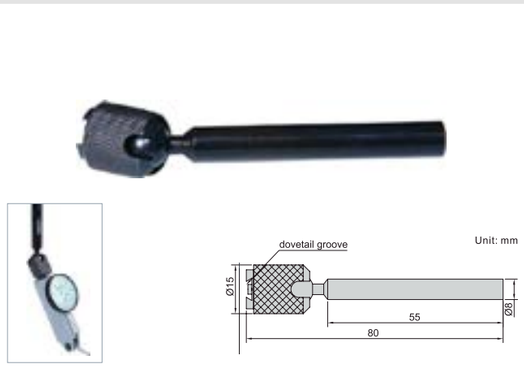
Centering Holder



ORDER CODE	
6291-1	

DIAL TEST INDICATOR HOLDER - 6297

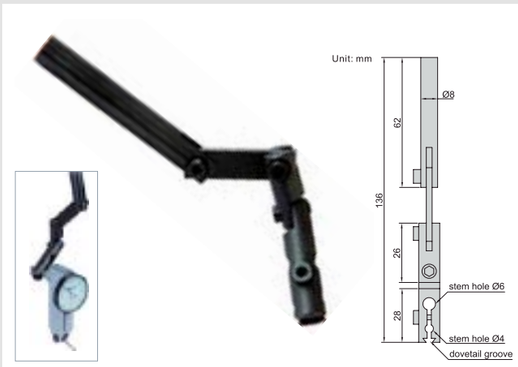
Universal Holder



ORDER CODE	
6297-1	

DIAL TEST INDICATOR HOLDER - 6296

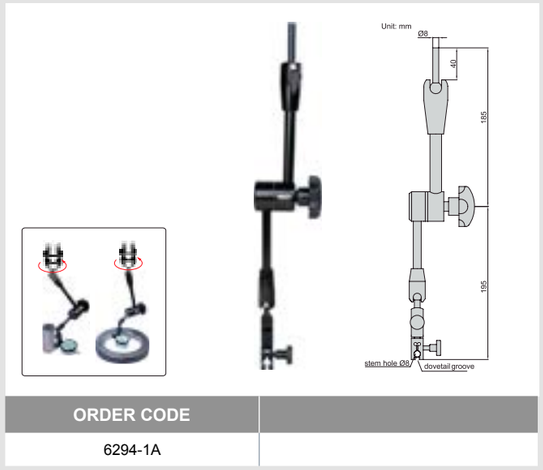
Supplied With Hex Key



ORDER CODE	
6296-1	

DIAL TEST INDICATOR HOLDER - 6294

Centering Holder



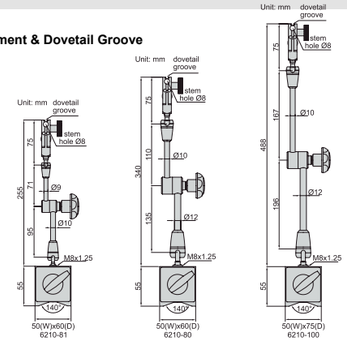
ORDER CODE	
6294-1A	

UNIVERSAL MAGNETIC STAND - 6210

For Dial/Digital Indicators & Dial Test Indicators

- For digital/dial indicators and dial test indicators
- Fine adjustment
- Dovetail groove
- Magnetic force 80kgf

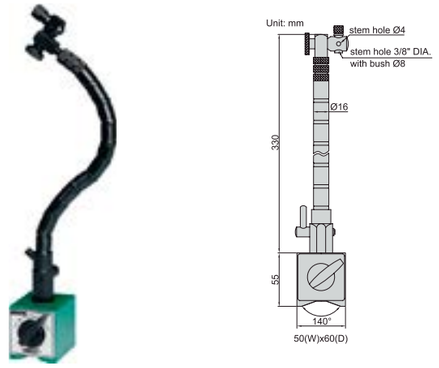
• With Fine Adjustment & Dovetail Groove



STEM DIA mm	Mag Force kgf	ORDER CODE	
8	80	6210-81	
8	80	6210-80	
8	100	6210-100	

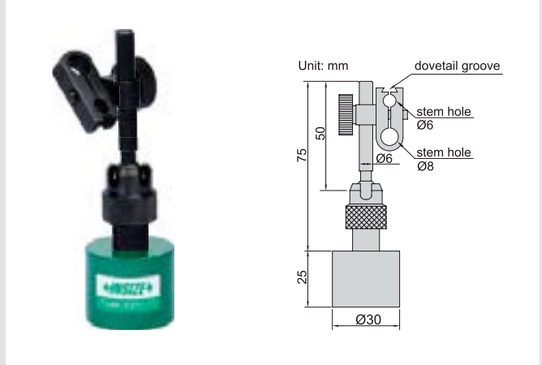
FLEX ARM MAGNETIC STAND - 6207

For Dial Test Indicators



Stem Dia mm	Mag Force kgf	ORDER CODE	
8, 4, 3/8	80	6207-80A	

MINI MAGNETIC STAND - 6211

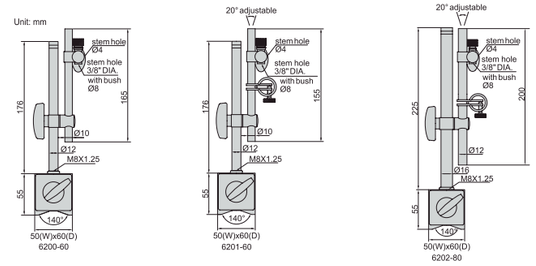


Stem Dia mm	Mag Force kgf	ORDER CODE	
6, 8	10	6211-10	

UNIVERSAL MAGNETIC STAND - 6200 / 6201 / 6202

For Dial/Digital Indicators & Dial Test Indicators

- For digital/dial indicators and dial test indicators
- Magnetic force 60kgf



* without fine adjustment

Stem Dia mm	Mag Force kgf	ORDER CODE	
8, 4, 3/8	60	6200-60*	
8, 4, 3/8	60	6201-60	
8, 4, 3/8	80	6202-80	
8, 4, 3/8	100	6202-100	

DIAL INDICATOR STANDS - 6863

For Use With Digital Indicators and Dial Test Indicators

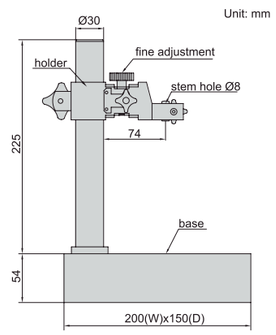
- For digital indicators and dial test indicators
- With fine adjustment (2mm)
- Vertical travel 150mm

Stem Dia mm	ORDER CODE	
8mm	6863-150	

GRANITE COMPARATOR STAND - 6866

2mm Fine Adjustment Range

- Granite base
- With fine adjustment (2mm)
- Vertical travel 150mm
- Supplied with dust cover

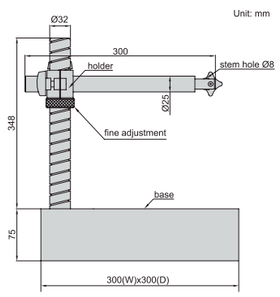


Stem Dia mm	Base Flatness µm	ORDER CODE	
8	2.5	6866-150	

GRANITE DIAL INDICATOR STAND - 6867

Entire Stroke Fine Adjustment Range

- Granite base
- With fine adjustment (entire stroke)
- Vertical travel 250mm
- Supplied with dust cover

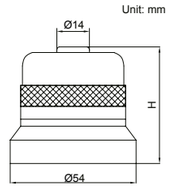


Stem Dia mm	Base Flatness µm	ORDER CODE	
8	2.8	6867-250	

ELECTRONIC ZERO SETTER - 6550

Magnetic Base With LED Touch Light

- The base is electrically conducted to the cutting tools through the table and chuck, the LED lights up when the cutting tool touches the anvil
- Magnetic base
- Battery LR44 or SR44
- High test force (27N at 49mm)

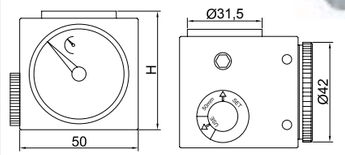


H mm	Accuracy mm	ORDER CODE	
50	±0.01	6550-50A	

ZERO SETTER - 2397

Magnetic Base

- Magnetic base
- 50mm height
- Graduation 0.01mm

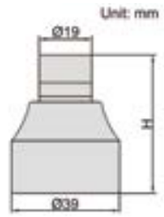


H mm	Accuracy mm	ORDER CODE	
50	±0.01	2397-502A	

ELECTRONIC ZERO SETTER - 6553

Magnetic Base With LED Touch Light

- The base is electronically conducted to the cutting tools through the table and chuck, the LED lights up when the cutting tool touches the anvil
- Magnetic base.
- Two batteries LR44

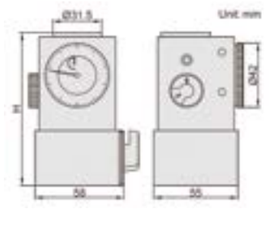


H mm	Accuracy mm	ORDER CODE	
50	±0.01	6553-50	

100MM HIGH ZERO SETTER - 2394

Magnetic Base With On/Off Switch

- Magnetic base with on/off swich
- Test force: 9N (at 100mm)



H mm	Accuracy mm	ORDER CODE	
100	±0.01	2394-100A	

OPTICAL ZERO SETTER

Magnetic Base With LED Touch Light

- Optical type
- Magnetic base
- 50mm height
- 0.005mm accuracy

Height mm	Accuracy mm	ORDER CODE	
50	±0.005	ZOP-50	

INDICATOR TYPE ZERO SETTER

Magnetic Base

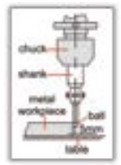
- Magnetic base
- 50mm height
- Graduation 0.01mm
- 0.01mm accuracy

Height mm	Accuracy mm	ORDER CODE	
50	±0.01	ZIP-50A	

ELECTRONIC EDGE FINDER - 6566

With LED Contact Light & Beeper

- Not suitable for rotary use
- Hardened shank and contact ball
- More accurate than Wigglers / Wobbler
- Edge finder automatically resets when you back away from the setting edge

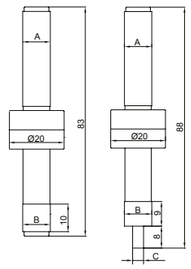


Shank Ø mm	Contact Ball Ø mm	Accuracy mm	Beeper	ORDER CODE	
20	10	0.005	No	6566-2	
20	10	0.005	Yes	6566-3	

EDGE FINDER - 6562

Hardened Shank

- Hardened shank and contact point
- Suitable for machine speed 400-600rpm

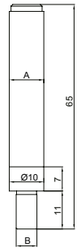


Shank Ø mm	Contact Point (B) Ø mm	Contact Point (C) Ø mm	Accuracy mm	ORDER CODE	
10	10	-	0.005	6562-3	
10	10	4	0.005	6562-4	

EDGE FINDER - 6567

Hardened Shank & Contact Point

- Made of hardened alloy steel
- Suitable for machine speed 400-600rpm

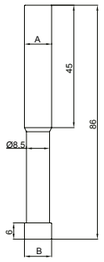


Shank Ø mm	Contact Ø mm	Accuracy mm	ORDER CODE	
10	6	0.008	6567-1	

CERAMIC EDGE FINDER - 6568

Made of Hardened Alloy Steel With Ceramic Tip

- Made of hardened alloy steel
- Suitable for machine speed 400-600rpm
- Non-magnetic ceramic contact point

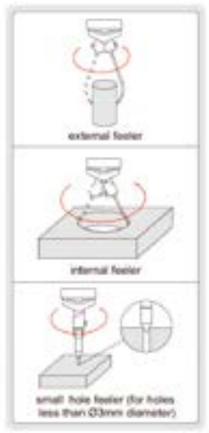


Shank Ø mm	Contact Ø mm	Accuracy mm	ORDER CODE	
10	10	0.008	6568-1	

CENTERING INDICATOR - 2385

Quick and Accurate Centering of Internal and External Diameters

- Provides quick and accurate centering in boring and milling set-ups
- Contains external feelers (x3), internal feelers (x3), small hall feeler (x1) and main unit



Mounting Shaft	ORDER CODE	
10	2385-3	

3D SENSOR - ORIGINAL

IP67 Waterproof With 20mm Shank

- For milling and EDM machines
- Insulated probe
- Align machine spindles to work piece edges and reference edges (X-, Y-, Z-axis).
- Smallest unit of measure of 0.01mm
- Supplied with 4mm probe

Scan to see me in action

IP67

Reading	Shank Diameter	Clock Diameter	ORDER CODE	
0.01mm	20mm	55mm	80.360.00.FHN	

COAXIAL INDICATOR - CENTRO

For Quick & Exact Centering

- Quick and exact centering of bores and shafts
- Centering accuracy of 0.003mm.
- Compensation for run-out errors of the spindle and tool holder - no adjustment necessary
- Dial gauge always in field of vision
- Supplied with 5mm probe

Reading	Shank Diameter	Clock Diameter	ORDER CODE	
0.003mm	16mm	55mm	80.300.00.FHN	

3D SENSOR - NEW GENERATION

IP67 Waterproof With 12mm Shank

- For milling and EDM machines
- Insulated probe
- Align machine spindles to work piece edges and reference edges (X-, Y-, Z-axis)
- Smallest unit of measure of 0.01mm
- Check straightness and levelness of surfaces
- Supplied with 4mm probe

IP67

Reading	Shank Diameter	Clock Diameter	ORDER CODE	
0.01mm	12mm	55mm	80.360.00NG	

3D SENSOR - ZERO MASTER

IP67 Waterproof With 10mm Shank

- The smallest 3D sensor on the market.
- Housing doesn't protrude far out of the spindle, meaning large workpieces can be measured
- Small size means ISO30 or small HSK spindles are supported
- Align machine spindles to work piece edges and reference edges (X-, Y-, Z-axis)
- Supplied with 4mm probe

IP67

Reading	Shank Diameter	Clock Diameter	ORDER CODE	
0.01mm	10mm	40mm	80.960.00	

3D SENSOR - DIGITAL

IP64 Waterproof With 20mm Shank

- Digital display with metric & inch measurements
- Zero point can be set without any calculations because the spindle axis is positioned exactly on the approached edge
- For approaching workpiece edges on milling and EDM machines
- Digital display with large numbers
- Measure in 0.001mm increments
- IP64 water & dust proof
- Supplied with 4mm probe

IP64

Reading	Shank Diameter	ORDER CODE	
0.005mm	20mm	80.460.00.FHN	

3D SENSOR PROBE TIP

For All Haimer 3D Sensors

- Probe tip compatible with all Haimer 3D sensors / touch sensors
- Can be changed without the use of any other tools
- 4mm (short length) or 8mm (long length) diameter tips available.
- No recalibration of the unit is needed

Diameter	Length	ORDER CODE	
4mm	27mm	80.362.00	
8mm	69mm	80.363.00	

INDIVIDUAL STEEL GAUGE BLOCKS - 4101

Ranging From 0.5mm-150mm

- Grade 0, 1 and 2 available
- Made of alloy steel
- Standard ISO3650
- Supplied with manufacturer's inspection certificate (Not UKAS)

Grade 1

Size (mm)	ORDER CODE	
0.5	4101-BD5	
1	4101-B1	
1.001	4101-B1D001	
1.002	4101-B1D002	
1.003	4101-B1D003	
1.004	4101-B1D004	
1.005	4101-B1D005	
1.006	4101-B1D006	
1.009	4101-B1D009	
1.01	4101-B1D01	
1.02	4101-B1D02	
1.03	4101-B1D03	
1.04	4101-B1D04	
1.05	4101-B1D05	
1.06	4101-B1D06	
1.07	4101-B1D07	
1.08	4101-B1D08	
1.09	4101-B1D09	
1.1	4101-B1D1	
1.15	4101-B1D15	
1.16	4101-B1D16	
1.18	4101-B1D18	
1.19	4101-B1D19	
1.2	4101-B1D2	
1.21	4101-B1D21	
1.22	4101-B1D22	
1.24	4101-B1D24	
1.25	4101-B1D25	
1.26	4101-B1D26	
1.27	4101-B1D27	
1.3	4101-B1D3	
1.32	4101-B1D32	
1.33	4101-B1D33	
1.34	4101-B1D34	
1.35	4101-B1D35	
1.36	4101-B1D36	
1.37	4101-B1D37	
1.4	4101-B1D4	
1.42	4101-B1D42	
1.43	4101-B1D43	
1.45	4101-B1D45	
1.46	4101-B1D46	

Grade 1

Size (mm)	ORDER CODE	
1.47	4101-B1D47	
1.48	4101-B1D48	
1.49	4101-B1D49	
1.5	4101-B1D5	
1.6	4101-B1D6	
1.7	4101-B1D7	
1.8	4101-B1D8	
1.9	4101-B1D9	
2	4101-B2	
2.5	4101-B2D5	
3	4101-B3	
5	4101-B5	
5.5	4101-B5D5	
6	4101-B6	
7	4101-B7	
7.5	4101-B7D5	
8	4101-B8	
8.5	4101-B8D5	
9	4101-B9	
9.5	4101-B9D5	
10	4101-B10	
11	4101-B11	
12	4101-B12	
13	4101-B13	
14	4101-B14	
15	4101-B15	
16	4101-B14	
18	4101-B18	
20	4101-B20	
21	4101-B21	
22	4101-B22	
23	4106-B23	
25	4106-B25	
30	4106-B30	
35	4106-B35	
40	4106-B40	
45	4106-B45	
50	4106-B50	
60	4160-B60	
70	4106-B70	
75	4106-B75	
80	4106-B80	

Grade 1

Size (mm)	ORDER CODE	
90	4106-B90	
100	4106-B100	
125	4106-B125	
131.4	4106-B131D4	
150	4106-B150	

Grade 2

Size (mm)	ORDER CODE	
1	4101-C1	
10	4101-C10	
100	4101-C100	
200	4101-C200	
250	4101-C250	
300	4101-C300	

Grade 0

Size (mm)	ORDER CODE	
1	4101-A1	
10	4101-A10	
100	4101-A100	

MEASURING & GAUGING
GAUGE BLOCKS

STEEL GAUGE BLOCK SETS - 4100

Available in Grade 0, 1 and 2

- Made of alloy steel
- ISO 3650
- Supplied with manufacturer's inspection certificate (Not UKAS)
- Grade 0: for use in a controlled inspection environment.
- Grade 1: for use in an inspection area or for the setting of measuring tools and electronic instruments
- Grade 2: for shop floor use

Pcs	Blocks Included In Set			ORDER CODE		
	Size (mm)	INCR.	Qty	Grade 0	Grade 1	Grade 2
122	1.005		1	4100-122	4100-1122	4100-2122
	1.001-1.009	0.001	9			
	1.01-1.49	0.01	49			
	1.01-1.49	0.1	4			
	0.5-24.5	0.5	49			
	30-100	10	8			
	25-75	50	2			
112	1.005		1	4100-112	4100-1112	4100-2112
	1.001-1.009	0.001	9			
	1.01-1.49	0.01	49			
	0.5-24.5	0.5	49			
	25-100	25	4			
103	1.005		1	4100-103	4100-1103	4100-2103
	1.001-1.009	0.01	49			
	1.01-1.49	0.5	49			
	0.5-24.5	25	4			
88	1.005		1	4100-88	4100-188	4100-288
	1.001-1.009	0.001	9			
	1.01-1.49	0.01	49			
	0.5-9.5	0.5	19			
	10-100	10	10			
87	1.001-1.009	0.001	9	4100-87	4100-187	4100-287
	1.01-1.49	0.01	49			
	0.5-9.5	0.5	19			
	10-100	10	10			
83	0.5		1	4100-83	4100-183	4100-283
	1		1			
	1.005		1			
	1.01-1.49	0.01	49			
	1.5-1.9	0.1	5			
	2-9.5	0.5	16			
	10-100	10	10			
76	1.005		1	4100-76	4100-176	4100-276
	1.01-1.49	0.01	49			
	0.5-9.5	0.5	19			
	10-40	10	4			
	50-100	25	3			
56	0.5		1	4100-56	4100-156	4100-256
	1.001-1.009	0.001	9			
	1.01-1.09	0.01	9			
	1.2-1.9	0.1	9			
	1-9	1	24			
	10-100	25	4			

Pcs	Blocks Included In Set			ORDER CODE		
	Size (mm)	INCR.	Qty	Grade 0	Grade 1	Grade 2
47	1.005		1	4100-47A	4100-147A	4100-247A
	1.01-1.09	0.01	9			
	1.1-1.9	0.1	9			
	1-24	1	24			
	25-100	25	4			
47	1.005		1	4100-47	4100-147	4100-247
	1.01-1.19	0.01	19			
	1.2	0.1	8			
	1.9	1	9			
	10-100	25	10			
46	1.001-1.009	0.001	9	4100-46	4100-146	4100-246
	1.01-1.09	0.01	9			
	1.1-1.9	0.1	9			
	1-9	1	9			
	10-100	10	10			
34	1.0005		1	4100-34	4100-134	4100-234
	1.01-1.009	0.001	9			
	1.01-1.09	0.01	9			
	1.1-1.9	0.1	9			
	1-5	1	5			
	10		1			
32	1.005		1	4100-32	4100-132	4100-232
	1.01-1.09	0.001	9			
	1.1-1.9	0.01	9			
	1-9	0.1	9			
	10-30	1	5			
	50		1			
9	1.001-1.009	0.001	9	4100-9	4100-19	4100-29
9	0.991-0.999	0.001	9	4100-9A	4100-19A	4100-29A
8	125-175	25	3	4100-8	4100-18	4100-28
	200-250	50	2			
	300-500	100	3			

13 PIECE COMPLETE MEASURING TOOL SET - 5013

The Essential Starter Kit

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

Options	ORDER CODE	
Calper With Roller	5013	
Calper Without Thumb Roller	5013-W	

4 PIECE BASIC MEASURING TOOL SET - 5041

Includes Vernier Caliper, Outside Micrometer, 90° Square And Steel Rule

- Vernier caliper, 0-150mm / 0-6” (1205-150S or 1205-1502S)
- Outside micrometer, 0-25mm (3202-25A)
- 90° beveled edge square, 100x70mm, grade 0 (4790-1000)
- Steel rule, 150mm/6” (7110-150)

Options	ORDER CODE	
Caliper graduation 0.5mm	5041	
Caliper graduation 0.2mm	5041-2	

DTI MEASURING TOOL SET

Includes 0.8mm Dial Test Indicator & Stand

- Dial test indicator range 0.8mm (code 2380-08)
- Magnetic stand

ORDER CODE	
5023	

DIAL INDICATOR MEASURING TOOL SET

Includes 10mm Dial Indicator & Stand

- Dial indicator range 10mm (code 2308-10A)
- Magnetic stand (code 6201-60)

ORDER CODE	
5024	

9 PIECE MEASURING TOOL SET - 5091

Includes Caliper, Micrometer, Protractor, 3 Assorted Gauges, 90° Square, Scriber & Steel Rule

- Digital caliper, 0-150mm / 0-6” (1108-150W)
- Outside micrometer, 0-25mm (3202-25A)
- Protractor, range 0-180°, graduation 1° (4799-180)
- Pitch gauge, 0.25-7mm range, metric 60°, 24pcs (4820-124)
- Radius gauge, 1-7mm (4801-17)
- Feeler gauge, range 0.05-1mm, 20pcs (4602-20)
- 90° beveled edge square, 100x70mm, grade 0 (4790-1000)
- Scriber (7230)
- Steel rule, 150mm/6” (7110-150)

Options	ORDER CODE	
Calper With Roller	5091	
Calper Without Thumb Roller	5091-W	

4 PIECE MEASURING TOOL SET - 5042

Includes Caliper, Micrometer, Square & Rule

- Digital caliper, 0-150mm / 0-6” (1108-150W)
- Outside micrometer, 0-25mm (3202-25A)
- 90° beveled edge square, 100x70mm, grade 0 (4790-1000)
- Steel rule, 150mm/6” (7110-150)

ORDER CODE	
5042	

2 PIECE MEASURING TOOL SET - 5022

Includes Caliper and Micrometer

- Digital caliper 0-150mm / 0-6” (code 1108-150W)
- Digital outside micrometer 0-25mm/0-1” (code 3109-25B)

ORDER CODE	
5022-W	

5 PIECE MEASURING TOOL SET - 5052

Includes Caliper, Micrometer, DTI & 2 Stands

- Digital caliper 0-150mm / 0-6” (code 1108-150W)
- Outside micrometer 0-25mm/0-1” (code 3109-25A)
- Digital indicator range 12.7mm/0.5” (code 2112-10)
- Magnetic stand (code 6201-60)
- Micrometer stand (code 6300)

ORDER CODE	
5052-W	

6 PIECE MEASURING TOOL SET - 5063

Includes Caliper, Micrometer, Square, Edge & Rule

- Vernier caliper 0-150mm / 0-6” (code 1205)
- Outside micrometer 0-25mm/0-1” (code 3202-25A)
- 90° Beveled edge square, 100x70, grade 00 (code 2112-10)
- Straight edge, 100mm (code 4700-100)
- Spring divider, 150mm (code 7260-150)
- Steel rule, 200mm/8” (code 7110-200)

Caliper Graduation	ORDER CODE	
0.05mm	5063	
0.2mm	5063-2	

GRANITE SURFACE PLATES - 6900

Available in Inspection or Workshop Grade

- Made from granite
- Free from deterioration or dimensional change
- Grade 00 (inspection or lab) / Grade 0 (workshop)
- Supplied with manufacturer's inspection certificate
- Optional accessory: stand (code 6902), jacks (6903)

Length	Width	Height	Flatness	ORDER CODE	
Grade 00 (Inspection)					
300	200	60	0.0027mm	6900-132	
400	250	60	0.0029mm	6900-142	
400	400	60	0.0031mm	6900-144	
500	315	70	0.0032mm	6900-153	
630	400	80	0.0035mm	6900-164	
630	630	100	0.0038mm	6900-166	
800	500	100	0.0039mm	6900-185	
1000	630	140	0.0044mm	6900-1106	
1000	1000	150	0.0048mm	6900-1101	
1200	800	160	0.0049mm	6900-1128	
1600	1000	180	0.0058mm	6900-1161	
2000	1000	220	0.0065mm	6900-1201	
2000	1500	250	0.007mm	6900-1202	
2500	1500	300	0.0078mm	6900-1251	
3000	2000	400	0.0092mm	6900-1302	
Grade 0 (Workshop)					
300	200	60	0.0054mm	6900-032	
400	250	60	0.0059mm	6900-042	
400	400	60	0.0063mm	6900-044	
500	315	70	0.0064mm	6900-053	
630	400	80	0.007mm	6900-064	
630	630	100	0.0076mm	6900-066	
800	500	100	0.0078mm	6900-085	
1000	630	140	0.0087mm	6900-0106	
1000	1000	150	0.0097mm	6900-0101	
1200	800	160	0.0098mm	6900-0128	
1600	1000	180	0.0115mm	6900-0161	
2000	1000	220	0.0129mm	6900-0201	
2000	1500	250	0.014mm	6900-0202	
2500	1500	300	0.0157mm	6900-0251	
3000	2000	400	0.0184mm	6900-0302	

MEASURING & GAUGING
SURFACE PLATES

STANDS FOR GRANITE SURFACE PLATES - 6902

Available in Low or High Type

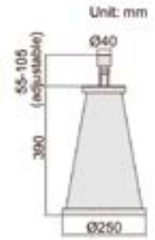
- For medium size granite surface plates
- 5 jacks included
- Adjustment range of jacks: 25mm
- One floor foot is adjustable

For surface plates	W	D	H (With Plate)	H (Without Plate)	ORDER CODE	
Low stands						
630x400x80mm	352	224	775-800	695-720	6902-64A	
800x500x100mm	448	280	775-800	675-700	6902-85A	
1000x630x140mm	560	352	755-780	615-640	6902-106A	
1200x800x160mm	672	448	755-780	595-620	6902-128A	
High stands						
630x400x80mm	352	224	1000-1025	920-945	6902-64H	
800x500x100mm	448	280	1000-1025	900-925	6902-85H	
1000x630x140mm	560	352	1000-1025	860-885	6902-106H	
1200x800x160mm	672	448	1000-1025	840-865	6902-128H	

GRANITE SURFACE PLATE JACKS - 6903

With 55-105mm Adjustable Height

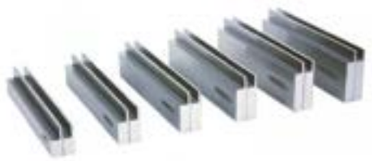
- 5 jacks per set
- Adjustable height (55-105mm)
- For large granite surface plates:
  2000 x 1000 x 220mm (6900-0201 and 6900-1201)
  2000 x 1500 x 250mm (6900-0202 and 6900-1202)



ORDER CODE	
6903-B	

PARALLEL SET - 6534
Made Of Alloy Tool Steel

- Height difference of a matched pair: 5μm
- Hardened to HRC55-60
- Made of alloy tool steel



Pcs	Parallelism Between Top & Bottom	Height (H)	ORDER CODE	
6 pairs	5	25, 30, 35, 40, 45, 48mm	6534-6	

PARALLEL SET - 6533
Made Of Alloy Tool Steel

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

Pcs	Thickness	Height (mm)	ORDER CODE	
10 pairs	3	13, 16, 19, 22, 25, 28, 31, 35, 38, 41	6533-10	
14 pairs	10	14, 16, 18, 20, 22, 24, 26, 28, 30, 32, 35, 40, 45, 50	6533-144	

GRANITE PARALLEL SET - 4143
Hard Granite With No Rust or Dimensional Change Due to Temperature

- Made of granite
- No rust
- No dimensional change over time or temperature change
- 2 parallels per set

Parallelism Between A & B	Parallelism Between C & D	Height Difference Of Matched Pair	Size (LxWxH)	ORDER CODE	
3μm	3μm	3μm	250x25x40mm	4143-250	

ANGLE PLATE SETS - 4003
Hardness HRC55

- For angle set-up in tooling, production and inspection
- Hardness HRC55
- Made of tool steel

Pcs	Angles Included	ORDER CODE	
10	1, 2, 3, 4, 5, 10, 15, 20, 25, 30	4003-10	
12	1/4, 1/2, 1, 2, 3, 4, 5, 10, 15, 20, 25,30	4003-12	

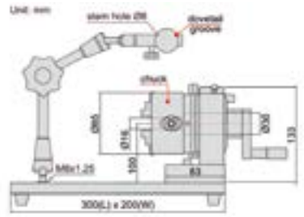
ADJUSTABLE ANGLE BLOCK - 6535
Made Of Hardened Tool Steel

- Graduation of angle: 10 minutes
- Made of hardened tool steel
- With locking screw
- Adjustable angle between 30°~0°~60°

Size (LxWxH)	Angle Accuracy	ORDER CODE	
102x30x49mm	10 minutes	6535-30	

CONCENTRICITY GAUGE - 4786
Ideal For Gauging Cylinders or Tubes

- Accuracy: 8μm
- Optional accessory: dial test indicator



Applicable Inside Diameter	Applicable Outside Diameter	ORDER CODE	
Ø24 - 64mm	Ø2 - 70mm	4786-1	

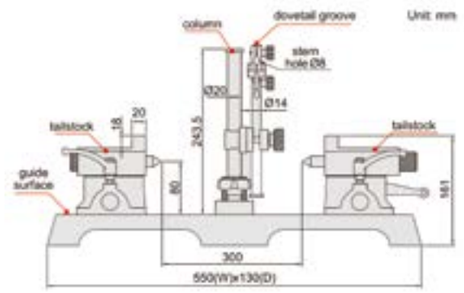
CONCENTRICITY GAUGE - 4789
With Dial Indicator Holder

- Accuracy 0.002mm
- Maximum work piece length 75mm
- Maximum outstretch length 30mm
- Maximum diameter 25mm
- Optional accessory: dial test indicator

Applicable Dia	ORDER CODE	
Ø3.5-25mm	4789-1	
Ø1-25mm	4789-3	

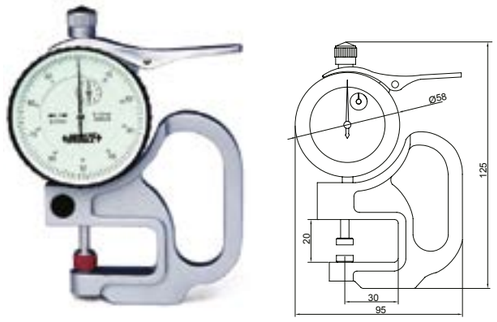
BENCH CENTRE - 4782
Standard Model

- Hardened cast iron guide surface
- Movable column
- V-slot for cylinder 4mm-22mm diameter



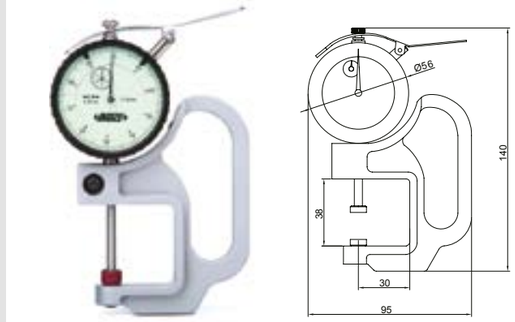
Parallelism	Runout Accuracy	Dia of Center	Taper Of Center	Centre Height	Max Load	ORDER CODE	
0.01mm	0.002mm	Ø16	MT1	80	25kg	4782-300	

DIAL THICKNESS GAUGE - 2364
0-10mm / 0.01mm Graduation



Range mm	Graduation mm	Accuracy mm	ORDER CODE	
0-10	0.01	±0.02	2364-10	

DIAL THICKNESS GAUGE - 2366
0-30mm / 0.01mm Graduation

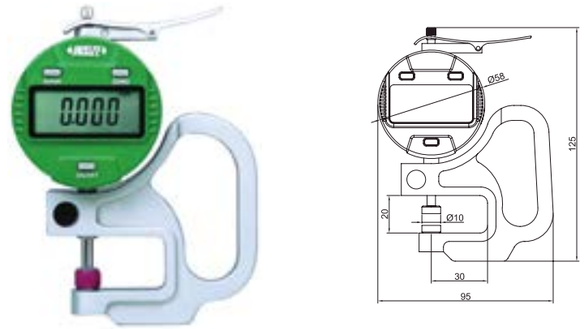


Range mm	Graduation mm	Accuracy mm	ORDER CODE	
0-30	0.01	±0.035	2366-30	

DIGITAL THICKNESS GAUGE - 2871
Ceramic Spindle Tip and Anvil

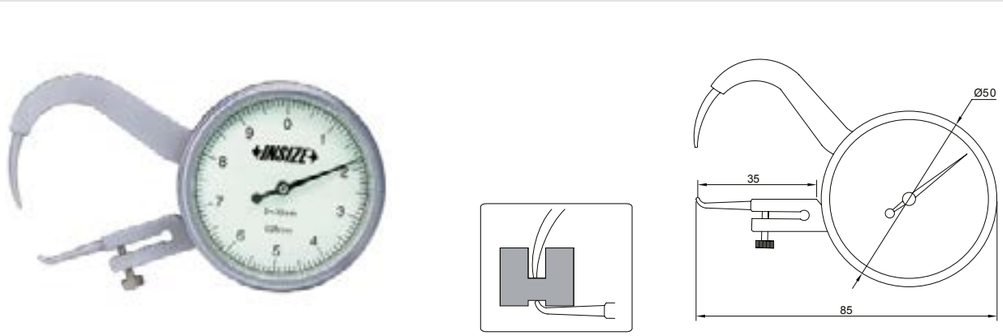
- Ceramic spindle tip and anvil
- Buttons: on/off, zero, mm/inch
- Resolution 0.001mm/0.00005”
- Battery CR2032, automatic power off
- Data output
- Optional accessory: data output cable (7302-SPC3B)

DATA OUTPUT



Range mm (inch)	Resolution mm (inch)	Accuracy mm	ORDER CODE	
0-10 (0-0.4")	0.01 (0.0005")	±0.02mm	2871-10	
0-10 (0-0.4")	0.001 (0.00005")	±0.005mm	2871-101	

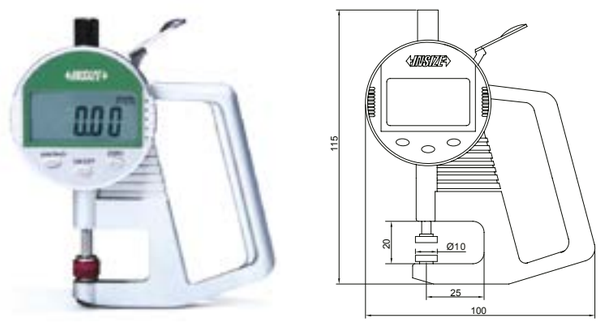
THICKNESS GAUGE FOR GROOVES & RECESSES - 2866
Pointed Tips Fit Into Small Grooves and Recesses



Range mm	Graduation mm	Accuracy mm	ORDER CODE	
0-10	0.05	±0.1	2866-10	

DIGITAL THICKNESS GAUGE - 2867
Ceramic Spindle Tip and Anvil

INSIZE



Range mm (inch)	Resolution mm (inch)	Accuracy mm	ORDER CODE	PRICE
0-10 (0-0.4")	0.01 (0.0005")	±0.02mm	2867-10	**£86.40**

INTERNAL DIAL CALIPER GAUGE - 2321
With Carbide Measuring Tips

Range mm	Graduation mm	Accuracy mm	L	A	D	ORDER CODE	
15-35	0.01	±0.04	50	3	3	2321-35	
35-55	0.01	±0.04	80	6	3	2321-55	
55-75	0.01	±0.04	90	8	3	2321-75	
75-95	0.01	±0.04	100	8	3	2321-95	
95-115	0.01	±0.04	150	10	3.2	2321-115	
115-135	0.01	±0.04	150	10	3.2	2321-135	

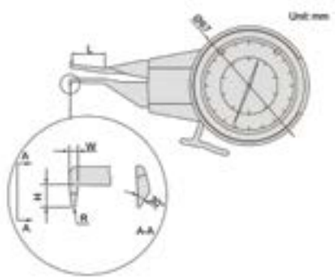
EXTERNAL DIAL CALIPER GAUGE - 2332
With Carbide Measuring Tips

Range mm	Graduation mm	Accuracy mm	L	ORDER CODE	
0-20	0.01	±0.04	60	2332-20	
20-40	0.01	±0.04	60	2332-40	
40-60	0.01	±0.04	55	2332-60	
60-80	0.01	±0.04	55	2332-80	
80-100	0.01	±0.04	55	2332-100	

DIAL CALIPER GAUGES - 2222

Internal

- Graduation: 0.01mm.



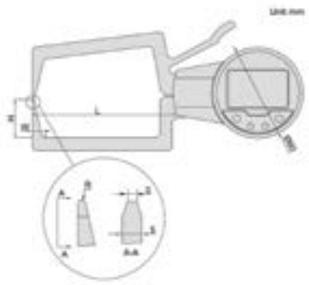
Range	Accuracy	L	H	W	R	CODE	
5-15mm	0.03mm	20	2	1.5	R0.3	2222-15	
5-25mm	0.03mm	35	1.5	1.0	R0.3	2222-25	
10-30mm	0.03mm	55	5.5	2.5	R0.5	2222-301	
20-40mm	0.03mm	80	6.0	3.0	R0.5	2222-401	

DIGITAL CALIPER GAUGES - 2131

External

- Resolution:0.005mm/0.0002”
- Repeatability: 0.01mm
- Display can be rotated by 170°
- Button function: tolerance Go and No-Go display, data preset, max/min measurement, data holding, inch/metric conversion, ABS/INC
- CR2032 battery, automatic power off
- Data output

DATA OUTPUT



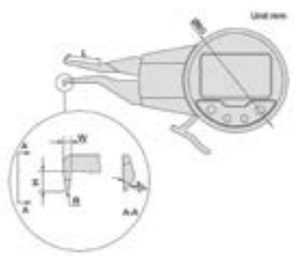
Range	Accuracy	L	H	W	R	ORDER CODE	
0-20mm	0.03mm	80	25	6.5	0.5	2131-21	

DIGITAL CALIPER GAUGES - 2121

Internal

- Resolution:0.005mm/0.0002”
- Repeatability: 0.01mm
- Display can be rotated by 170°
- Button function: tolerance Go and No-Go display, data preset, max/min measurement, data holding, inch/metric conversion, ABS/INC
- CR2032 battery, automatic power off
- Data output

DATA OUTPUT

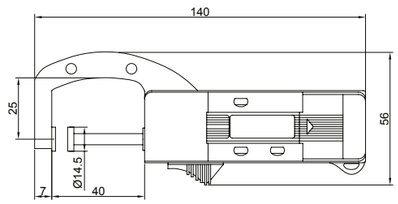


Range	Accuracy	Repeatability	L	H	W	R	ORDER CODE	
5-15mm/0.2-0.6”	± 0.03mm	0.01mm	20	2	1.5	R0.3	2121-15	
2-25mm/0.2-1.0”	± 0.03mm	0.01mm	35	1.5	1.0	R0.3	2121-25	
10-30mm/4-1.2”	± 0.03mm	0.01mm	55	5.5	2.5	R0.5	2121-31	
20-40mm/0.8-1.6”	± 0.03mm	0.01mm	80	6.0	3.0	R0.5	2121-41	

MEASURING & GAUGING
ASSORTED GAUGES

DIGITAL SNAP GAUGE - 2167

With Metric & Inch Reading

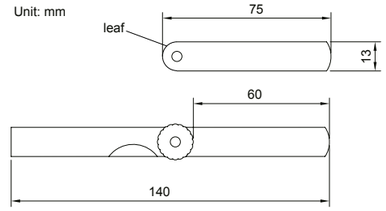


Range mm (inch)	Resolution mm (inch)	Accuracy mm	ORDER CODE	
0-25 (0-1")	0.01 (0.0005")	±0.03	2167-25	

FEELER GAUGE (25 LEAF SET) - 4601

Made of Hardened Alloy Steel

- Accuracy: ±(3+T/80) µm, ‘T’ is the thickness of leaves in µm

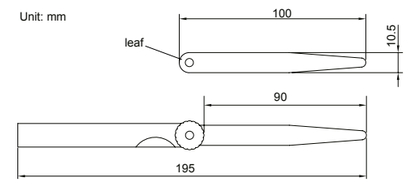


Range mm	Thickness Of Leaves Included mm	ORDER CODE	
0.04-1.00	0.04, 0.05, 0.06, 0.07, 0.08, 0.09, 0.1, 0.15, 0.2, 0.25, 0.3, 0.35, 0.4, 0.45, 0.5, 0.55, 0.6, 0.65, 0.7, 0.75, 0.8, 0.85, 0.9, 0.95, 1	4601-25	

FEELER GAUGE SET - 4602

Made of Hardened Alloy Steel

- Accuracy: ±(3+T/80) µm, ‘T’ is the thickness of leaves in µm



Range mm	Thickness Of Leaves Included mm	QTY OF LEAVES	ORDER CODE	
0.03 - 0.5	0.03, 0.04, 0.05, 0.06, 0.07, 0.08, 0.09, 0.1, 0.15, 0.2, 0.3, 0.4, 0.5	13	4602-13A	
0.05 - 1	0.05, 0.1, 0.15, 0.2, 0.25, 0.3, 0.4, 0.5, 0.6, 0.7, 0.8, 0.9, 1	13	4602-13	
0.02 - 1	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, 0.5, 0.75, 1	17	4602-17	
0.05 - 1	0.05, 0.1, 0.15, 0.2, 0.25, 0.3, 0.35, 0.4, 0.45, 0.5, 0.55, 0.6, 0.65, 0.7, 0.75, 0.8, 0.85, 0.9, 0.95, 1	20	4602-20	
0.05 - 1	0.05, 0.06, 0.07, 0.08, 0.09, 0.1, 0.11, 0.12, 0.13, 0.14, 0.15, 0.2, 0.25, 0.3, 0.35, 0.4, 0.45, 0.5, 0.55, 0.6, 0.65, 0.7, 0.75, 0.8, 0.85, 0.9, 0.95, 1	28	4602-28	
0.03 - 1	0.03, 0.04, 0.05, 0.06, 0.07, 0.08, 0.09, 0.1, 0.13, 0.15, 0.18, 0.2, 0.23, 0.25, 0.28, 0.3, 0.33, 0.35, 0.38, 0.4, 0.45, 0.5, 0.55, 0.6, 0.63, 0.65, 0.7, 0.75, 0.8, 0.85, 0.9, 1	32	4602-32	

PITCH GAUGE - 4820

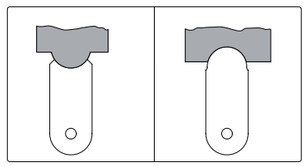
For Checking Thread Pitch Size

- Check the pitch of screw threads
- Accuracy: ±0.07mm

Range	Thread Type	Radius Of Leaves Included mm	Qty Of Leaves	ORDER CODE	
0.25 - 7.0mm	Metric 60°	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, 7	24	4820-124	
0.25 - 6.0mm	Metric 60°	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, 6	24	4820-1241	
4 - 42 TPI	Unified 60°	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, 42 TPI	30	4820-230	
4 - 62 TPI	Whitworth 55°	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, 62 TPI	28	4820-328	

RADIUS GAUGE - 4801

For Checking Radius Size

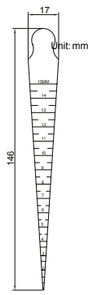


Range mm	Radius of leaves included mm	Qty Of Leaves	Accuracy mm	ORDER CODE	
1 - 7	1, 1.25, 1.5, 1.75, 2, 2.25, 2.5, 2.75, 3, 3.5, 4, 4.5, 5, 5.5, 6, 6.5, 7	17/17	±0.03	4801-17	
7.5 - 15	7.5, 8, 8.5, 9, 9.5, 10, 10.5, 11, 11.5, 12, 12.5, 13, 13.5, 14, 14.5, 15	16/16	±0.035	4801-16	
15.5 - 25	15.5, 16, 16.5, 17, 17.5, 18, 18.5, 19, 19.5, 20, 21, 22, 23, 24, 25	15/15	±0.042	4801-15	

TAPER GAUGE - 4833

Made of Stainless Steel

- Measure opening, slot width, hole size, etc.



Range mm	Graduation mm (inch)	Accuracy mm	ORDER CODE	
0.8 - 15	0.1	±0.1mm	4833-1	

TELESCOPING GAUGE SET - 4833

6 Gauges Per Set

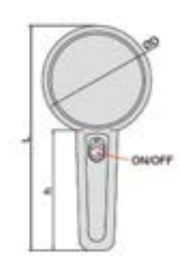
- 6 gauges per set
- For quick measurement of inside diameter of holes and width of slots
- Satin chrome finish

Range mm	ORDER CODE	
8-150	4206-1	

HAND MAGNIFIER - 7513

With Illumination

- Glass lens
- 2x LED lights operated with ON/OFF switch
- LED lights used to illuminate viewing area
- Powered by 3x AAA batteries (included)



Magnification	Lens Diameter	L	H	ORDER CODE	
2X	75mm	170	90	7513-2	
4X	50mm	145	90	7513-4	

TABLE MAGNIFIER - 7516

With Illumination

- LED illumination, working life 20000h

Magnification	Lens Diameter	ORDER CODE	
2.25x	122mm	7516-5D	

FOLDING MAGNIFIER - 7511

Pocket Style

Magnification	Lens Diameter	ORDER CODE	
8x	21mm	7511-8	

TABLE MAGNIFIER - 7517

With Illumination

- Four steps brightness adjustments
- LED illuminations, working life 20000h
- Resin lens

Magnification	Lens Diameter	ORDER CODE	
1.75x	125mm	7517-3D	

THREE WAY MAGNIFIER - 7512

With Illumination

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

Magnification	Lens Diameter	ORDER CODE	
2x/4x	28, 120mm	7512-1	

FOLDING MAGNIFIER - 7515

With Illumination

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

Magnification	Lens Diameter	ORDER CODE	
10X	21mm	7515-10	

MAGNALIUM STRAIGHT EDGE - 4180
Lightweight

- Made of magnalium, lightweight, non-deforming, no rust

Size	Flatness	Parallelism	ORDER CODE	
500mm	0.003mm	0.004mm	4180-500	
1000mm	0.005mm	0.008mm	4180-1000	
1500mm	0.015mm	0.022mm	4180-1500	

STRAIGHT EDGE - 4700
With Beveled Edge

- DIN 874
- Made of hardened stainless steel
- Satin chrome plating
- Beveled edge

SIZE	Straightness A to B	ORDER CODE	
100mm	0.0024mm	4700-100	
150mm	0.0026mm	4700-150	
200mm	0.0028mm	4700-200	
300mm	0.0032mm	4700-300	

GRANITE STRAIGHT EDGE - 4147
Highest Accuracy Grade 00

- Grade 00
- Flatness 0.0021-0.003mm
- Parallelism between top and bottom 0.0032-0.0045mm

Size	Flatness	Parallelism	ORDER CODE	
500mm	0.002mm	0.0032mm	4147-500A	
1000mm	0.003mm	0.0045mm	4147-1000A	

POCKET RULE - 7119
With Sliding Clip

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

Range mm / inch	ORDER CODE	
150mm / 6”	7119-150	

STAINLESS STEEL RULE - 7110
Economic type

- Graduation: 0.5mm, 1mm, 1/64”, 1/32”, 1/16”
- Rigid rules
- Made of Stainless Steel
- Non-glare surface

Range mm / inch	Length	Width	Height	ORDER CODE	
150 / 6”	170	18	1	7110-150	
200 / 8”	220	18	1	7110-200	
300 / 12”	330	25	1	7110-300	
500 / 20”	530	30	1.2	7110-500	
600 / 24”	630	30	1.2	7110-600	
1000 / 40”	1040	32	1.5	7110-1000	
1200 / 48”	1240	35	1.8	7110-1200	
2000 / 80”	2065	40	2	7110-2000	

MEASURING & GAUGING
ASSORTED MEASURING TOOLS

ALUMINIUM RULES - 7123
Economic Type

- Graduation: 1mm
- Made of aluminium, oxidized surface

Range mm	Length	ORDER CODE	
300	50	7123-300	
600	50	7123-600	
1000	50	7123-1000	

FOLDING MAGNIFIER - 7514
With illumination

- Resin lens.
- Powered by 2xCR1620 batteries (included).
- LED lights up automatically when opened.

Magnification	Lens Diameter	ORDER CODE	
2.5x	45mm	7514-1	

MAGNETIC PICK-UP - 7161
Telescoping

- Pick-up magnetic parts from hidden areas.
- 360° rotation of magnetic head.
- Length of the handle is adjustable.
- Handle made of brass and chrome plated.

Size Of Magnification Tip	Magnetic Force	Length	ORDER CODE	
6mm	0.45kgf	178-505mm	7161-1	

INSPECTION MIRRORS - 7160
Telescoping Type

- Used to inspect hidden areas (e.g. inspecting behind a workpiece without removing it from the machine).
- 360° rotation of the mirror.
- Length of the handle is adjustable.
- Handle is made of brass and chrome plated.
- Available in either a circular or rectangular shape.

Size of Mirror	Length	ORDER CODE	
32mm (Circular diameter)	178-505mm	7160-1	
50x90mm (Rectangle width x length)	330-490mm	7160-2	

V-BLOCK SET - 6888
Roller Bearing Type

- Bearings prevent workpieces from damage
- Suitable for heavy workpieces

SIZE	Bearing Diameter	Diameter Range	ORDER CODE	
150x60x100	42	25-70	6888-1	
150x80x100	47	5-55	6888-2	
230x100x150	72	70-200	6888-3	

V-BLOCK SET - 6887
Made Of Hardened Tool Steel

- 2 V-blocks per set

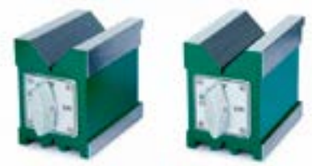
Size	Diameter Range Upper	Diameter Range Lower	ORDER CODE	
50x19x24	3-32	3-16	6887-1	
75x24x35	3-50	3-20	6887-2	
100x33x52	3-68	3-26	6887-3	
125x44x69	3-87	3-34	6887-4	

GRANITE V-BLOCK SETS - 6888
Two V-Blocks Per Set

Size	Diameter Range	Parallelism V-Groove To Bottom	ORDER CODE	
70x50x70	6-75	4µm	6897-1	
100x100x70	6-99	4µm	6897-2	

INDIVIDUAL MAGNETIC V-BLOCK & SETS - 6889
High Precision With Hardened Surfaces

- Hardened to HRc60+/-2
- Magnetic force on top, bottom and two v-grooves
- V-groove on top for large shafts
- V-groove on top for small shafts
- Suitable for cast iron and granite surface plates



Individual

Size	Diameter Range	Magnetic Force	Parallelism Of Both V Groove To Top, Bottom, Left, Right Sides	Squareness Of Both V Grooves To Back Side	Height Difference Of A Matched Pair	ORDER CODE	
75x56x75	5-40	85kgf	5µm	5µm	5µm	6889-11	
100x70x95	5-65	150kgf	5µm	5µm	5µm	6889-22	
150x75x100	5-70	190kgf	5µm	5µm	5µm	6889-33	
200x124x150	10-140	400kgf	10µm	10µm	10µm	6889-44	

Sets (Pair)

Size	Diameter Range	Magnetic Force	Parallelism Of Both V Groove To Top, Bottom, Left, Right Sides	Squareness Of Both V Grooves To Back Side	Height Difference Of A Matched Pair	ORDER CODE	
75x56x75	5-40	85kgf	5µm	5µm	5µm	6889-1	
100x70x95	5-65	150kgf	5µm	5µm	5µm	6889-2	
150x75x100	5-70	190kgf	5µm	5µm	5µm	6889-3	
200x124x150	10-140	400kgf	10µm	10µm	10µm	6889-4	

MAGNETIC V-BLOCK - 6890
For Inspecting 6-44mm Diameter Cylindrical Workpieces

- Hold cylindrical workpieces for inspection
- Supplied in single piece
- Not hardened
- Not suitable for steel or iron surfaces

Size	Diameter Range	Magnetic force	ORDER CODE	
70x60x73mm	4-44	56kgf	6890-702	

MAGNETIC V-BLOCK SET - 6891
For Inspecting 6-125mm Diameter Cylindrical Workpieces

- Parallelism of V-groove to top, bottom, left and right sides 0.01mm.
- Squareness of V-groove to back side 0.01mm.
- Height differer
- Two V-blockes

Size	Diameter Range	Magnetic force	ORDER CODE	
70x40x50mm	4-46	8kgf	6891-1	
150x50x100mm	6-125	14kgf	6891-3	

MAGNETIC V-BLOCK - 6801
For Inspecting 6-67mm Diameter Cylindrical Workpieces

- Hold cylindrical workpieces for inspection
- Supplied in single pieces
- Not hardened
- V groove on the top for large shafts
- Not suitable for steel or iron surface, otherwise the magnetic force will be reduced

Size	Magnetic Force	Diameter Range	Parallelism Of Both V Groove To Top, Bottom, Left, Right Sides	Squareness Of Both V Grooves To Back Side	ORDER CODE	
80x70x95	64kgf	6-67	10µm	10µm	6801-1201	
100x70x95	80kgf	6-67	10µm	10µm	6801-1202	
120x70x95	96kgf	6-67	10µm	10µm	6801-1203	

MAGNETIC INDUCTION V-BLOCK - 6892
For Use On Magnetic Chucks

- Hold cylindrical workpieces for inspection
- Supplied individually
- V-groove on the top for large shafts
- V groove on the bottom for small shafts

Size	Diameter Range	Pole Pitch	ORDER CODE	
110x60x48mm	6-50	2.5+	6892-1	

V GROOVE GRANITE SQUARE - 4142

For 9-70mm Cylindrical Workpieces

- Parallelism and squareness within 6µm

Size	Range Of Shafts D1	ORDER CODE	
200x200x200	9-70	4142-200	

MACHINIST SQUARE - 4796

Economy Type

- Made of carbon steel.
- DIN875 grade 2.

Size	Inside Squareness	Outside Squareness	ORDER CODE	
50x30	24µm	25µm	4796-50	
75x50	26µm	28µm	4796-75	
100x70	28µm	30µm	4796-100	
125x80	30µm	33µm	4796-125	
150x100	33µm	35µm	4796-150	
200x130	38µm	40µm	4796-200	
250x165	43µm	45µm	4796-250	
300x200	47µm	50µm	4796-300	
350x200	51µm	55µm	4796-350	
400x200	56µm	60µm	4796-400	
450x250	58µm	65µm	4796-450	
500x300	69µm	70µm	4796-500	

90° FLAT EDGE SQUARE - 4791

Made From Hardened Stainless Steel

- Made of hardened stainless steel.
- DIN875 grade 0.

Size	Inside Squareness	Outside Squareness	ORDER CODE	
50x40	0.006	0.006	4791-50	
75x50	0.006	0.007	4791-75	
100x70	0.007	0.007	4791-100	
150x100	0.007	0.008	4791-150	
200x130	0.008	0.009	4791-200	
250x165	0.009	0.010	4791-250	
300x200	0.010	0.011	4791-300	

90° BEVELED EDGE SQUARE - 4790

With Satin Chrome Plating

- Satin chome plating.
- Beveled edges for inside and outside measurement
- Made of hardened stainless steel

Size	Inside Squareness	Outside Squareness	ORDER CODE	
50x40	0.0024	0.0025	4790-050	
75x50	0.0026	0.0028	4790-075	
100x70	0.0028	0.0030	4790-0100	
150x100	0.0032	0.0035	4790-0150	
200x130	0.0037	0.0040	4790-0200	
300x200	0.0046	0.0050	4790-0300	

MEASURING & GAUGING
ASSORTED MEASURING TOOLS

90° FLAT EDGE SQUARE - 4793

With Wide Base

- Made of hardened stainless steel.
- DIN875 grade 0.

Size	Inside Squareness	Outside Squareness	ORDER CODE	
50x40	6µm	6µm	4793-50	
75x50	6µm	7µm	4793-75	
100x70	7µm	7µm	4793-100	
150x100	7µm	8µm	4793-150	
200x130	8µm	9µm	4793-200	
250x165	9µm	10µm	4793-250	
300x200	10µm	11µm	4793-300	

STEEL SQUARE WITH WIDE BASE - 4707

Economy Type

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

Size	Inside Squareness	Outside Squareness	ORDER CODE	
75x50	26µm	28µm	4707-75	
100x70	28µm	30µm	4707-100	
150x100	33µm	35µm	4707-150	
200x130	37µm	40µm	4707-200	
250x165	42µm	45µm	4707-250	
300x200	47µm	50µm	4707-300	
400x250	56µm	60µm	4707-400	
500x300	65µm	70µm	4707-500	

90° FLAT EDGE SQUARE - 4705

Made From Lightweight Magnalium

- Wide base

Size	Inside Squareness	Outside Squareness	ORDER CODE	
630x400	107µm	113µm	4705-630	
800x500	123µm	130µm	4705-800	
1000x630	143µm	150µm	4705-1000	
1250x800	168µm	175µm	4705-1250	
1600x1000	203µm	210µm	4705-1600	
2000x1250	243µm	250µm	4705-2000	
2600x1500	303µm	310µm	4705-2600	

TRY SQUARE - 2275

1mm Graduation

- Stainless steel blade
- Aluminium base

Size	Inside Squareness	Outside Squareness	ORDER CODE	
300x170	0.5	0.5	2275-300	

45° SQUARE WITH EDGE BASE - 4747

Made of hardened stainless steel

Size	Inside Accuracy	Outside Accuracy	ORDER CODE	
150x100	32µm	36µm	4747-150	
200x130	36µm	41µm	4747-200	

PLAIN PLUG GAUGE

Go/No Go

- Supplied with Go and No-Go together
- Class H7
- Hardness HRc60+/-2

Size	ORDER CODE		Size	ORDER CODE	
2	4124-2		40	4124-40	
3	4124-3		41	4124-41	
4	4124-4		42	4124-42	
5	4124-5		43	4124-43	
6	4124-6		44	4124-44	
7	4124-7		45	4124-45	
8	4124-8		46	4124-46	
9	4124-9		47	4124-47	
10	4124-10		48	4124-48	
11	4124-11		49	4124-49	
12	4124-12		50	4124-50	
13	4124-13		52	4124-52	
14	4124-14		55	4124-55	
15	4124-15		60	4124-60	
16	4124-16		65	4124-65	
17	4124-17		70	4124-70	
18	4124-18		75	4124-75	
19	4124-19		80	4124-80	
20	4124-20		85	4124-85	
21	4124-21		90	4124-90	
22	4124-22		95	4124-95	
23	4124-23		100	4124-100	
24	4124-24				
25	4124-25				
26	4124-26				
27	4124-27				
28	4124-28				
29	4124-29				
30	4124-30				
31	4124-31				
32	4124-32				
33	4124-33				
34	4124-34				
35	4124-35				
36	4124-36				
37	4124-37				
38	4124-38				
39	4124-39				

VIBRATION PEN - 9720

Measures Vibration To Prevent Tool Failure

- Measures vibration of machine tools, motors, fans, pumps and compressors to prevent tool failure
- Small size, lightweight, low energy consumption, easy operaton
- One key control
- Automatic power off

Range	Frequency	ORDER CODE	
0.1-199.9mm/s	10Hz-1KHz	9720-199	

ALUMINIUM LEVEL - 4913

With Magnetic Base

- Shockproof horizontal and vertical vials
- Magnetic base
- Working temperature: -15° - 55 °C
- Cast aluminium body

Size	Accuracy	ORDER CODE	
250mm	0.5mm/m	4913-250	

DIGITAL SOUND LEVEL METER - 9351

With Over Range Indicator

- Automatically select best range: 30-80dB, 40-90dB, 50-100dB, 60-110dB, 70-120dB, 80-130dB
- Real time, average, maximum modes
- Memory 16000 measurement values
- AC signal output: 0.707 Vrms at FS, impedance approx. 600 DC signal output: 10mV/dB, impedance approx.100
- Automatic power off

ORDER CODE	
9351-130	

DIGITAL LEVEL - 4914

With Magnetic Base

- Shockproof horizontal and vertical vials
- Magnetic base
- Shock absorbing rubber end caps
- Working temperature: -15° - 55 °C

Size	Accuracy	ORDER CODE	
600mm	0.5mm/m	4914-600	
1000mm	0.5mm/m	4914-1000	

PORTABLE REFRACTOMETER

Measure The Concentration Of 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 (2.1x 6%)=12.6%

Measuring Range	Graduation	Diameter	ORDER CODE	
0-32%	0.2%	27x40x160mm	ISQ-RM30	

DIGITAL LEVEL - 4910

With Magnetic Bottom

- With transverse and longitudinal vials
- Used as level and protractor
- Aluminium 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)
- Accuracy: 0.2°+/-
- Angle: 0.1°; slope: 1mm/m

Range	ORDER CODE	
0-360 (90x4)	4910-600	

ROUGHNESS TESTER - ISR-S400

Measuring Range Up To 400µm

- Automatic probe levelling
- Language: English, French, Germany, Italian, Spanish & Portuguese
- 12 roughness parameters
- Can set tolerance
- Measuring range up to 400µm, can measure grit and shot blasting
- Traverse length up to 16mm
- The probe can be set at 90 or 270 degrees
- Memory of maximum 100 results
- Stand and software CD includes

SCAN ME

WATCH VIDEO

Range	Accuracy	Resolution	Measuring Force	Measuring Unit	ORDER CODE	
Ra: 0~100µm Rt: 0.05~400µm	+/-3%	0.001µm	0.75mN	µm/µin	ISR-S400	

ROUGHNESS TESTER - ISR-C003

With 4 Roughness Parameters (Ra, Rz, Rq, Rt).

- Roughness parameters (Ra, Rz, Rq, Rt).
- Measuring range up to 50µm.
- Outmatic power off.
- Main unit.
- Calibration block.
- AC/DC adapter.

SCAN ME

WATCH VIDEO

Range	Accuracy	Resolution (Ra)	Measuring Force	Measuring Unit	ORDER CODE	
Ra, Rq 0.05~15µm Rz, Rt: 0.1~50µm	+/-10%	0.01µm	5mN	µm/µin	ISR-C003	

SURFACE ROUGHNESS SPECIMEN SET - ISR-CS130-W

30 Piece Set Made Of Carbon Steel

- For checking, identifying and specifying the roughness by symbol
- Rust-proof, made of pure nickel

Machining Method	Roughness (Ra)	Roughness (Rz)	Quantity
Flat Lapping	0.05, 0.1, 0.2 2, 4, 8	0.55, 1, 1.6	3pcs
Reaming	0.4, 0.8, 1.6 16, 32, 63	3, 6, 10	3pcs
Plain Grinding	0.05, 0.1, 0.2, 0.4, 0.8, 1.6 2.4, 8, 1.6, 32, 63	0.55, 1, 1.6, 3, 6, 10	6pcs
Horizontal Milling	0.4, 0.8, 1.6, 3.2, 6.3, 12.5 16, 32, 63, 125, 250, 500	2.5, 4, 8, 16, 32, 50	6pcs
Vertical Milling	0.4, 0.8, 1.6, 3.2, 6.3, 12.5 16, 32 63, 125, 250, 500	2.5, 4, 8, 16, 32, 50	6pcs
Turning	0.4, 0.8, 1.6, 3.2, 6.3, 12.5 16, 32, 63, 125, 250, 500	2.5, 4, 8, 16, 32, 50	6pcs

ORDER CODE	
ISR-CS130-W	

PORTABLE LEEB HARDNESS TESTER - ISH-SPHA

Supplied With Manufacturer's Inspection Certificate

- Based on Leeb (HL), converted to Vickers, Brinell, Rockwell etc.
- Memory of up to 800 results can be saved
- Touch screen operation
- Large display with back light
- Auto power off
- Connect to computer via USB
- Connect to printer via bluetooth
- Includes software CD, test block and support ring

Min. Reading	Accuracy	ORDER CODE	
1HL, 1HV, 1HMB, 0.1HRC, 0.1HRB, 1HS, 1Mpa	+/-6HL (when HL=800)	ISH-SPHA	

PORTABLE LEEB HARDNESS TESTER (BATTERY OPERATED) - ISH-PHB

Supplied With Manufacturer's Inspection Certificate

- Based on Leeb (HL), converted to Vickers, Brinell, Rockwell etc
- Memory of up to 99 results can be saved
- Set measurement times (1-9) to have average value
- Connected with printer via bluetooth
- Auto power off
- According to ASTM A956
- Includes test block and support ring

Min. Reading	Accuracy	ORDER CODE	
1HLD, 1HV, 1HB, 0.1HRC, 0.1HRB, 1HS, 1MPa	+/-6HLD (when HLD=800)	ISH-PHB	

PORTABLE LEEB HARDNESS TESTER (HIGH ACCURACY) - HDT-L410

Supplied With Manufacturer's Inspection Certificate

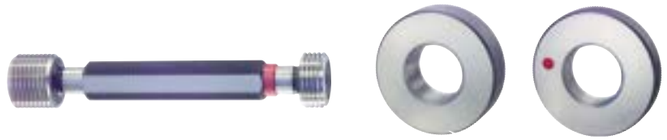
- Metal housing
- HD TFT 320x320 display
- Impact device D
- Based on Leeb (HL), converted to Vickers, Brinell, Rockwell etc
- Four display modes
- Automatic direct correction
- Tolerance testing
- Auto power off, auto calculation of statistics
- Dual value display, shows both Leev & other conversion values
- 31 files can be saved, each containing 100 measurement data
- Connect to PC via USB or Bluetooth 2.0
- Connect to printer via Bluetooth
- According to ASTM A956, DIN50156, GB/T 17394
- Includes test block and support ring

Resolution	Accuracy	ORDER CODE	
1HLD, 1HV, 1HB, 0.1HRC, 0.1HRB, 0.1HRA, 0.1HS, 1SGM	+/-4HLD (when HLD=800)	HDT-L410	

METRIC COARSE THREAD GAUGES

Made in Germany

- Metric coarse
- Right Hand
- Made in Germany



Dia.	Pitch mm	6H Plug Gauge (Go/No-Go)		6g Ring Gauge (Go)		6g Ring Gauge (No-Go)	
		ORDER CODE		ORDER CODE		ORDER CODE	
2	0.4	JBO-PG-511859		JBO-RG-501700		JBO-RG-500404	
2.2	0.45	JBO-PG-511873		JBO-RG-501714		JBO-RG-500419	
2.3	0.4	JBO-PG-511879		JBO-RG-501720		JBO-RG-500425	
2.5	0.45	JBO-PG-511883		JBO-RG-501724		JBO-RG-500429	
2.6	0.45	JBO-PG-511894		JBO-RG-501739		JBO-RG-500441	
3	0.5	JBO-PG-512036		JBO-RG-501903		JBO-RG-500596	
3.5	0.6	JBO-PG-512059		JBO-RG-501919		JBO-RG-500611	
4	0.7	JBO-PG-512177		JBO-RG-502047		JBO-RG-500734	
4.5	0.75	JBO-PG-512202		JBO-RG-502069		JBO-RG-500752	
5	0.8	JBO-PG-512218		JBO-RG-502138		JBO-RG-500822	
6	1	JBO-PG-512252		JBO-RG-502214		JBO-RG-500896	
7	1	JBO-PG-512286		JBO-RG-502271		JBO-RG-500948	
8	1.25	JBO-PG-512305		JBO-RG-502301		JBO-RG-500980	
9	1.25	JBO-PG-512345		JBO-RG-502347		JBO-RG-501024	
10	1.5	JBO-PG-511646		JBO-RG-501452		JBO-RG-500158	
11	1.5	JBO-PG-511679		JBO-RG-501492		JBO-RG-500201	
12	1.75	JBO-PG-511689		JBO-RG-501512		JBO-RG-500218	
14	2	JBO-PG-511730		JBO-RG-501572		JBO-RG-500277	
16	2	JBO-PG-511776		JBO-RG-501623		JBO-RG-500327	
18	2.5	JBO-PG-511820		JBO-RG-501663		JBO-RG-500370	
20	2.5	JBO-PG-511902		JBO-RG-501748		JBO-RG-500447	
22	2.5	JBO-PG-511934		JBO-RG-501782		JBO-RG-500479	
24	3	JBO-PG-511965		JBO-RG-501815		JBO-RG-500508	
27	3	JBO-PG-512005		JBO-RG-501868		JBO-RG-500559	
30	3.5	JBO-PG-512075		JBO-RG-501929		JBO-RG-500623	
33	3.5	JBO-PG-512108		JBO-RG-501975		JBO-RG-500664	
36	4	JBO-PG-512144		JBO-RG-502011		JBO-RG-500696	
39	4	JBO-PG-512166		JBO-RG-502039		JBO-RG-500723	

NPT/NPTF THREAD GAUGES

- NPT/NPTF stepped limit gauges
- Right Hand
- Made in Germany

NPT NPTF	TPI	Plug Gauge (Go/No-Go)		Ring Gauge (Go/No-Go)	
		ORDER CODE		ORDER CODE	
NPT					
1/8"	27	JBO-PG-512505		JBO-RG-502675	
1/4"	18	JBO-PG-512504		JBO-RG-502673	
3/8"	18	JBO-PG-512510		JBO-RG-502681	
1/2"	14	JBO-PG-512503		JBO-RG-502672	
3/4"	14	JBO-PG-512509		JBO-RG-502680	
1"	11.5	JBO-PG-512499		JBO-RG-502668	
1 1/4"	11.5	JBO-PG-512501		JBO-RG-502670	
1 1/2"	11.5	JBO-PG-512500		JBO-RG-502669	
2"	11.5	JBO-PG-512506		JBO-RG-502677	
2 1/2"	8	JBO-PG-512507		JBO-RG-502678	
3"	8	JBO-PG-512508		JBO-RG-502679	
4"	8	JBO-PG-512511		JBO-RG-502683	
NPTF					
1/8"	27	JBO-PG-512545		JBO-RG-502700	
1/4"	18	JBO-PG-512544		JBO-RG-502699	
3/8"	18	JBO-PG-512547		JBO-RG-502702	
1/2"	14	JBO-PG-512543		JBO-RG-502698	
3/4"	14	JBO-PG-512546		JBO-RG-502701	
1"	11.5	JBO-PG-512539		JBO-RG-502697	
1 1/4"	11.5	JBO-PG-512541		JBO-RG-503479	
1 1/2"	11.5	JBO-PG-512540		JBO-RG-503480	
2"	11.5	JBO-PG-513622		JBO-RG-505713	
2 1/2"	8	JBO-PG-517008		JBO-RG-505885	
3"	8	JBO-PG-517007		JBO-RG-505886	

BSPT THREAD GAUGES

- BSPT stepped limit gauges
- Right Hand
- Made in Germany

BSPT	TPI	Plug Gauge (Go/No-Go)		Ring Gauge (Go/No-Go)	
		ORDER CODE		ORDER CODE	
1/8"	28	JBO-PG-514570		JBO-RG-503880	
1/4"	19	JBO-PG-514571		JBO-RG-503881	
3/8"	19	JBO-PG-514572		JBO-RG-503882	
1/2"	14	JBO-PG-514573		JBO-RG-503883	
3/4"	14	JBO-PG-514574		JBO-RG-503884	
1"	11	JBO-PG-514575		JBO-RG-503885	
1 1/4"	11	JBO-PG-514576		JBO-RG-503886	
1 1/2"	11	JBO-PG-514577		JBO-RG-503887	
2"	11	JBO-PG-514578		JBO-RG-503888	
2 1/2"	11	JBO-PG-514579		JBO-RG-503889	
3"	11	JBO-PG-517141		JBO-RG-506024	
4"	11	JBO-PG-516167		JBO-RG-546002	

View full range online, including left hand, different tolerances etc

UNC THREAD GAUGES

Made in Germany

- UNIFIED COARSE
- Right Hand
- Made in Germany

UNC	TPI	2B Plug Gauge (Go/No-Go)		2A Ring Gauge (Go)		2A Ring Gauge (No-Go)	
		ORDER CODE		ORDER CODE		ORDER CODE	
No1	64	JBO-PG-512363		JBO-RG-502377		JBO-RG-501051	
No2	56	JBO-PG-512368		JBO-RG-502382		JBO-RG-501057	
No3	48	JBO-PG-512373		JBO-RG-502386		JBO-RG-501061	
No4	40	JBO-PG-512375		JBO-RG-502388		JBO-RG-501063	
No5	40	JBO-PG-512382		JBO-RG-502392		JBO-RG-501066	
No6	32	JBO-PG-512384		JBO-RG-502393		JBO-RG-501067	
No8	32	JBO-PG-512389		JBO-RG-502396		JBO-RG-501070	
No10	24	JBO-PG-512365		JBO-RG-502379		JBO-RG-501053	
No12	24	JBO-PG-512367		JBO-RG-505676		JBO-RG-501055	
1/4"	20	JBO-PG-512403		JBO-RG-502406		JBO-RG-501080	
5/16"	18	JBO-PG-512410		JBO-RG-502416		JBO-RG-501088	
3/8"	16	JBO-PG-512408		JBO-RG-502413		JBO-RG-501085	
7/16"	14	JBO-PG-512415		JBO-RG-502421		JBO-RG-501093	
1/2"	13	JBO-PG-512401		JBO-RG-502404		JBO-RG-501078	
9/16"	12	JBO-PG-512419		JBO-RG-502425		JBO-RG-501097	
5/8"	11	JBO-PG-512413		JBO-RG-502419		JBO-RG-501091	
3/4"	10	JBO-PG-512406		JBO-RG-502411		JBO-RG-501083	
7/8"	9	JBO-PG-512417		JBO-RG-502423		JBO-RG-501095	
1"	8	JBO-PG-512392		JBO-RG-502398		JBO-RG-501072	
1 1/8"	7	JBO-PG-512398		JBO-RG-502401		JBO-RG-501075	
1 1/4"	7	JBO-PG-512396		JBO-RG-502400		JBO-RG-501074	
1 3/8"	6	JBO-PG-512399		JBO-RG-502403		JBO-RG-501077	
1 1/2"	6	JBO-PG-512394		JBO-RG-502399		JBO-RG-501073	

UNF THREAD GAUGES

Made in Germany

- UNIFIED FINE
- Right Hand
- Made in Germany

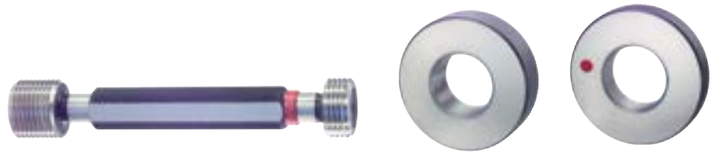
UNF	TPI	2B Plug Gauge (Go/No-Go)		2A Ring Gauge (Go)		2A Ring Gauge (No-Go)	
		ORDER CODE		ORDER CODE		ORDER CODE	
No. 0	80	JBO-PG-512421		JBO-RG-502426		JBO-RG-501099	
No. 1	72	JBO-PG-512424		JBO-RG-502428		JBO-RG-501101	
No. 2	64	JBO-PG-512432		JBO-RG-502436		JBO-RG-501108	
No. 3	56	JBO-PG-512434		JBO-RG-502438		JBO-RG-501110	
No. 4	48	JBO-PG-512436		JBO-RG-502440		JBO-RG-501112	
No. 5	44	JBO-PG-512438		JBO-RG-502442		JBO-RG-501114	
No. 6	40	JBO-PG-512440		JBO-RG-502444		JBO-RG-501116	
No. 8	36	JBO-PG-512442		JBO-RG-502446		JBO-RG-501118	
No. 10	32	JBO-PG-512426		JBO-RG-502430		JBO-RG-501103	
No. 12	28	JBO-PG-512431		JBO-RG-502433		JBO-RG-501106	
1/4"	28	JBO-PG-512456		JBO-RG-502458		JBO-RG-501130	
5/16"	24	JBO-PG-512466		JBO-RG-502469		JBO-RG-501140	
3/8"	24	JBO-PG-512462		JBO-RG-502466		JBO-RG-501137	
7/16"	20	JBO-PG-512472		JBO-RG-502475		JBO-RG-501146	
1/2"	20	JBO-PG-512454		JBO-RG-502455		JBO-RG-501127	
9/16"	18	JBO-PG-512478		JBO-RG-502481		JBO-RG-501152	
5/8"	18	JBO-PG-512469		JBO-RG-502472		JBO-RG-501143	
3/4"	16	JBO-PG-512460		JBO-RG-502461		JBO-RG-501133	
7/8"	14	JBO-PG-512476		JBO-RG-502478		JBO-RG-501149	
1"	12	JBO-PG-512444		JBO-RG-502448		JBO-RG-501120	
1 1/8"	12	JBO-PG-512451		JBO-RG-502453		JBO-RG-501125	
1 1/4"	12	JBO-PG-512449		JBO-RG-502452		JBO-RG-501124	
1 3/8"	12	JBO-PG-512453		JBO-RG-502454		JBO-RG-501126	
1 1/2"	12	JBO-PG-512446		JBO-RG-502451		JBO-RG-501123	

View full range online, including left hand, different tolerances etc

WHITWORTH THREAD GAUGES

Made in Germany

- Right Hand
- Made in Germany



BSW BSF BSP(G)	TPI	Plug Gauge (Go/No-Go)		Ring Gauge (Go)		Ring Gauge (No-Go)	
		ORDER CODE		ORDER CODE		ORDER CODE	
BSW							
1/8"	40	JBO-PG-512632		JBO-RG-502615		JBO-RG-501273	
3/16"	24	JBO-PG-512641		JBO-RG-502626		JBO-RG-501280	
1/4"	20	JBO-PG-512631		JBO-RG-502614		JBO-RG-501272	
5/16"	18	JBO-PG-512646		JBO-RG-502631		JBO-RG-501285	
3/8"	16	JBO-PG-512644		JBO-RG-502629		JBO-RG-501283	
7/16"	14	JBO-PG-512650		JBO-RG-502635		JBO-RG-501288	
1/2"	12	JBO-PG-512630		JBO-RG-502613		JBO-RG-501271	
9/16"	12	JBO-PG-512653		JBO-RG-502640		JBO-RG-501293	
5/8"	11	JBO-PG-512649		JBO-RG-502633		JBO-RG-501287	
3/4"	10	JBO-PG-512643		JBO-RG-502628		JBO-RG-501282	
7/8"	9	JBO-PG-512652		JBO-RG-502638		JBO-RG-501291	
1"	8	JBO-PG-512625		JBO-RG-502606		JBO-RG-501263	
1 1/8"	7	JBO-PG-513033		JBO-RG-502608		JBO-RG-501266	
1 1/4"	7	JBO-PG-512628		JBO-RG-503134		JBO-RG-501265	
1 3/8"	6	JBO-PG-516821		JBO-RG-502611		JBO-RG-501269	
1 1/2"	6	JBO-PG-512627		JBO-RG-503133		JBO-RG-501264	
BSF							
3/16"	32	JBO-PG-513282		JBO-RG-540040		JBO-RG-520239	
7/32"	28	JBO-PG-520126		JBO-RG-520234		JBO-RG-520240	
1/4"	26	JBO-PG-512529		JBO-RG-502498		JBO-RG-501168	
9/32"	26	JBO-PG-520127		JBO-RG-520235		JBO-RG-520241	
5/16"	22	JBO-PG-513872		JBO-RG-502501		JBO-RG-501170	
3/8"	20	JBO-PG-513553		JBO-RG-502500		JBO-RG-501169	
7/16"	18	JBO-PG-518434		JBO-RG-520236		JBO-RG-520242	
1/2"	16	JBO-PG-512528		JBO-RG-502497		JBO-RG-501167	
9/16"	16	JBO-PG-514907		JBO-RG-507251		JBO-RG-507252	
5/8"	14	JBO-PG-520128		JBO-RG-520237		JBO-RG-520243	
11/16"	14	JBO-PG-513216		JBO-RG-520238		JBO-RG-520244	
3/4"	12	JBO-PG-512530		JBO-RG-502499		JBO-RG-505546	
7/8"	11	JBO-PG-516815		JBO-RG-540035		JBO-RG-540017	
1"	10	JBO-PG-512527		JBO-RG-502496		JBO-RG-501166	
BSP(G)							
1/16"	28	JBO-PG-511577		JBO-RG-501361		JBO-RG-500066	
1/8"	28	JBO-PG-511589		JBO-RG-501376		JBO-RG-500083	
1/4"	19	JBO-PG-511584		JBO-RG-501371		JBO-RG-500077	
3/8"	19	JBO-PG-511597		JBO-RG-501399		JBO-RG-500104	
1/2"	14	JBO-PG-511578		JBO-RG-501362		JBO-RG-500067	
5/8"	14	JBO-PG-511601		JBO-RG-501408		JBO-RG-500112	
3/4"	14	JBO-PG-511593		JBO-RG-501391		JBO-RG-500098	
7/8"	14	JBO-PG-511602		JBO-RG-501414		JBO-RG-500117	
1"	11	JBO-PG-511573		JBO-RG-501337		JBO-RG-500043	
1 1/8"	11	JBO-PG-511576		JBO-RG-501358		JBO-RG-500063	

View full range online, including left hand, different tolerances etc

UNJ THREAD GAUGES

Made in Germany

- UNJC/UNJF ANSI/ASME B1.2
- Right Hand
- Made in Germany

UNJC UNJF	TPI	3B Plug Gauge (Go/No-Go)		3A Ring Gauge (Go)		3A Ring Gauge (No-Go)	
		ORDER CODE		ORDER CODE		ORDER CODE	
UNJC							
No. 2	56	JBO-PG-514228		JBO-RG-504210		JBO-RG-504211	
No. 4	40	JBO-PG-511603		JBO-RG-503593		JBO-RG-503594	
No. 6	32	JBO-PG-511604		JBO-RG-505569		JBO-RG-500119	
No. 8	32	JBO-PG-511605		JBO-RG-501415		JBO-RG-500120	
No. 10	24	JBO-PG-514625		JBO-RG-547026		JBO-RG-544018	
1/4"	20	JBO-PG-518292		JBO-RG-547027		JBO-RG-544019	
5/16"	18	JBO-PG-516556		JBO-RG-547028		JBO-RG-544020	
3/8"	16	JBO-PG-515276		JBO-RG-507449		JBO-RG-544021	
7/16"	14	JBO-PG-515969		JBO-RG-554996		JBO-RG-554997	
UNJF							
No. 4	48	JBO-PG-514760		JBO-RG-547029		JBO-RG-544022	
No. 6	40	JBO-PG-518725		JBO-RG-505347		JBO-RG-505348	
No. 8	36	JBO-PG-514327		JBO-RG-501418		JBO-RG-500123	
No. 10	32	JBO-PG-511606		JBO-RG-501417		JBO-RG-500122	
No. 12	28	JBO-PG-517771		JBO-RG-504244		JBO-RG-504245	
1/4"	28	JBO-PG-511609		JBO-RG-501419		JBO-RG-500125	
5/16"	24	JBO-PG-511612		JBO-RG-501422		JBO-RG-500127	
3/8"	24	JBO-PG-511611		JBO-RG-501421		JBO-RG-500126	
7/16"	20	JBO-PG-511615		JBO-RG-501424		JBO-RG-500129	
1/2"	20	JBO-PG-511608		JBO-RG-502986		JBO-RG-502985	
9/16"	18	JBO-PG-511617		JBO-RG-501425		JBO-RG-500130	
5/8"	18	JBO-PG-511614		JBO-RG-501423		JBO-RG-500128	
3/4"	16	JBO-PG-511610		JBO-RG-501420		JBO-RG-503100	
7/8"	14	JBO-PG-511616		JBO-RG-503651		JBO-RG-503652	
1"	12	JBO-PG-511607		JBO-RG-503703		JBO-RG-500124	

View full range online, including left hand, different tolerances etc

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