

## ELECTRONIC CALIPER



- Resolution: 0.01mm/0.0005"
- Series 1106: 10mm or 20mm width of internal measuring jaws
- Made of hardened stainless steel

Code	Range	Jaw length
1106-256A	0-250mm/0-10"	60mm/2.4"
1106-307	0-300mm/0-12"	75mm/3"
1106-403	0-400mm/0-16"	200mm/7.9"
1106-404	0-400mm/0-16"	250mm/9.8"
1106-504	0-500mm/0-20"	250mm/9.8"
1106-604	0-600mm/0-24"	250mm/9.8"
1106-605	0-600mm/0-24"	300mm/11.8"
1106-803	0-800mm/0-32"	200mm/7.9"
1106-1004	0-1000mm/0-40"	250mm/9.8"
1106-1504	0-1500mm/0-60"	250mm/9.8"
1106-1505	0-1500mm/0-60"	300mm/11.8"

## ELECTRONIC CALIPER



- Resolution: 0.01mm/0.0005"
- The round faces of lower jaw are ideal for accurate inside measurement
- Buttons: power on/off, metric-inch conversion, absolute and incremental measurement, data preset, set data
- Battery SR44, with one spare battery
- Hardened stainless steel construction, with locking clamp and fine adjustment, for outside and inside measurements
- SPC data output

Code	Range	Standard jaw length
IS11106-800-125	0-800mm/0-32"	125mm
IS11106-1000	0-1000mm/0-40"	125mm

## ELECTRONIC CALIPER



Code	Range
1114-150	0-150mm/0-6"
1114-200	0-200mm/0-8"
1114-300	0-300mm/0-12"

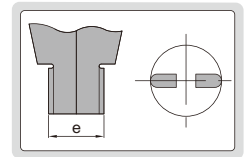
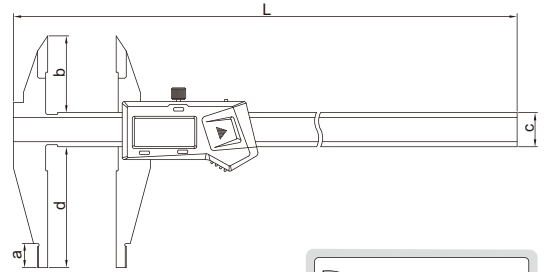
- Zinc alloy case
- Resolution: 0.01mm/0.0005"
- Buttons: zero, power on/off, inch/mm
- Battery SR44, with one spare battery
- Meet DIN862, hardened stainless steel construction
- Packed in plastic box

## DIGITAL CALIPER



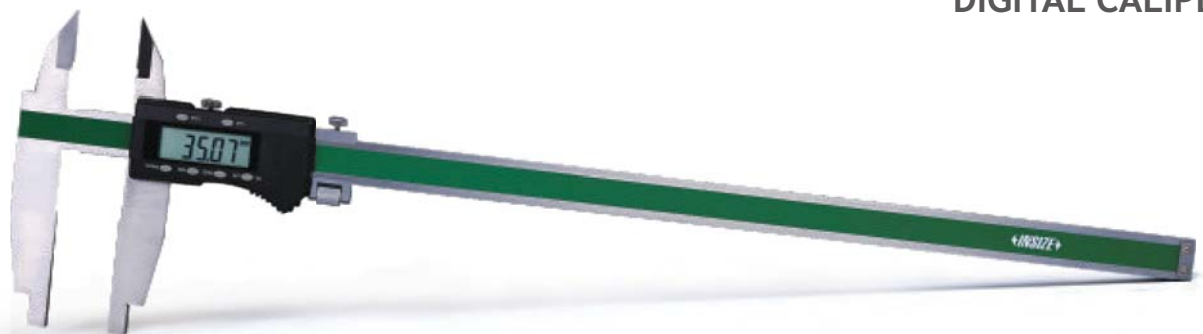
1117-306A

- Resolution: 0.01mm/0.0005"
- Buttons: on/off, zero, mm/inch
- Automatic power off, move the digital unit to turn on power
- Battery CR2032
- USB data output
- Made of stainless steel
- Optional accessory: SPC cable (page A1-A2)



(mm)									
Code	Range	Accuracy	a	b	c	d	e	L	
1117-256A	0-250mm/0-10"	±0.03mm	12	38	17	60	10	375	
1117-306A	0-300mm/0-12"	±0.04mm	12	38	17	60	10	420	

## DIGITAL CALIPER



- Resolution: 0.01mm/0.0005"
- Series 1117: 10mm or 20mm width of internal measuring jaws
- Made of hardened stainless steel

Code	Range	Lower jaw length
1117-252	0-250mm/0-10"	150mm/5.9"
1117-1252	0-250mm/0-0"	150mm/5.9"
1117-302	0-300mm/0-12"	150mm/5.9"
1117-307	0-300mm/0-12"	75mm/3"
1117-402	0-400mm/0-16"	150mm/5.9"
1117-602	0-600mm/0-24"	150mm/5.9"

## ELECTRONIC INSIDE GROOVE CALIPER



Code	Range	Measuring depth
1120-1501	35-150mm/1.4-6"	60mm/2.4"
1120-2001	40-200mm/1.6-8"	70mm/2.8"

- For narrow grooves and small recesses
- Resolution: 0.01mm/0.0005"
- Buttons: zero, power on/off, inch/mm
- Battery SR44, with one spare battery
- Data output
- Hardened stainless steel construction
- Packed in plastic box or wooden box

## ELECTRONIC INSIDE CALIPER WITH PIN TIPS



Code	Range	Measuring depth	Pin tips dia.
1121-1502	50-150mm/2-6"	90mm/3.5"	3mm/0.12"
1121-3002	60-300mm/2.4-12"	110mm/4.3"	3mm/0.12"

- For narrow grooves and small recesses
- Resolution: 0.01mm/0.0005"
- Buttons: zero, power on/off, inch/mm
- Battery SR44, with one spare battery
- Data output
- Hardened stainless steel construction
- Packed in plastic box or wooden box

## ELECTRONIC INSIDE CALIPER WITH BEVELED TIPS



type A readout



type B readout

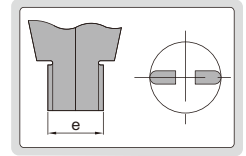
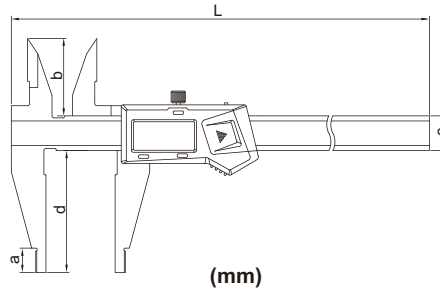
Code	Range	Jaw length	Readout type
1123-1502	25-150mm/1-6"	150mm/5.9"	B
1123-200	18-200mm/0.7-8"	75mm/3"	A
1123-2002	25-200mm/1-8"	150mm/5.9"	B

- Measure diameter of deep step holes
- Resolution: 0.01mm/0.0005"
- With one spare battery
- Data output
- Hardened stainless steel construction
- Packed in plastic box or wooden box

## DIGITAL CALIPER



1136-306A



- Resolution: 0.01mm/0.0005"
- Buttons: on/off, zero, mm/inch
- Automatic power off, move the digital unit to turn on power
- Battery CR2032
- USB data output
- Made of stainless steel
- Optional accessory: SPC cable (page A1-A2)

Code	Range	Accuracy	a	b	c	d	e	L
1136-256A	0-250mm/0-10"	±0.03mm	12	28	17	60	10	375
1136-306A	0-300mm/0-12"	±0.04mm	12	28	17	60	10	420

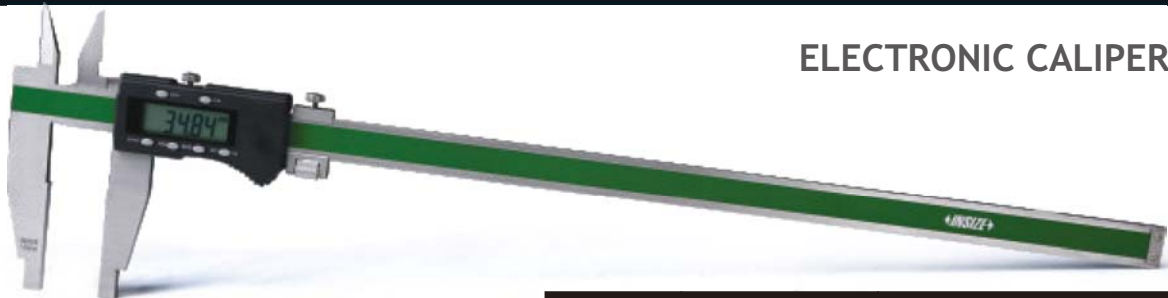
## DIGITAL CALIPER



- Resolution: 0.01mm/0.0005"
- Series 1136: 10mm width of internal measuring jaws
- Series 1133: 1/2" width of internal measuring jaws
- The round faces of lower jaw are ideal for accurate inside measurement
- Buttons: zero, power on/off, inch/mm
- Battery SR44, with one spare battery
- Data output
- Hardened stainless steel construction
- Packed in plastic box or wooden box

Code	Range	Lower jaw length
1136-256A	0-250mm/0-10"	60mm/2.4"
1136-306	0-300mm/0-12"	60mm/2.4"

## ELECTRONIC CALIPER



- Resolution: 0.01mm/0.0005"
- 10mm or 20mm width of internal measuring jaws
- Made of hardened stainless steel

Code	Range	Lower jaw length
1136-302	0-300mm/0-12"	150mm/5.9"
1136-307	0-300mm/0-12"	75mm/3"
1136-402	0-400mm/0-16"	150mm/5.9"
1136-403	0-400mm/0-16"	200mm/7.9"
1136-603	0-600mm/0-24"	200mm/7.9"
1136-604	0-600mm/0-24"	250mm/9.8"
1136-803	0-800mm/0-32"	200mm/7.9"
1136-1003	0-1000mm/0-40"	200mm/7.9"

## ELECTRONIC V-ANVIL CALIPER

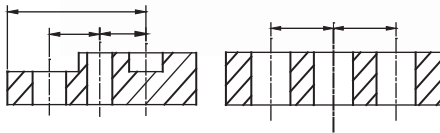


- Measure diameter of cylinder (such as taps, reamers, end mills) with odd number of flutes
- Resolution: 0.01mm/0.0005"
- Buttons: zero, power on/off, inch/mm
- Supplied with calibration rod
- Battery SR44, with one spare battery
- Data output
- Stainless steel construction
- Packed in plastic box

Code	Range	Flutes
1174	4-40mm/0.16-1.6"	3
1173	1-40mm/0.04-1.6"	5



## ELECTRONIC OFFSET CENTERLINE CALIPER



Code	Range
1182-150	10-150mm/0.4-6"
1182-200	10-200mm/0.4-8"
1182-300	10-300mm/0.4-12"

- Measure center to center distance of holes and measure distance from edge to center of holes
- Resolution: 0.01mm/0.0005"
- The adjustable left jaw permits measurement of even and uneven planes
- Hole diameter should be larger than 1.5mm/0.06" but small than 10mm/0.39"
- Buttons: zero, power on/off, inch/mm
- Battery SR44, with one spare battery
- Data output
- Hardened stainless steel construction
- Packed in plastic box or wooden box

## ELECTRONIC CALIPER WITH POINTED JAWS



Code	Range
1183-200	0-200mm/0-8"
1183-300	0-300mm/0-12"
1183-300	0-300mm/0-12"

- Pointed jaws fit into small grooves and recesses
- Resolution: 0.01mm/0.0005"
- Buttons: zero, power on/off, inch/mm
- Battery SR44, with one spare battery
- Data output
- Hardened stainless steel construction

## ELECTRONIC CALIPER WITH ONE DIRECTION UPPER JAWS



Code	Range
1184-150	0-150mm/0-6"
1184-200	0-200mm/0-8"
1184-300	0-300mm/0-12"

- Take measurement of step distance in one direction of the same surface and different surfaces
- Resolution: 0.01mm/0.0005"
- Buttons: zero, power on/off, inch/mm
- Battery SR44, with one spare battery
- Data output
- Hardened stainless steel construction

## ELECTRONIC OUTSIDE CALIPER WITH PIN TIPS



- For narrow grooves and small recesses
- Resolution : 0.01mm/0.0005"
- Buttons: zero, power on/off, inch/mm
- Battery SR44, with one spare battery
- Data output
- Hardened stainless steel construction
- Packed in plastic box

Code	Range	Measuring depth	Pin tips dia.
1185-200	0-200mm/0-8"	50mm/2"	2.5mm/0.1"

## ELECTRONIC OUTSIDE GROOVE CALIPER



Code	Range	Measuring depth
1187-200	0-200mm/0-8"	50mm/2"
1187-300	0-300mm/0-12"	60mm/2.4"

- For narrow grooves and small recesses
- Resolution: 0.01mm/0.0005"
- Buttons: zero, power on/off, inch/mm
- Battery SR44, with one spare battery
- Data output
- Hardened stainless steel construction
- Packed in plastic box

## ELECTRONIC TUBE CALIPER



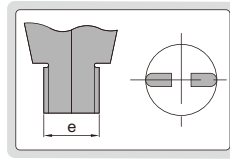
- Resolution: 0.01mm/0.0005"
- Measure wall thickness of tubes
- Buttons: zero, power on/off, inch/mm conversion
- Hidden zero button preventing to be pressed by accident
- Battery SR44, with one spare battery
- Hardened stainless steel construction, with locking clamp
- SPC data output via USB interface

Code	Range
IS11161-200	0-200mm/0-8"

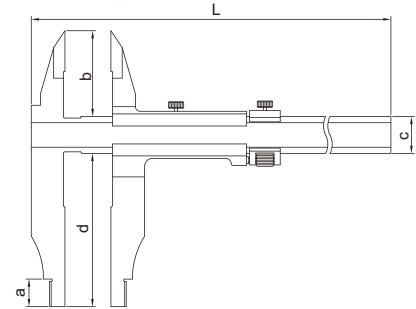
# VERNIER CALIPER



1207-511



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



## Graduation 0.02mm/0.001"

Code	Range	Accuracy	d
1207-512	0-500mm/0-20"	±0.05mm	100mm/3.9"
1207-522	0-500mm/0-20"	±0.06mm	150mm/5.9"
1207-832	0-800mm/0-32"	±0.07mm	200mm/7.9"
1207-1022	0-1000mm/0-40"	±0.08mm	150mm/5.9"

## Graduation 0.02mm

Code	Range	Accuracy	d(mm)
1207-511	0-500mm	±0.05mm	100
1207-1021	0-1000mm	±0.08mm	150

## Graduation 0.05mm/1/128"

Code	Range	Accuracy	d
1207-614	0-600mm/0-24"	±0.05mm	100mm/3.9"
1207-624	0-600mm/0-24"	±0.06mm	150mm/5.9"
1207-1054	0-1000mm/0-40"	±0.11mm	300mm/11.8"

## Graduation 0.05mm

Code	Range	Accuracy	d(mm)
1207-513	0-500mm	±0.05mm	100
1207-523	0-500mm	±0.06mm	150

(mm)

Range	a	b	c	e	L
0-300mm	12	40	20	10	440
0-500mm	18	56	24	20	670
0-800mm	24	67	31	20	930
0-1000mm	24	67	31	20	1230

## VERNIER CALIPER



- The round faces of lower jaw are ideal for accurate inside measurement
- With fine adjustment
- Meet DIN862, monoblock, made of hardened stainless steel, satin chrome plated reading surface

### Graduation: 0.02mm

Code	Range	Jaw length
1208-391	0-300mm	90mm
1208-611	0-600mm	100mm
1208-821	0-800mm	150mm

### Graduation: 0.05mm

Code	Range	Jaw length
1208-613	0-600mm	100mm
1208-823	0-800mm	150mm

### Graduation: 0.02mm/0.001"

Code	Range	Jaw length
1208-392	0-300mm/0-12"	90mm/3.5"
1208-522	0-500mm/0-20"	150mm/5.9"
1208-612	0-600mm/0-24"	100mm/3.9"
1208-622	0-600mm/0-24"	150mm/5.9"
1208-652	0-600mm/0-24"	300mm/11.8"
1208-832	0-800mm/0-32"	200mm/7.9"
1208-1522	0-1500mm/0-60"	150mm/5.9"

### Graduation: 0.05mm/1/128"

Code	Range	Jaw length
1208-284	0-200mm/0-8"	80mm/3.1"
1208-424	0-400mm/0-16"	150mm/5.9"
1208-514	0-500mm/0-20"	100mm/3.9"
1208-654	0-600mm/0-24"	300mm/11.8"
1208-834	0-800mm/0-32"	200mm/7.9"
1208-1054	0-1000mm/0-40"	300mm/11.8"

## VERNIER CALIPER



- The round faces of lower jaw are ideal for accurate inside measurement
- With fine adjustment
- Monoblock, made of hardened stainless steel, satin chrome plated reading surface
- With locking clamp, for outside and inside measurements
- Packed in wooden box

Code	Range	Graduation	Jaw length
IS11208-1000	0-1000mm/0-40"	0.05mm/1/128"	125mm

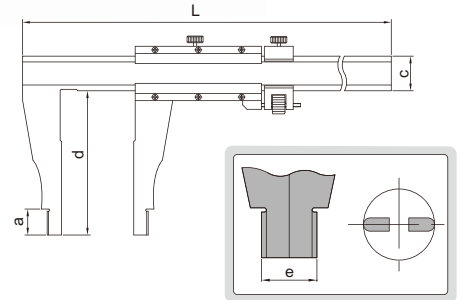


# VERNIER CALIPER



1214-500

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



Graduation 0.05mm (mm)

Code	Range	Accuracy	d
1214-503	0-500mm	±0.07mm	100

Graduation 0.05mm/1/128" (mm)

Code	Range	Accuracy	d
1214-3004	0-300mm/0-12"	±0.05mm	75

(mm)

Range	a	c	e	L
0-300mm	10	20	10	410
0-500mm	18	24	20	670

# VERNIER CALIPER



- mm graduation on lower scale and inch on upper scale, 10mm or 20mm width of internal measuring jaws
- The round faces of lower jaw ideal for accurate inside measurement
- With fine adjustment
- Meet DIN862, made of hardened stainless steel, satin chrome plated reading surface

Code	Range	Graduation	Jaw length
<b>1215-412</b>	0-400mm/0-16"	0.02mm/0.001"	100mm/3.9"
<b>1215-432</b>	0-400mm/0-16"	0.02mm/0.001"	200mm/7.9"
<b>1215-2022</b>	0-2000mm/0-80"	0.02mm/0.001"	150mm/5.9"
<b>1215-2522</b>	0-2500mm/0-100"	0.02mm/0.001"	150mm/5.9"
<b>1215-534</b>	0-500mm/0-20"	0.05mm/1/128"	200mm/7.9"
<b>1215-624</b>	0-600mm/0-24"	0.05mm/1/128"	150mm/5.9"
<b>1215-1024</b>	0-1000mm/0-40"	0.05mm/1/128"	150mm/5.9"

## VERNIER CALIPER



Code	Range	Graduation
1217-3002	0-300mm/0-12"	0.02mm/0.001"

- With fine adjustment
- Meet DIN 862, made of hardened stainless steel, satin chrome plated reading surface
- Packed in wooden box

## PARALLAX FREE VERNIER CALIPER



Code	Range	Lower jaw length
1218-300	0-300mm/0-12"	90mm/3.5"
1218-500	0-500mm/0-20"	150mm/5.9"
1218-750	0-750mm/0-30"	150mm/5.9"
1218-1000	0-1000mm/0-40"	150mm/5.9"

- Standard graduation: 0.05mm/1/128" (option: 0.05mm)
- The round faces of lower jaw are ideal for accurate inside measurement
- With fine adjustment
- Meet DIN862, monoblock, made of hardened stainless steel, satin chrome plated reading surface
- Packed in wooden box

## INSIDE GROOVE VERNIER CALIPER



- For narrow grooves and small recesses
- Made of hardened stainless steel, satin chrome plated reading surface
- With locking clamp and thumb knob

Code	Range	Graduation
IS11271-160	10-160mm	0.05mm

# VERNIER CALIPER WITH TITANIUM PLATED BEAM



titanium plated beam

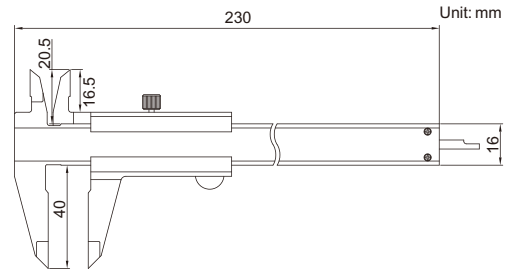
1219-150

## Graduation 0.02mm/0.001"

Code	Range	Accuracy
1219-1502	0-150mm/0-6"	±0.03mm
1219-2002	0-200mm/0-8"	±0.03mm
1219-3002	0-300mm/0-12"	±0.03mm

## Graduation 0.05mm/1/128"

Code	Range	Accuracy
1219-150	0-150mm/0-6"	±0.05mm
1219-200	0-200mm/0-8"	±0.05mm
1219-300	0-300mm/0-12"	±0.05mm



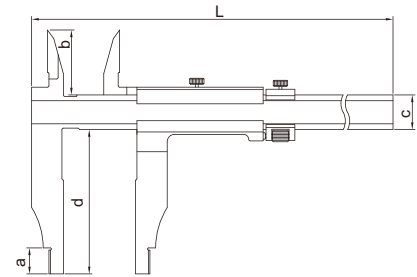
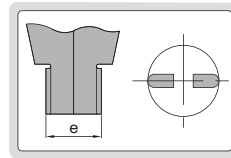
- Meet DIN862
- Titanium plated beam for wear resistant and easy moving
- Made of stainless steel
- Satin chrome plated reading surface

# VERNIER CALIPER



1236-521

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



(mm)

Range	a	b	c	e	L
0-300mm	12	38	20	10	450
0-500mm	18	45	24	20	670
0-600mm	18	45	24	20	770
0-800mm	24	60	31	20	1030
0-1000mm	24	60	31	20	1230

## Graduation 0.05mm/1/128"

Code	Range	Accuracy	d
1236-364	0-300mm/0-12"	±0.05mm	60mm/2.4"
1236-1034	0-1000mm/0-40"	±0.08mm	200mm/7.9"

## Graduation 0.05mm

Code	Range	Accuracy	d(mm)
1236-393	0-300mm	±0.07mm	90
1236-513	0-500mm	±0.07mm	100
1236-613	0-600mm	±0.08mm	100
1236-823	0-800mm	±0.09mm	150
1236-1023	0-1000mm	±0.12mm	150

## Graduation 0.02mm/0.001"

Code	Range	Accuracy	d
1236-392	0-300mm/0-12"	±0.05mm	90mm/3.5"
1236-362	0-300mm/0-12"	±0.05mm	60mm/2.4"
1236-522	0-500mm/0-25"	±0.06mm	150mm/5.9"
1236-1022	0-1000mm/0-40"	±0.08mm	150mm/5.9"

# VERNIER CALIPER WITH CARBIDE TIPPED JAWS



**1238-1503**

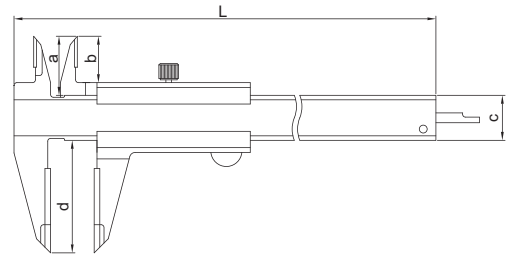
- Meet DIN862
- Carbide tipped jaws for inside and outside measurements
- Made of stainless steel
- Satin chrome plated reading surface

**Graduation 0.02mm (mm)**

Code	Range	Accuracy	L	a	b	c	d
1238-1501	0-150mm	±0.03mm	230	21	16.5	16	40
1238-2001	0-200mm	±0.03mm	295	24	19	16	50
1238-3001	0-300mm	±0.03mm	410	25	20	17	60

**Graduation 0.05mm (mm)**

Code	Range	Accuracy	L	a	b	c	d
1238-1503	0-150mm	±0.05mm	230	21	16.5	16	40
1238-2003	0-200mm	±0.05mm	295	24	19	16	50
1238-3003	0-300mm	±0.05mm	410	25	20	17	60





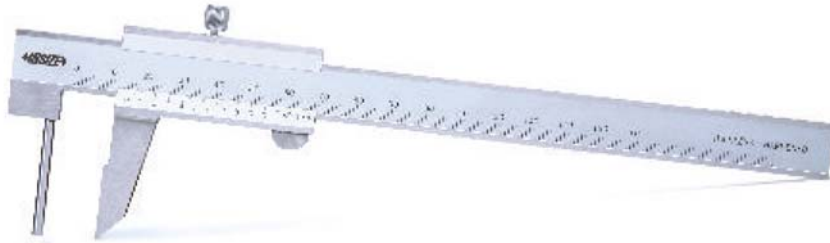
## LEFT HAND VERNIER CALIPER



Code	Range	Graduation
1239-200	0-200mm/0-8"	0.05mm/1/128"

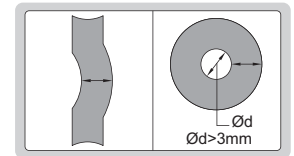
- Designed for left handers
- Meet DIN862, monoblock, made of hardened stainless steel, satin chrome plated reading surface

# TUBE THICKNESS VERNIER CALIPER



1261-1503

- Measure wall thickness of tubes
- Made of stainless steel
- Stain chrome plated reading surface

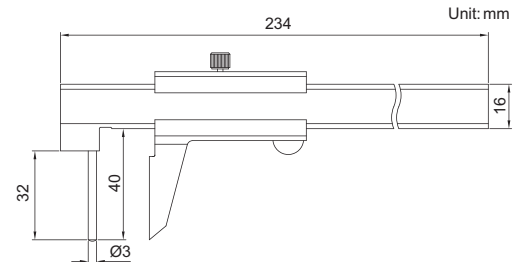


## Graduation 0.02mm

Code	Range	Accuracy
1261-1501	0-150mm	$\pm 0.05\text{mm}$

## Graduation 0.05mm

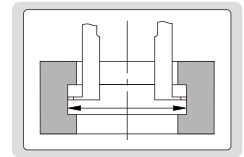
Code	Range	Accuracy
1261-1503	0-150mm	$\pm 0.05\text{mm}$



# INSIDE GROOVE VERNIER CALIPER



1262-1503



Unit: mm

- Measure groove diameter
- Made of stainless steel
- Stain chrome plated reading surface

## Graduation 0.02mm

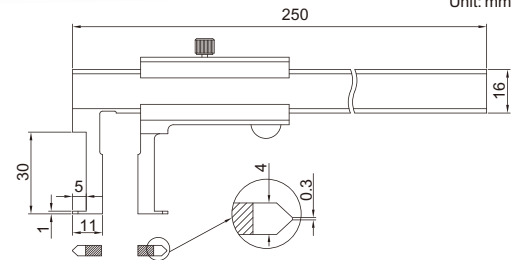
Code	Range	Accuracy
1262-151	22-150mm	±0.04mm

## Graduation 0.02mm/0.001"

Code	Range	Accuracy
1262-152	22-150mm/0.9-6"	±0.05mm

## Graduation 0.05mm

Code	Range	Accuracy
1262-1503	22-150mm	±0.05mm



# INSIDE POINT VERNIER CALIPER



1263-153

- Measure groove diameter
- Made of stainless steel
- Stain chrome plated reading surface

Code	Range	Graduation
1263-151	24-150mm	0.02mm
1263-3011	50-300mm	0.02mm
1263-3021	60-300mm	0.02mm
1263-153	24-150mm	0.05mm
1263-3013	50-300mm	0.05mm
1263-3023	60-300mm	0.05mm
1263-152	24-150mm/0.9-6"	0.02mm/0.001"
1263-202	25-200mm/1-8"	0.02mm/0.001"
1263-302	30-300mm/1.2-12"	0.02mm/0.001"
1263-1501	35-150mm/1.4-6"	0.05mm/1/128"
1263-1502	50-150mm/2-6"	0.05mm/1/128"

# INSIDE KNIFE-EDGE VERNIER CALIPER



1264-153

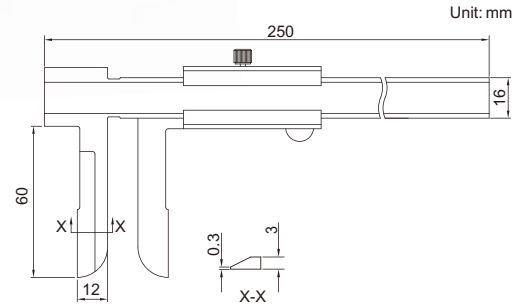
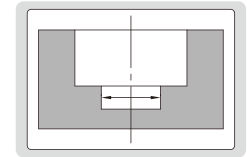
- Measure diameter of deep step holes
- Made of stainless steel
- Stain chrome plated reading surface

## Graduation 0.02mm

Code	Range	Accuracy
1264-151	15-150mm	±0.05mm
1264-201	18-200mm	±0.05mm

## Graduation 0.05mm

Code	Range	Accuracy
1264-153	15-150mm	±0.05mm
1264-303	20-300mm	±0.08mm



## Graduation 0.05mm/1/128"

Code	Range	Accuracy
1264-150	15-150mm/0.6-6"	±0.05mm

## Graduation 0.02mm/0.001"

Code	Range	Accuracy
1264-152	15-150mm/0.6-6"	±0.05mm

## VERNIER CALIPER WITH HOOK TIPS



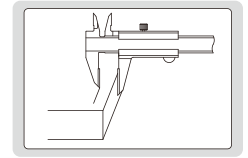
Code	Range	Graduation
1265-125	3-125mm/0.12-5"	0.05mm/1/128"
1265-1253	3-125mm	0.05mm
1265-2003	3-200mm	0.05mm
1265-2001	3-200mm	0.02mm
1265-2002	3-200mm/0.12-8"	0.02mm/0.001"

- Measure width of grooves inside bores and recesses
- Made of hardened stainless steel, stain chrome plated reading surface

# SCRIBING VERNIER CALIPER



1266-1503



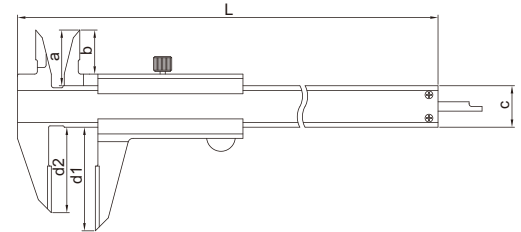
- The carbide-tipped jaws facilitate scribing on workpieces
- Made of stainless steel
- Stain chrome plated reading surface

**Graduation 0.02mm** (mm)

Code	Range	Accuracy	L	a	b	c	d1	d2
1266-1501	0-150mm	±0.03mm	236	21	16.5	16	40	33

**Graduation 0.05mm/1/128"** (mm)

Code	Range	Accuracy	L	a	b	c	d1	d2
1266-150	0-150mm	±0.05mm	236	21	16.5	16	40	33



## V-ANVIL VERNIER CALIPER



- Measure diameter of cylinder (such as taps, reamers, end mills) with odd number of flutes
- Graduation: 0.05mm/1/128"
- Made of hardened stainless steel, satin chrome plated reading surface

Code	Range	Flutes
1274-40	4-40mm/0.16-1.6"	3



## OFFSET CENTERLINE VERNIER CALIPER



- Measure center to center distance of holes and measure distance from edge to center of holes
- The adjustable left jaw permits measurement of even and uneven planes
- Hole diameter should be larger than 1.5mm/0.06" but small than 10mm/0.39"
- Made of hardened stainless steel, stain chrome plated reading surface

Code	Range	Graduation
1282-200	5-200mm/0.2-8"	0.05mm/1/128"

## VERNIER CALIPER WITH POINTED JAWS



Code	Range	Graduation
1283-150	0-150mm/0-6"	0.05mm/1/128"
1283-1501	0-150mm	0.02mm
1283-1503	0-150mm	0.05mm
1283-2002	0-200mm/0-8"	0.02mm/0.001"
1283-300	0-300mm/0-12"	0.05mm/1/128"
1283-3002	0-300mm/0-12"	0.02mm/0.001"

- Pointed jaws fit into small grooves and recesses
- Made of hardened stainless steel, stain chrome plated reading surface

## VERNIER CALIPER WITH ONE DIRECTION UPPER JAWS



Code	Range	Graduation
1284-150	0-150mm/0-6"	0.05mm/1/128"
1284-1501	0-150mm	0.02mm
1284-1502	0-150mm/0-6"	0.02mm/0.001"
1284-200	0-200mm/0-8"	0.05mm/1/128"

- Take measurement of step distance in one direction of the same surface and different surfaces
- Made of hardened stainless steel, stain chrome plated reading surface

# OUTSIDE POINT VERNIER CALIPER



1285-1503

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

## Graduation 0.02mm

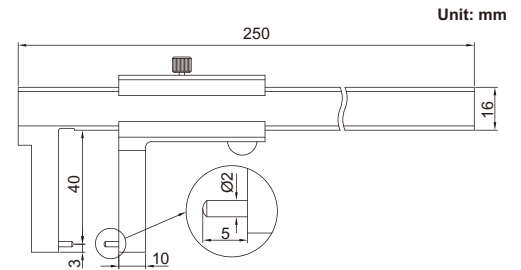
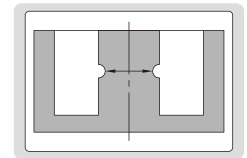
Code	Range	Accuracy
1285-1501	0-150mm	±0.04mm

## Graduation 0.05mm

Code	Range	Accuracy
1285-1503	0-150mm	±0.05mm
1285-3003	0-300mm	±0.05mm

## Graduation 0.05mm/1/128"

Code	Range	Accuracy
1285-150	0-150mm/0-6"	±0.05mm



Unit: mm

# OFFSET VERNIER CALIPER



1286-1503

- The left jaw can slide up and down to facilitate measurement of stepped sections
- Made of stainless steel
- Stain chrome plated reading surface

## Graduation 0.02mm (mm)

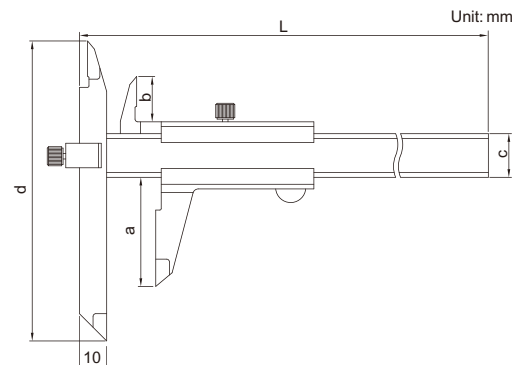
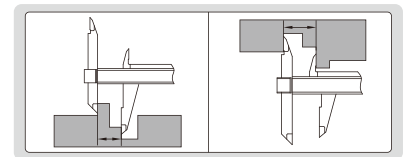
Code	Range	Accuracy	L	a	b	c	d
1286-1501	0-150mm	±0.04mm	240	40	16.5	16	110
1286-2001	0-200mm	±0.04mm	290	50	19.5	16	120
1286-3001	0-300mm	±0.05mm	390	60	20.5	17	130

## Graduation 0.05mm (mm)

Code	Range	Accuracy	L	a	b	c	d
1286-1503	0-150mm	±0.05mm	240	40	16.5	16	110
1286-2003	0-200mm	±0.05mm	290	50	19.5	16	120
1286-3003	0-300mm	±0.08mm	390	60	20.5	17	130

## Graduation 0.05mm/1/128" (mm)

Code	Range	Accuracy	L	a	b	c	d
1286-150	0-150mm/0-6"	±0.04mm	240	40	16.5	16	110



## OUTSIDE GROOVE VERNIER CALIPER



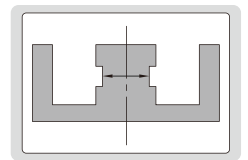
Code	Range	Measuring depth
1287-150	0-150mm/0-6"	40mm/1.6"
1287-200	0-200mm/0-8"	50mm/2"
1287-300	0-300mm/0-12"	60mm/2.4"

- For narrow grooves and small recesses
- Graduation: 0.05mm/1/128"
- Made of hardened stainless steel, stain chrome plated reading surface
- Packed in plastic box

## OUTSIDE NECK VERNIER CALIPER



1287-1503



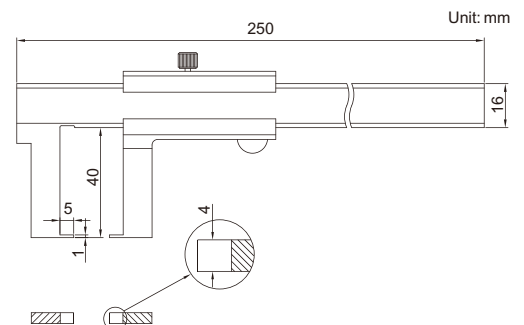
- Measure grooves and recesses
- Made of stainless steel
- Stain chrome plated reading surface

### Graduation 0.02mm

Code	Range	Accuracy
1287-1501	0-150mm	±0.04mm

### Graduation 0.05mm

Code	Range	Accuracy
1287-1503	0-150mm	±0.05mm
1287-3003	0-300mm	±0.05mm

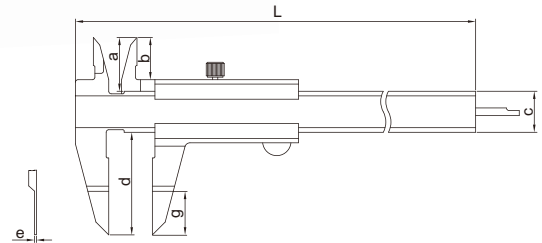


# BLADE VERNIER CALIPER



1288-1503

- The blade jaws fit into small grooves
- Made of stainless steel
- Stain chrome plated reading surface

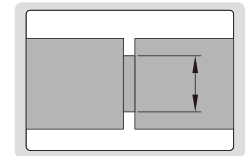


## Graduation 0.02mm (mm)

Code	Range	Accuracy	L	a	b	c	d	e	g
1288-2001	0-200mm	±0.03mm	286	24	19.5	16	50	0.75	17

## Graduation 0.05mm (mm)

Code	Range	Accuracy	L	a	b	c	d	e	g
1288-1503	0-150mm	±0.05mm	236	21	16.5	16	40	0.75	17
1288-2003	0-200mm	±0.05mm	286	24	19.5	16	50	0.75	17
1288-3003	0-300mm	±0.08mm	400	25	20.5	17	60	1.00	17



## Graduation 0.05mm/1/128" (mm)

Code	Range	Accuracy	L	a	b	c	d	e	g
1288-200	0-200mm/0-8"	±0.05mm	286	24	19.5	16	50	0.75	17
1288-300	0-300mm/0-12"	±0.08mm	400	25	20.5	17	60	1.00	17

## ARC RADIUS VERNIER CALIPER



Code	Range	Graduation
1289-150	3-150mm/0.12-6"	0.05mm/1/128"
1289-1501	3-150mm	0.02mm
1289-1503	3-150mm	0.05mm

- Measure the radius of arc less than half round
- Monoblock, made of hardened stainless steel, satin chrome plated reading surface

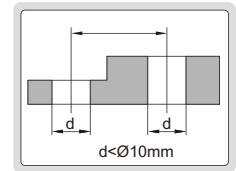


# OFFSET CENTERLINE VERNIER CALIPER



1292-1503

- Measure hole center distance in the same or offset planes
- Made of stainless steel
- Stain chrome plated reading surface

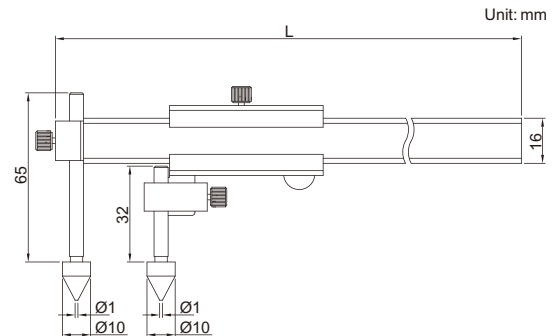


## Graduation 0.02mm (mm)

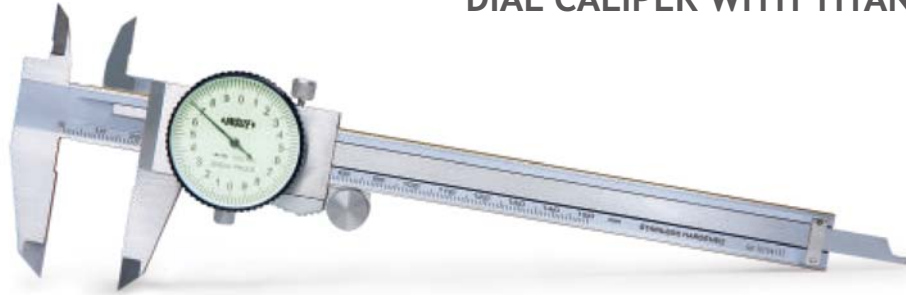
Code	Range	Accuracy	L
1292-1501	10-150mm	±0.05mm	236
1292-3001	10-300mm	±0.09mm	396

## Graduation 0.05mm (mm)

Code	Range	Accuracy	L
1292-1503	10-150mm	±0.05mm	236
1292-2003	10-200mm	±0.07mm	246
1292-3003	10-300mm	±0.09mm	396



# DIAL CALIPER WITH TITANIUM PLATED BEAM



titanium plated beam

1315-150

Dial indicator graduation 0.02mm

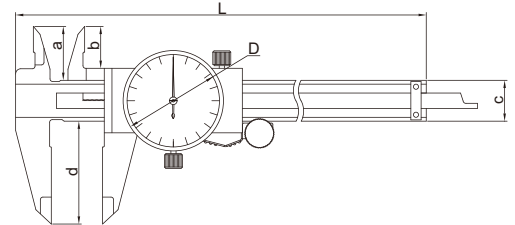
(mm)

Code	Range	Accuracy	L	a	b	c	d	D
1315-150	0-150mm	±0.03mm	233	21	16.5	16	40	Ø39
1315-200	0-200mm	±0.03mm	288	24	19	16	50	Ø39
1315-300	0-300mm	±0.04mm	390	30	25	20	64	Ø44

Dial indicator graduation 0.01mm

(mm)

Code	Range	Accuracy	L	a	b	c	d	D
1317-150	0-150mm	±0.03mm	233	21	16.5	16	40	Ø39
1317-200	0-200mm	±0.03mm	288	24	19	16	50	Ø39



- Titanium plated beam for wear resistant and easy moving
- Shockproof dial indicator
- Made of stainless steel

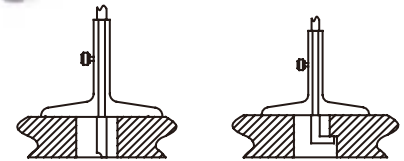
## ELECTRONIC DEPTH CALIPER WITH HOOK



Code	Range	Base length
1142-500	0-500mm/0-20"	150mm/5.9"

- Resolution: 0.01mm/0.0005"
- Buttons: zero, power on/off, inch/mm
- SR44 battery, with spare battery
- Data output
- Meet DIN862, made of hardened stainless steel
- Packed in plastic box or wooden box

## DEPTH CALIPER WITH HOOK



Code	Range	Base length
1241-150	0-150mm	100mm
1241-200	0-200mm	100mm

- Graduation on two sides
- Graduation: metric 0.05mm
- Meet DIN862, made of hardened stainless steel, satin chrome plating finish on reading surface
- Packed in plastic box or wooden box

## DEPTH CALIPER WITH NEEDLE TIP



Code	Range	Graduation	Base length
1242-1601A	0-150mm	0.02mm	100mm
1242-3001A	0-300mm	0.02mm	100mm
1242-80	0-80mm	0.05mm	50mm

- Meet DIN862, made of hardened stainless steel, satin chrome plating finish on reading surface

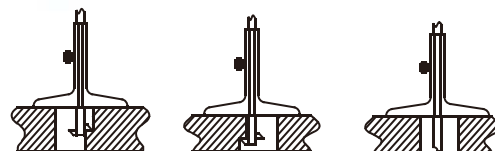
## DEPTH CALIPER WITH TWO HOOKS



front side



back side



- Graduation on two sides
- Graduation: 0.05mm
- Meet DIN862, made of hardened stainless steel, satin chrome plating finish on reading surface

Code	Range	Base length
1246-200	0-200mm	100mm

## DEPTH CALIPER WITH HOOK



Code	Range	Base length
1248-500	0-500mm	150mm
1248-8	0-8"	3.9"

- Graduation: metric 0.05mm  
inch 0.001"
- Meet DIN862, made of hardened stainless steel, satin chrome plating finish on reading surface

# ELECTRONIC DEPTH MICROMETER



3140

Code	Range
3140-50	0-50mm/0-2"
3140-100	0-100mm/0-4"
3140-150	0-150mm/0-6"

- Resolution: 0.001mm/0.00005"
- Flat tips
- Base length 101.5mm/4"
- Buttons: on/off, data set, mm/inch, ABS/INC, data output
- IP54 protection
- SR44 battery, with one spare battery, auto power off
- RS232 output
- With battery cover wrench
- Packed in plastic box or wooden box



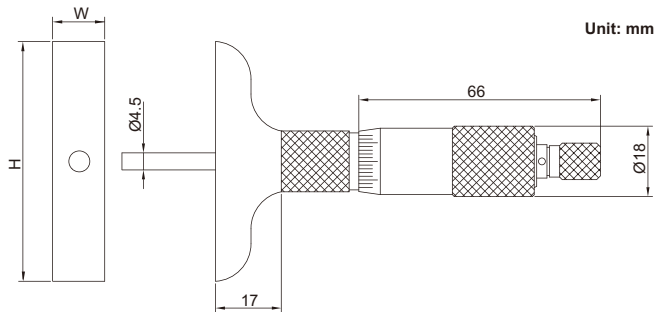
# DEPTH MICROMETER



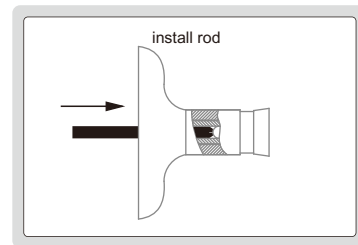
3240-100

Base: HxW=63x17mm

Code	Range	Rods
3240-B25	0-25mm	1pc



Unit: mm

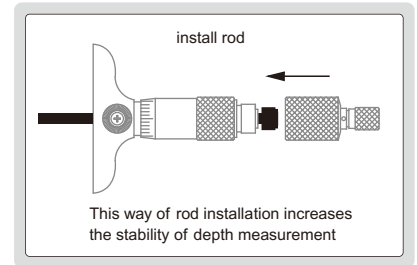
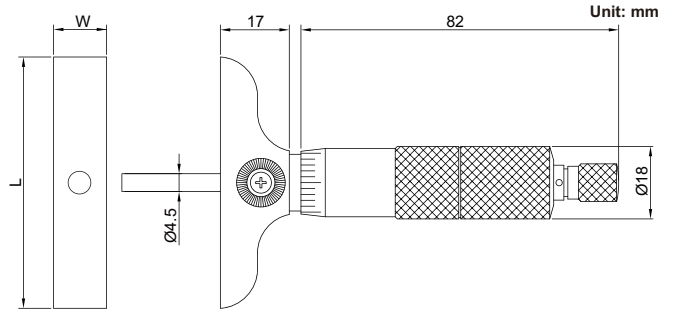


- Graduation: 0.01mm
- Micrometer head accuracy:  $\pm 3\mu\text{m}$
- Rod accuracy:  $\pm (2+L/75)\mu\text{m}$ ,  
L is the measuring range in mm
- Rods with flat end
- Ratchet stop

# DEPTH MICROMETER



3241-100



Base: LxW=63x17mm

Code	Range	Rods
3241-B50	0-50mm	2pcs
3241-B100	0-100mm	4pcs

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

## DIAL DEPTH GAUGE



2341-103

- Hardened stainless steel base
- Three rods with spherical end: 0-10mm, 10-20mm, 20-30mm

Code	Range	Dial indicator range	Dial indicator graduation	Base
2341-103	0-30mm	0-10mm	0.01mm	101.5 x R10.9mm

## HEIGHT GAGE WITH ADJUSTABLE SCALE

- Adjustable scale for zero set
- Graduation: 0.02mm/0.001"
- Carbide tipped scriber
- Meet DIN862, stainless steel beam and base, satin chrome finish reading surface
- With fine adjustment and magnifier

Code	Range
1250-1500	0-1500mm/0-60"



## ELECTRONIC OUTSIDE MICROMETER



Code	Range
3100-50	25-50mm/1-2"
3100-75	50-75mm/2-3"
3100-100	75-100mm/3-4"
3100-125	100-125mm/4-5"
3100-150	125-150mm/5-6"
3100-175	150-175mm/6-7"
3100-200	175-200mm/7-8"

- Resolution: 0.001mm/0.00005"
- Buttons: on/off, data set, mm/inch, ABS/INC, data output
- IP54 protection
- SR44 battery, with one spare battery, auto power off
- RS232 output, ratchet friction thimble, carbide tips
- DIN863
- With battery cover wrench and spare spherical anvil
- Supplied with standard rods
- Packed in plastic box or wooden box

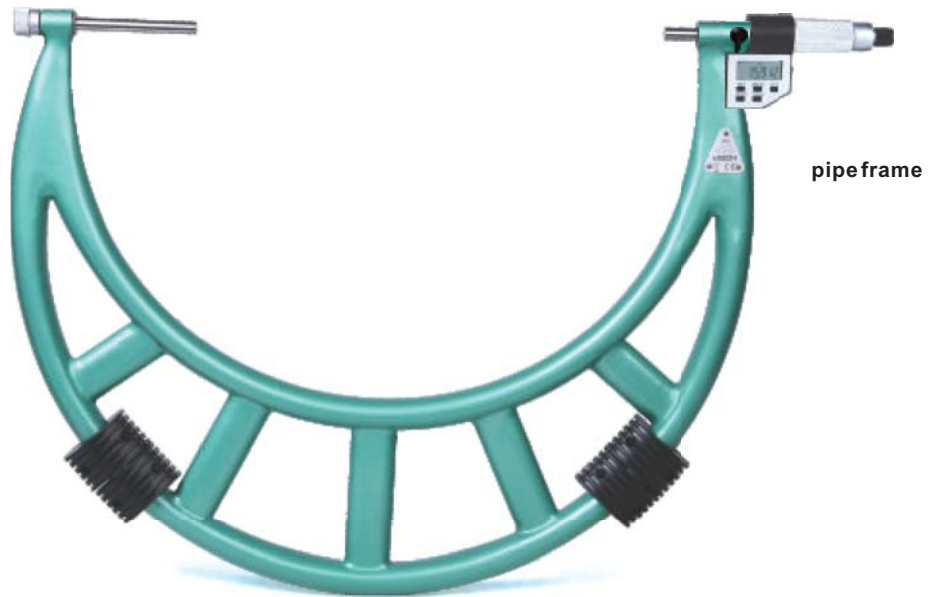
## ELECTRONIC OUTSIDE MICROMETER

Code	Range
3103-25	0-25mm/0-1"
3103-50	25-50mm/1-2"
3103-75	50-75mm/2-3"
3103-100	75-100mm/3-4"
3103-125	100-125mm/4-5"
3103-150	125-150mm/5-6"
3103-200	175-200mm/7-8"
3103-225	200-225mm/8-9"
3103-250	225-250mm/9-10"
3103-275	250-275mm/10-11"
3103-300	275-300mm/11-12"



- Thimble graduation: 0.01mm
- Resolution: 0.001mm/0.00005"
- Buttons: metric-inch conversion, data set
- IP54 protection
- SR44 battery, with one spare battery, auto power off
- Carbide tips
- DIN863
- With battery cover wrench, spare spherical anvil and zero adjusting wrench
- Supplied with standard rods

# ELECTRONIC OUTSIDE MICROMETER WITH INTERCHANGEABLE ANVILS



pipe frame



steel plate frame

Code	Range
3106-50	0-50mm/0-2"
3106-100	0-100mm/0-4"
3106-150	0-150mm/0-6"
3106-200	100-200mm/4-8"
3106-300	150-300mm/6-12"
3106-301	200-300mm/8-12"
3106-700	600-700mm/24-28"
3106-800	700-800mm/28-32"
3106-900	800-900mm/32-36"
3106-1000	900-1000mm/36-40"

- Interchangeable anvils for different measuring range
- With ratchet stop to fix anvils
- Resolution: 0.001mm/0.00005"
- Buttons: on/off, data set, mm/in conversion, ABS/INC, data output
- IP54 protection
- SR44 battery, with one spare battery, auto power off
- RS232 output, ratchet friction thimble, carbide tips
- DIN863
- Micrometers within 300mm/12" have steel plate frame, over 300mm/12" have pipe frame
- With battery cover wrench
- Supplied with standard rods

## ELECTRONIC OUTSIDE MICROMETER



Code	Range
3108-225	200-225mm
3108-250	225-250mm
3108-275	250-275mm
3108-300	275-300mm

- Reading in metric or inch, without mm-in conversion
- Resolution: 0.001mm
- Buttons: on/off, data set, ABS/INC
- IP54 protection
- SR44 battery, with one spare battery, auto power off
- Ratchet stop, carbide tips
- DIN863
- With battery cover wrench, spare spherical anvil and zero adjusting wrench
- Supplied with standard rods



# ELECTRONIC OUTSIDE MICROMETER



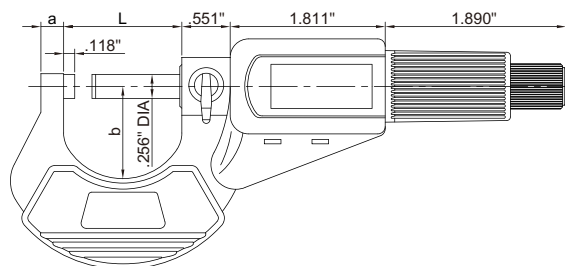
Code	Range
3109-25	0-25mm/0-1"
3109-150	125-150mm/5-6"
3109-175	150-175mm/6-7"
3109-200	175-200mm/7-8"

- Resolution: 0.001mm/0.00005"
- Buttons: on/off, data set, mm/inch, ABS/INC
- SR44 battery, with one spare battery, auto power off
- Ratchet friction thimble, carbide tips
- DIN863
- With battery cover wrench and spare spherical anvil
- Supplied with standard rods
- Packed in plastic box or wooden box

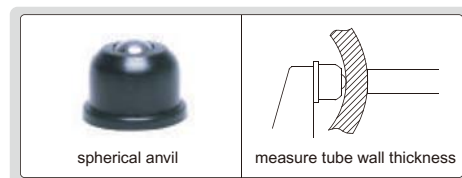
# ELECTRONIC OUTSIDE MICROMETER



3109-25E



- Resolution .00005"/0.001mm
- Button functions: on/off, set, inch/mm, ABS/INC
- Without data output
- SR44 or LR44 battery, automatic power off
- Carbide tips
- Ratchet thimble
- Supplied with spherical anvil
- Setting standards are included (except with 0-1"/0-25mm)
- Supplied in fitted storage case



spherical anvil

measure tube wall thickness

Order No.	EDP No.	Range	Accuracy	L	a	b
3109-25E	816500	0-1"/0-25mm	±.00008"	1.260"	.236"	1.083"
3109-100E	816506	3-4"/75-100mm	±.00012"	4.213"	.394"	2.402"
3109-125E	816508	4-5"/100-125mm	±.00012"	5.236"	.669"	2.756"
3109-150E	816510	5-6"/125-150mm	±.00012"	6.220"	.669"	3.346"
3109-175E	280883	6-7"/150-175mm	±.00016"	7.205"	.787"	4.094"
3109-200E	280884	7-8"/175-200mm	±.00016"	8.228"	.787"	4.528"



ratchet thimble for one hand operation

# ELECTRONIC INSIDE MICROMETER



3120

Code	Range
3120-30	5-30mm/0.2-1.2"
3120-50	25-50mm/1-2"
3120-75	50-75mm/2-3"

- Resolution:0.001mm/0.00005"
- Only micrometers 5-30mm/0.2-1.2" and 25-50mm/1-2" are supplied with standard rings
- Buttons: on/off, data set, mm/inch, ABS/INC, data output
- SR44 battery, with one spare battery, auto power off
- RS232 output
- Carbide tips
- With battery cover wrench
- Packed in plastic box or wooden box

## ELECTRONIC POINT MICROMETER



- Resolution: 0.001mm/0.00005"
- Pointed spindle and anvil tips to measure the web thickness of drills, small grooves and keyways
- Measuring tip 30 degree with SR0.3mm/0.012"
- Buttons: on/off, data set, mm/in, ABS/INC, data output
- IP54 protection
- SR44 battery, with one spare battery, auto power off
- Carbide tips
- With battery cover wrench
- Supplied with standard rods

Code	Range
3130-50	25-50mm/1-2"

## ELECTRONIC BLADE MICROMETER



3132

Code	Range
3132-50	25-50mm/1-2"
3132-150	125-150mm/5-6"

- Resolution: 0.001mm/0.00005"
- The anvil and spindle have blade tips to measure the groove diameter of shafts and keyways
- Blade tip: thickness x width x length=0.75x6x6.5mm ( 0.030x0.236x0.256")
- Buttons: on/off, data set, mm/in, ABS/INC, data output
- SR44 battery, with one spare battery, auto power off
- RS232 output
- Non-rotating spindle
- With battery cover wrench
- Supplied with standard rods

## ELECTRONIC SMALL TIP MICROMETER



- Resolution: 0.001mm/0.00005"
- The anvil and spindle have small diameter tips to measure splined shafts, slots and keyways
- Tips: diameter x length = 2x5mm (0.079x0.197")
- Buttons: on/off, data set, mm/in, ABS/INC, data output
- IP54 protection
- SR44 battery, with one spare battery, auto power off
- RS232 output
- Carbide tips
- With battery cover wrench
- Supplied with standard rods

Code	Range
3133-50	25-50mm/1-2"

## ELECTRONIC LARGE ANVIL MICROMETER



3534

Code	Range
3534-50	25-50mm/1-2"

- Resolution: 0.001mm/0.00005"
- Anvil size: 50x14mm(2x0.56") for 0-25mm/0-1" ,  
60x14mm(2.4x0.56") for 25-50mm/1-2"
- Buttons: on/off, data set, mm/in, ABS/INC , data output
- IP54 protection
- SR44 battery, with one spare battery, auto power off
- RS232 output, **3534** is supplied with data output cable
- Carbide spindle tip
- With battery cover wrench
- Supplied with standard rod
- Packed in plastic box or wooden box

## ELECTRONIC DEEP THROAT OUTSIDE MICROMETER



3539



3139

Code	Range	Throat depth
3539-251	0-25mm/0-1"	50mm/2"
3539-251S	0-25mm/0-1"	50mm/2"
3539-501	25-50mm/1-2"	50mm/2"
3539-501F	25-50mm/1-2"	50mm/2"
3539-504F	25-50mm/1-2"	300mm/12"
3139-251	0-25mm/0-1"	50mm/2"

- Resolution: 0.001mm/0.00005"
- Flat-flat tips (flat-spherical tips and spherical-spherical tips are optional)
- Buttons: on/off, data set, mm/in, ABS/INC, data output
- IP54 protection
- SR44 battery, with one spare battery, auto power off
- RS232 output, **3539** is supplied with data output cable
- Carbide tips, with battery cover wrench
- Supplied with standard rods

## ELECTRONIC SPHERICAL TIP MICROMETER



Code	Range
3160-25	0-25mm/0-1"
3160-50	25-50mm/1-2"
3160-75	50-75mm/2-3"
3160-100	75-100mm/3-4"

- Resolution: 0.001mm/0.00005"
- For wall thickness of tubes
- Anvil tip is spherical, spindle tip is flat
- Buttons: on/off, data set, mm/in, ABS/INC, data output
- IP54 protection
- SR44 battery, with one spare battery, auto power off
- RS232 output
- Carbide tips
- With battery cover wrench
- Supplied with standard rods



# ELECTRONIC TUBE MICROMETER



3561 type A



3161 type A

Code	Range	Anvil Type
3561-25	0-25mm/0-1"	A
3561-50	25-50mm/1-2"	A
3161-25	0-25mm/0-1"	A
3161-50	25-50mm/1-2"	A

- Resolution: 0.001mm/0.00005"
- For wall thickness of tubes
- Buttons: on/off, data set, mm/in, ABS/INC, data output
- IP54 protection
- SR44 battery, with one spare battery, auto power off
- RS232 output, 3561 is supplied with data output cable
- Carbide spindle tip
- With battery cover wrench
- Supplied with standard rod

## ELECTRONIC UNI-MICROMETER



3562



3162

- Resolution: 0.001mm/0.00005"
- Measure tube thickness, shoulder edge distance, rivet head height, etc.
- With flat anvil and rod anvil
- Buttons: on/off, data set, mm/in, ABS/INC, data output
- IP54 protection
- SR44 battery, with one spare battery, auto power off
- RS232 output, **3562** is supplied with data output cable
- With battery cover wrench
- Supplied with standard rod

Code	Range	Rod anvil	Flat anvil
3162-25	0-25mm/0-1"	Ø3mm/0.12"	6.5x1.5mm/0.256x0.059"

## ELECTRONIC SINGLE POINT MICROMETER



3566

3166

Code	Range	Anvil Type
3566-25C	0-25mm/0-1"	C
3166-25	0-25mm/0-1"	A
3166-50	25-50mm/1-2"	A

- Resolution: 0.001mm/0.00005"
- To measure drills, grooves and hard-to-reach dimensions
- Buttons: on/off, data set, mm/in, ABS/INC, data output
- IP54 protection
- SR44 battery, with one spare battery, auto power off
- RS232 output
- Carbide tips
- With battery cover wrench
- Supplied with standard rods

## ELECTRONIC UNIVERSAL MICROMETER



Code	Range
3180-25	0-25mm/0-1"
3180-50	25-50mm/1-2"

- Resolution: 0.001mm/0.00005"
- With 7 pairs of measuring tips: flat, spherical, spline, disk, blade, point 60° (55° is optional), knife-edge 60° (55° is optional), same as **3280**
- Buttons: on/off, data set, mm/inch, ABS/ INC, data output
- SR44 battery, with one spare battery, auto power off
- RS232 output, **3580** is supplied with data output cable
- With battery cover wrench
- Supplied with standard rods

# ELECTRONIC SCREW THREAD MICROMETER



Code	Range
3181-75	50-75mm/2-3"
3181-100	75-100mm/3-4"
3181-200	175-200mm/7-8"

- Resolution: 0.001mm/0.00005"
- Measure pitch diameter of screw threads
- Supplied with standard rods 60°
- Measuring tips are optional
- Buttons: on/off, data set, mm/inch, ABS/ INC, data output
- SR44 battery, with one spare battery, auto power off
- RS232 output
- No-rotating spindle
- With battery cover wrench

## ELECTRONIC JAW TYPE MICROMETER



3583



3183

Code	Code	Range
3583-25	3183-25	0-25mm/0-1"
3583-50	3183-50	25-50mm/1-2"

- Resolution: 0.001mm/0.00005"
- Buttons: on/off, data set, mm/in, ABS/INC, data output
- SR44 battery, with one spare battery, auto power off
- RS232 output, **3583** is supplied with data output cable
- Non-rotating spindle
- With battery cover wrench
- Supplied with standard rods
- Packed in plastic box or wooden box

## ELECTRONIC V-ANVIL MICROMETER



3590

3190

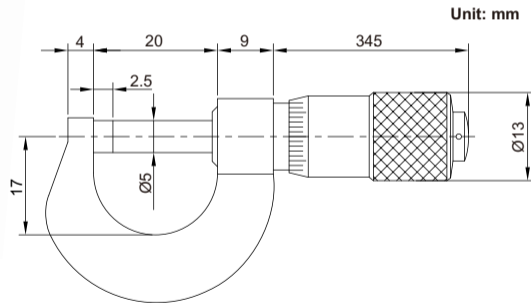
Code	Range	Flutes
3590-253	2.3-25mm/0.09-1"	3
3590-255	5-25mm/0.2-1.0"	5
3590-803	65-80mm/2.6-3.2"	3
3190-153	1-15mm/0.04-0.6"	3
3190-257	5-25mm/0.2-1.0"	7
3190-457	25-45mm/1.0-1.8"	7
3190-657	45-65mm/1.8-2.6"	7

- Resolution: 0.001mm/0.00005"
- Measure the outside diameter of cutting heads (such as taps, reamers, end mills) with odd number of flutes
- Buttons: on/off, data set, mm/in, ABS/INC, data output
- IP54 protection
- SR44 battery, with one spare battery, auto power off
- RS232 output, **3590** is supplied with data output cable
- Carbide tip
- With battery cover wrench
- Supplied with standard rods

## MINI OUTSIDE MICROMETER



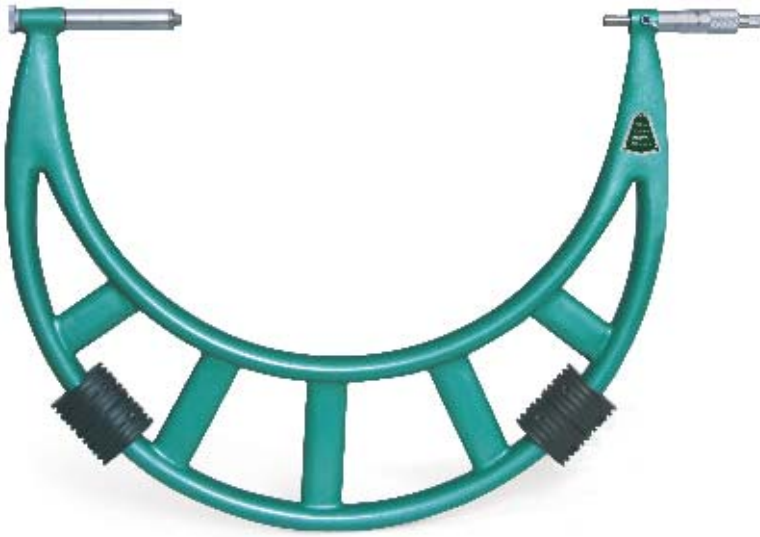
3200-15



Code	Range	Graduation
3200-06	0-0.6"	0.001"
3200-15	0-15mm	0.01mm



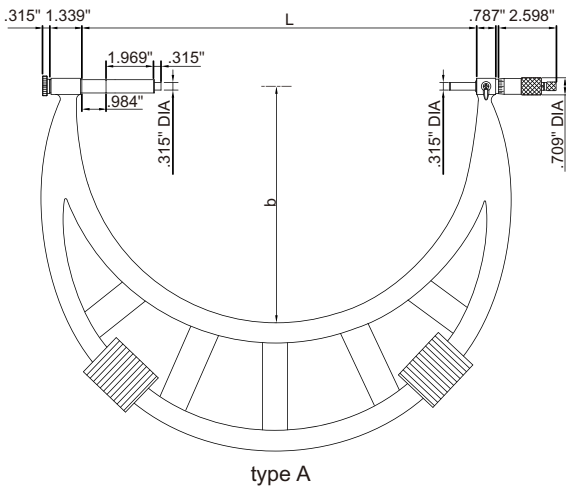
# OUTSIDE MICROMETER WITH EXTENSION ANVIL COLLAR



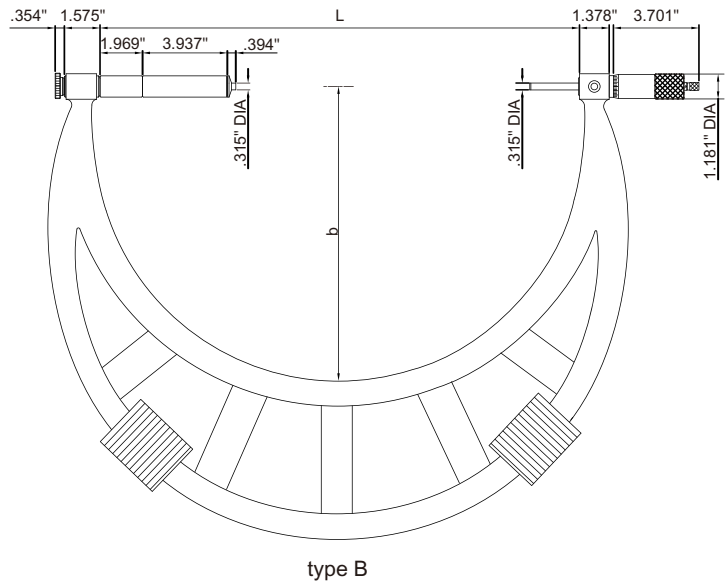
3205-16



add anvils for different measuring ranges



type A



type B

Order No.	EDP No.	Range	Type	Accuracy	L	b
3205-16	281153	12-16"	A	.00043"	16.142"	9.843"
3205-24	281155	20-24"	A	.00055"	24.016"	13.583"
3205-28	281156	24-28"	A	.00063"	27.953"	15.551"
3205-36	281158	32-36"	A	.00079"	35.827"	19.488"
3205-40	281159	36-40"	A	.00087"	39.764"	21.457"

- Graduation: .001"
- Add anvils for different measuring ranges
- Ratchet stop
- Carbide tips
- Supplied with setting standards
- Supplied in fitted storage case

## SMALL TIP MICROMETER



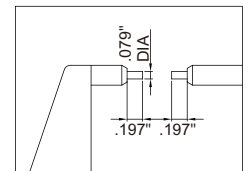
Code	Range
3233-50	25-50mm
3233-100	75-100mm
3233-125	100-125mm
3233-150	125-150mm
3233-175	150-175mm

- Graduation: 0.01mm
- The anvil and spindle have small diameter tips to measure splined shafts, slots and keyways
- Tips: diameter x length = 2x5mm
- Ratchet stop, carbide tips
- With zero adjusting wrench
- Supplied with standard rods



3233-1

## SPLINE MICROMETER



Code	Range
3233-2	1-2"
3233-3	2-3"
3233-4	3-4"

- Measures splined shafts, slots and keyways
- Graduation .0001"
- Ratchet stop
- Carbide tips
- Supplied with setting standards (except with 0-1")
- Supplied in fitted storage case

## LARGE ANVIL MICROMETER



Code	Range	Graduation	Anvil size
3234-25	0-25mm	0.01mm	50x14mm
3234-50	25-50mm	0.01mm	60x14mm
3234-1	0-1"	.0001"	2x.56"

- Ratchet stop, carbide spindle tip
- With zero adjusting wrench
- Supplied with standard rods

## OUTSIDE MICROMETER FOR LEFT AND RIGHT HAND



front



back

3236-1

Code	Range	Graduation
3236-25	0-25mm	0.01mm
3236-50	25-50mm	0.01mm
3236-75	50-75mm	0.01mm
3236-175	150-175mm	0.01mm
3236-2	1-2"	.001"
3236-3	2-3"	.001"

- Graduations on two sides
- Ratchet stop
- Carbide tips
- Supplied with setting standards (except with 0-25mm/0-1")

## OUTSIDE MICROMETER WITH ANVIL ATTACHMENT



Code	Range
3237-50	0-50mm
3237-2	0-2"

- With anvil attachment to increase the measuring range
- Graduation: metric 0.01mm  
inch 0.0001"
- DIN863
- Ratchet stop, carbide tips
- With zero adjusting wrench

## CALIPER TYPE MICROMETER



Code	Range	Code	Range
3238-75	50-75mm	3238-4	3-4"

- Graduation: metric 0.01mm  
inch 0.001"
- Non-rotating spindle
- Ratchet stop, carbide tips
- With zero adjusting wrench
- Supplied with standard rods
- Packed in plastic box or wooden box

## DEEP THROAT OUTSIDE MICROMETER

- Graduation: 0.01mm
- Flat-flat tips (flat-spherical tips and spherical-spherical tips are optional)
- Ratchet stop, carbide tips
- With zero adjusting wrench
- Supplied with standard rods

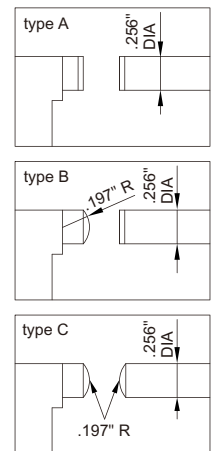
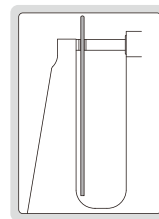


Code	Range	Throat depth	Tip Type
3239-503	25-50mm	150mm	flat-flat
3239-251S	0-25mm	50mm	spherical-spherical



3239-13

## SHEET METAL MICROMETER



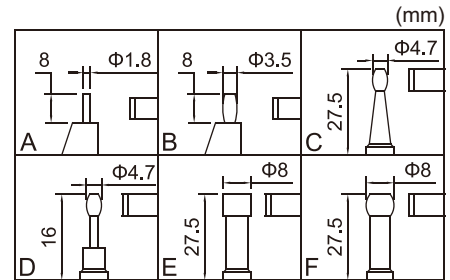
Code	Range	Type	Throat Depth
3239-11	0-1"	A	1.969"
3239-11S	0-1"	C	1.969"
3239-21	1-2"	A	1.969"
3239-23	1-2"	A	5.906"
3239-24F	1-2"	B	11.811"

- Deep frame suitable for measurements of sheet metal, paper and plastic sheets
- Graduation .0001"
- Ratchet stop
- Carbide tips
- Supplied with setting standards (except with 0-1")
- Supplied in fitted storage case

# TUBE MICROMETER



Type A



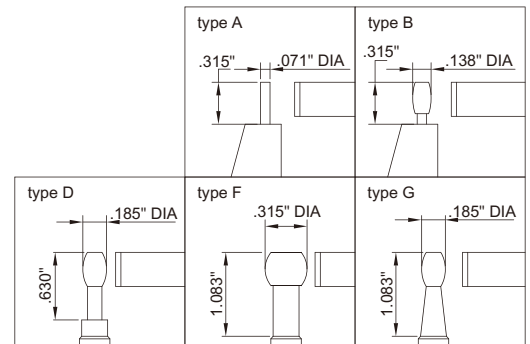
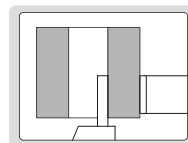
Code	Range	Anvil Type
3261-25C	0-25mm	C
3261-25F	0-25mm	F

- Graduation: 0.01mm
- For wall thickness of tubes
- Ratchet stop, carbide spindle tip
- With zero adjusting wrench
- Supplied with standard rods

# CYLINDRICAL ANVIL TUBE MICROMETER



3261-1

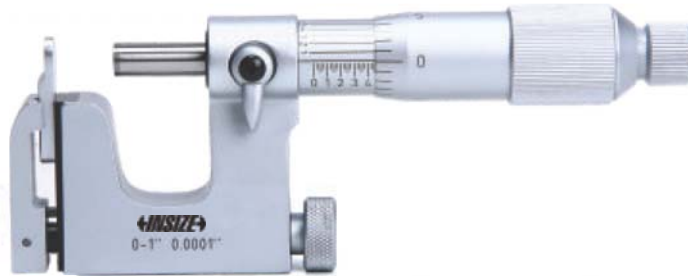


- Measures wall thickness of tubes
- Graduation .0001"
- Ratchet stop
- Carbide spindle tip
- Supplied with setting standards (except with 0-1")
- Supplied in fitted storage case

Code	Range	Type
3261-1F	0-1"	F



## UNI-MICROMETER



- Graduation: 0.01 mm
- Measure tube thickness, shoulder edge distance, rivet head height, etc.
- With flat anvil and rod anvil
- Ratchet friction thimble, carbide spindle tip
- With zero adjusting wrench
- Supplied with standard rod

Code	Range	Rod anvil	Flat anvil
3262-50	25-50mm	Ø5mm	6.5x1.5mm

# SHEET METAL MICROMETER



Code	Range	Throat depth
3263-15	0-15mm	50mm
3263-25	0-25mm	50mm

Code	Range	Throat depth
3263-06	0-0.6"	2.0"
3263-2	0-2"	3.9"

- Graduation: metric 0.01mm  
inch 0.001"
- Measure thickness of sheet metal, paper, plastic and rubber parts
- Ratchet stop, carbide tips
- With zero adjusting wrench
- Packed in wooden box

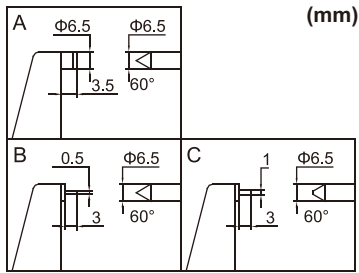
## MICROMETER FOR HOT PLATE



- Graduation: metric 0.05mm  
inch 0.002"
- Measure thickness of hot rolling sheet metal
- Carbide tips
- Supplied with standard rod

Code	Range
3264-15	0-15mm
3264-30	15-30mm
3264-45	30-45mm
3264-60	45-60mm
3264-75	60-75mm
3264-90	75-90mm
3264-105	90-105mm
3264-12	0.6-1.2"
3264-24	1.8-2.4"
3264-31	2.4-3.0"

## SINGLE POINT MICROMETER



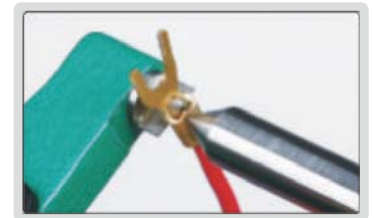
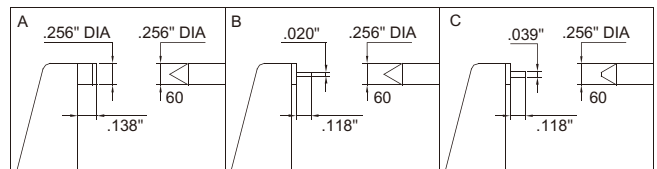
Code	Range	Anvil Type
3266-50	25-50mm	A
3266-75	50-75mm	A
3266-100	75-100mm	A
3266-50B	25-50mm	B
3266-25C	0-25mm	C

- Graduation: 0.01mm
- To measure drills, grooves and hard-to-reach dimensions
- Ratchet stop, carbide tips
- With zero adjusting wrench
- Supplied with standard rods

## CRIMP HEIGHT MICROMETER



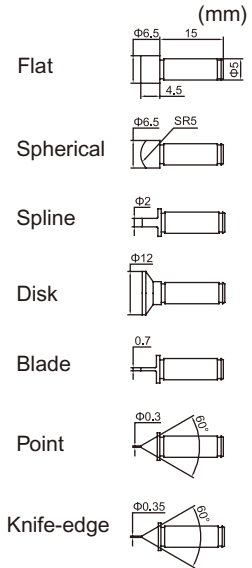
3266-1



Code	Range	Anvil Type
3266-1	0-1"	A
3266-2	1-2"	A

- Measures the height of crimped contacts
- Graduation .0001"
- Ratchet stop
- Supplied with setting standards (except with 0-1")
- Supplied in fitted storage case

# UNIVERSAL MICROMETER



- Graduation: metric 0.01mm  
inch 0.001"
- With 7 pairs of measuring tips: flat, spherical, spline, disk, blade, point 60° (55° is optional), knife-edge 60° (55° is optional)
- Ratchet stop
- With zero adjusting wrench
- Supplied with standard rods
- Packed in plastic box or wooden box

Code	Range
3280-3	2-3"

## DISK MICROMETER



Code	Range
3282-300	275-300mm

- Graduation: 0.01mm
- Ratchet stop
- With zero adjusting wrench
- Supplied with standard rods

## JAW TYPE MICROMETER



Code	Range
3283-25	0-25mm
3283-50	25-50mm
3283-75	50-75mm
3283-100	75-100mm
3283-150	125-150mm

- Graduation: 0.01mm
- Non-rotating spindle, ratchet stop
- With zero adjusting wrench
- Supplied with standard rods

## JAW TYPE MICROMETER

- Graduation: .0001"
- Non-rotating spindle
- Ratchet stop
- Supplied with setting standards (except with 0-1")
- Supplied in fitted storage case

Code	Range
3283-1	0-1"
3283-2	1-2"
3283-3	2-3"
3283-7	6-7"



3283-1

# LARGE DISK MICROMETER



Code	Range
3289-25	0-25mm
3289-50	25-50mm
3289-100	75-100mm

- Graduation: 0.01mm
- Diameter of disk 60mm/2.4"
- Non-rotating spindle
- Ratchet stop
- With zero adjusting wrench
- Supplied with standard rods



## V-ANVIL MICROMETER



- Measure the outside diameter of cutting heads (such as taps, reamers, end mills) with odd number of flutes
- Ratchet stop, carbide tip
- With zero adjusting wrench
- Supplied with standard rods

Code	Range	Graduation	Flutes
3290-253	2.3-25mm	0.01mm	3
3290-257	5-25mm	0.01mm	7
3290-267	1.8-2.6"	0.001"	7

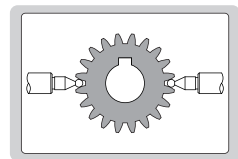
ball tips are not included



**3291-1**

- Measures over-pin diameter of gears
- Graduation .001"
- Ratchet stop
- Supplied with setting standards (except with 0-1")
- Spindle lock
- Supplied in fitted storage case

## GEAR TOOTH MICROMETER



Order No.	EDP No.	Range
3291-1	281638	0-1"
3291-2	281639	1-2"

## NON ROTATING SPINDLE DISK MICROMETER



Code	Range	Dia. of disk
3294-125	100-125mm	30mm
3294-175	150-175mm	30mm
3294-200	175-200mm	30mm

- Graduation: 0.01mm
- Non-rotating spindle
- Ratchet stop
- With zero adjusting wrench
- Supplied with standard rods

## MICROMETER WITH DIAL INDICATOR



- Micrometer graduation: metric 0.01mm  
inch 0.001"
- Dial indicator graduation: metric 0.01mm  
inch 0.0005"
- Dial indicator range: metric 10mm  
inch 0.5"
- Micrometers within 300mm/12" have steel plate frame,  
over 300mm/12" have pipe frame
- Ratchet stop, carbide tips
- With zero adjusting wrench
- Supplied with standard rods

Code	Range
3296-4	0-4"

## GEAR ROOT DIAMETER MICROMETER

- Graduation: 0.01mm
- With adjustable anvils
- Micrometer within 200mm/8" have casting frame, over 200mm/8" have pipe frame
- Ratchet stop, carbide tips
- With zero adjusting wrench
- Supplied with standard rods

Code	Range	Point
3297-100	5-100mm	SR0.4mm
3297-200	100-200mm	SR0.5mm
3297-300	200-300mm	SR0.7mm
3297-400	300-400mm	SR0.7mm



## MICROMETER WITH DIAL INDICATOR



Code	Range
3331-1	0-1"

- Micrometer graduation: 0.0001"
- Dial indicator graduation: 0.0005"
- Dial indicator range: 0.5"
- Carbide tips
- With zero adjusting wrench
- Supplied with standard rods

## ELECTRONIC OUTSIDE MICROMETER WITH INTERCHANGEABLE ANVILS



- Interchangeable anvils for different measuring range
- With ratchet stop to fix anvils
- Buttons: on/off, data set, mm/in conversion, ABS/INC, data output
- IP54 protection
- SR44 battery, with one spare battery, auto power off
- RS232 output, supplied with data output cable, ratchet stop, carbide tips
- DIN863
- Micrometers within 300mm/12" have casting frame
- With zero adjusting wrench
- With battery cover wrench
- Supplied with standard rods

Code	Range	Resolution
3506-50	0-50mm/ 0-2"	0.001mm/0.00005"

# ELECTRONIC SPHERICAL TIP MICROMETER



3560

Code	Range
3560-25	0-25mm/0-1"

- Resolution: 0.001mm/0.00005"
- For wall thickness of tubes
- Anvil tip is spherical, spindle tip is flat (spherical spindle tip is optional)
- Buttons: on/off, data set, mm/in, ABS/INC, data output
- IP54 protection
- SR44 battery, with one spare battery, auto power off
- RS232 output, 3560 is supplied with data output cable
- Carbide tips
- With battery cover wrench
- Supplied with standard rods
- Packed in plastic box or wooden box



## NON ROTATING SPINDLE ELECTRONIC DISK MICROMETER



3594

Code	Range
3594-150	125-150mm/5-6"

- Resolution: 0.001mm/0.00005"
- Non-rotating spindle
- Buttons: on/off, data set, mm/in, ABS/INC, data output
- SR44 battery, with one spare battery, auto power off
- RS232 output, 3594 is supplied with data output cable
- With battery cover wrench
- Supplied with standard rods

## ELECTRONIC GEAR ROOT DIAMETER MICROMETER



Code	Range	Point
3597-100	5-100mm/0.2-4"	SR0.4mm/0.016"
3597-500	400-500mm/16-20"	SR0.7mm/0.028"
3597-600	500-600mm/20-24"	SR0.7mm/0.028"
3597-700	600-700mm/24-28"	SR0.7mm/0.028"

- Resolution: 0.001mm/0.00005"
- With adjustable anvils
- Micrometer within 200mm/8" have casting frame, over 200mm/8" have pipe frame
- Buttons: on/off, data set, mm/in, ABS/INC, data output
- IP54 protection
- SR44 battery, with one spare battery, auto power off
- RS232 output, **3597** is supplied with data output cable
- Carbide tips
- With battery cover wrench
- Supplied with standard rods

## DOUBLE DISPLAY ELECTRONIC MICROMETER HEAD

- Resolution:0.001mm/0.00005"
- Double display, in two directions
- Buttons: on/off, data set, mm/in, ABS/INC, LCD direction
- IP54 protection
- Battery CR2032, auto power off
- RS232 output
- Ratchet friction thimble, flat carbide tip

Code	Range
6350-30	0-30mm/0-1.2"

Fixing neck length=17.5mm,  
diameter=Ø12+0/-0.011mm,  
spindle=Ø6.5mm



front



back

## ELECTRONIC MICROMETER HEAD

- Resolution:0.001mm/0.00005"
- Fixing neck length=17.5mm, diameter=Ø12+0/-0.011mm, spindle=Ø6.5mm
- Buttons: on/off, data set, mm/in, ABS/INC
- IP54 level protection
- SR44 battery, auto power off
- RS232 output
- Ratchet friction thimble, flat carbide tip
- Packed in carton



Code	Range
6351-25	0-25mm/0-1"

## ELECTRONIC MICROMETER HEAD



Code	Range
6352-25	0-25mm/0-1"

- Resolution:0.001mm/0.00005"
- Fixing neck length=17.5mm, diameter=Ø12+0/-0.011mm, spindle=Ø6.5mm
- Buttons: on/off, data set, mm/in, ABS/ INC, data output
- IP54 level protection
- SR44 battery, auto power off
- RS232 output
- Ratchet friction thimble, flat carbide tip
- Packed in carton

## μ-DIGITAL MICROMETER HEAD

- Counter resolution: metric 0.001mm  
inch 0.0001"
- Thimble graduation: metric 0.01mm  
inch 0.0001"
- Fixing neck length=17.5mm, diameter=Ø12+0/-0.011mm,  
spindle=Ø6.5mm
- Ratchet friction thimble, flat carbide tip
- Packed in carton

Code	Range
6361-25	0-25mm
6361-1	0-1"



## DIGITAL MICROMETER HEAD

- Counter resolution: metric 0.01mm  
inch 0.001"
- Thimble graduation: metric 0.01mm  
inch 0.0001"
- Fixing neck length=17.5mm,  
diameter= $\varnothing 12+0/-0.011$ mm, spindle= $\varnothing 6.5$ mm
- Reverse reading is optional
- Ratchet stop, flat carbide tip
- Packed in carton

Code	Range
6362-25	0-25mm
6362-1	0-1"



## MICROMETER HEAD



- Fixing neck length=17.5mm, diameter=Ø12+0/-0.011mm, spindle=Ø6.5mm
- Flat carbide tip, ratchet stop
- Packed in carton

Code	Range	Graduation
6372-25	0-25mm	0.01mm
6372-1	0-1"	.001"

## MICROMETER HEAD



- Fixing neck length=5.5mm, diameter=Ø9.5+0/-0.009mm, spindle=Ø5mm
- Flat carbide tip
- With clamp nut (option: without clamp nut)
- Packed in carton

Code	Range	Graduation
6372-05	0-0.5"	.001"

## MICROMETER HEAD



- Fixing neck length=5mm, diameter=Ø3.5+0/-0.008mm, spindle=Ø2mm
- Flat carbide tip
- Packed in carton

Code	Range	Graduation
6372-5	0-5mm	0.02mm

## MICROMETER HEAD



Code	Range	Graduation
6372-50	0-50mm	0.01mm
6372-2	0-2"	.001"

- Fixing neck length=29mm, diameter=Ø12+0/-0.011mm, spindle=Ø8mm
- Flat carbide tip, ratchet stop
- Packed in carton



## MICROMETER HEAD QUICK FEEDING



- 100 graduation lines on thimble for quick feeding
- Fixing neck length=10mm, diameter= $\text{Ø}12+0/-0.011\text{mm}$ , spindle= $\text{Ø}8\text{mm}$
- Flat carbide tip, ratchet stop
- With clamp nut (option: without clamp nut)

Code	Range	Graduation
6375-15	0-15mm	0.01mm

## MICROMETER HEAD NO PARALLAX



- Fixing neck length=17.5mm, diameter= $\varnothing 12+0/-0.011$ mm, spindle= $\varnothing 6.5$ mm
- Flat carbide tip, friction ratchet thimble
- No parallax

Code	Range	Graduation
6378-25	0-25mm	0.001mm

# MICROMETER HEAD FINE READING

- Graduation: metric 0.002mm  
inch 0.0001"
- Fixing neck length=14mm, diameter= $\varnothing 18+0/-0.011$ mm, spindle= $\varnothing 6.5$ mm
- Large thimble diameter  $\varnothing 49$ mm, two-direction graduation
- Flat carbide tip
- Packed in carton

Code	Range
6379-50	0-50mm



# INCH DIAL INDICATOR



- Bezel diameter 3", stem diameter 3/8"
- Lugback
- With bezel locking clamp and tolerance index
- Aluminum body
- Meet ANSI B89. 1. 10
- Packed in plastic or wooden box

Code	Range	Graduation
2312-155	0-1.5"	0.0005"

## DUAL GRADUATION DIAL INDICATOR

- Bezel diameter 2.3", stem diameter 3/8"
- Lug back
- Supplied with tolerance index and bezel clamp
- Optional accessory: contact points (page 59-60)
- Supplied in fitted storage case

**NEW SIZES!**



**2325-1**

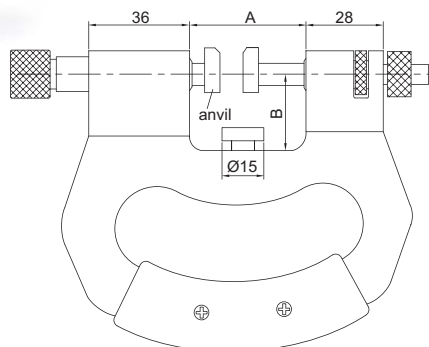
Order No.	EDP No.	Range	Graduation
2325-05	282722	.5"/12.5mm	.001"/0.01mm
2325-1	282723	1"/25mm	.001"/0.01mm

# DIAL SNAP GAUGE

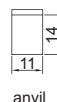


dial indicator is not included

**2185-25W**



Unit: mm



- For quick Go/No-Go judgment of diameter of cylinders and shafts
- Anvil retracting stroke: 3mm
- Measuring force: 6-9N
- Carbide measuring faces
- Front edges of anvils are chamfered for easy workpiece insertion
- Optional indicators:
  - dial indicator, range 10mm, graduation 0.01mm  
(code **2308-10FA**)
  - digital indicator, range 12.7mm/0.5", resolution 0.001mm/0.00005"  
(code **2103-10F**)
  - digital indicator, range 12.7mm/0.5", resolution 0.01mm/0.0005"  
(code **2104-10F**)

(mm)

Code	Range	A	B
<b>2185-25W</b>	0-25mm	42	20
<b>2185-50W</b>	25-50mm	69	32.5
<b>2185-75W</b>	50-75mm	94	45
<b>2185-100W</b>	75-100mm	119	57.5
<b>2185-125W</b>	100-125mm	144	70
<b>2185-150W</b>	125-150mm	169	82.5
<b>2185-175W</b>	150-175mm	194	95
<b>2185-200W</b>	175-200mm	219	107
<b>2185-225W</b>	200-225mm	244	120
<b>2185-250W</b>	225-250mm	269	132
<b>2185-275W</b>	250-275mm	294	145
<b>2185-300W</b>	275-300mm	319	157

## optional indicators



**2308-10FA**

**2103-10F**

**2104-10F**

# THICKNESS GAGE WITH CONSTANT PRESSURE

- Constant pressure 0.1Mpa
- For measurement of plastic film, paper and metal sheet
- Measuring tip  $\text{Ø}6\text{mm}$
- Bezel diameter 58mm

Code	Range	Graduation
2362-5	0-5mm	0.01mm
2362-1	0-1mm	0.001mm



## THICKNESS GAGE WITH ROLLING WHEEL

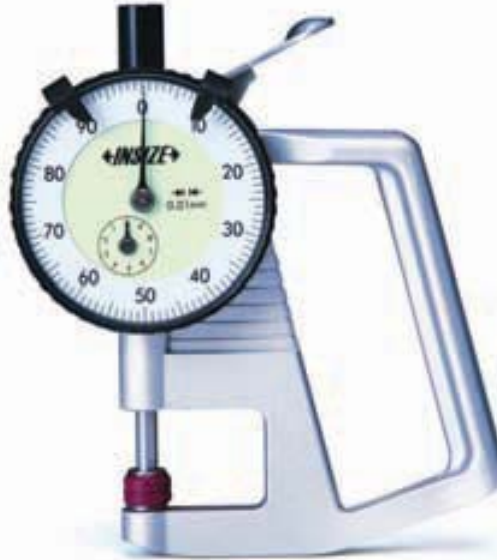


- For continuous measurement
- Wheel width 7mm
- Bezel diameter 58mm
- Aluminum body
- Measuring depth 100mm
- Packed in wooden box

Code	Range	Graduation
2368-10	0-10mm	0.01mm



## THICKNESS GAGE



Code	Range	Graduation
2861-10	0-10mm	0.01mm
2861-E05	0-0.5"	0.001"

- Ceramic measuring tips  $\varnothing 10\text{mm}/0.40\text{"}$
- Aluminum body
- Bezel diameter  $55\text{mm}/2.17\text{"}$
- Measuring depth  $25\text{mm}/1\text{"}$
- Packed in plastic box

# ELECTRONIC THREE POINTS INSIDE MICROMETER

- Resolution:0.001mm/0.00005"
- Buttons: on/off, data set, mm/inch, ABS/INC
- IP54 protection
- SR44 battery, with one spare battery, auto power off
- Ratchet stop, carbide tips
- RS232 output
- With standard ring
- Packed in aluminum box

Code	Range
3127-232	2-3mm (2pcs)



# THREE POINTS INSIDE MICROMETER

- Graduation: metric 0.001mm  
inch 0.0001"
- Ratchet stop, carbide tips
- With standard ring
- Packed in aluminum box

Code	Range	Measuring depth
3227-2	2-2.5mm	12.5mm/0.5"
3227-3	2.5-3mm	12.5mm/0.5"
3227-4	3-4mm	22.5mm/0.9"
3227-6	5-6mm	22.5mm/0.9"

Code	Range
3227-232	2-3mm (2pcs)



## GRANITE SQUARE

- Made of granite, hard and no rusty, no dimensional change over time or temperature change
- The two narrow 90° surfaces of the square are precision lapped



Code	Size in metric	Size in inch	Squareness
4141-160	160x100x20mm	6.3x3.9x0.8"	4.0μm/0.00016"

## GRANITE STRAIGHT EDGE



Code	Size in metric	Size in inch	Flatness
4147-300	300x30x50mm	12x1.2x2"	3.20 $\mu$ m/0.00013"
4147-630	630x50x80mm	25x2x3.1"	4.40 $\mu$ m/0.00017"

- Made of granite, hard and no rusty, no dimensional change over time or temperature change
- For checking straightness

## SPECIAL SQUARE

- Check angles: 30°, 35°, 90°, 135°, 160°
- Packed in carton

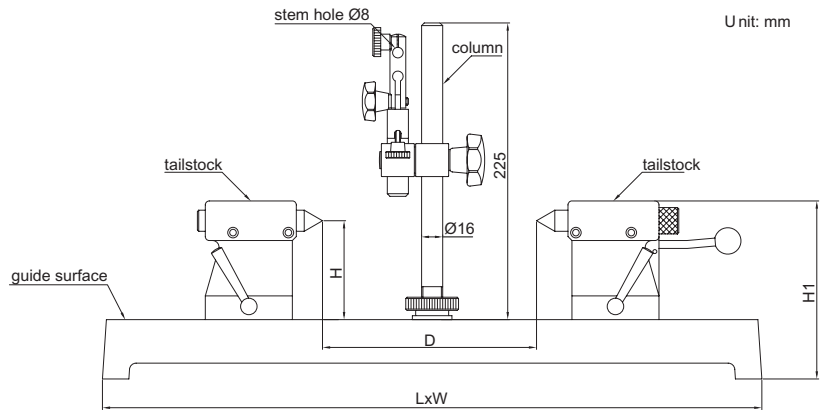
Code	Size
4709-92	92x47mm (3.6x1.8")
4709-256	256x143mm (10x5.6")



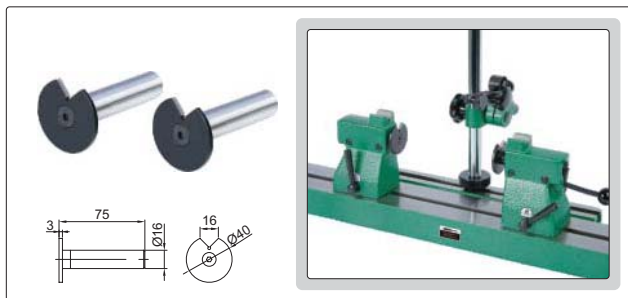
# BENCH CENTER



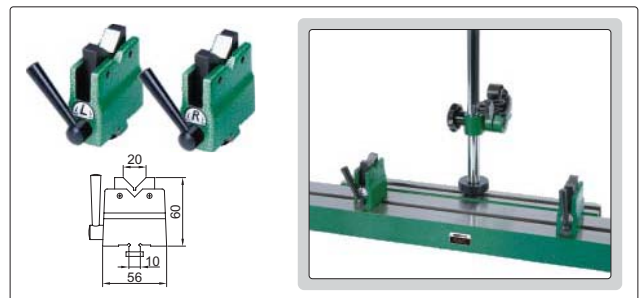
4785-200



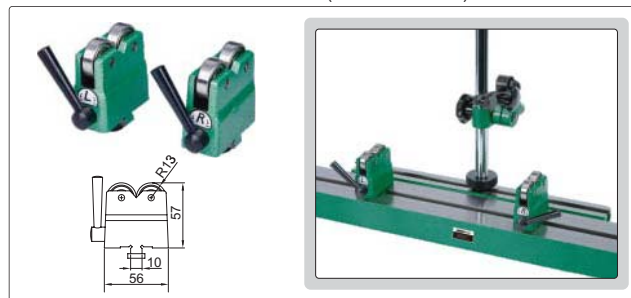
V block (code 4785-AC1)



V block (code 4785-AC2)



roller tailstocks (code 4785-AC3)



Code	Accuracy	Center height (H)	Distance between two centers(D)	L	W	H1	Weight
4785-200	0.01mm	50	200	350	110	110	8kg

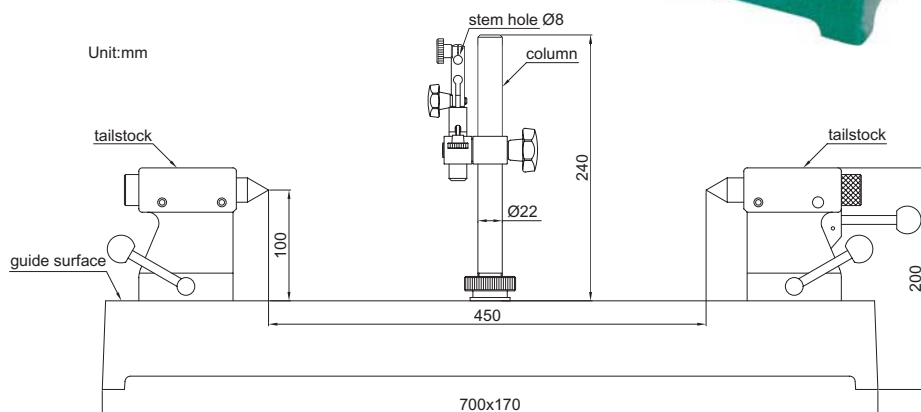
(mm)



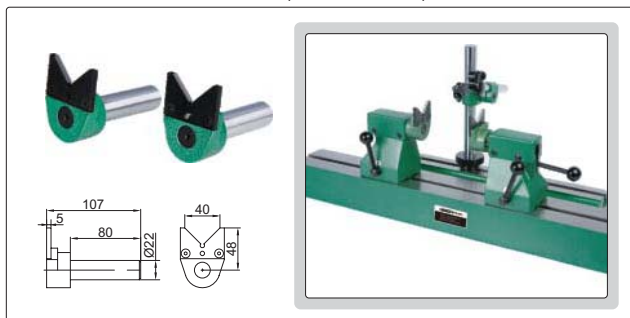
# BENCH CENTER



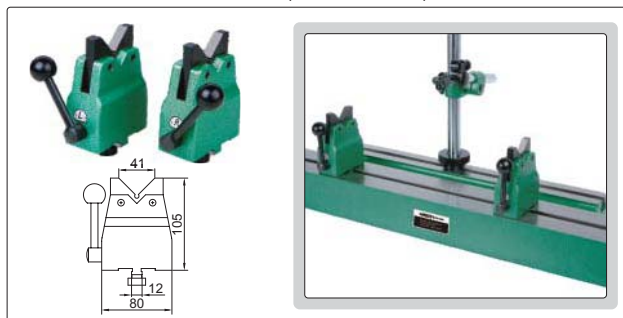
**4787-450**



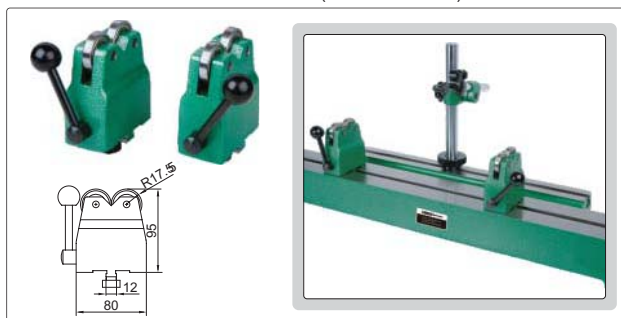
**V block (code 4787-AC1)**



**V block (code 4787-AC2)**



**roller tailstocks (code 4787-AC3)**



Code	Accuracy	Center height	Distance between two centers	Weight
4787-450	0.01mm	100mm	450mm	35kg

### Optional accessory

Code	Name	Diameter
4787-AC1	V block	Ø8-45mm
4787-AC2	V block	Ø8-50mm
4787-AC3	roller tailstocks	Ø2-60mm



## RADIUS GAGE SET



- Each piece has 5 concave or convex gaging surfaces
- Made of alloy steel
- Packed in pouch

Code	Range	Radius of blade	Quantity of blade	Handle
4804-22	0.5 to 15mm	0.5, 1, 1.5, 2, 2.5, 3, 3.5, 4, 4.5, 5, 5.5, 6, 6.5, 7, 8, 9, 10, 11, 12, 13, 14, 15mm	22pcs	With
Code	Range	Radius of blade	Quantity of blade	Handle
4804-10E	0.55 to 1"	0.55, 0.60, 0.65, 0.70, 0.75, 0.80, 0.85, 0.90, 0.95, 1"	10pcs	Without

# WELDING SEAM GAGE

- Made of alloy steel
- Packed in pouch



Code	Range	Size of blade	Quantity of blade
4805-12	3-12mm	3, 3.5, 4, 4.5, 5, 5.5, 6, 6.5, 7, 8, 10, 12mm	12pcs
4805-12E	1/8-1/2"	1/8, 5/32, 3/16, 7/32, 1/4, 9/32, 5/16, 11/32, 3/8, 13/32, 7/16, 1/2"	12pcs

## KEYWAY GAGE

- To measure the depth of keyway
- Graduation: 0.05mm
- Made of stainless steel
- Packed in plastic box

Code	Range
4811-80	5-80mm
4811-120	6-120mm
4811-160	7-160mm
4811-200	8-200mm



## 90° BEVELED EDGE SQUARE

- Satin chrome plating
- Two beveled edges
- Made of hardened stainless steel

- **DIN875 grade 1**

Code	Size
4790-2501	250x165mm
4790-3001	300x200mm
4790-501	50x40mm



## 90° FLAT EDGE SQUARE WITH WIDE BASE

- DIN875 grade 1
- Flat edge
- Made of hardened stainless steel

Code	Size
4793-1001	100x70mm
4793-2001	200x130mm
4793-2501	250x165mm



## MINI MAGNETIC STAND

- For dial test indicators
- Overall stem length 170mm/6.7"
- Dovetail groove
- Clamp hole 3/8" DIA. with Ø8mm sleeve
- With fine adjustment
- Base:36x30x35mm (1.4x1.2x1.4") , with on/off switch

Code	Magnetic force
6204-40	40kgf/88lbf



## HEAVY DUTY UNIVERSAL MAGNETIC STAND

- Overall stem length 340mm/13.4"
- Dovetail groove for test indicators
- Clamp hole 3/8" DIA. with Ø8mm sleeve
- With fine adjustment
- Base:60x50x55mm (2.4x2x2.2"), with on/off switch

Code	Magnetic force
6205-80	80kgf/176lbf



## SMALL MAGNETIC STAND

- Magnetic isolation block at bottom
- For indicators with lug back

Code	Magnetic force
6213-25	25kgf/55lbf





## MEASURING TABLE

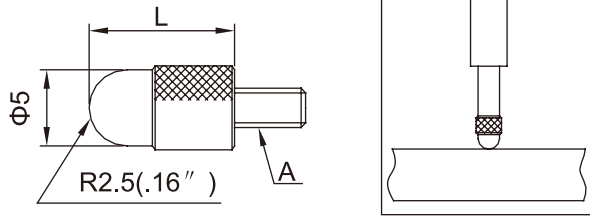
- 160mm/6.3" maximum height capacity
- Granite base: 260x150x50mm (10.2x5.9x2"), flatness DIN876 grade 00
- Column: Ø35mm/1.4" with precision threaded spindle and graduation (graduation 0.01mm)
- Assistant stem Ø20x200mm (0.8x7.9")
- Clamp hole 3/8" DIA. with Ø8mm sleeve
- Packed in wooden box

**Code**

**6857**



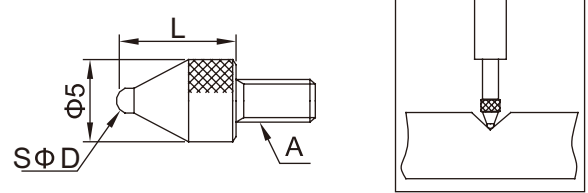
## SHELL TYPE POINTS



Note: R2.5 is for M2.5X0.45  
R.16" is for #4-48UNF

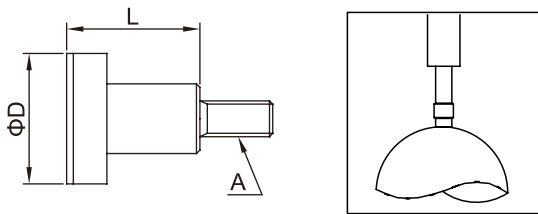
Code	Material	L(mm)	A
6282-0206	Steel	19.05	#4-48UNF

## BALL POINTS



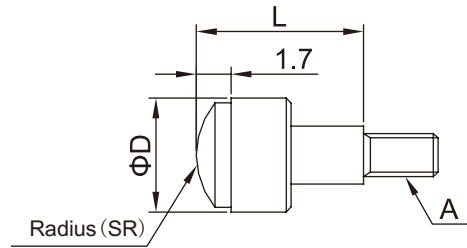
Code	Material	SΦD(mm)	A
6282-0306	Carbide	4	#4-48UNF

## FLAT POINTS



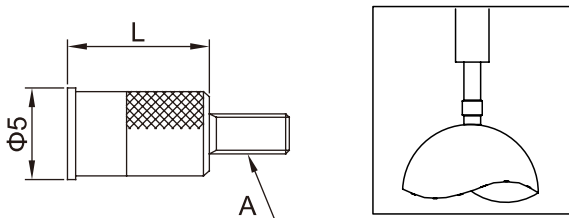
Code	Material	ΦD(mm)	L(mm)	A
6282-1206	Steel	12.7	9.53	#4-48UNF

## SPHERICAL POINTS



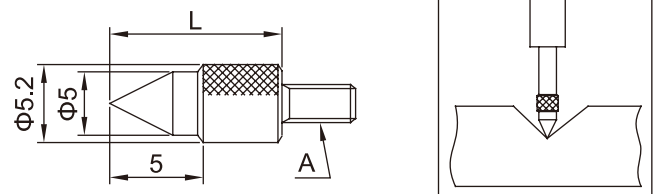
Code	Material	D(mm)	L(mm)	SR(mm)	A
6282-0501	Steel	5.2	5	5	M2.5X0.45
6282-0502	Steel	7.5	10	7	M2.5X0.45
6282-0503	Steel	10.5	10	10	M2.5X0.45

## FLAT POINTS



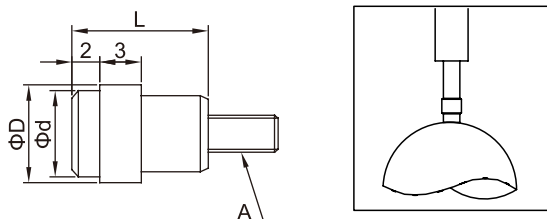
Code	Material	L	A
6282-1103	Steel	8mm	#4-48UNF

## CONICAL POINTS



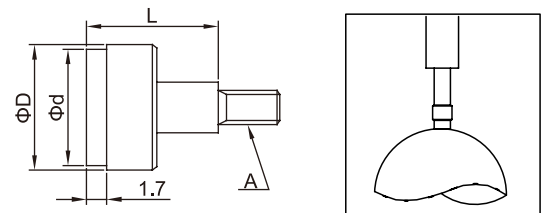
Code	Material	Tip angle	L(mm)	A
6282-0602	Steel	60	12.7	#4-48UNF

## FLAT POINTS



Code	Material	ΦD(mm)	Φd(mm)	L(mm)	A
6282-1501	Steel	7	6.4	10	M2.5X0.45
6282-1502	Steel	9	8	10	M2.5X0.45

## FLAT POINTS



Code	Material	D(mm)	Φd(mm)	L(mm)	A
6282-1401	Steel	5.2	4.3	5	M2.5X0.45
6282-1402	Steel	7	6.5	10	M2.5X0.45
6282-1403	Steel	10.5	9.5	10	M2.5X0.45
6282-1404	Steel	17	15	10	M2.5X0.45
6282-1405	Steel	22	20	10	M2.5X0.45

## METRIC PARALLEL SETS



- Parallel within 0.005mm
- Height matched within 0.005mm
- Hardened to HRC55-60
- With holes
- Packed in plastic box or wooden box

Code	Quantity(pairs)	Length(mm)	Thickness(mm)	Height(mm)
<b>6533-142</b>	14	150	4	14, 16, 18, 20, 22, 24, 26, 28, 30, 32, 35, 40, 45, 50
<b>6533-143</b>	14	150	5	14, 16, 18, 20, 22, 24, 26, 28, 30, 32, 35, 40, 45, 50
<b>6533-20</b>	20	100	2	5, 10, 15, 20
			3	6, 11, 16, 21
			4	7, 12, 17, 22
			5	8, 13, 18, 23
			6	9, 14, 19, 24
<b>6533-241</b>	24	150	8	11, 16, 21, 26, 31, 36
			10	13, 18, 23, 28, 33, 38
			12	15, 20, 25, 30, 35, 40
			14	17, 22, 27, 32, 37, 42

## RIGHT ANGLE PLATE



- Accuracy:  $5\mu\text{m}/100\text{mm}$  (0.00005"/1")
- Hardened to HRC58-63

Code	Size in metric	Size in inch
6546-4	100x100x150mm	4x4x6"
6546-5	100x150x150mm	4x6x6"

## EDGE FINDER



Code	Shank	Contact point
6562-1	Ø10mm	Ø10mm
6562-2	Ø10mm	Ø4mm
6562-E1	3/8" DIA.	0.2" DIA.

- Locating work surfaces easily
- Accuracy 0.005mm/0.0002"
- Packed in plastic box

## EDGE AND CENTER FINDER



Code	Shank	Contact point for edge finder
6565-1	Ø10mm	Ø4mm
6565-E1	3/8" DIA.	0.2" DIA.

- Combined edge finder and center finder
- Accuracy 0.005mm/0.0002"
- Packed in plastic box

## ELECTRONIC EDGE FINDER



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

Code	Accuracy
6566-1	0.005mm/0.0002"

## MAGNETIC V-BLOCK

- Magnetic force 70kgf/154lbf
- Accuracy: 0.02mm /100mm (0.0002" /1")
- Supplied in single piece



Code	Size in metric	Size in inch	Capacity (dia.)
6890-705	127x60x73mm	5x2.4x2.9"	38mm/1.5"



## MAGNETIC V-BLOCK



- Supplied in pair
- Accuracy: 0.02mm/100mm (0.0002"/1")
- Packed in wooden box

Code	Size in metric	Size in inch	Magnetic force	Capacity (dia.)
6891-2	100x50x80mm	4x2x3.2"	20kgf/44lbf	80mm/3.2"

## GRANITE V-BLOCK



- Made of granite, hard and no rusty, no dimensional change over time or temperature change
- Supplied in matched pair
- Ideal for testing cylinder
- Packed in aluminum box or wooden box

Code	Size in metric	Size in inch	Capacity (dia.)	Flatness	Parallelism of groove to bottom
<b>6897-3</b>	140x100x60mm	5.5x3.9x2.4"	95mm/3.7"	2.0 $\mu$ m/0.00008"	4.0 $\mu$ m/0.00016"
<b>6897-4</b>	200x140x70mm	7.9x5.5x2.8"	145mm/5.7"	3.0 $\mu$ m/0.00012"	6.0 $\mu$ m/0.00024"

## STAND FOR GRANITE SURFACE PLATE

- For medium size granite surface plates
- Including 5 leveling jacks



Code	For granite surface plate
6902-106	1000x630x140mm

## JACK SET FOR GRANITE SURFACE PLATE

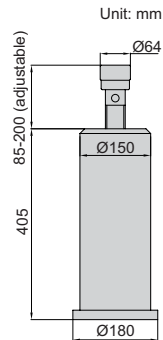


6903-A

Code

6903-A

- 5 jacks per set
- Adjustable height
- For large granite surface plates:  
2000x1000x220mm (code **6900-0201** and **6900-1201**)  
2000x1500x250mm (code **6900-0202** and **6900-1202**)



# MARKING GAGE



Code	Range
7120-200	200mm

- Graduation: 0.1 mm
- Satin chrome finish scale
- Made of stainless steel

# INSIDE CALIPER

Code	Length
7240-125	125mm/5"
7240-500	500mm/20"
7240-800	800mm/32"
7240-1000	1000mm/40"

- Made of carbon steel
- Packed in carton or plastic pouch



# OUTSIDE CALIPER

- Made of carbon steel
- Packed in carton or plastic pouch

Code	Length
7241-125	125mm/5"
7241-250	250mm/10"



## SPRING OUTSIDE CALIPER

Code	Length
7244-125	125mm/5"
7244-150	150mm/6"
7244-175	175mm/7"
7244-400	400mm/16"



- Made of carbon steel
- Packed in carton or plastic pouch



# DIVIDER

Code	Length
7245-125	125mm/5"
7245-150	150mm/6"
7245-250	250mm/10"
7245-300	300mm/12"
7245-400	400mm/16"
7245-600	600mm/24"
7245-800	800mm/32"
7245-1000	1000mm/40"



- Made of carbon steel
- Packed in carton or plastic pouch

# DIVIDER



Code	Length
7247-125	125mm/5"
7247-250	250mm/10"
7247-400	400mm/16"
7247-500	500mm/20"
7247-600	600mm/24"
7247-800	800mm/32"
7247-1000	1000mm/40"

- With setting arc
- Made of carbon steel
- Packed in carton or plastic pouch

## DIVIDER

Code	Length
7248-125	125mm/5"
7248-150	150mm/6"
7248-250	250mm/10"
7248-300	300mm/12"
7248-400	400mm/16"
7248-500	500mm/20"
7248-600	600mm/24"
7248-800	800mm/32"
7248-1000	1000mm/40"



- With setting arc and pencil holder
- Made of carbon steel
- Packed in carton or plastic pouch

## SPRING INSIDE CALIPER

Code	Length
7249-125	125mm/5"
7249-150	150mm/6"
7249-175	175mm/7"
7249-250	250mm/10"
7249-400	400mm/16"



- Made of carbon steel
- Packed in carton or plastic pouch

## SPRING DIVIDER

Code	Length
7250-125	125mm/5"
7250-150	150mm/6"
7250-200	200mm/8"
7250-250	250mm/10"



- Made of carbon steel
- Packed in carton or plastic pouch

## CYLINDER BORE GAGE



Code	Dial indicator range	Graduation
8302	0-6mm	0.01mm
8302-E	0-0.25"	0.0005"

- Check cylinder diameter, taper and out-of-round
- Measuring range from 55mm/2.1" up to 180mm/7"
- Supplied with 6 tips of different length and 4 extension rods
- With handle
- Packed in blow mould case

# ELECTRONIC DIGITAL HORIZONTAL SCALE



type A



type B readout

Code	Length	Type
7101-500	500mm/20"	B
7101-600	600mm/24"	B
7101-700	700mm/28"	B
7101-900	900mm/36"	B
7101-1000	1000mm/40"	B
7101-1200	1200mm/48"	B

- Resolution: 0.01mm/0.0005"
- Buttons of readout type A: on/off, zero set, mm/in
- Buttons of readout type B: on/off, mm/in, zero set, ABS/INC, data preset, set data
- Data output
- With mounting brackets at both ends
- Made of stainless steel
- Packed in carton or wooden box

# SPC CABLE



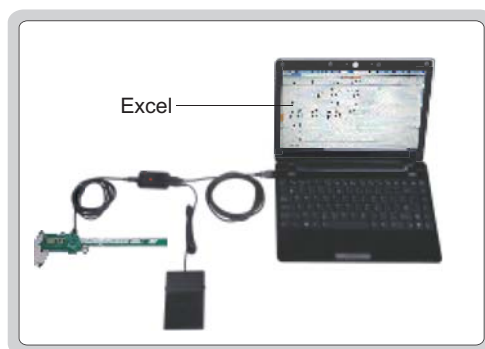
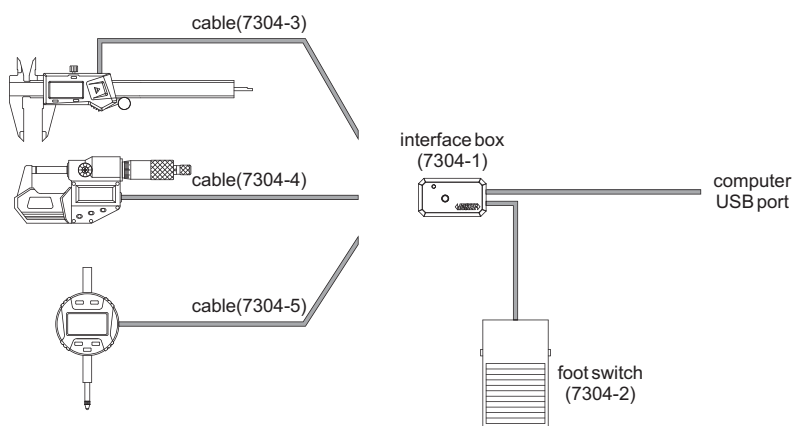
7304-1








7304-2



7304-3



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

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





**MODEL ISF-S500**

## DIGITAL SPRING TESTER

- Peak hold: catch the peak value of the test
- Peak hold and release: catch the peak value and show for 1-10 seconds (adjustable), then automatically release and ready for next peak value
- Compare: initial input of upper and lower limit enables the device to judge the value as GO (green light) and NG (red light)
- Auto power off: 1-60 minutes (adjustable)
- Data storage: 10 data memory
- Data output: RS-232
- Internal printer: print the maximum, minimum and average value, make GO and NG judgment

### Technical specification

<b>Model</b>	<b>ISF-S500</b>
Max working load	500N
Load resolution	0.1N
Test travel	100mm
Distortion resolution	0.01mm
Platen diameter	49mm
Max spring free length	100mm
Accuracy	± 1 %

### Standard delivery

Main unit	1 pc.
Power cable	1 pc.
Wrench	1 pc.
Instruction manual	1 pc.



- Based on HL, can be converted to HRB, HRC, HV, HB, HS and tensile strength
- Large LCD display with backlight
- RS232 output
- Automatic power off
- Low and high limits setting with judgment

## MODEL ISH-PH PORTABLE HARDNESS TESTER

### Technical specification

Hardness scales	HL, HRC, HRB, HS, HB, HV
Hardness accuracy	±0.5% (HL=800)
Tensile strength UTS range (steel only)	$\sigma_b$ from 370 to 2000 (106N/mm)
Memory	1250
Display	scale, hardness value, test times, average value, impact direction, type of impact device, memory, date, battery power
Output	RS232C
Power supply	two AAA alkaline batteries
Working temperature	-20°C~+40°C (-4°F-104°F)
Dimension	108×62×25mm
Weight	175g/6.2oz

### Standard delivery

Main unit	1pc
Impact device D	1pc
Cleaning brush for impact device	1pc
Small supporting ring for impact device	1pc
Standard test block	1pc
Battery	2pcs
Leathery pouch	1pc
RS232 cable	1pc
USB cable	1pc
Software disc	1pc

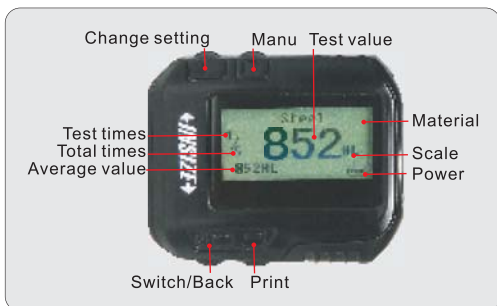
### Optional accessories

Mini printer & cable
Impact devices: DL, C
Support rings: ISH-R1015, ISH-R14530, ISH-R2550, ISH-R1113, ISH-R12517, ISH-R16530, ISH-SR1015, ISH-SR14530, ISH-SR1113, ISH-SR12517, ISH-SR16530, ISH-RUN

### Material and range for impact device D

Material	HL	HRC	HRB	HB		HS	HV
				30D <sup>2</sup>	10D <sup>2</sup>		
Steel	300-900	20.0-68.0	38.4-99.5	80-647		32.5-99.5	80-940
Tool steel	300-640	20.4-67.1	46.5-101.7				80-898
Stainless steel	300-800	19.6-62.4		85-656			85-802
Cast iron GG	360-650			90-334			
Cast iron GGG	400-660			131-367			
Cast aluminum	174-560				20-190		
Brass	200-550		13.5-95.3		40-173		
Bronze	300-700				60-290		
Copper	200-690				45-315		

←INSIZE→



USB port, for output and charging

LCD display, with backlight



Blue tooth



## MODEL ISH-SPHDL PORTABLE HARDNESS TESTER DL IMPACT DEVICE

- Application: for narrow groove and small recess
- Automatic direction correction
- Software calibration

### Technical specification

Hardness scales	HLDL, HRC, HRB, HV, HB, HS
Accuracy	±0.5% (HLDL=800)
Memory	500
Workpiece	min. weight: 5kg
	min. thickness: 5mm
	min. thickness of layers: 0.8mm
	min. radius of curved surface: 11mm
Power	built-in 3.7V rechargeable lithium battery, for 20 hours continuous working
Dimension	202x35x22 mm
Weight	125g/4.4oz

### Standard delivery

Main unit	1pc
Standard test block	1pc
Cleaning brush	1pc
Small supporting ring	1pc
Printer	1pc
AC adapter/charger	1pc

### Material and measuring range

Material	HLDL	HV	HB	HRC	HRB	HS
Steel	560-950	80-950	81-646	20.6-68.2	37.0-99.9	30.6-96.8



## MODEL ISJ-MSC METALLURGICAL SAMPLE CUTTER

### Technical specification

Maximum cutting diameter	Ø30mm/1.2"
Cutting wheel	250×2×32mm/9.8×0.08×1.3"
Rotation speed	2800r/min
Power supply	AC 380V 50Hz
Dimension	470×390×360mm
Weight	60kg/132lbs

### Standard delivery

Main unit	1pc
Cutting wheel	2pcs
Wrench	2pcs
Anti-dust cover	1pc



## LINEAR SCALE

Code	Effective range
ISL-B1-100	100mm/4"
ISL-B1-150	150mm/6"
ISL-B1-200	200mm/8"
ISL-B1-300	300mm/12"
ISL-B1-800	800mm/32"
ISL-B1-1000	1000mm/40"

### Technical specification

Model	Resolution	Speed (m/min)	Section size A×B
ISL-B1	1μm/40μin	60	29×66.8mm (1.14×2.63")
Scale grating pitch	20μm		
Scale reference point pitch	50mm		
Accuracy	±(5+5L/1000)μm L is the effective range in mm		
Working temperature	0° - 40°C (32°F-104°F)		

### Standard delivery

Main unit	1pc
'L' shape support	1pc
Anti-dust cover	1pc
Flat base	1pc (for scales 1500mm)
Fixing screws	1set



## DIGITAL CAMERA

- Very convenient to use, just insert it into eyepiece tube or top tube of trinocular head
- The visual field observed from the camera is up to 90% viewing field from the eyepiece
- By USB 2.0, getting real-time, non-compressing video data and image capturing directly
- High sensitivity feature suitable for wide range of accessories such as dark field, phase contrast, epi-fluorescence and so on
- Supplied with software

### Technical specification

<b>Model</b>	<b>ISM-D130</b>	
Sensor	1/2" CMOS	
Valid pixel	1280x1024 (1.3M pixel)	
Pixel size	5.2x5.2 $\mu$ m	
Digital output	24-bit (color)	
Frame rate	1280x1024	15f/s
	1024x960	20f/s
	640x480	30f/s
	352x288	30f/s
	320x240	30f/s
	176x144	30f/s
Exposure	manual/auto exposure time adjustable	
SNR	>45dB	
Dynamic range	62dB	
Power supply	by USB2.0	
Dimension (LxWxH)	95x65x37(mm)	
Weight	300g	

### Standard delivery

Main body	1pc
Medium adapter 0.45X	1pc
Image processing software disc	1pc
USB dog	1pc
Driver software disc	1pc
USB2.0 cable	1pc
0.1mm ruler	1pc
Ø30mm eyepiece adaptor	1pc

### Optional accessories

0.28X medium adapter
Ø30.5mm eyepiece adaptor

# MODEL ISM-S10L

## LONG WORKING DISTANCE STEREO MICROSCOPE

### Technical specification

Eyepiece	10X
Objective	1X
Interpupillary distance	55-75mm (2.3-3.0")
Diopter adjustment	±5 diopter
Working distance	230mm/9.1"
Illumination	incident light
Power supply	AC 220V 50Hz (standard) AC 110V 60Hz (option)

### Standard delivery

Main unit	1pc
Bulb (12V, 10W)	1pc
Fuse	1pc
Eyepatch	2pcs
Wrench	1pc
Anti-dust cover	1pc

### Optional accessories

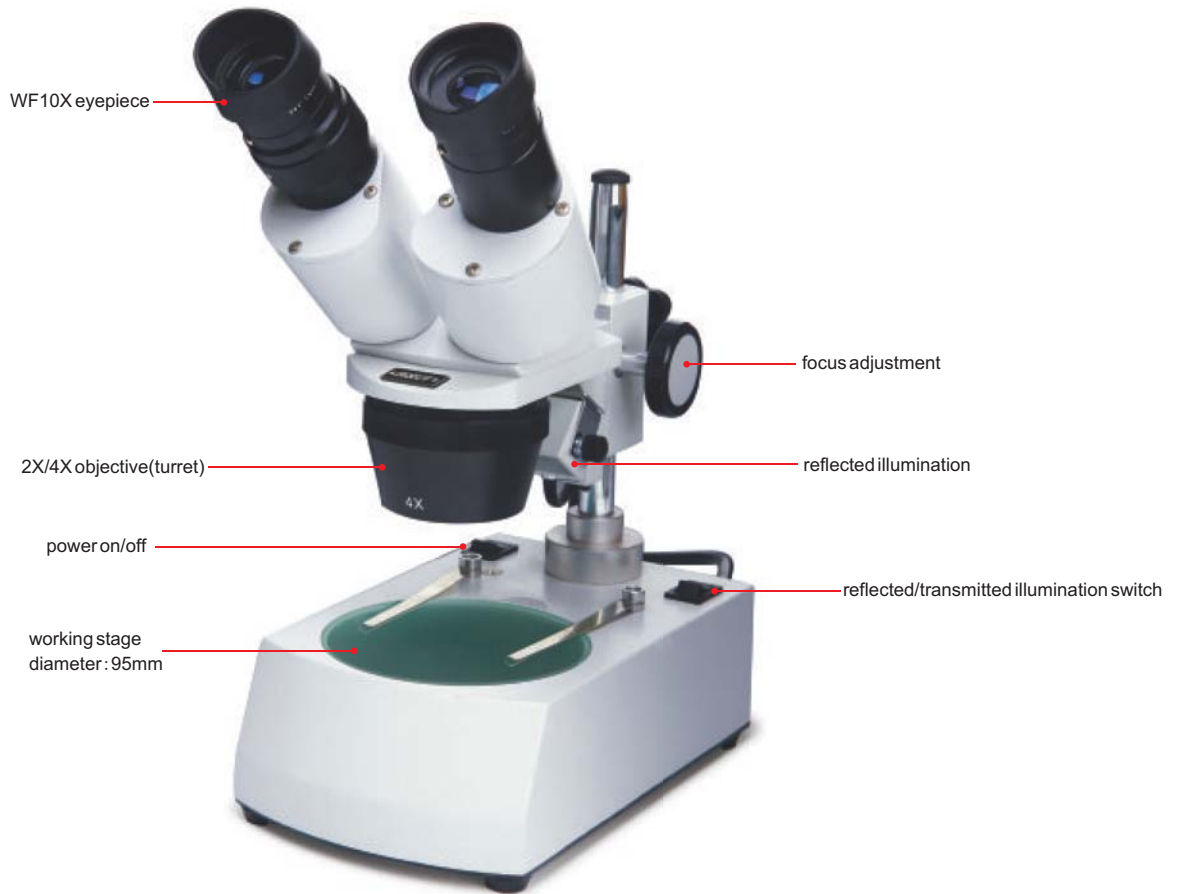
Eyepiece	WF5X, WF15X, WF20X
Objective ISM-S10L-OB05X	0.5X
Micro-image process software	ISM-MIA
Digital camera	ISM-D300B, ISM-D500



←INSIZE→



# STEREO MICROSCOPE CODE ISM-S40\*



## SPECIFICATION

<b>Eyepiece(wide field)</b>	10X(view field: Ø20mm)
<b>Objective</b>	2X, 4X(turret)
<b>Pupil distance</b>	55-75mm(adjustable)
<b>Diopter adjustment</b>	±5 diopter(one eyepiece)
<b>Working distance of objective</b>	57mm
<b>Max. workpiece height</b>	68mm
<b>Illumination</b>	selectable reflected and transmitted illumination
<b>Dimension(L×W×H)</b>	120×200×300mm
<b>Weight</b>	3kg

## STANDARD DELIVERY

<b>Main unit</b>	1pc
<b>WF10X eyepiece</b>	2pcs
<b>Eyepiece patch</b>	2pcs
<b>Ø95mm frosted glass plate</b>	1pc
<b>Ø95mm white/black plate</b>	1pc
<b>Anti-dust cover</b>	1pc

## OPTIONAL ACCESSORY

<b>Eyepiece WF20X (view field: Ø10mm)</b>	<b>ISM-S40-EP20X</b>
<b>Digital camera</b>	<b>ISM-D300B</b>
	<b>ISM-D500</b>

\* Add suffix on code No. to devote AC voltage and plug (refer to page V1)





## MODEL ISM-ZS80A ZOOM STEREO MICROSCOPE

### Technical specification

Eyepiece	WF10X, WF20X
Objective	1X-4X
Interpupillary distance	55-75mm (2.2-3.0")
Focus distance	60mm/2.4"
Working distance	97mm/3.8"
Illumination	selectable incident and transmitted light
Power supply	AC 220V 50Hz (standard) AC 110V 60Hz (option)

### Standard delivery

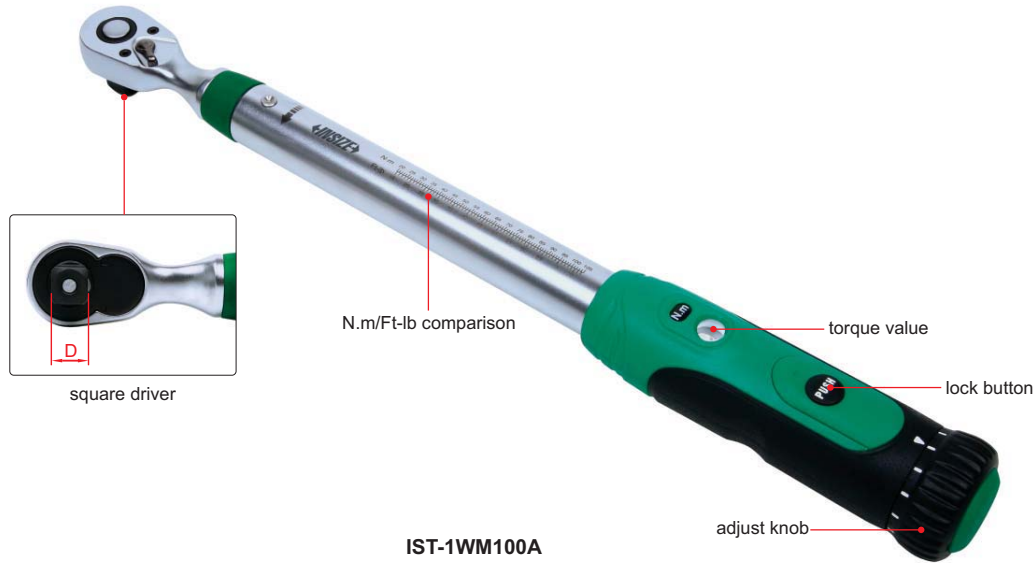
Main unit	1pc
2X auxiliary objective	1pc
Spare transmitted bulb (6V, 20W)	1pc
Spare incident bulb (6V, 15W)	1pc
Eyepiece patch	2pcs
Ø42mm/1.7" frosted glass plate with Ø80mm/3.1" steel support	1pc
Ø95mm/3.7" black/white plastic plate	1pc
Ø95mm/3.7" frosted glass plate	1pc
Anti-dust cover	1pc

### Optional accessories

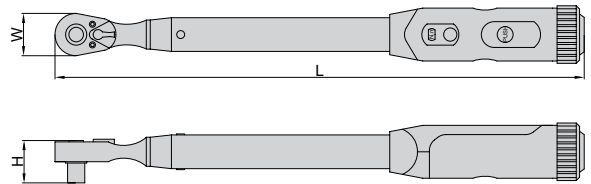
Trinocular viewing head
Eyepiece WF5X, WF15X, WF25X
Auxiliary objective 0.4X, 0.5X, 0.75X, 1.5X
Micro-image process software ISM-MIA
Digital camera ISM-D300, ISM-D500

# TORQUE WRENCH

CLOCKWISE  
OPERATION ONLY



IST-1WM100A



Set torque:



step 1: unlock



step 2: adjust



step 3: lock

## SPECIFICATION

Code	IST-1WM25	IST-1WM100	IST-1WM100A	IST-1WM200	IST-1WM340	IST-1WM340A		IST-1WM750
Range (clockwise, unit: N.m)	5~25	20~100	20~100	40~200	60~340	60~340		150~750
Accuracy	±4%	±4%	±4%	±4%	±4%	±4%		±4%
Graduation	0.1N.m	0.5N.m	0.5N.m	0.5N.m	1N.m	1N.m		2.5N.m
Square driver (D)	1/4"	3/8"	1/2"	1/2"	1/2"	3/4"		3/4"
Dimension (LxWxH, unit: mm)	323×23×21	400×32×29	400×32×32	517×40×39	620×40×37	620×40×46	918×60×55	1210×60×55
Weight	760g	988g	998g	1360g	1730g	1784g		5850g

# DIGITAL TORQUE METER



**IST-M10**

- Clockwise and counter-clockwise measurement
- Peak(max.) or tracking work mode
- Unit: kgf cm, N m, lbf in
- Maximum 10 memories
- Average reading
- Low and high limits with judgement
- RS232C output
- Automatic power off

accessory



## SPECIFICATION

<b>Code</b>	<b>IST-M10*</b>
<b>Type</b>	internal sensor
<b>Capacity (N.m)</b>	10
<b>Resolution (N.m)</b>	0.005
<b>Printer</b>	without
<b>Accuracy</b>	±0.5% full scale
<b>Max. test speed</b>	5000rpm
<b>Power</b>	built-in rechargeable battery, for 12 hours working
<b>Weight</b>	2.4kg

## STANDARD DELIVERY

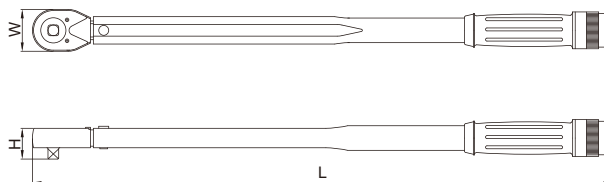
<b>Code</b>	<b>IST-M10</b>
<b>Main unit</b>	1pc
<b>Adapter</b>	4pcs(M6, Ø4, Ø5, Ø6)
<b>Buffer</b>	1pc
<b>AC/DC adapter</b>	1pc
<b>RS232 cable and software disc</b>	1pc of each

\*Add suffix on code No. to devote AC voltage and plug (refer to page V1)

# TORQUE WRENCH



IST-WM110



Set torque:



step 1: unlock



step 2: set



step 3: lock

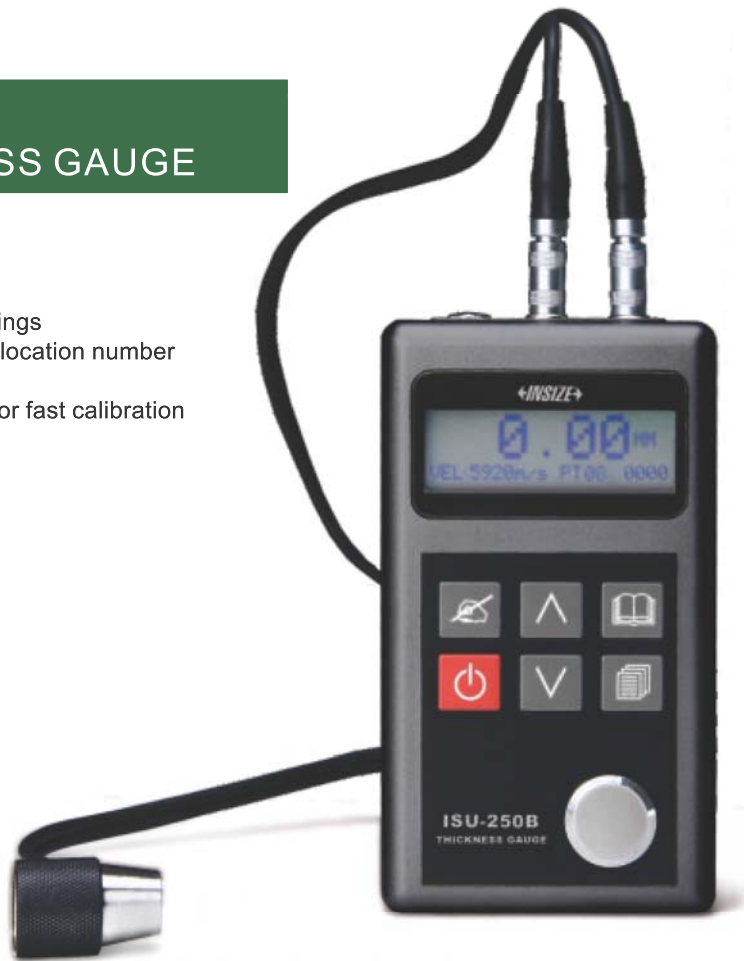
## SPECIFICATION

Code	IST-WM30	IST-WM500	IST-WM700	IST-WM980	IST-WM1500
Range (clockwise)	6-30N.m	100~500N.m	140~700N.m	140~980N.m	300~1500N.m
Accuracy	±4%	±4%	±4%	±4%	±4%
Graduation	0.2N.m	2.5N.m	2.5N.m	7N.m	10N.m
Square driver (D)	1/4"	3/4"	3/4"	1"	1"
Dimension (L×W×H, unit: mm)	295x28x20	860x73x51	1085x73x51	1230x73x59	1700x80x67
Weight	740g	3660g	5940g	6460g	11580g

# MODEL ISU-250B

## ULTRASONIC THICKNESS GAUGE

- With low-high indication and alarm
- Average calculation of max. 9 readings
- Memory of max. 400 readings with location number
- RS232 to PC or mini-printer
- Built-in standard block of 4.00mm for fast calibration
- LCD display with backlight
- Low battery voltage indicator



### Technical specification

Measuring range	0.7-250mm/0.027-10"
Resolution	0.01mm/0.001" for range<100mm/4"
	0.1mm/0.01" for range≥100mm/4"
Velocity	1000-9999m/s (3281-32806ft/s)
Power supply	2×1.5V AAA batteries
Dimension	61×108×26mm
Weight	150g/5.3oz

### Standard delivery

Main unit	1pc
Transducer ISU-PT08	1pc
Battery	2pcs
Couplant	1bottle

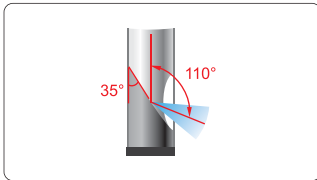
### Optional accessories

Mini printer and cable ISU-250B-SP1
Software and cable
Transducer: ISU-ZT12, ISU-PT04, ISU-PT06, ISU-PT12, ISU-GT13

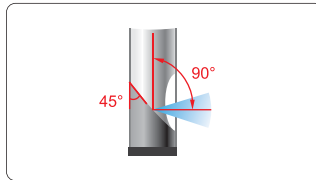
### Specification of transducers

Code	Frequency	Measuring Range	Diameter	Temperature	Minimum size of steel pipe for measurement (diameter × wall thickness)	Application
ISU-ZT12	2.0MHz	2.0-350mm/0.08-14.00"	Ø16.3mm/0.64"	<60°C/140°F	30×3mm/1.18×0.12"	for casting steel
ISU-PT04	7.5MHz	0.8-20mm/0.03-0.80"	Ø5mm/0.20"	<60°C/140°F	—	for thin material
ISU-PT06	7.5MHz	0.7-50mm/0.03-2.00"	Ø8.5mm/0.34"	<60°C/140°F	10×1mm/0.40×0.04"	for thin material
ISU-PT08	5.0MHz	0.8-200mm/0.03-8.00"	Ø10.8mm/0.43"	<60°C/140°F	10×1.2mm/0.40×0.05"	general use
ISU-PT12	5.0MHz	1-250mm/0.04-10.00"	Ø12mm/0.47"	<60°C/140°F	10×1.2mm/0.40×0.05"	general use
ISU-GT13	5.0MHz	2.0-100mm/0.08-4.00"	Ø13mm/0.51"	<350°C/662°F	20×2mm/0.80×0.08"	for high temperature

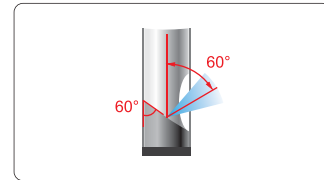
# ENDOSCOPE CODE ISV-E55B\*



35° mirror(optional)



45° mirror(optional)



60° mirror(optional)

## SPECIFICATION

<b>Probe diameter</b>	5.5mm
<b>Dust/waterproof probe</b>	IP57
<b>Pixel</b>	0.3M
<b>Resolution</b>	640x480
<b>Frame rate</b>	30fps
<b>Video format</b>	PAL or NTSC
<b>Power supply</b>	rechargeable battery (for 3 hours working)
<b>Weight</b>	450g

## STANDARD DELIVERY

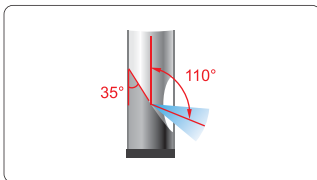
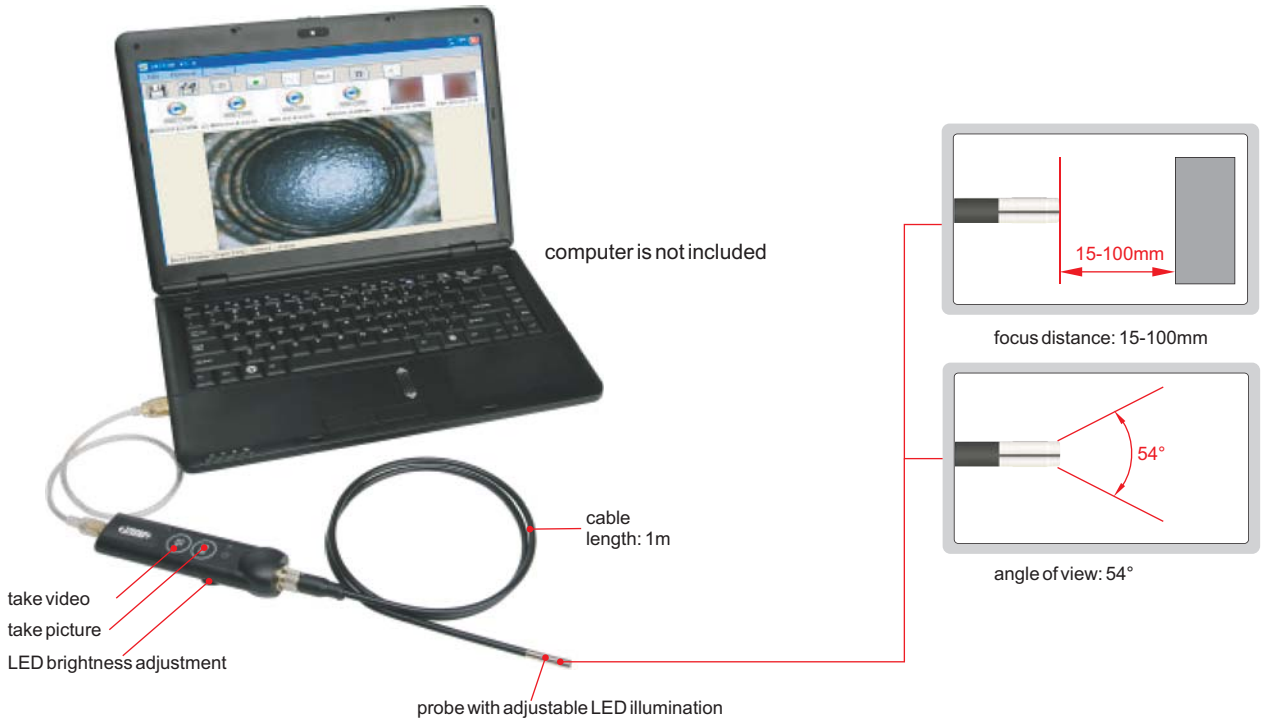
<b>Main unit</b>	1pc
<b>Cable with probe</b>	1pc
<b>AC/DC adapter</b>	1pc
<b>Video output cable</b>	1pc

## OPTIONAL ACCESSORY

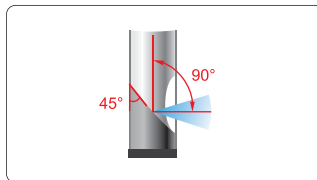
<b>35° mirror</b>	ISV-E55-M35
<b>45° mirror</b>	ISV-E55-M45
<b>60° mirror</b>	ISV-E55-M60
<b>Cable</b>	Page Q5

\* Add suffix on code No. to devote AC voltage and plug (refer to page V1)

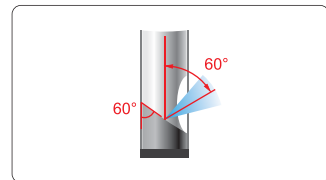
# ENDOSCOPE CODE ISV-E55C



35° mirror(optional)



45° mirror(optional)



60° mirror(optional)

## SPECIFICATION

<b>Probe diameter</b>	5.5mm
<b>Dust/waterproof probe</b>	IP57
<b>Pixel</b>	0.3M
<b>Resolution</b>	640x480
<b>Frame rate</b>	30fps
<b>Power supply</b>	USB
<b>Weight</b>	150g

## STANDARD DELIVERY

<b>Main unit</b>	1pc
<b>Cable with probe</b>	1pc
<b>Software CD</b>	1pc
<b>USB cable</b>	1pc

## OPTIONAL ACCESSORY

<b>35° mirror</b>	ISV-E55-M35
<b>45° mirror</b>	ISV-E55-M45
<b>60° mirror</b>	ISV-E55-M60
<b>Cable</b>	Page Q5

# CABLE FOR VIDEOSCOPE



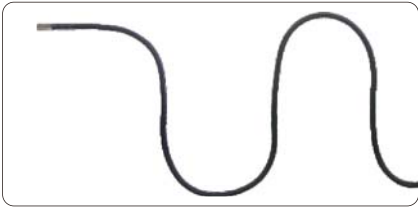
- IP57 dust/waterproof
- With adjustable LED illumination

## SPECIFICATION

Code	Type	Cable length	Diameter (Ød)	Focus distance (L)	Pixel
ISV-E55-C4301	semi-rigid	1m	4.3mm	15~30mm	pixel 0.1M resolution 320×240 frame rate 30fps
ISV-E55-C55003		0.3m	5.5mm	15~100mm	pixel 0.3M resolution 640×480 frame rate 30fps
ISV-E55-C5501		1m			
ISV-E55-C5503		3m			
ISV-E55-C5505		5m			
ISV-E55-C5510		10m			
ISV-E55-CS5501		1m			



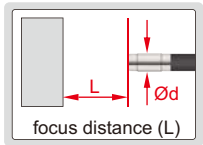
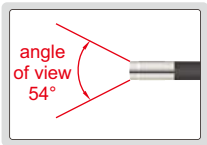
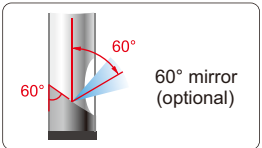
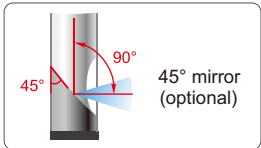
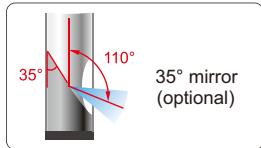
semi-rigid cable  
(can be bent slightly, but cannot be set)



soft cable (can be set at any shape)

## OPTIONAL ACCESSORY

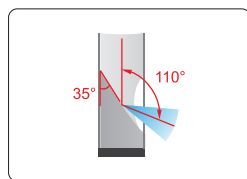
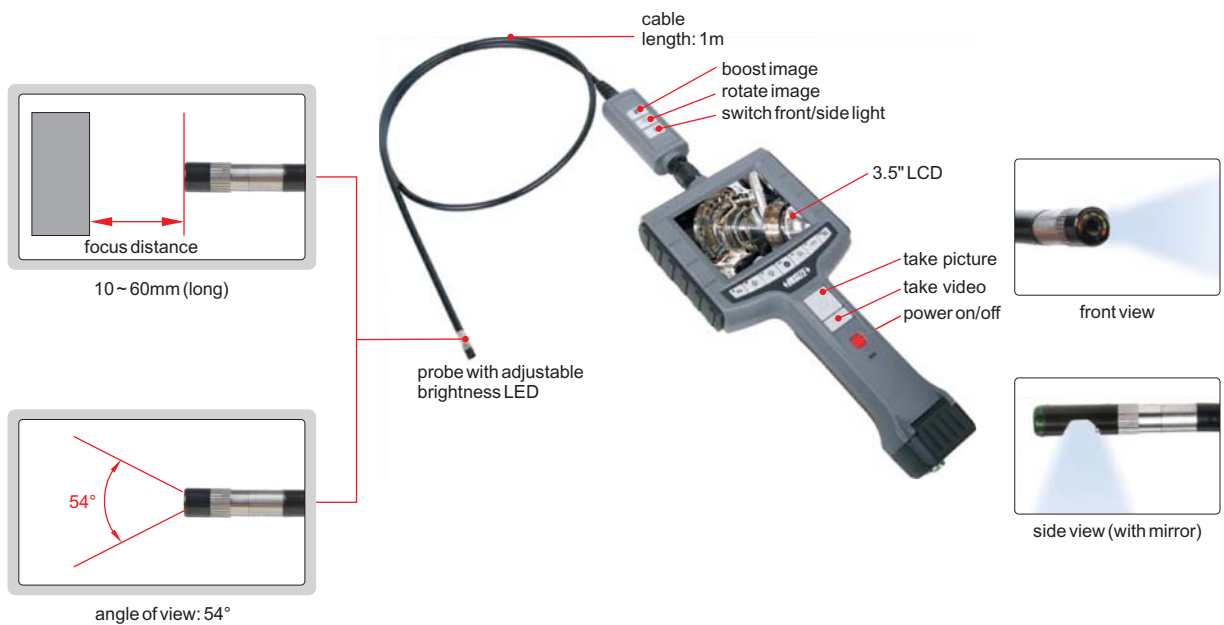
35° mirror (for Ø5.5mm probe)	ISV-E55-M35
45° mirror (for Ø5.5mm probe)	ISV-E55-M45
60° mirror (for Ø5.5mm probe)	ISV-E55-M60



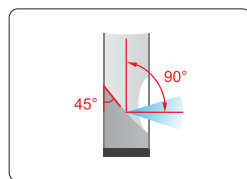


# FRONT/SIDE VIEW ENDOSCOPE

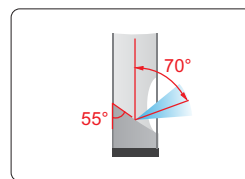
**IP67**  
COOLANT  
PROOF



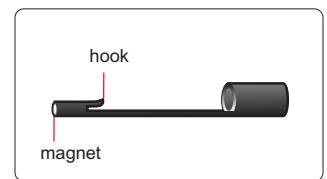
35° mirror (optional)



45° mirror (optional)



55° mirror (included)



hook and magnet (optional)

- Can eliminate the influence of oil or dust when mirror is used
- The boost image function is suitable for very low brightness environment

## SPECIFICATION

Code	ISV-VP55	
Probe	focus distance	10~60mm
	diameter	5.5mm
	dust/waterproof	IP67
	pixel	0.3M
	resolution	640x480
	frame	30fps
	Cable	length
	type	semi-rigid
Main body	function	take picture and video
	file format	picture: JPG , video: ASF
	image process	mirror, rotate, zoom (1.5X, 2X)
	memory	4G SD card
	output	TV, USB
	power supply	4xAA batteries
Weight	500g	

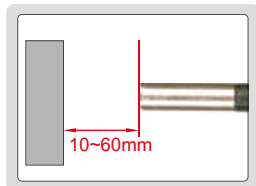
## STANDARD DELIVERY

Main body	1 pc
Cable with probe	1 pc
55° mirror	1 pc
4G SD card	1 pc
AA battery	4 pcs
Vdieo output cable	1 pc
USB cable	1 pc

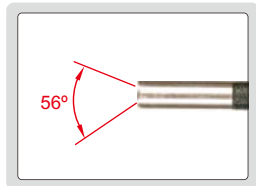
## OPTIONAL ACCESSORY

45° mirror	ISV-VP55-R45
35° mirror	ISV-VP55-R35
Hook and magnet	ISV-VP55-MH
Ø5.5mm flexible cable 2M	ISV-VP55-C02
Ø5.5mm flexible cable 3M	ISV-VP55-C03

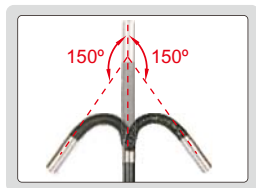
# ENDOSCOPE CODE ISV-WE60A\*



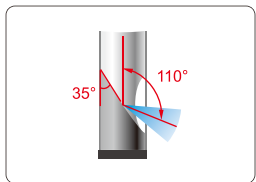
focus distance: 10~60mm



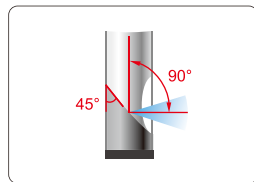
angle of view: 56°



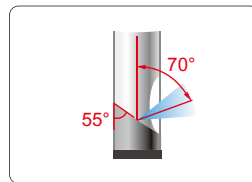
probe can be bent in two directions ( ±150°)



35° mirror(optional)



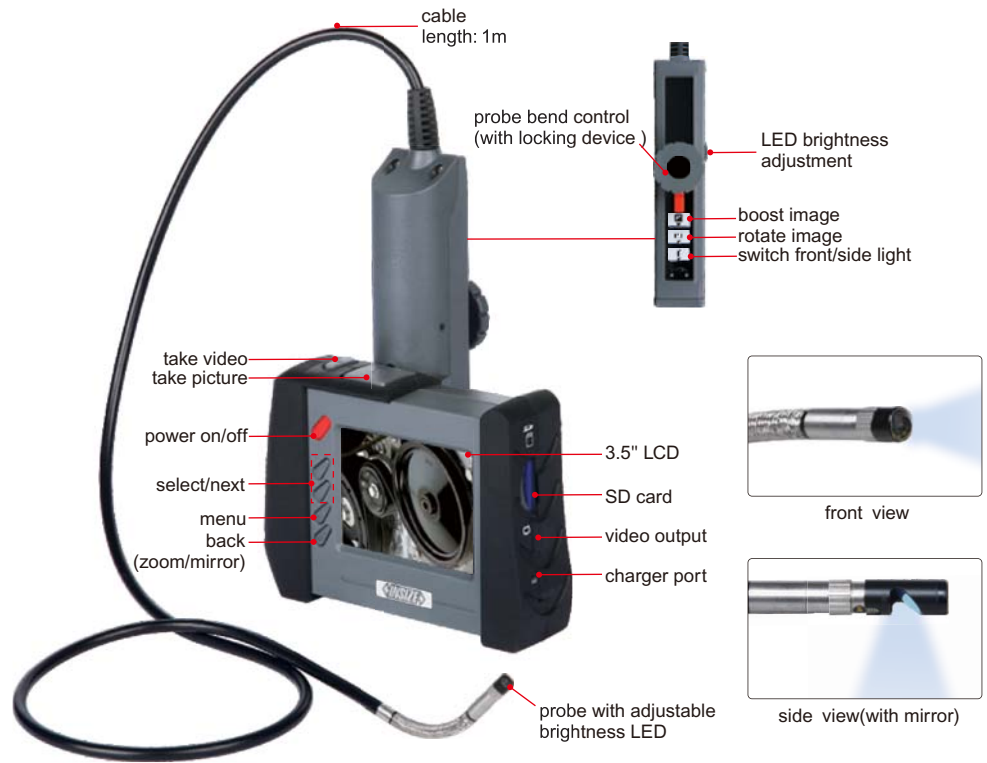
45° mirror(optional)



55° mirror(included)



the probe can be separated from main body



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

## SPECIFICATION

Probe diameter	6mm
Dust/waterproof probe	IP67
Pixel	0.3M
Resolution	640x480
Frame rate	30fps
Image process	mirror, zoom (1.5X)
File format	picture: JPG , video: ASF
Memory	4G SD card
Power supply of probe	rechargeable battery (charged through main body or USB port)
Power supply of main body	rechargeable battery (for 4 hours working)
Weight	650g

## STANDARD DELIVERY

Main body	1pc
Probe	1pc
SD card (4G)	1pc
55° mirror	1pc
AC/DC adapter	1pc
Video output cable	1pc
USB cable	1pc

## OPTIONAL ACCESSORY

35° mirror	ISV-WE60-R35
45° mirror	ISV-WE60-R45
2m probe	ISV-WE60-C6002

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