

KAR
2017

MEASURING INSTRUMENTS

CATALOGUE NO. CAN2017





National Institute of Standards & Technology

INSIZE INSPECTION CERTIFICATE

INSIZE tools with a NIST icon are supplied with an Inspection Certificate traceable to NIST standards.

←INSIZE→		Inspection Certificate					
Product name	Digital Caliper	Traceable to	USA NIST No.821/279484-10				
Code No.	1108-150		Germany DKD No.D-K-15190-01-00				
Measuring range	0-150mm / 0-6"	Inspector	<i>David</i>				
Resolution	0.01mm / 0.0005"	Judgement	Passed				
Serial No.	0910120004						
Standard temperature	20°C / 68°F						
		Unit: inch	Unit: mm				
Measuring Length	Permissible Error	Error		Measuring Length	Permissible Error	Error	
		External	Internal			External	Internal
0.4 DIA	+0.0005 -0.0010	/	0.0005	Φ10	+0.01 -0.02	/	0.01
2	±0.0010	-0.0005	/	50	±0.02	-0.01	/
4		-0.0005	/	100		-0.01	/
6		-0.0010	/	150	±0.03	-0.02	/
8	/	/	200	/		/	
10	/	/	250	/		/	
12	/	/	300	/		/	

Sample for Electronic Caliper 817000 (Series 1108-150)


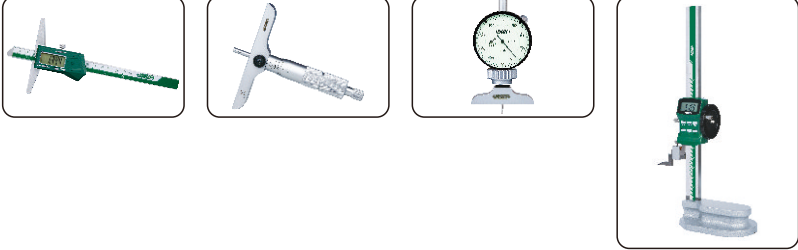


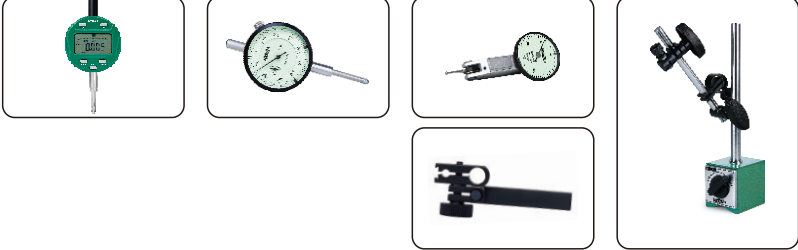
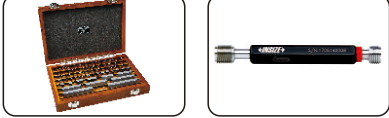
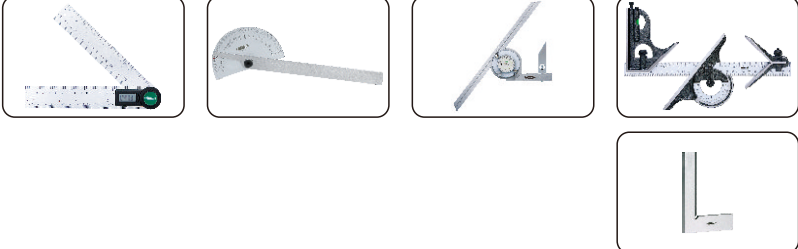
←INSIZE→		Inspection Certificate			
Product name	Outside Micrometer	Unit: inch			
Code No.	3203-1A				
Measuring range	0-1"				
Graduation	0.0001"				
Serial No.	0910120004				
Standard temperature	68 °F				
Based on	ASME B89.1.13-2013				
Traceable to	USA NIST No.821/279484-10				
Inspector	<i>Paulo</i>				
		Judgement:	Passed		
Measuring Length	Permissible Error	Error			
0.000	0.00015	0.0000			
0.210		0.0001			
0.420		-0.0001			
0.605		0.0000			
0.815		-0.0001			
1.000		0.0001			

Sample for Outside Micrometer 816564 (Series 3203-1A)

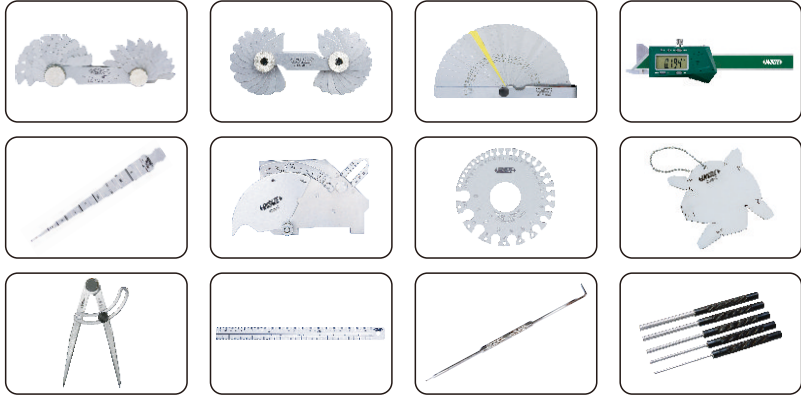
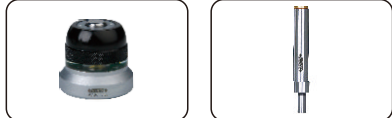








INSIZE Warranty

INSIZE provides a 1 year manufacturers warranty for all products.

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ELECTRONIC WATERPROOF CALIPER

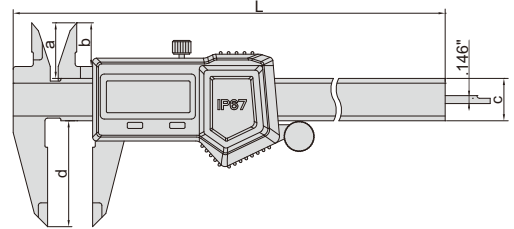


1118-150B

NIST
CERTIFICATION

IP67

- IP67 dust/waterproof
- Resolution: .0005"/0.01mm
- Button function: zero, on/off, inch/mm, ABS/REL, hold
- Battery CR2032
- Made of stainless steel



Part No.	EDP No.	Range	Accuracy	L	a	b	c	d
1118-150B*	816018	0-6"/0-150mm	±.0012"	9.291"	.827"	.630"	.630"	1.575"
1118-200B*	280014	0-8"/0-200mm	±.0012"	11.260"	.945"	.748"	.630"	1.969"
1118-300B*	280015	0-12"/0-300mm	±.0012"	15.748"	.984"	.807"	.669"	2.362"

* Supplied with manufacturer inspection certificate traceable to NIST USA

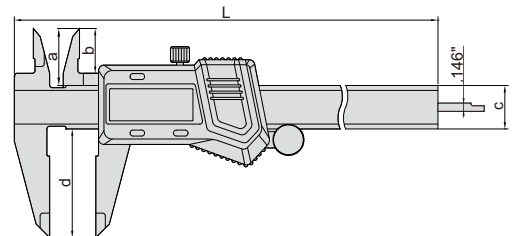
ELECTRONIC CALIPER



1114-150A

NIST
CERTIFICATION

- Zinc alloy housing for electronic unit
- Resolution: .0005"/0.01mm
- Buttons: zero, on/off, inch/mm
- Automatic power off, move the digital unit to turn on power
- Battery CR2032
- Made of stainless steel



Part No.	EDP No.	Range	Accuracy	L	a	b	c	d
1114-150A*	816012	0-6"/0-150mm	±.0012"	9.291"	.827"	.630"	.630"	1.575"
1114-200A*	816014	0-8"/0-200mm	±.0012"	11.260"	.945"	.748"	.630"	1.969"
1114-300A*	816016	0-12"/0-300mm	±.0012"	15.748"	.984"	.807"	.669"	2.362"

* Supplied with manufacturer inspection certificate traceable to NIST USA

ELECTRONIC CALIPER (WITH ABSOLUTE)

NIST
CERTIFICATION

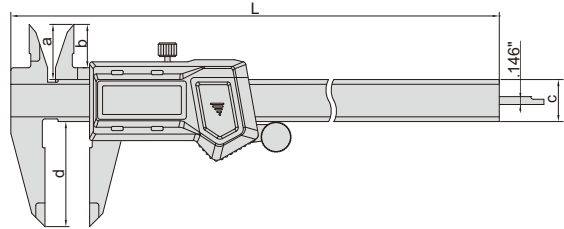
SPC

**ABSOLUTE
SYSTEM**



1103-150

- Absolute system
- Resolution: .0005"/0.01mm
- Buttons: inch/mm, ABS/REL, on/off, origin set
- Battery CR2032, automatic power off
- After automatic power off, move the digital unit to turn on power
- Data output
- Made of stainless steel
- Optional accessory: data output cable (part no. 7302-SPC4)



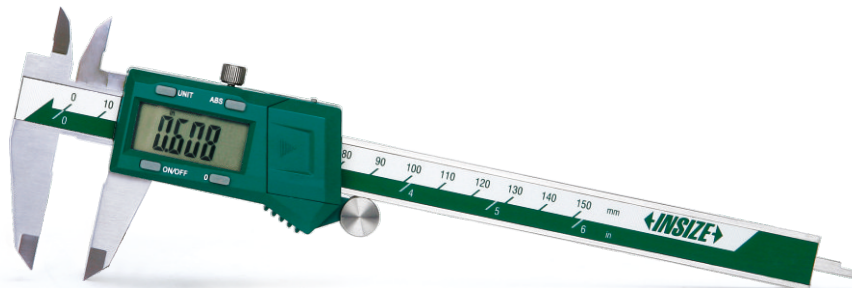
Part No.	EDP No.	Range	Accuracy	L	a	b	c	d
1103-150 *	285127	0-6"/0-150mm	±.0008"	9.213"	.787"	.591"	.630"	1.575"
1103-200 *	285128	0-8"/0-200mm	±.0008"	11.260"	.945"	.748"	.630"	1.969"
1103-300 *	285129	0-12"/0-300mm	±.0012"	15.354"	1.024"	.846"	.630"	2.362"

* Supplied with manufacturer inspection certificate traceable to NIST USA

ELECTRONIC CALIPER (FRACTION READING)

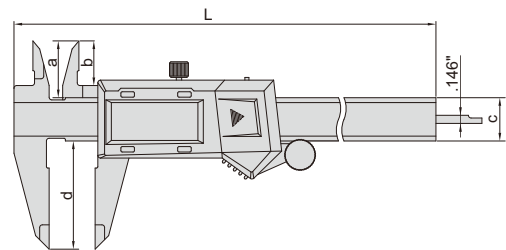
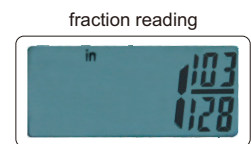
NIST
CERTIFICATION

SPC



1102-150

- Resolution: 0.01mm, .0005", 1/128"
- Buttons: unit (mm/in/fraction), ABS, on/off, zero
- Absolute and incremental measurement
- Battery CR2032, automatic power off
- Data output
- Made of stainless steel
- Optional accessory: data output cable (part no. 7301-SPC4)



Part No.	EDP No.	Range	Accuracy	L	a	b	c	d
1102-150 *	280003	0-6"/0-150mm	±.0012"	9.213"	.787"	.591"	.630"	1.575"
1102-200 *	280004	0-8"/0-200mm	±.0012"	11.260"	.945"	.748"	.630"	1.969"
1102-300 *	280005	0-12"/0-300mm	±.0012"	15.354"	1.024"	.846"	.630"	2.362"

* Supplied with manufacturer inspection certificate traceable to NIST USA

ELECTRONIC CALIPER

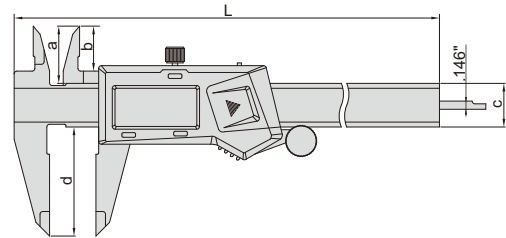
NIST
CERTIFICATION

SPC



1108-150

- Resolution: .0005"/0.01mm
- Buttons: on/off, zero, inch/mm
- Automatic power off, move the digital unit to turn on power
- Battery CR2032
- Data output
- Made of stainless steel
- Optional accessory: data output cable (part no. 7306-20, 7302-SPC5A/SPC5B, 7305-SPC2A)



Part No.	EDP No.	Range	Accuracy	L	a	b	c	d
1108-150*	817000	0-6"/0-150mm	±.0008"	9.291"	.827"	.630"	.630"	1.575"
1108-200*	817001	0-8"/0-200mm	±.0012"	11.260"	.945"	.748"	.630"	1.969"
1108-300*	817002	0-12"/0-300mm	±.0012"	15.748"	.984"	.807"	.669"	2.362"

* Supplied with manufacturer inspection certificate traceable to NIST USA

ELECTRONIC CALIPER WITH CARBIDE TIPPED JAWS

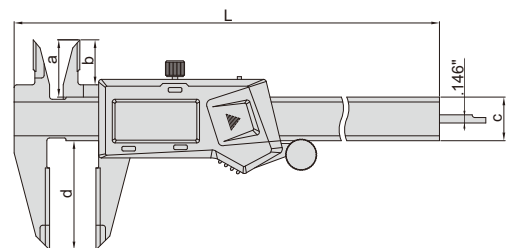
NIST
CERTIFICATION

SPC



1110-150A

- Carbide tipped jaws for inside and outside measurements
- Resolution: .0005"/0.01mm
- Buttons: on/off, zero, inch/mm
- Automatic power off, move the digital unit to turn on power
- Battery CR2032, data output
- Made of stainless steel
- Optional accessory: data output cable (part no. 7306-20, 7302-SPC5A/SPC5B, 7305-SPC2A)



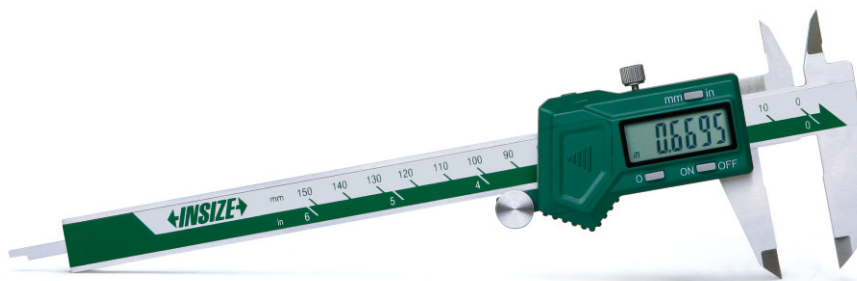
Part No.	EDP No.	Range	Accuracy	L	a	b	c	d
1110-150A*	280021	0-6"/0-150mm	±.0012"	9.291"	.827"	.630"	.630"	1.575"
1110-200A*	280022	0-8"/0-200mm	±.0012"	11.260"	.945"	.748"	.630"	1.969"
1110-300A*	280023	0-12"/0-300mm	±.0012"	15.748"	.984"	.807"	.669"	2.362"

* Supplied with manufacturer inspection certificate traceable to NIST USA

ELECTRONIC LEFT HAND CALIPER

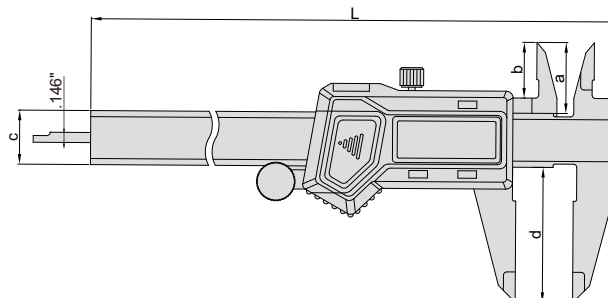
NIST
CERTIFICATION

SPC



1130-150

- Designed for left handed users
- Resolution: .0005"/0.01mm
- Buttons: on/off, zero, inch/mm
- Automatic power off, move the digital unit to turn on power
- Battery CR2032
- Data output
- Made of stainless steel
- Optional accessory: data output cable (part no. **7306-20**, **7302-SPC5A/SPC5B**, **7305-SPC2A**)



Part No.	EDP No.	Range	Accuracy	L	a	b	c	d
1130-150*	816615	0-6"/0-150mm	±.0012"	9.291"	.827"	.630"	.630"	1.575"
1130-200*	816616	0-8"/0-200mm	±.0012"	11.260"	.945"	.748"	.630"	1.969"
1130-300*	816617	0-12"/0-300mm	±.0012"	15.748"	.984"	.807"	.669"	2.362"

* Supplied with manufacturer inspection certificate traceable to NIST USA

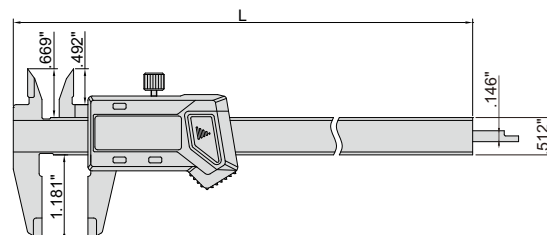
MINI ELECTRONIC CALIPER



1111-100A

- Resolution: .0005"/0.01mm
- Buttons: zero, inch/mm, on/off
- Automatic power off, move the digital unit to turn on power
- Battery LR44
- Made of stainless steel

Part No.	EDP No.	Range	Accuracy	L
1111-75A	280019	0-3"/0-75mm	±.0008"	5.669"
1111-100A	280020	0-4"/0-100mm	±.0008"	6.693"

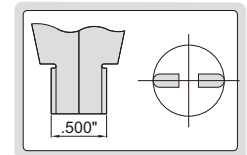
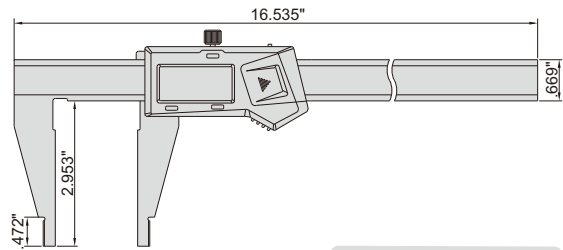


ELECTRONIC CALIPER



1522-127

- Resolution: .0005"/0.01mm
- Buttons: on/off, zero, inch/mm
- Automatic power off, move the digital unit to turn on power
- Battery CR2032
- Data output
- Made of stainless steel
- Optional accessory: data output cable (part no. **7306-20**, **7302-SPC5A/SPC5B**, **7305-SPC2A**)



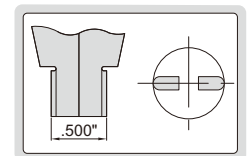
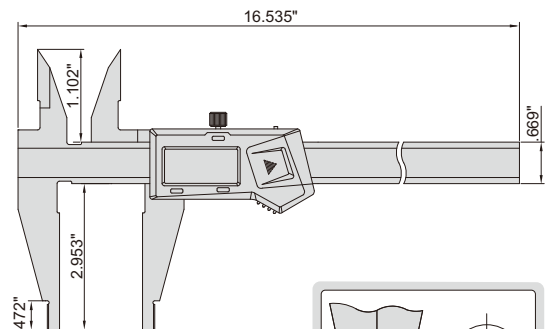
Part No.	EDP No.	Range	Accuracy
1522-127	816686	0-12"/0-300mm	±.0016"

ELECTRONIC CALIPER



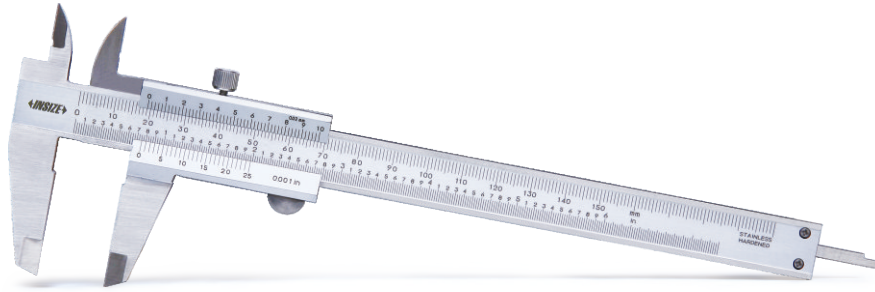
1523-127

- Resolution: .0005"/0.01mm
- Buttons: on/off, zero, inch/mm
- Automatic power off, move the digital unit to turn on power
- Battery CR2032
- Data output
- Made of stainless steel
- Optional accessory: data output cable (part no. **7306-20**, **7302-SPC5A/SPC5B**, **7305-SPC2A**)



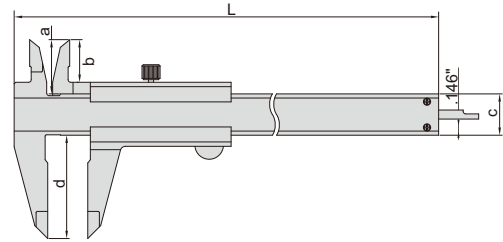
Part No.	EDP No.	Range	Accuracy
1523-127	816687	0-12"/0-300mm	±.0016"

VERNIER CALIPER



1205-1502E

- Made of stainless steel
- Satin chrome plated reading surface



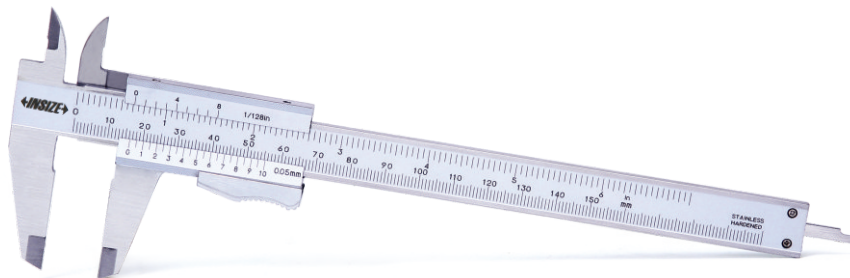
Graduation .001"/0.02mm

Part No.	EDP No.	Range	Accuracy	L	a	b	c	d
1205-1502E	876750	0-6"/0-150mm	±.0012"	9.252"	.807"	.610"	.630"	1.575"
1205-2002E	876225	0-8"/0-200mm	±.0012"	11.417"	.925"	.748"	.669"	1.969"
1205-3002E	876232	0-12"/0-300mm	±.0012"	16.299"	1.083"	.866"	.787"	2.520"

Graduation 0.05mm/1/128"

Part No.	EDP No.	Range	Accuracy	L	a	b	c	d
1205-150S	876224	0-150mm/0-6"	±0.05mm	235mm	20.5mm	15.5mm	16mm	40mm

VERNIER CALIPER WITH THUMB CLAMP

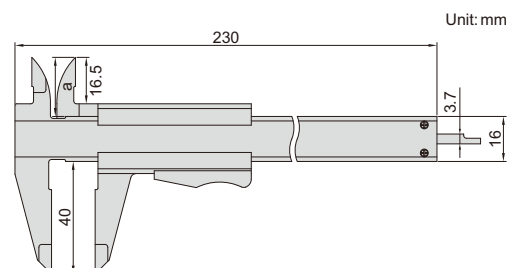


1223-150

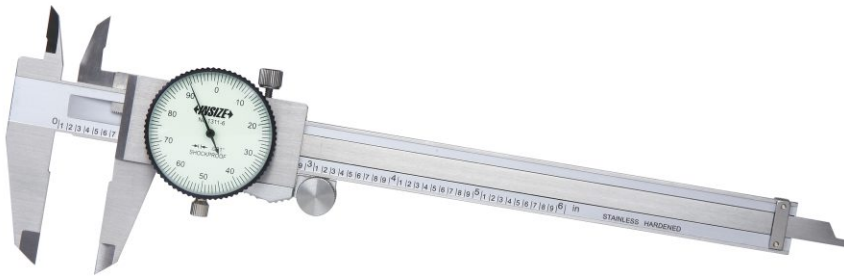
- Meet DIN862
- With thumb clamp
- Made of stainless steel
- Satin chrome plated reading surface

Graduation 0.05mm/1/128"

Part No.	EDP No.	Range	Accuracy	a
1223-150	280184	0-150mm/0-6"	±0.05mm	20.5mm

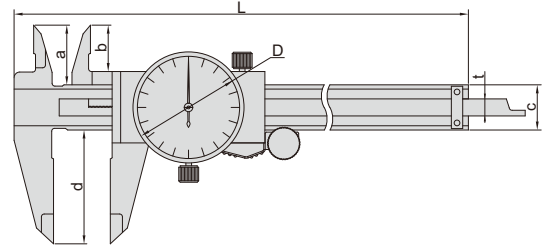


DIAL CALIPER



1311-6

- Shockproof dial indicator
- Made of stainless steel



Dial indicator graduation .001"

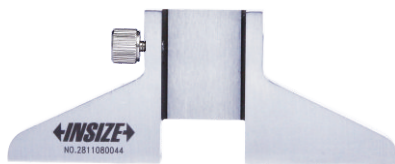
Part No.	EDP No.	Range	Accuracy	L	a	b	c	d	D	t
1311-4*	280462	0-4"	±.0012"	6.496"	.709"	.472"	.512"	1.181"	1.260" DIA	.228"
1311-6*	816028	0-6"	±.0015"	9.252"	.827"	.650"	.630"	1.575"	1.535" DIA	.256"
1311-8*	816030	0-8"	±.0020"	11.339"	.945"	.748"	.630"	1.890"	1.535" DIA	.256"
1311-12*	816032	0-12"	±.0020"	16.142"	1.102"	.866"	.787"	2.441"	1.752" DIA	.295"

Dial indicator graduation 0.01mm

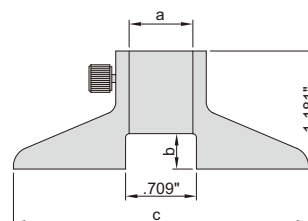
Part No.	EDP No.	Range	Accuracy	L	a	b	c	d	D	t
1311-150A*	816034	0-150mm	±0.03mm	235mm	21mm	16.5mm	16mm	40mm	∅39mm	6.5mm
1311-200A*	816036	0-200mm	±0.03mm	288mm	24mm	19mm	16mm	48mm	∅39mm	6.5mm
1311-300A*	816038	0-300mm	±0.03mm	410mm	28mm	22mm	20mm	62mm	∅44.5mm	7.5mm

* Supplied with manufacturer inspection certificate traceable to NIST USA

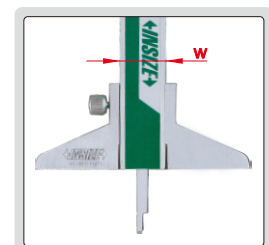
DEPTH BASE ATTACHMENT



6140



- To increase the stability of depth measurement
- Suitable for digital calipers with beam width (w) .630"
- Made of stainless steel



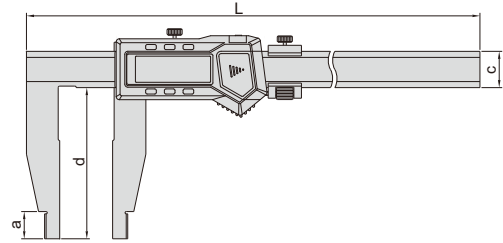
Part No.	EDP No.	a	b	c
6140	816046	.650"	.354"	2.953"

ELECTRONIC CALIPER

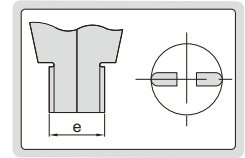


1131-24

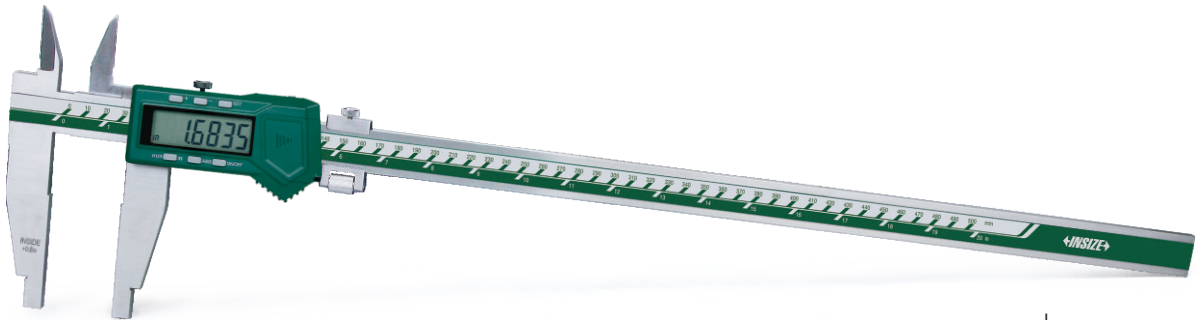
- Resolution: .0005"/0.01mm
- Button function: on/off, zero, inch/mm, ABS, data preset
- Battery CR2032
- Data output
- Made of stainless steel
- Optional accessory: data output cable (part no. 7306-20, 7302-SPC5A/SPC5B, 7305-SPC2A)



Part No.	EDP No.	Range	Accuracy	a	c	d	e	L
1131-24	876221	0-24"/0-600mm	±.0020"	.709"	.945"	3.937"	.800"	30.315"
1131-40	876222	0-40"/0-1000mm	±.0031"	.945"	1.220"	5.906"	.800"	48.031"
1131-60	816618	0-60"/0-1500mm	±.0043"	.945"	1.654"	5.906"	.800"	70.079"
1131-80	280063	0-80"/0-2000mm	±.0055"	.945"	1.654"	5.906"	.800"	90.157"

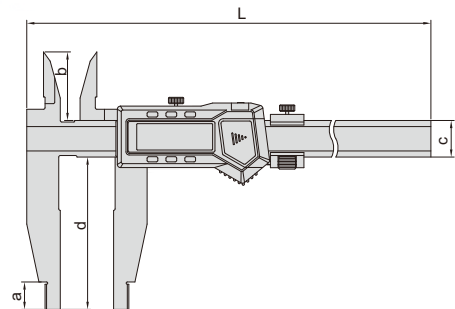


ELECTRONIC CALIPER

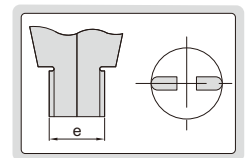


1133-24

- Resolution: .0005"/0.01mm
- Button function: on/off, zero, inch/mm, ABS, data preset
- Battery CR2032
- Data output
- Made of stainless steel
- Optional accessory: data output cable (part no. 7306-20, 7302-SPC5A/SPC5B, 7305-SPC2A)



Part No.	EDP No.	Range	Accuracy	a	b	c	d	e	L
1133-24	285061	0-24"/0-600mm	±.0020"	.709"	1.772"	.945"	3.937"	.800"	30.315"
1133-40	285062	0-40"/0-1000mm	±.0031"	.945"	2.362"	1.220"	5.906"	.800"	48.031"

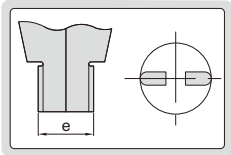
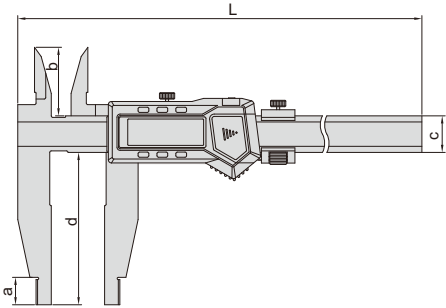


DIGITAL CALIPER



1136-501

- Resolution: 0.01mm/0.0005"
- Button function: on/off, zero, mm/inch, ABS, data preset
- Battery CR2032
- Data output
- Made of stainless steel
- Optional accessory: data output cable (part no. 7306-20, 7302-SPC5A/SPC5B, 7305-SPC2A)



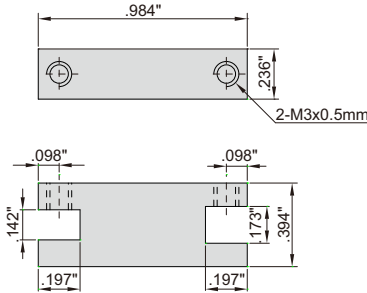
Part No.	EDP No.	Range	Accuracy	a	b	c	d	e	L
1136-501	280117	0-500mm/0-20"	±0.05mm	18	45	24	100	20	675

Sizes available up to 2000mm

DEPTH STOP FOR CALIPERS



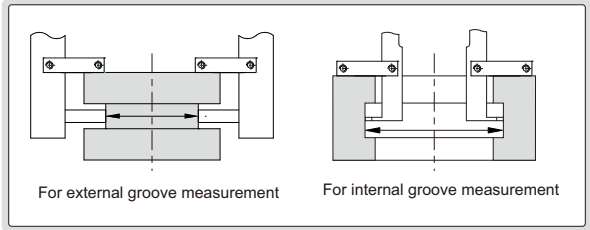
6143



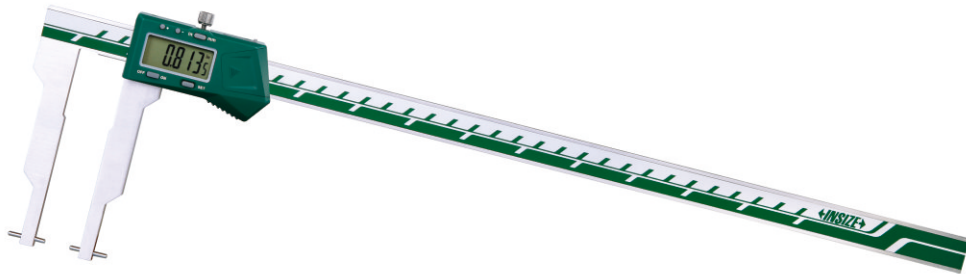
- Supplied in pairs
- Made of stainless steel
- Suitable for caliper series 1124, 1526, 1520, 1176, 1178, 1120, 1121, 1187 and 1185

Part No.	EDP No.
6143	816408

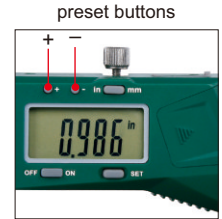
Application



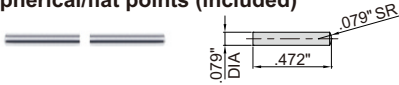
ELECTRONIC CALIPER WITH INTERCHANGEABLE POINTS



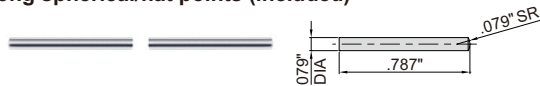
1124-300A



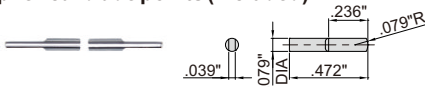
Short spherical/flat points (included)



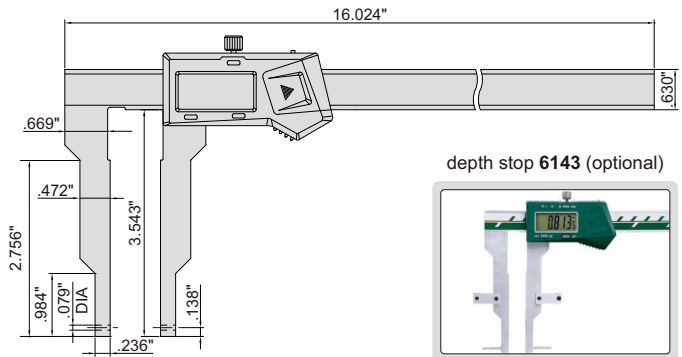
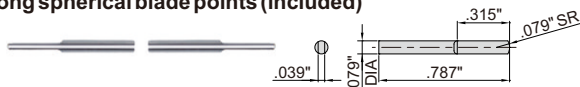
Long spherical/flat points (included)



Short spherical blade points (included)



Long spherical blade points (included)



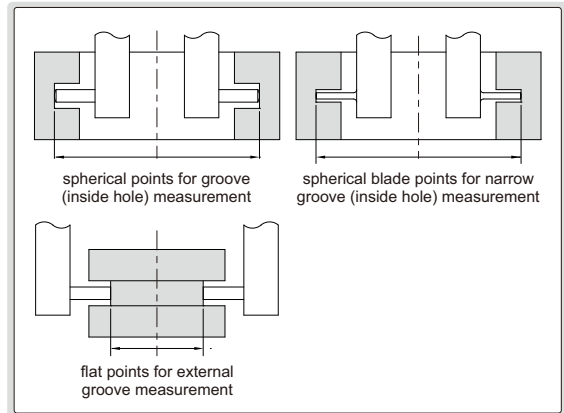
depth stop 6143 (optional)



Part No.	EDP No.
1124-300A	816619

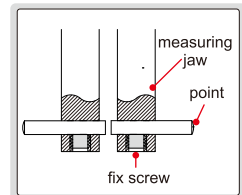
- Supplied with 4 pairs of points and zero setting block for external measurement
- Resolution: .0005"/0.01mm
- Buttons: on/off, set, inch/mm, preset (+, -)
- Automatic power off, move the digital unit to turn on power
- Battery CR2032
- Data output
- Made of stainless steel
- Optional accessory: points (part no. 1526-T101, 7392, 7391, 7381, 7321), depth stop (part no. 6143), data output cable (part no. 7306-20, 7302-SPC5A/SPC5B, 7305-SPC2A)

measure internal and external grooves



Point	Range	Accuracy	Application
short spherical/flat points	1-12.7"/24-324mm(internal) 0-11.3"/0-288mm(external)	±.0016"	spherical points for grooves inside hole (small hole) flat points for external grooves
long spherical/flat points	1.5-13.3"/40-340mm(internal) 0-10.7"/0-272mm(external)	±.0016"	spherical points for grooves inside hole (large hole) flat points for external grooves
short spherical blade points	1-12.7"/24-324mm(internal) 0-11.3"/0-288mm(external)	±.0016"	for narrow grooves inside hole (small hole)
long spherical blade points	1.5-13.3"/40-340mm(internal) 0-10.7"/0-272mm(external)	±.0016"	for narrow grooves inside hole (large hole)

install points



Multifunctional points 7392 (optional, refer to 1526-200 for more details)



Ball points 7391 (optional, refer to 1526-200 for more details)



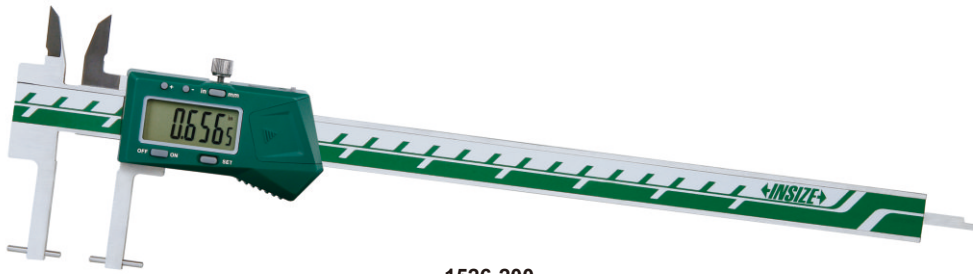
Screw thread points 7381, 7321 (optional, refer to 1526-200 for more details)



zero setting block for external measurement (included)



ELECTRONIC CALIPER WITH INTERCHANGEABLE POINTS



1526-200

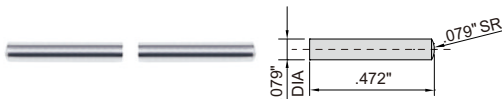


Part No.	EDP No.
1526-200	816620

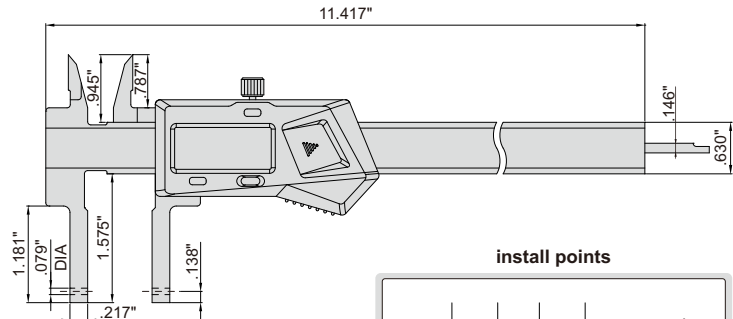
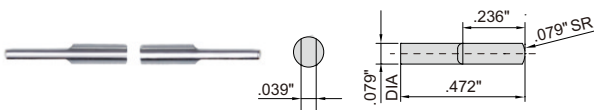
Short spherical points (included)



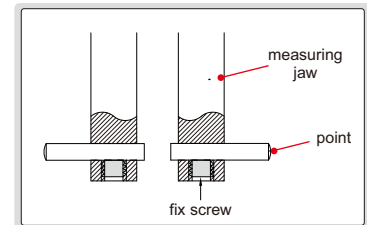
Long spherical/flat points (included)



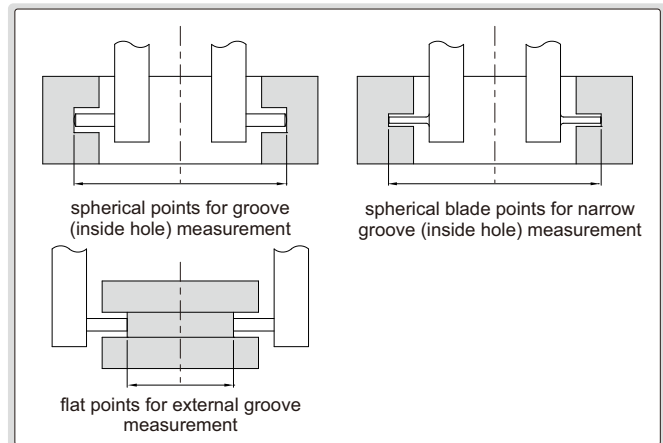
Spherical blade points (included)



install points



measure internal and external grooves



- Supplied with 3 pairs of points and zero setting block for external measurement
- Resolution: .0005"/0.01mm
- Buttons: on/off, set, inch/mm, preset (+, -)
- Automatic power off, move the digital unit to turn on power
- Battery CR2032
- Data output
- Made of stainless steel
- Optional accessory: points (part no. 1526-T101, 7392, 7391, 7381, 7321), depth stop (part no. 6143), data output cable (part no. 7306-20, 7302-SPC5A/SPC5B, 7305-SPC2A)

zero setting block for external measurement (included)

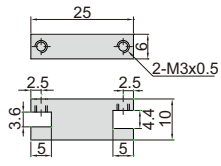


Point	Range	Accuracy	Application
short spherical points	0.5-8.5"/12-212mm(internal)	±.0012"	for grooves inside small hole
long spherical/flat points	1-8.8"/24-224mm(internal) 0-7.5"/0-187mm(external)	±.0012"	spherical points for grooves inside hole flat points for external grooves
spherical blade points	1-8.8"/24-224mm(internal) 0-7.5"/0-187mm(external)	±.0012"	for narrow grooves inside hole

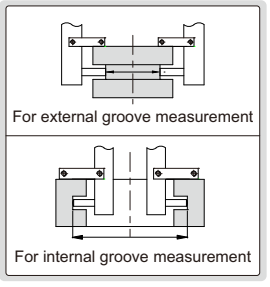
To be continued

Continued from previous page

Depth stop (optional)



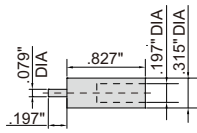
Part No.	EDP No.
6143	816408



Point sleeve (optional)

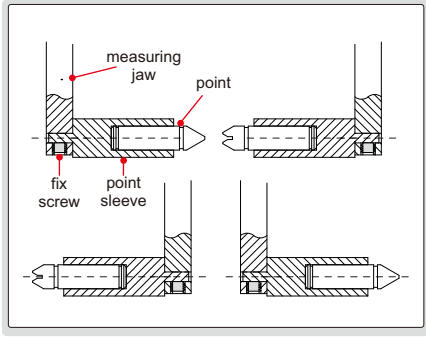


1526-T101

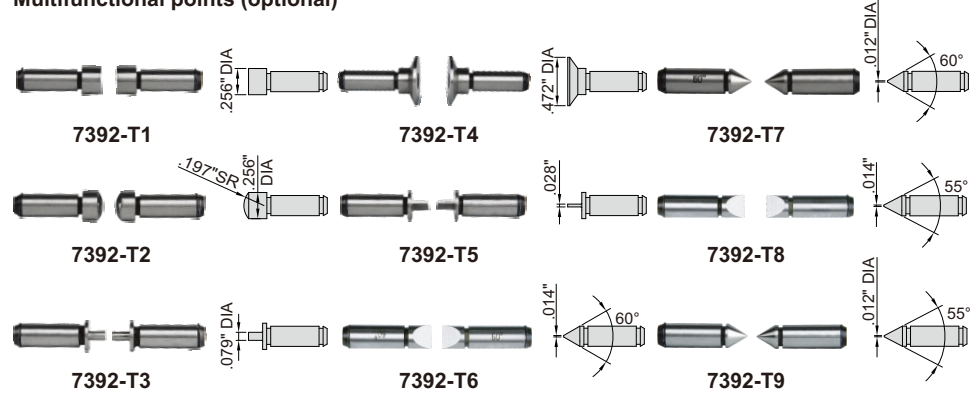


Part No.	EDP No.
1526-T101	816621

installation



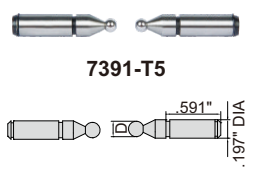
Multifunctional points (optional)



Part No.	EDP No.	Type
7392-T1*	816622	flat
7392-T2*	816623	spherical
7392-T3*	816624	spline
7392-T4*	816625	disk
7392-T5*	816626	blade
7392-T6*	816627	knife-edge
7392-T7*	816628	point
7392-T8*	816629	knife-edge
7392-T9*	816630	point

* It is necessary to use point sleeve (part no. 1526-T101) for these points

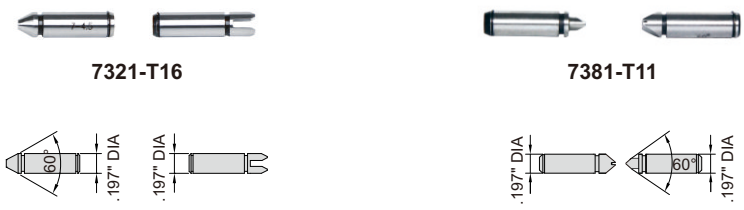
Ball points (optional)



Part No.	EDP No.	Ball dia. (D)
7391-T3*	282169	.079" DIA
7391-T4*	282170	.098" DIA
7391-T5*	282171	.118" DIA
7391-T6*	282172	.138" DIA
7391-T7*	282173	.157" DIA
7391-T8*	282174	.177" DIA
7391-T9*	282175	.197" DIA
7391-T10*	282176	.236" DIA

* It is necessary to use point sleeve (part no. 1526-T101) for these points

Screw thread points (optional)



internal thread (60° thread angle)

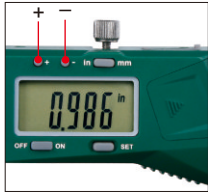
Part No.	EDP No.	Pitch
7321-T11*	282160	64-48TPI/0.4-0.5mm
7321-T12*	282161	44-28TPI/0.6-0.9mm
7321-T13*	282162	24-14TPI/1-1.75mm
7321-T14*	282163	13-9TPI/2-3mm
7321-T15*	282164	8-5TPI/3.5-5mm
7321-T16*	282165	4.5-3.5TPI/5.5-7mm
7321-T15*	282159	6 pairs/set, including all above points

* It is necessary to use point sleeve (part no. 1526-T101) for these points

external thread (60° thread angle)

Part No.	EDP No.	Pitch
7381-T11*	281671	64-48TPI/0.4-0.5mm
7381-T12*	281672	44-28TPI/0.6-0.9mm
7381-T13*	281673	24-14TPI/1-1.75mm
7381-T14*	281674	13-9TPI/2-3mm
7381-T15*	281675	8-5TPI/3.5-5mm
7381-T16*	281676	4.5-3.5TPI/5.5-7mm
7381-TS*	281670	6 pairs/set, including all above points

preset buttons

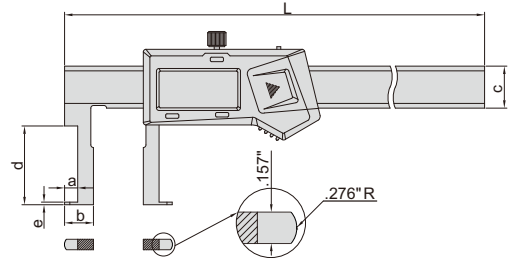
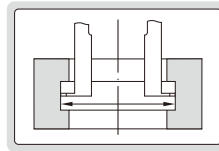


ELECTRONIC INSIDE GROOVE CALIPER



1120-150AE

- Measure groove diameter
- Resolution: .0005"/0.01mm
- Buttons: on/off, set, inch/mm, preset (+, -)
- Automatic power off, move the digital unit to turn on power
- Battery CR2032
- Data output
- Made of stainless steel
- Optional accessory: depth stop (part no. **6143**), data output cable (part no. **7306-20**, **7302-SPC5A/SPC5B**, **7305-SPC2A**)



depth stop **6143** (optional)



Part No.	EDP No.	Range	Accuracy	L	a	b	c	d	e
1120-150AE	280523	1-6"/25.4-150mm	±.0016"	9.843"	.197"	.5000"	.630"	1.181"	.039"

Sizes available up to 12"

preset buttons

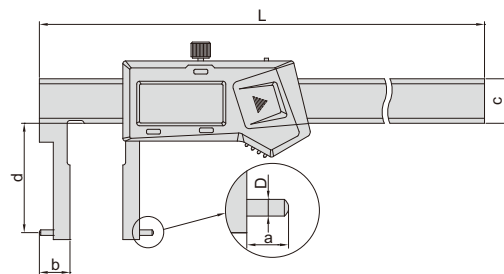
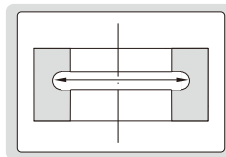


ELECTRONIC INSIDE POINT CALIPER



1121-150A

- Measure groove diameter
- Resolution: .0005"/0.01mm
- Buttons: on/off, set, inch/mm, preset (+, -)
- Automatic power off, move the digital unit to turn on power
- Battery CR2032
- Data output
- Made of stainless steel
- Optional accessory: depth stop (part no. **6143**), data output cable (part no. **7306-20**, **7302-SPC5A/SPC5B**, **7305-SPC2A**)



depth stop **6143** (optional)



Part No.	EDP No.	Range	Accuracy	L	a	b	c	d	D
1121-150A	280541	.9-6"/24-150mm	±.0016"	9.843"	.197"	.4724"	.630"	1.181"	.079" DIA

Sizes available up to 12"

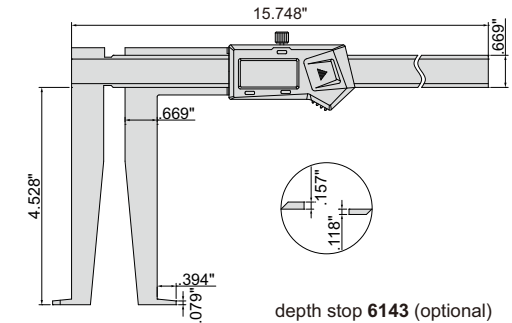
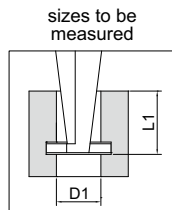
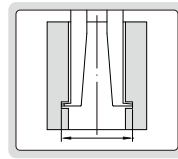
ELECTRONIC INSIDE GROOVE CALIPER



1178-300



- Measure diameter of grooves inside bores
- Resolution: .0005"/0.01mm
- Buttons: on/off, set, inch/mm, preset (+, -)
- Automatic power off, move the digital unit to turn on power
- Battery CR2032
- Data output
- Made of stainless steel
- Optional accessory: depth stop (part no. 6143), data output cable (part no. 7306-20, 7302-SPC5A/SPC5B, 7305-SPC2A)



depth stop 6143 (optional)



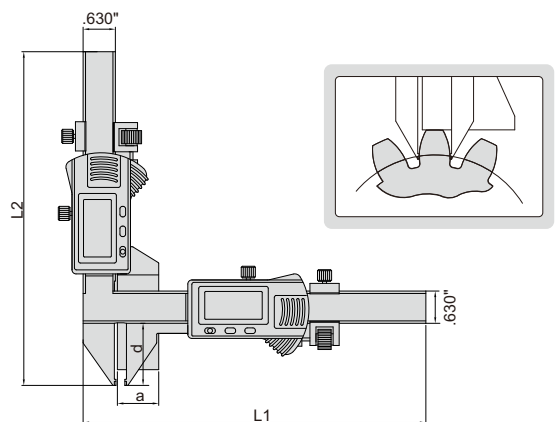
D1	L1
.984" DIA	<1.969"
1.024" DIA	<2.362"
1.063"~12" DIA	<4.331"

Part No.	EDP No.	Range	Accuracy
1178-300	816633	1.18-12"/25-300mm	±.0020"

ELECTRONIC GEAR TOOTH CALIPER



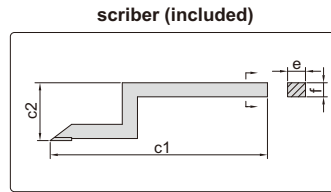
1181-M25A



- Resolution: .0005"/0.01mm
- Carbide tips
- Buttons: zero, on/off, inch/mm
- Battery LR44
- Data output
- Made of stainless steel
- Optional accessory: data output cable (part no. 7306-20, 7302-SPC5A/SPC5B, 7305-SPC2A)

Part No.	EDP No.	Range	Accuracy	L1	L2	a	d
1181-M25A	280658	P1-P24	±.0016"	6.693"	6.516"	.827"	1.201"
1181-M50A	280659	P1/2-P5	±.0016"	8.661"	7.480"	1.988"	2.165"

ELECTRONIC HEIGHT GAGE



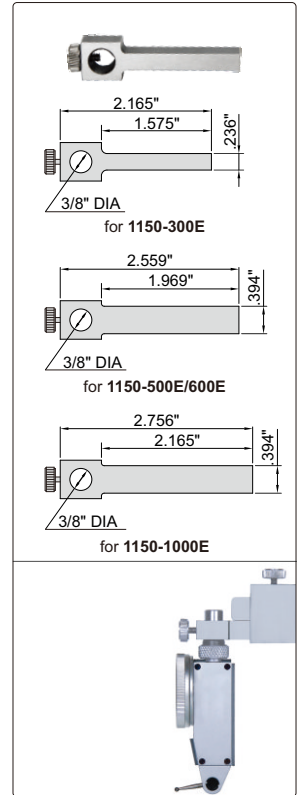
supplied with dust cover (included)



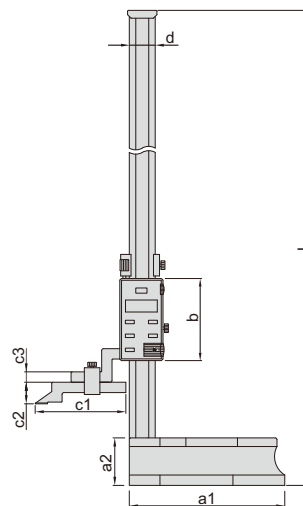
data output cable (optional)



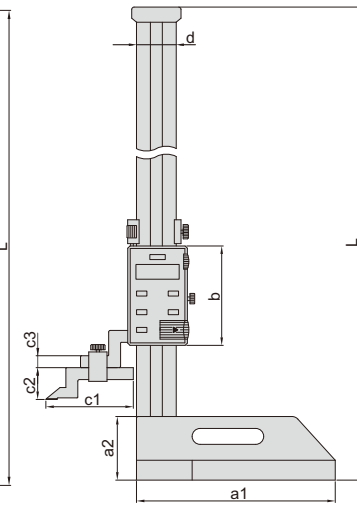
dial test indicator holder (included)



- Resolution: .0005"/0.01mm
- Buttons: on/off, zero, inch/mm, ABS/INC, data hold, TOL, set
- ABS/INC is for absolute and incremental measurement
- TOL is for tolerance measurement
- Carbide tipped scriber
- Made of stainless steel (except the base)
- LR44 battery
- Data output
- Supplied with dial test indicator holder
- Supplied with dust cover
- Optional accessory: data output cable (part no. 7301-SPC5)



type A



type B

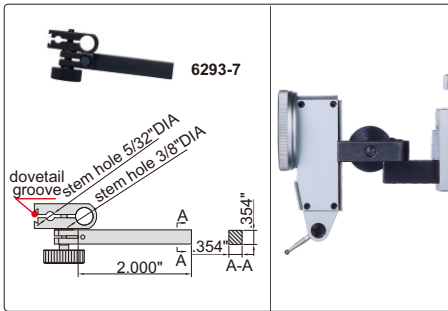
Part No.	EDP No.	Range	Type	Accuracy	L	a1	a2	b	c1	c2	c3	d	e	f
1150-300E	280756	0-12"/0-300mm	A	±.0016"	18.504"	5.315"	1.772"	3.150"	2.992"	.984"	.394"	.906"	.236"	.315"
1150-500E	280757	0-20"/0-500mm	A	±.0020"	28.346"	7.087"	2.165"	3.740"	4.055"	.984"	.472"	1.181"	.394"	.472"
1150-600E	280758	0-24"/0-600mm	A	±.0020"	32.283"	7.087"	2.165"	3.740"	4.055"	.984"	.472"	1.181"	.394"	.472"
1150-1000E	280759	0-40"/0-1000mm	B	±.0028"	50.197"	9.843"	3.150"	4.921"	4.331"	1.535"	.591"	1.969"	.394"	.591"

Sizes available up to 80"

ELECTRONIC HEIGHT GAGE WITH DRIVE WHEEL



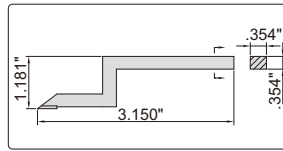
dial test indicator holder (optional)



supplied with dust cover (included)

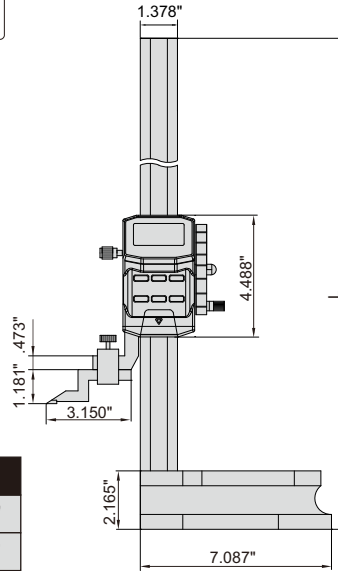


scraper (included)



- Resolution: .0005"/0.01mm
- Buttons: on/off, zero, inch/mm, preset +, preset -, hold
- Automatic power off, move the digital unit to turn on power
- Carbide tipped scriber
- Made of stainless steel
- Battery CR2032
- Data output
- Supplied with dust cover
- Optional accessory: data output cable (part no. 7306-20, 7302-SPC5A/SPC5B, 7305-SPC2A) dial test indicator holder (part no. 6293-7)

Part No.	EDP No.	Range	Accuracy	L
1156-300	816634	0-12"/0-300mm	±.0012"	20.276"
1156-600	816635	0-24"/0-600mm	±.0020"	32.867"



1156-300

ELECTRONIC DEPTH GAGE



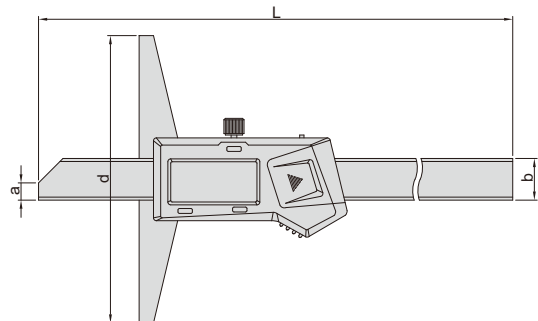
- Resolution: .0005"/0.01mm
- Buttons: on/off, zero, inch/mm
- Automatic power off, move the digital unit to turn on power
- Battery CR2032
- Data output
- Made of stainless steel
- Optional accessory: data output cable (part no. 7306-20, 7302-SPC5A/SPC5B, 7305-SPC2A)



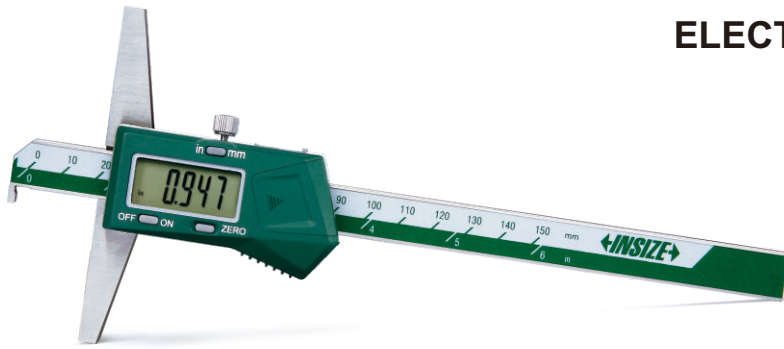
1141-150A

Part No.	EDP No.	Range	Accuracy	L	a	b	d
1141-150A	816040	0-6"/0-150mm	±.0012"	9.055"	.236"	.571"	3.937"
1141-200A	816042	0-8"/0-200mm	±.0012"	11.024"	.236"	.571"	3.937"
1141-300A	816044	0-12"/0-300mm	±.0012"	14.961"	.236"	.571"	5.906"

Sizes available up to 20"



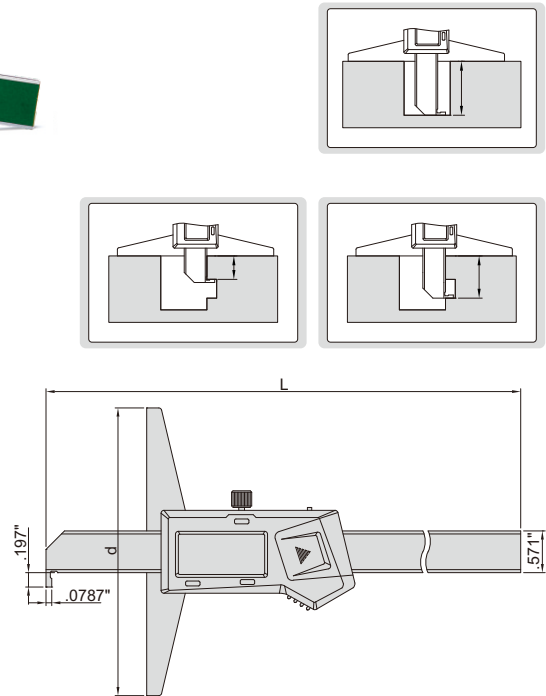
ELECTRONIC HOOK DEPTH GAGE



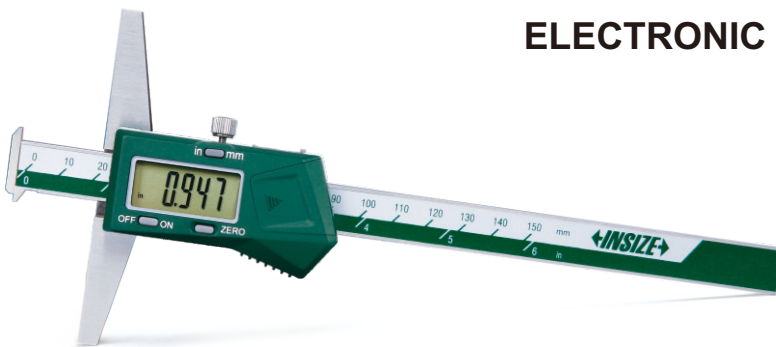
1142-150A

- Resolution: .0005"/0.01mm
- Buttons: on/off, zero, inch/mm
- Automatic power off, move the digital unit to turn on power
- Battery CR2032
- Data output
- Made of stainless steel
- Optional accessory: data output cable (part no. 7306-20, 7302-SPC5A/SPC5B, 7305-SPC2A)

Part No.	EDP No.	Range	Accuracy	L	d
1142-150A	280677	0-6"/0-150mm	±.0012"	9.055"	3.937"
1142-200A	280678	0-8"/0-200mm	±.0012"	11.024"	3.937"
1142-300A	280679	0-12"/0-300mm	±.0016"	14.961"	5.906"



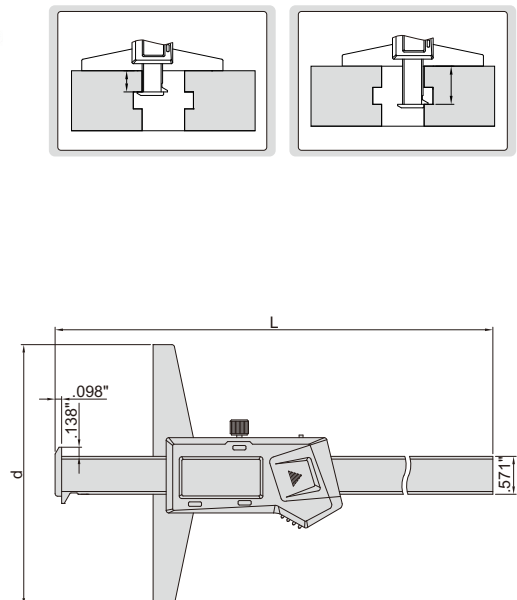
ELECTRONIC DOUBLE HOOK DEPTH GAGE



1144-150A

- Resolution: .0005"/0.01mm
- Buttons: on/off, zero, inch/mm
- Automatic power off, move the digital unit to turn on power
- Battery CR2032
- Data output
- Made of stainless steel
- Optional accessory: data output cable (part no. 7306-20, 7302-SPC5A/SPC5B, 7305-SPC2A)

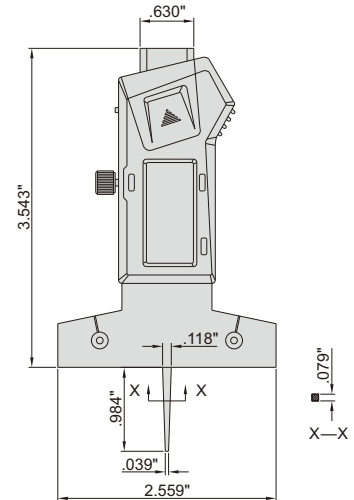
Part No.	EDP No.	Range	Accuracy	L	d
1144-150A	280681	0-6"/0-150mm	±.0012"	9.173"	3.937"
1144-200A	280682	0-8"/0-200mm	±.0012"	11.142"	3.937"
1144-300A	280683	0-12"/0-300mm	±.0012"	15.079"	5.906"



ELECTRONIC DEPTH GAGE



1145-25A



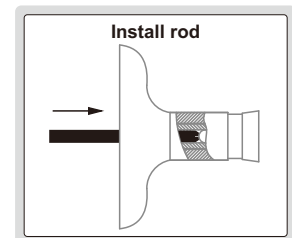
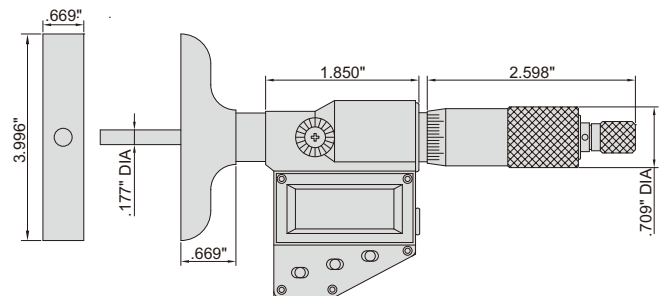
- Measure depth of small groove and hole, also measure depth of tire tread
- Resolution: .0005"/0.01mm
- Buttons: on/off, zero, inch/mm
- Supplied with zero set surface
- Automatic power off, move the digital unit to turn on power
- Battery CR2032
- Data output
- Made of stainless steel
- Optional accessory: data output cable (part no. 7306-20, 7302-SPC5A/SPC5B, 7305-SPC2A)

Part No.	EDP No.	Range	Accuracy
1145-25A	284550	0-1"/0-25mm	±.0012"

ELECTRONIC DEPTH MICROMETER



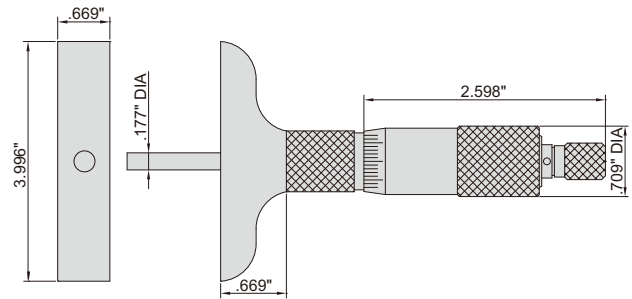
3540-150E



- Resolution: .00005"/0.001mm
- Micrometer head accuracy: ±.00012"
- Rod accuracy: ±[.001+.0005(L/3)]", L is the measuring range in inch
- Button function: on/off, set, inch/mm, ABS/INC, data output
- IP54 dust/waterproof
- Data output
- LR44 battery, automatic power off
- Rods with flat end
- Ratchet stop
- Optional accessory: data output cable (part no. 7306-30, 7302-SPC2A, 7305-SPC3)

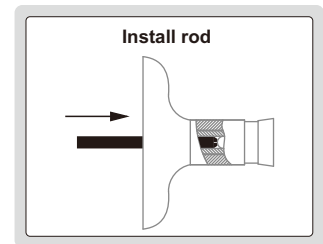
Part No.	EDP No.	Range	Rods
3540-150E	281945	0-6"/0-150mm	6pcs
3540-300E	281947	0-12"/0-300mm	12pcs

DEPTH MICROMETER

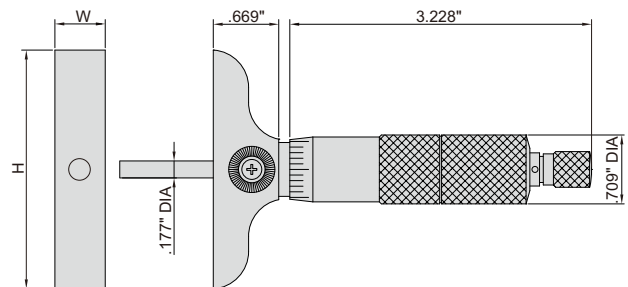


- Graduation: .001"
- Micrometer head accuracy: $\pm .00012$ "
- Rod accuracy: $\pm [.001 + .0005(L/3)]$ ",
L is the measuring range in inch
- Rods with flat end
- Ratchet stop

Part No.	EDP No.	Range	Rods
3240-6	281939	0-6"	6pcs



DEPTH MICROMETER



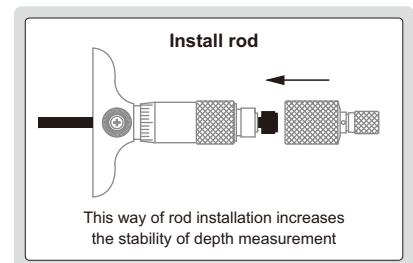
- Graduation: .001"
- Micrometer head accuracy: $\pm .00012$ "
- Rod accuracy: $\pm [.001 + .0005(L/3)]$ ",
L is the measuring range in inch
- Rods with flat end
- Ratchet stop

Base: H x W = 3.996 x .669"

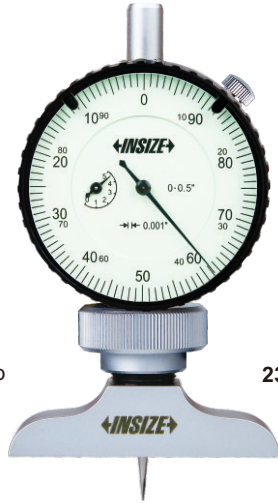
Part No.	EDP No.	Range	Rods
3241-1	281921	0-1"	1pc
3241-4	281923	0-4"	4pcs
3241-6	281924	0-6"	6pcs
3241-12	281926	0-12"	12pcs

Base: H x W = 2.480 x .669"

Part No.	EDP No.	Range	Rods
3241-B1	281927	0-1"	1pc
3241-B4	281929	0-4"	4pcs

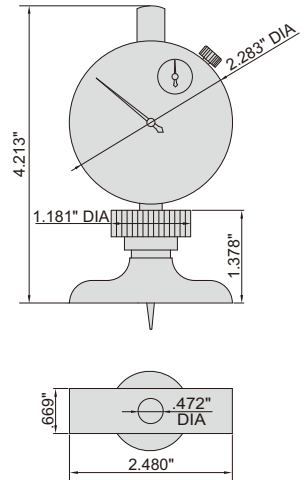
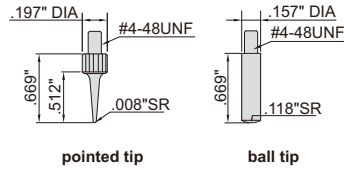


DIAL DEPTH GAGE



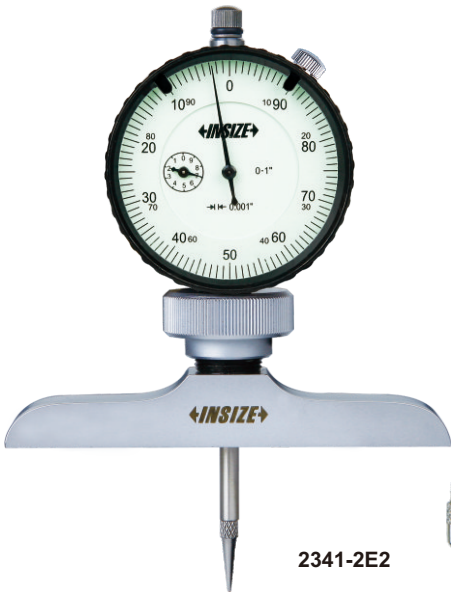
- Stainless steel base
- Supplied with pointed tip and ball tip

2341-E1



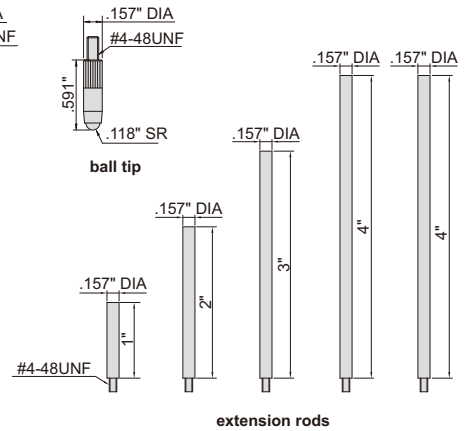
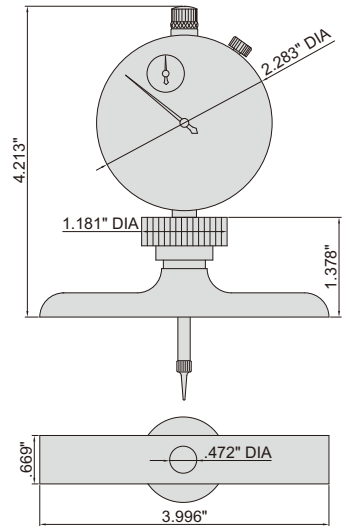
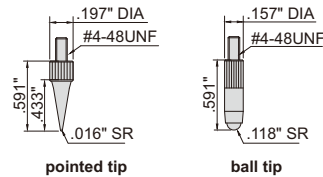
Part No.	EDP No.	Range	Dial indicator stroke	Dial indicator graduation	Accuracy
2341-E1	283207	0-1.2"	.5"	.001"	±.002"

DIAL DEPTH GAGE



2341-2E2

- Dial indicator graduation: .001"
- Accuracy: ±.002"
- Stainless steel base
- Extension rods: 1"(1pc), 2"(1pc), 3"(1pc), 4"(2pcs)
- Supplied with pointed tip and ball tip

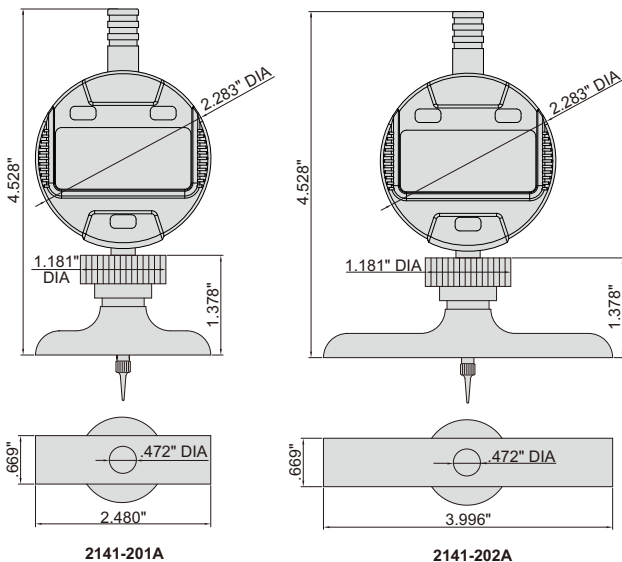


Part No.	EDP No.	Range	Dial indicator stroke	Base
2341-2E2	876241	0-12"	1"	3.996 x .669"

ELECTRONIC DEPTH GAGE

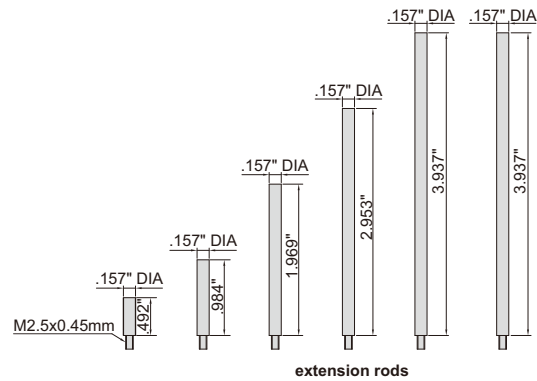


2141-202A



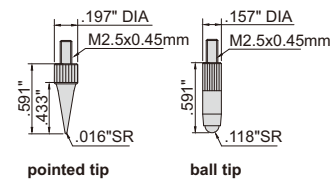
2141-201A

2141-202A



extension rods

- Button function: on/off, zero, inch/mm, ABS, data preset, change measuring direction
- CR2032 battery, automatic power off
- Data output
- Stainless steel base
- Supplied with pointed tip and ball tip
- Optional accessory: data output cable (part no. 7306-40, 7302-SPC3A, 7305-SPC1A)



pointed tip

ball tip

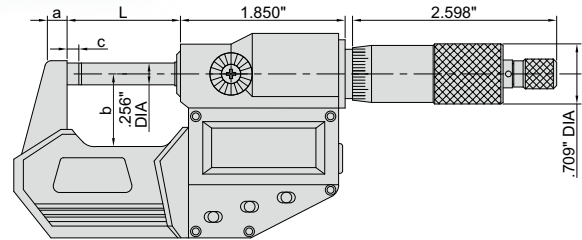
Part No.	EDP No.	Range	Digital indicator stroke	Digital indicator resolution	Accuracy	Base
2141-201A	876242	0-12"/0-300mm	.5"/12.7mm	.0005"/0.01mm	±.0008"	2.480 x .669"
2141-202A	876243	0-12"/0-300mm	.5"/12.7mm	.0005"/0.01mm	±.0008"	3.996 x .669"

ELECTRONIC OUTSIDE MICROMETER



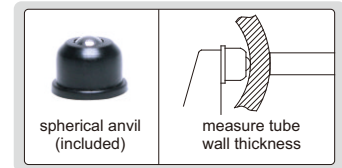
3101-25E

- Resolution: .00005"/0.001mm
- IP65 dust/waterproof
- Button function: on/off, set, inch/mm, ABS/INC, data output
- Data output
- LR44 battery, automatic power off
- Carbide measuring faces
- Ratchet stop
- Supplied with spherical anvil
- Setting standards are included (except 0-1"/0-25mm)
- Optional accessory: data output cable (part no. 7306-30, 7302-SPC2A, 7305-SPC3)



Part No.	EDP No.	Range	Accuracy	L	a	b	c
3101-25E*	280838	0-1"/0-25mm	±.00008"	1.280"	.236"	.945"	.118"

* Supplied with manufacturer inspection certificate traceable to NIST USA
 - Sizes available up to 12"

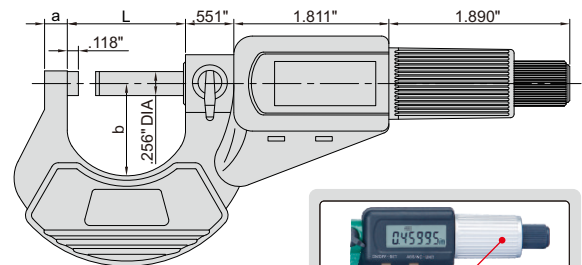


ELECTRONIC OUTSIDE MICROMETER



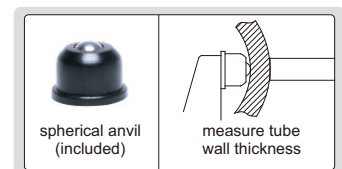
3109-25E

- Resolution: .00005"/0.001mm
- Button functions: on/off, set, inch/mm, ABS/INC
- No data output
- LR44 battery, automatic power off
- Carbide tips
- Friction thimble
- Supplied with spherical anvil
- Setting standards are included (except 0-1"/0-25mm)



Part No.	EDP No.	Range	Accuracy	L	a	b
3109-25E*	816500	0-1"/0-25mm	±.00010"	1.260"	.236"	1.083"
3109-50E*	816502	1-2"/25-50mm	±.00015"	2.244"	.315"	1.457"
3109-75E*	816504	2-3"/50-75mm	±.00015"	3.228"	.315"	1.969"
3109-100E*	816506	3-4"/75-100mm	±.00015"	4.213"	.394"	2.402"

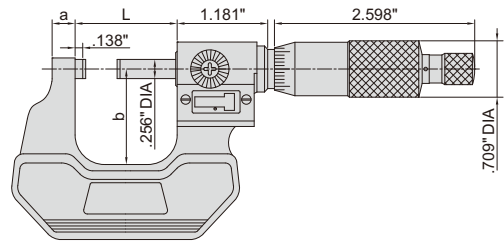
* Supplied with manufacturer inspection certificate traceable to NIST USA



OUTSIDE MICROMETER WITH COUNTER



3400-1



Part No.	EDP No.	Range	Accuracy	L	a	b
3400-1*	280933	0-1"	.00016"	1.260"	.236"	1.024"
3400-2*	280934	1-2"	.00016"	2.244"	.315"	1.260"
3400-3*	280935	2-3"	.00020"	3.228"	.315"	1.752"
3400-4*	280936	3-4"	.00020"	4.213"	.315"	2.244"

* Supplied with manufacturer inspection certificate traceable to NIST USA

- Counter resolution: .001"
- Thimble graduation: .0001"
- Carbide measuring faces
- Ratchet stop
- Supplied with setting standards (except 0-1")

OUTSIDE MICROMETER FOR LEFT OR RIGHT HAND

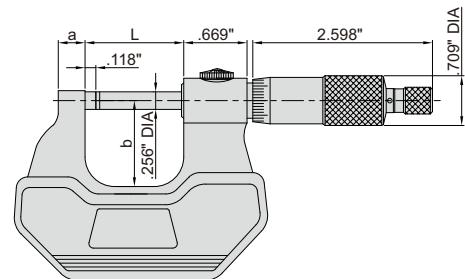


front



back

3236-1B



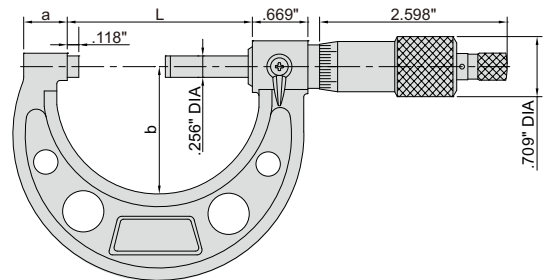
Part No.	EDP No.	Range	Accuracy	L	a	b
3236-1B	816636	0-1"	.00016"	1.260"	.236"	.945"
3236-2B	816637	1-2"	.00016"	2.244"	.315"	1.260"

- Graduation: .001"
- Graduations on two sides
- Carbide measuring faces
- Ratchet stop
- Supplied with setting standards (except 0-1")

OUTSIDE MICROMETER



- Graduation: imperial .0001"
metric 0.01mm
- Carbide measuring faces
- Ratchet stop
- Supplied with setting standards (except 0-1" and 0-25mm)



Imperial

Part No.	EDP No.	Range	Accuracy	L	a	b
3203-1A*	816564	0-1"	.00016"	1.260"	.354"	1.102"
3203-2A*	816566	1-2"	.00016"	2.244"	.551"	1.496"
3203-3A*	816568	2-3"	.00020"	3.228"	.591"	1.929"
3203-4A*	816570	3-4"	.00020"	4.213"	.591"	2.362"
3203-5A*	816572	4-5"	.00024"	5.236"	.650"	2.874"
3203-6A*	816574	5-6"	.00024"	6.220"	.650"	3.346"
3203-7A	816576	6-7"	.00028"	7.205"	.764"	4.094"
3203-8A	816578	7-8"	.00028"	8.228"	.764"	4.606"
3203-9A	816580	8-9"	.00031"	9.213"	.764"	5.118"
3203-10A	816582	9-10"	.00031"	10.236"	.764"	5.591"
3203-11A	816584	10-11"	.00035"	11.220"	.764"	6.102"
3203-12A	816586	11-12"	.00035"	12.205"	.764"	6.614"

Imperial micrometer set

Part No.	EDP No.	Range	Micrometers Included
3203-33A*	816588	0-3"	3203-1A, 3203-2A, 3203-3A
3203-44A*	816590	0-4"	3203-1A, 3203-2A, 3203-3A, 3203-4A
3203-66A*	816592	0-6"	3203-1A, 3203-2A, 3203-3A, 3203-4A, 3203-5A, 3203-6A
3203-126A	816594	6-12"	3203-7A, 3203-8A, 3203-9A, 3203-10A, 3203-11A, 3203-12A
3203-1212A	816596	0-12"	3203-1A, 3203-2A, 3203-3A, 3203-4A, 3203-5A, 3203-6A, 3203-7A, 3203-8A, 3203-9A, 3203-10A, 3203-11A, 3203-12A

Metric

(mm)

Part No.	EDP No.	Range	Accuracy	L	a	b
3203-25A*	816530	0-25mm	4µm	32	9	28
3203-50A*	816532	25-50mm	4µm	57	14	38
3203-75A*	816534	50-75mm	5µm	82	15	49
3203-100A*	816536	75-100mm	5µm	107	15	60
3203-125A	816538	100-125mm	6µm	133	16.5	73
3203-150A	816540	125-150mm	6µm	158	16.5	85
3203-175A	816542	150-175mm	7µm	183	19.4	104
3203-200A	816544	175-200mm	7µm	209	19.4	117
3203-225A	816546	200-225mm	8µm	234	19.4	130
3203-250A	816548	225-250mm	8µm	260	19.4	142
3203-275A	816550	250-275mm	9µm	285	19.4	155
3203-300A	816552	275-300mm	9µm	310	19.4	168

Metric micrometer set

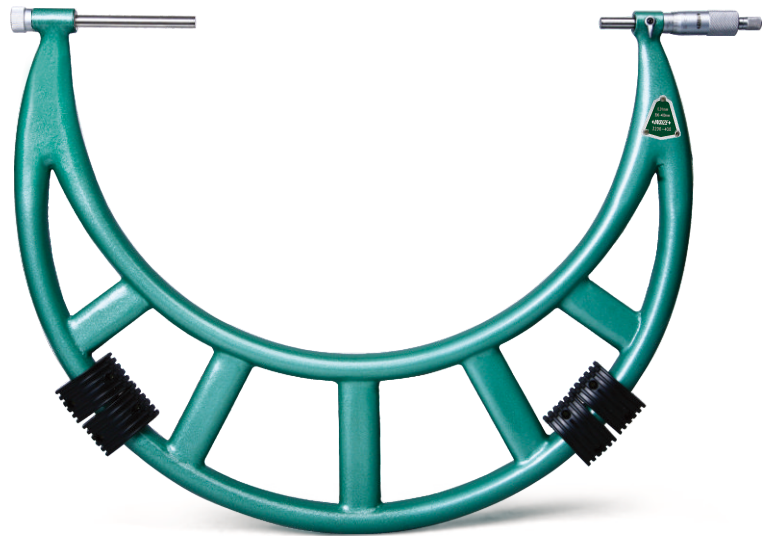
Part No.	EDP No.	Range	Micrometers Included
3203-753A*	816554	0-75mm	3203-25A, 3203-50A, 3203-75A
3203-1004A*	816556	0-100mm	3203-25A, 3203-50A, 3203-75A, 3203-100A
3203-1506A	816558	0-150mm	3203-25A, 3203-50A, 3203-75A, 3203-100A, 3203-125A, 3203-150A
3203-3006A	816560	150-300mm	3203-175A, 3203-200A, 3203-225A, 3203-250A, 3203-275A, 3203-300A
3203-3012A	816562	0-300mm	3203-25A, 3203-50A, 3203-75A, 3203-100A, 3203-125A, 3203-150A, 3203-175A, 3203-200A, 3203-225A, 3203-250A, 3203-275A, 3203-300A

* Supplied with manufacturer inspection certificate traceable to NIST USA

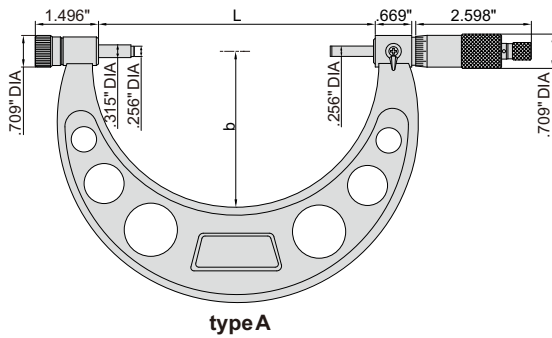
OUTSIDE MICROMETER WITH INTERCHANGEABLE ANVILS



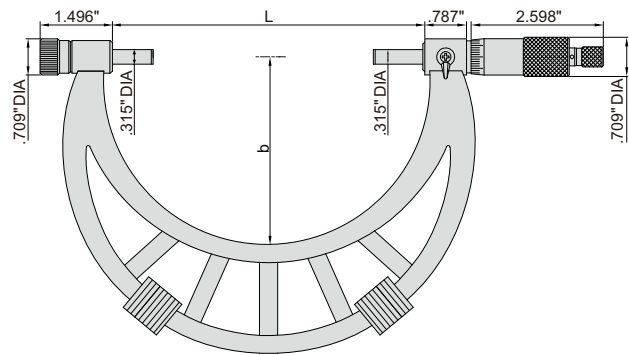
3206-6



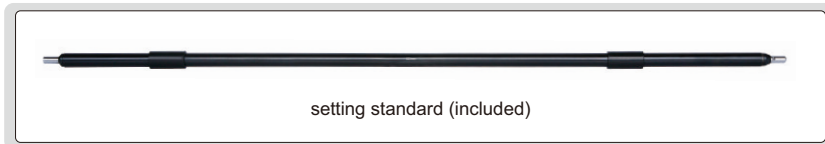
3206-16



type A

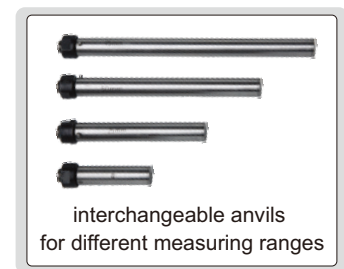


type B



setting standard (included)

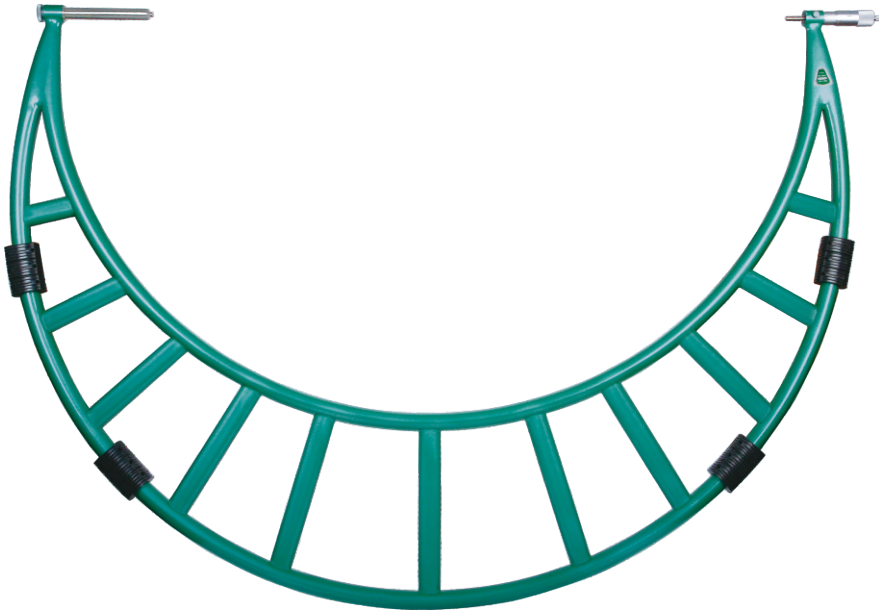
Part No.	EDP No.	Range	Type	Accuracy	L	b	Setting standard (included)
3206-2	281180	0-2"	A	.00016"	2.283"	1.378"	1"
3206-4	281181	0-4"	A	.00020"	4.252"	2.244"	1", 2", 3"
3206-6	281182	0-6"	A	.00024"	6.220"	3.228"	1", 2", 3", 4", 5"
3206-61	816406	2-6"	A	.00024"	6.220"	3.228"	2", 3", 4", 5"
3206-8	281183	4-8"	A	.00028"	8.189"	4.488"	4", 5", 6", 7"
3206-12	281186	6-12"	A	.00035"	12.126"	6.496"	6", 7", 8", 9", 10", 11"
3206-121	281187	8-12"	A	.00035"	12.126"	6.496"	8", 9", 10", 11"
3206-16	281188	12-16"	B	.00043"	16.102"	8.819"	13", 15"
3206-20	281189	16-20"	B	.00051"	20.039"	10.827"	17", 19"
3206-24	281190	20-24"	B	.00055"	23.976"	12.638"	21", 23"
3206-28	281191	24-28"	B	.00063"	27.913"	14.606"	25", 27"
3206-32	281192	28-32"	B	.00071"	31.850"	16.772"	29", 31"
3206-36	281193	32-36"	B	.00079"	35.787"	18.740"	33", 35"
3206-40	281194	36-40"	B	.00087"	39.724"	22.677"	37", 39"



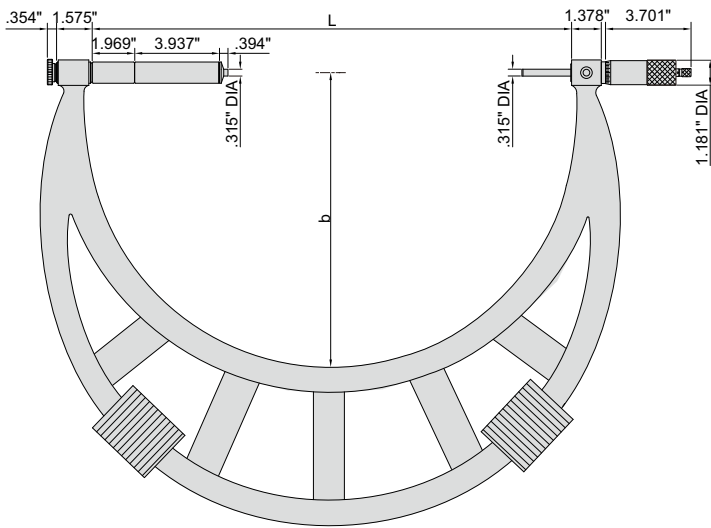
interchangeable anvils for different measuring ranges

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

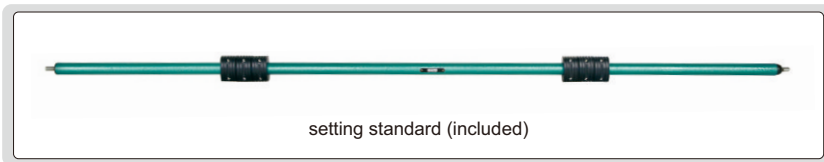
OUTSIDE MICROMETER WITH EXTENSION ANVIL COLLAR



3205-56



adjust collars for different measuring ranges



setting standard (included)

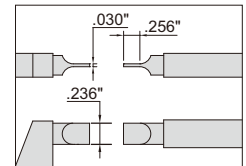
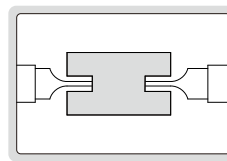
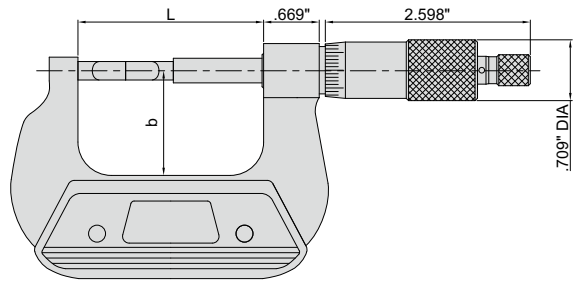
- Graduation .0005"
- Adjust collars for different measuring ranges
- Ratchet stop
- Carbide measuring faces
- Supplied with setting standards

Part No.	EDP No.	Range	Accuracy	L	b	Setting standard (included)
3205-48	281160	40-48"	.00087"	47.638"	25.394"	42", 46"
3205-56	281161	48-56"	.00094"	55.512"	29.331"	50", 54"
3205-64	281162	56-64"	.00110"	63.386"	33.268"	58", 62"
3205-72	281163	64-72"	.00122"	71.260"	37.205"	66", 70"
3205-80	281164	72-80"	.00134"	79.134"	41.142"	74", 78"

BLADE MICROMETER



3232-1



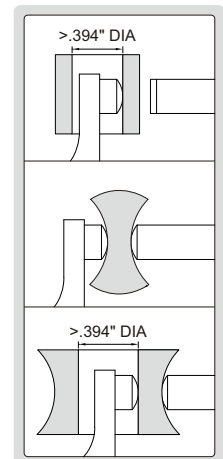
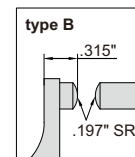
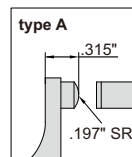
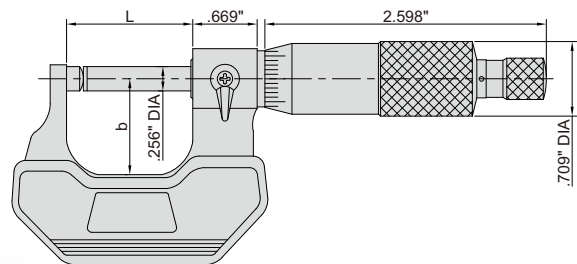
Part No.	EDP No.	Range	Accuracy	L	b
3232-1	281320	0-1"	.00016"	2.244"	1.260"
3232-2	281321	1-2"	.00016"	3.228"	1.752"
3232-3	281322	2-3"	.00020"	4.213"	2.244"
3232-4	281323	3-4"	.00020"	5.220"	2.736"
3232-5	281324	4-5"	.00024"	6.220"	3.228"
3232-6	281325	5-6"	.00024"	7.220"	3.720"
3232-7	281326	6-7"	.00028"	8.220"	4.213"

- Measure the groove diameter of shafts and keyways
- Graduation .0001"
- Non-rotating spindle
- Ratchet stop
- Supplied with setting standards (except 0-1")

SPHERICAL ANVIL TUBE MICROMETER



3260-1



Part No.	EDP No.	Range	Type	Accuracy	L	b
3260-1	281457	0-1"	A	.00016"	1.260"	.945"
3260-2	281458	1-2"	A	.00016"	2.244"	1.260"
3260-3	281459	2-3"	A	.00020"	3.228"	1.752"
3260-1S	281461	0-1"	B	.00016"	1.260"	.945"

Sizes available up to 4"

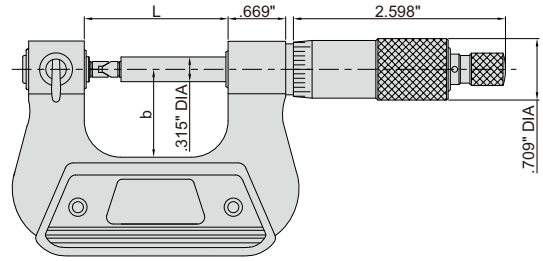
- Measure wall thickness of tubes
- Graduation .0001"
- Ratchet stop
- Carbide measuring faces
- Supplied with setting standards (except 0-1")

SCREW THREAD MICROMETER



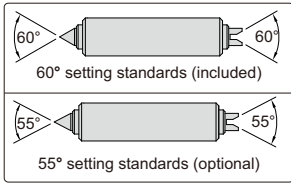
3281-1

measuring tips are not included,
select from bottom chart



accuracy of micrometers with tips

Pitch	Range					
	0-1"	1-2"	2-3"	3-4"	4-5"	5-8"
64~48TPI	±394µm	-	-	-	-	-
44~32TPI	±394µm	±512µm	-	-	-	-
28~20TPI	±472µm	±591µm	±670µm	±670µm	-	-
18~13TPI	±551µm	±670µm	±748µm	±748µm	±787µm	±906µm
12~7TPI	±630µm	±748µm	±827µm	±827µm	±906µm	±984µm
6~3.5TPI	-	±827µm	±906µm	±906µm	±984µm	±1102µm



Part No.	EDP No.	Range	L	b	55° setting standard (optional)
3281-1	281696	0-1"	1.654"	1.024"	-
3281-2	281697	1-2"	2.638"	1.496"	3281-SPE1
3281-3	281698	2-3"	3.622"	1.969"	3281-SPE2
3281-4	281699	3-4"	4.630"	2.441"	3281-SPE3
3281-5	281700	4-5"	5.630"	2.756"	3281-SPE4
3281-6	281701	5-6"	6.622"	3.228"	3281-SPE5

Sizes available up to 8"

- Measures pitch diameter of screw threads
- Graduation .001"
- Non-rotating spindle
- Ratchet stop
- Supplied with 60° setting standards
- Optional accessory: 55° setting standards, measuring tips (part no. 7381) below

MEASURING TIPS FOR SCREW THREAD MICROMETER

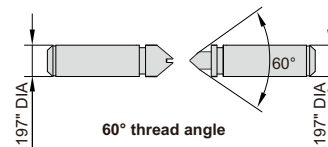
- Supplied in pair
- Suitable for 3281, 3581 series micrometers

Unified and metric thread (60° thread angle)

Part No.	EDP No.	Pitch
7381-T11	281671	64-48TPI/ 0.4-0.5mm
7381-T12	281672	44-28TPI/ 0.6-0.9mm
7381-T13	281673	24-14TPI/ 1-1.75mm
7381-T14	281674	13-9TPI/ 2-3mm
7381-T15	281675	8-5TPI/ 3.5-5mm
7381-T16	281676	4.5-3.5TPI/ 5.5-7mm
7381-TS	281670	6 pairs/set, including all above tips



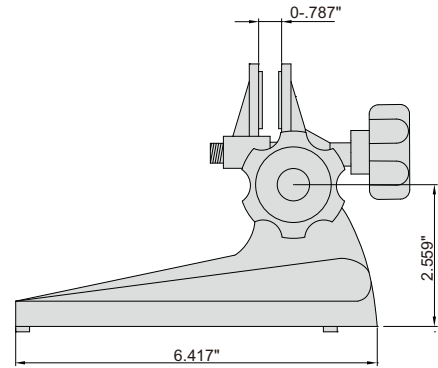
7381-T13



MICROMETER STAND



6301



- Suitable for micrometers up to 4"

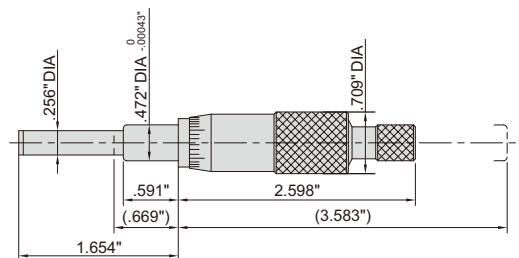
Part No.	EDP No.
6301	282456



MICROMETER HEAD



6381-1W



- Ratchet stop

Part No.	EDP No.	Range	Graduation	Spindle tip	Accuracy
6381-1W	816688	0-1"	.001"	flat (carbide)	.00012"

ELECTRONIC THREE POINTS INTERNAL MICROMETER



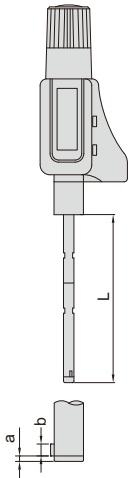
3127-E05



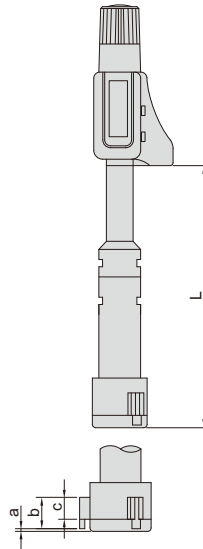
3127-E16



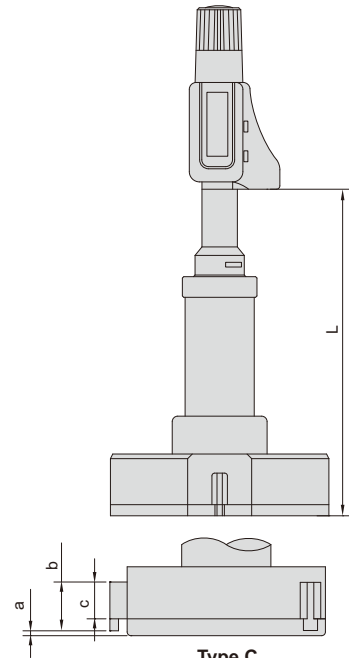
3127-E5



Type A
.35-.5", steel points



Type B
.5-2", carbide points



Type C
2-12", carbide points

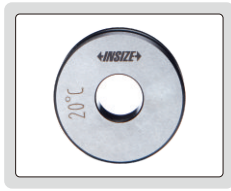


3127-E24

To be continued

Continued from previous page

setting ring



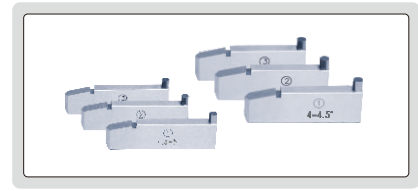
.35-4": included
4-12": optional

extension rod



included

interchangeable jaws



4-12": have two sets
of jaws for different measuring range
(for example, 3127-E5 has 4-4.5" and 4.5-5" jaws)

- Resolution .00005"/0.001mm
- IP54 dust/waterproof
- Buttons: on/off, set, inch/mm, ABS/INC
- Data output
- LR44 battery, automatic power off
- Ratchet stop
- Optional accessory: data output cable
(part no. **7306-30**, **7302-SPC2A**, **7305-SPC3**),
setting ring (part no. **6313**)

Manufacturer Inspection Certificate

		Inspection Certificate	
Product name	Electronic Three Points Internal Micrometer	Traceable to	Germany 10339/D-K-15015-01-02/2012-09
Code No.	3127-E112	Inspector	Germany 31-0830/DKD-K-06901/2012-09 <i>Paulo</i>
Measuring range	1-1.2" / 25-30mm	Judgement	Passed
Resolution	.00005" / 0.001mm		
Serial No.	0910120004		
Standard temperature	68 °F		
		Unit: inch	
Actual Ring Size(inch)	Permissible Error	Measured Deviation	
1.02360	.00016	.00005	
1.10228		.00005	
1.18107		.00010	

Individual

Part No.	EDP No.	Range	Type	Accuracy	Setting ring	Extension rod (included)	L	a	b	c
3127-E0425*	816638	.35-.425"/9-11mm	A	.00016"	.35" DIA (included)	4"	2.18"	.059"	.098"	—
3127-E05*	282305	.425-.5"/11-13mm	A	.00016"	.5" DIA (included)	4"	2.18"	.059"	.098"	—
3127-E065*	282317	.5-.65"/13-17mm	B	.00016"	.65" DIA (included)	6"	3.2"	.020"	.236"	.177"
3127-E08*	282318	.65-.8"/17-20mm	B	.00016"	.65" DIA (included)	6"	3.2"	.020"	.236"	.177"
3127-E1*	282319	.8-1"/20-25mm	B	.00016"	1" DIA (included)	6"	3.6"	.020"	.315"	.236"
3127-E112*	282320	1-1.2"/25-30mm	B	.00016"	1" DIA (included)	6"	3.6"	.020"	.315"	.236"
3127-E16*	282321	1.2-1.6"/30-40mm	B	.00016"	1.6" DIA (included)	6"	3.88"	.020"	.551"	.472"
3127-E2*	282322	1.6-2"/40-51mm	B	.00020"	1.6" DIA (included)	6"	3.88"	.020"	.551"	.472"
3127-E25*	282323	2-2.5"/51-63mm	C	.00020"	2.5" DIA (included)	6"	4.56"	.020"	.689"	.571"
3127-E3*	282324	2.5-3"/63-76mm	C	.00020"	2.5" DIA (included)	6"	4.56"	.020"	.689"	.571"
3127-E35*	282325	3-3.5"/76-89mm	C	.00020"	3.5" DIA (included)	6"	4.56"	.020"	.689"	.571"
3127-E4*	282326	3.5-4"/89-101mm	C	.00020"	3.5" DIA (included)	6"	4.56"	.020"	.689"	.571"
3127-E5*	282367	4-5"/101-127mm	C	.00020"	4.5" DIA (optional)	6"	6"	.020"	.768"	.571"
3127-E6*	282368	5-6"/127-152mm	C	.00020"	5.5" DIA (optional)	6"	6"	.020"	.768"	.571"

Set

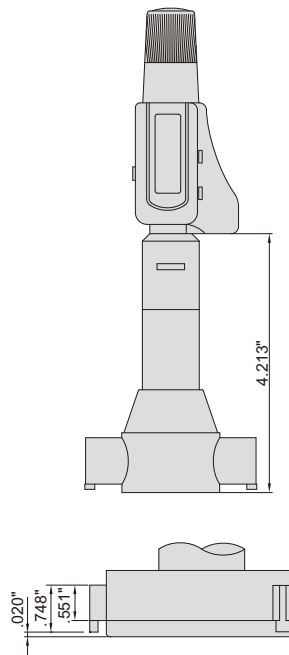
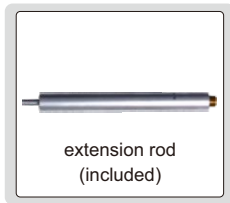
Part No.	EDP No.	Range	Micrometers included	Setting ring (included)	Extension rod (included)
3127-E053*	282306	.275-.5"/7-13mm	.275-.35"/7-9mm, .35-.425"/9-11mm .425-.5"/11-13mm	.275" DIA, .35" DIA, .5" DIA	4"
3127-E082*	282330	.5-.8"/13-20mm	.5-.65"/13-17mm, .65-.8"/17-20mm	.65" DIA	6"
3127-E24*	282331	.8-2"/20-51mm	.8-1"/20-25mm, 1-1.2"/25-30mm 1.2-1.6"/30-40mm, 1.6-2"/40-51mm	1" DIA, 1.6" DIA	6"
3127-E44*	282332	2-4"/51-101mm	2-2.5"/51-63mm, 2.5-3"/63-76mm 3-3.5"/76-89mm, 3.5-4"/89-101mm	2.5" DIA, 3.5" DIA	6"

* Supplied with manufacturer inspection certificate
- Sizes available up to 12"

ELECTRONIC WIDE RANGE THREE POINTS INTERNAL MICROMETER



- Resolution .00005"/0.001mm
- IP54 dust/waterproof
- Buttons: on/off, set, inch/mm, ABS/INC
- Data output
- LR44 battery, automatic power off
- Carbide measuring faces
- Ratchet stop
- Supplied with extension rods
- Setting rings are included (except part no. 3128-12)
- Optional accessory: data output cable (part no. 7306-30, 7302-SPC2A, 7305-SPC3)



3128-28

Part No.	EDP No.	Range	Accuracy	Setting ring	Extension rod (included)
3128-28*	816640	2-2.8"/51-71mm	.00020"	2" DIA (included)	6"
3128-4*	816641	2.8-4"/71-101mm	.00020"	2.8" DIA (included)	6"
3128-6*	816642	4-6"/101-152mm	.00024"	4" DIA (included)	6"
3128-10*	816643	6-10"/152-254mm	.00032"	6" DIA (included)	6"
3128-12*	816644	8-12"/203-305mm	.00036"	8" DIA (optional)	6"

* Supplied with manufacturer inspection certificate

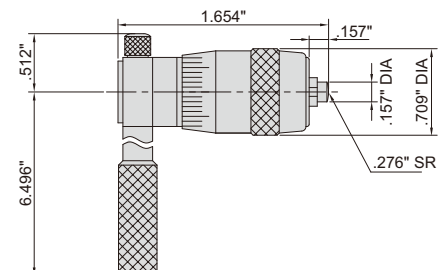
TUBULAR INSIDE MICROMETER

- Graduation .001"
- Accuracy: $[\pm .0003 + .00005(L/2)]$
L=maximum measuring length (inch)
- Optional accessory: setting ring (part no. 6313)



3221-8

Part No.	EDP No.	Range	Travel of micrometer head	Extension rods
3221-8	282039	2-8"	.5"	6pcs
3221-12	282040	2-12"	.5"	10pcs
3221-20	282042	8-20"	1"	3pcs
3221-40	282043	8-40"	1"	8pcs



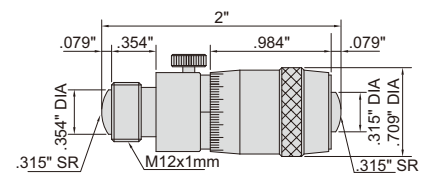
TUBULAR INSIDE MICROMETER

- Graduation .001"
- Accuracy: $[\pm 0.0005(3+n+L/2)]''$
n=number of rods, L=maximum measuring length (inch)
- Supplied with setting standards
- Carbide measuring faces

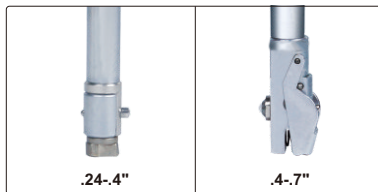


3222-6

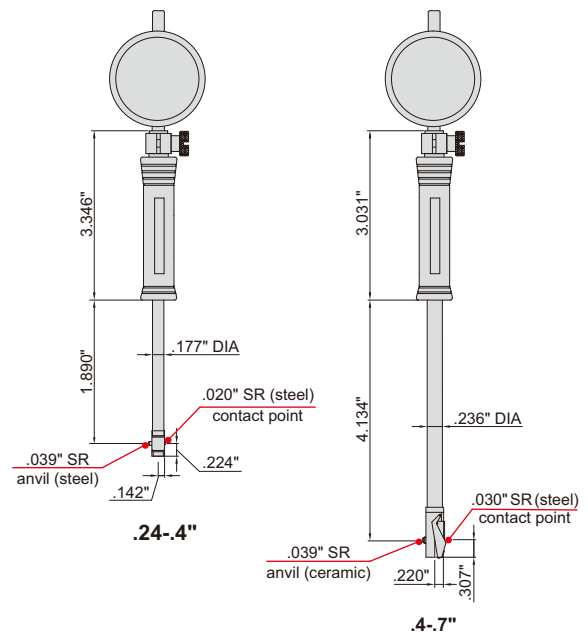
Part No.	EDP No.	Range	Travel of micrometer head	Extension rods
3222-6	281999	2-6"	.5"	.5", 1", 2"
3222-12	282000	2-12"	.5"	.5", 1", 2" (2pcs), 4"
3222-20	282001	2-20"	.5"	.5", 1", 2" (2pcs), 4", 8"
3222-40	282002	2-40"	.5"	.5", 1", 2" (2pcs), 4", 8" (2pcs), 12"
3222-60	282003	2-60"	.5"	.5", 1", 2" (2pcs), 4", 8" (3pcs), 12" (2pcs)



2323-04



BORE GAGE FOR SMALL HOLES



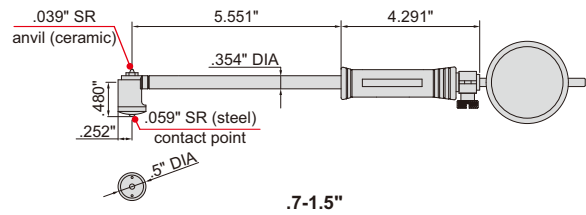
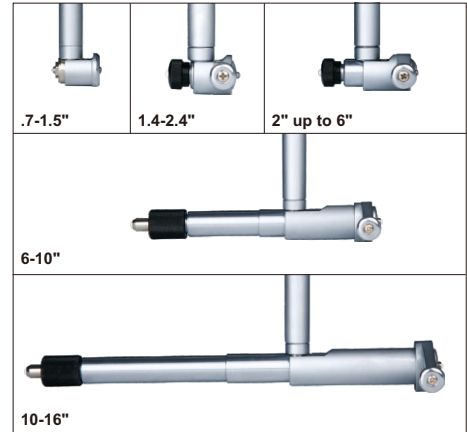
- Optional accessory: setting ring (part no. 6313)

Part No.	EDP No.	Range	Indicator	Accuracy	Repeatability
2323-04	282928	.24-.4"	dial indicator, range .25", graduation .0005"	±.00075"	.00015"
2323-07	282929	.4-.7"		±.00075"	.00015"

BORE GAGE



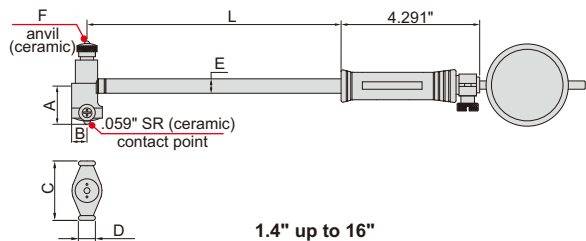
2323-6



.7-1.5"

- Optional accessory:
setting ring (part no. 6313), long handle (part no. 7351)

Range	A	B	C	D	E	F	L
1.4-2.4"	.866"	.354"	1.063"	.512" DIA	.504" DIA	.079" R	5.551"
2-6"	1.024"	.354"	1.378"	.512" DIA	.504" DIA	.079" R	5.551"
6-10"	2.224"	.512"	2.933"	.591" DIA	.571" DIA	.079" R	9.488"
10-16"	3.406"	.591"	3.996"	.591" DIA	.571" DIA	.098" R	9.488"



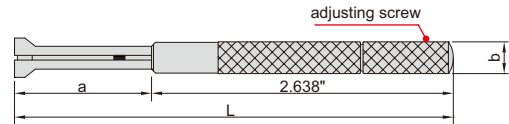
1.4" up to 16"

Part No.	EDP No.	Range	Indicator	Accuracy	Repeatability
2323-15	282930	.7-1.5"	dial indicator, range .25", graduation .0005"	±.00075"	.00015"
2323-24	816188	1.4-2.4"		±.0009"	.00015"
2323-6	816192	2-6"		±.0009"	.00015"
2323-10	816184	6-10"		±.0009"	.00015"
2323-16	816186	10-16"		±.0009"	.00015"

SMALL HOLE GAGE SET

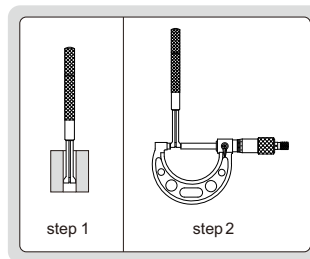


4208-1



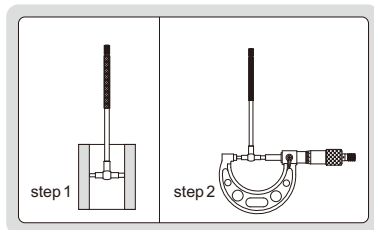
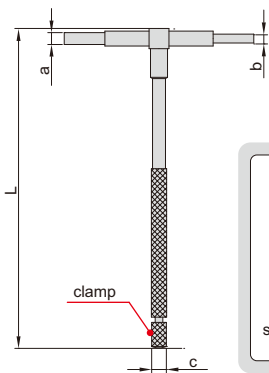
- 4 gages per set
- For small holes, slots and grooves, etc.
- Satin chrome finish

Part No.	EDP No.	Total range	Gages included
4208-1	816204	.125 ~ .5"	.125 ~ .2", .2 ~ .3" .3 ~ .4", .4 ~ .5"



Range	L	a	b
.125 ~ .2"	3.543"	.886"	.217" DIA
.2 ~ .3"	3.843"	1.181"	.217" DIA
.3 ~ .4"	4.047"	1.378"	.335" DIA
.4 ~ .5"	4.252"	1.575"	.335" DIA

TELESCOPING GAGE SET



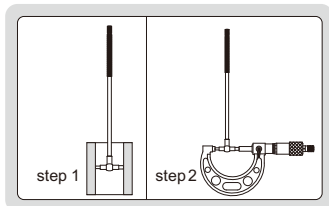
4206-1

Range	L	a	b	c
5/16 ~ 1/2"	4.528"	.154" DIA	.114" DIA	.244" DIA
1/2 ~ 3/4"	4.528"	.209" DIA	.150" DIA	.244" DIA
3/4 ~ 1-1/4"	4.528"	.209" DIA	.150" DIA	.244" DIA
1-1/4 ~ 2-1/8"	5.394"	.299" DIA	.240" DIA	.283" DIA
2-1/8 ~ 3-1/2"	5.394"	.299" DIA	.240" DIA	.283" DIA
3-1/2 ~ 6"	5.394"	.299" DIA	.240" DIA	.283" DIA

Part No.	EDP No.	Total Range	Gages Included
4206-1	816202	5/16 ~ 6"	5/16 ~ 1/2", 1/2 ~ 3/4", 3/4 ~ 1-1/4" 1-1/4 ~ 2-1/8", 2-1/8 ~ 3-1/2", 3-1/2 ~ 6"

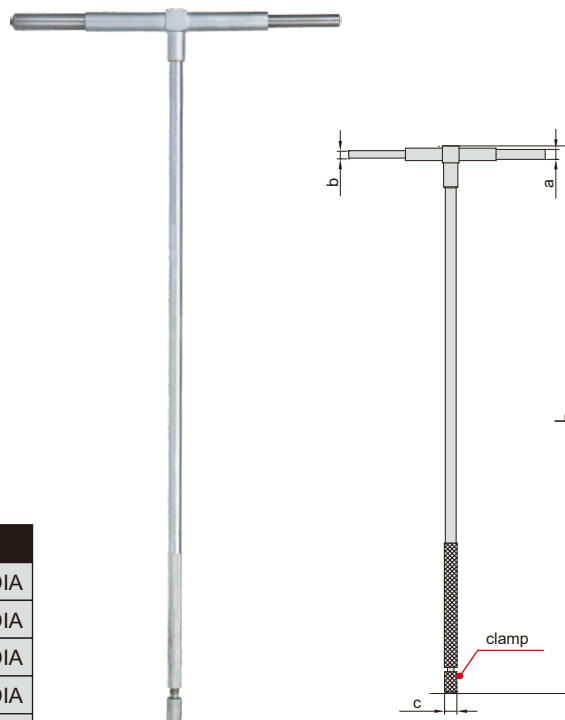
- 6 gages per set
- For quick measurement of inside diameter of holes and width of slots
- Satin chrome finish

LONG HANDLE TELESCOPING GAGE



- For quick measurement of inside diameter of deep holes and width of slots
- Satin chrome finish

Part No.	EDP No.	Range	L	a	b	c
4209-1	283589	5/16 ~ 1/2"	9.843"	.154" DIA	.114" DIA	.244" DIA
4209-2	283590	1/2 ~ 3/4"	9.843"	.209" DIA	.150" DIA	.244" DIA
4209-3	283591	3/4 ~ 1-1/4"	9.843"	.209" DIA	.150" DIA	.244" DIA
4209-4	283592	1-1/4 ~ 2-1/8"	11.811"	.299" DIA	.240" DIA	.283" DIA
4209-5	283593	2-1/8 ~ 3-1/2"	11.811"	.299" DIA	.240" DIA	.283" DIA
4209-6	283594	3-1/2 ~ 6"	11.811"	.299" DIA	.240" DIA	.283" DIA



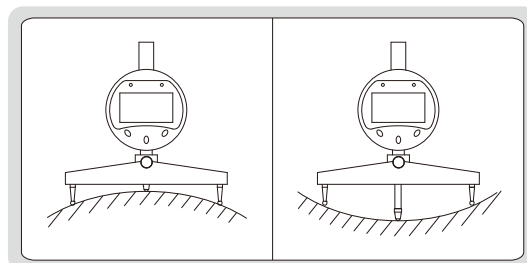
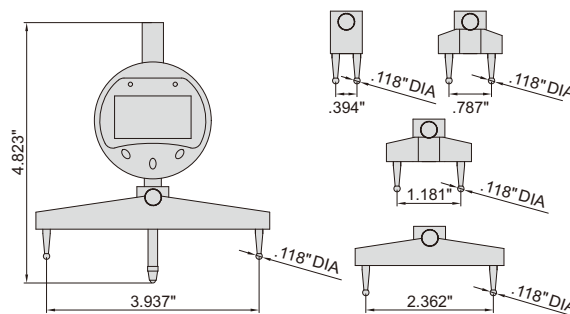
4209-6

ELECTRONIC RADIUS GAGE



2183

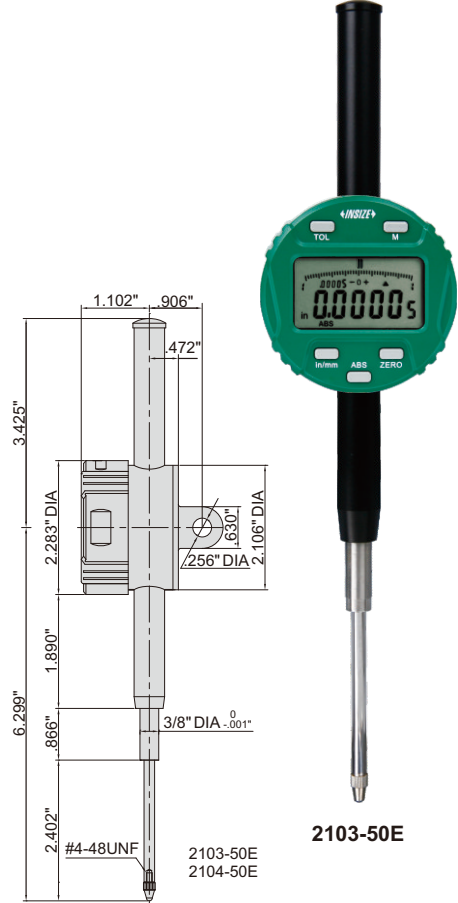
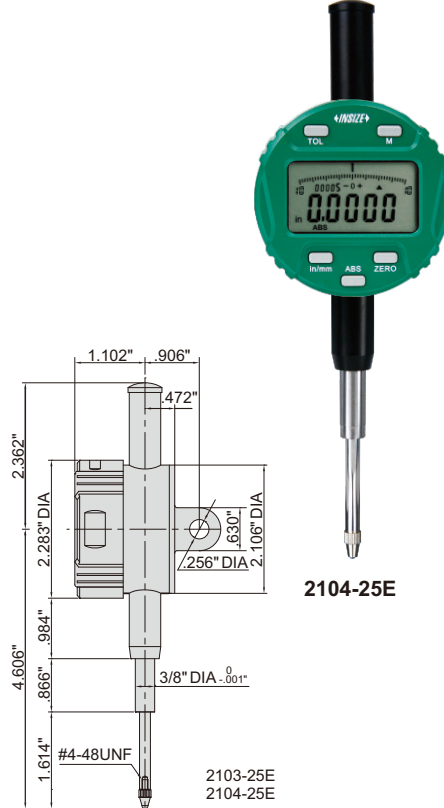
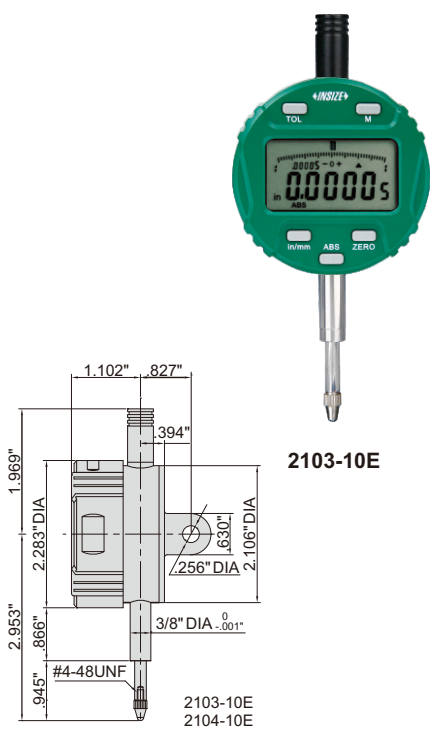
- Measure radius of internal and external arcs
- Supplied with 5 jaws for different sizes of arc
- Battery CR2032



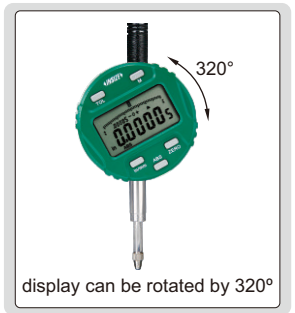
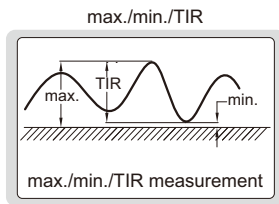
Part No.	EDP No.	Range of Radius (R)	Resolution	Accuracy (inch)
2183	283213	.2-27.5"/5-700mm	.00005"/0.005mm	±0.01R*

* R is the radius to be measured

ELECTRONIC INDICATOR (ADVANCED MODEL)



- Meet ASME B89.1.10M-2001
- Reading in digital and analog
- Display can be rotated by 320°
- Button function: tolerance Go and No-Go display, data preset, measuring direction change, max./min./TIR measurement, inch/metric conversion, absolute/incremental measurement
- CR2032 battery, automatic power off
- Data output
- Optional accessory: data output cable (part no. 7306-40, 7302-SPC3A, 7305-SPC1A), backs, contact points



Resolution .00005"/0.001mm

Part No.	EDP No.	Range	Accuracy	Hysteresis	Remark
2103-10E*	285053	.5"/12.7mm	±.00015"	.00005"	lug back
2103-25E*	285052	1"/25.4mm	±.00015"	.00005"	lug back
2103-50E*	285051	2"/50.8mm	±.00015"	.00005"	lug back

Resolution .0005"/0.01mm

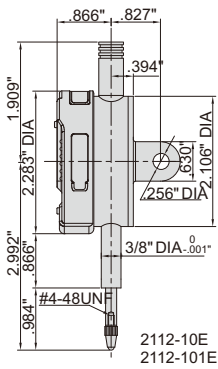
Part No.	EDP No.	Range	Accuracy	Hysteresis	Remark
2104-10E*	877006	.5"/12.7mm	±.0015"	.0005"	lug back
2104-25E*	876700	1"/25.4mm	±.0015"	.0005"	lug back
2104-50E*	876272	2"/50.8mm	±.0015"	.0005"	lug back

* Supplied with manufacturer inspection certificate traceable to NIST USA

ELECTRONIC INDICATOR



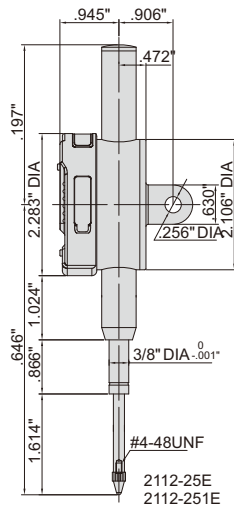
2112-10E



2112-10E
2112-101E



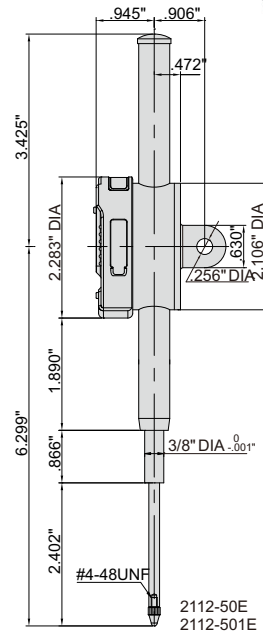
2112-251E



2112-25E
2112-251E



2112-501E



2112-50E
2112-501E

- Meet ASME B89.1.10M-2001
- Button function: on/off, inch/mm, zero
- CR2032 battery, automatic power off
- Data output
- Optional accessory: data output cable (part no. 7306-40, 7302-SPC3A, 7305-SPC1A), backs, contact points

Resolution .00005"/0.001mm

Part No.	EDP No.	Range	Accuracy	Hysteresis	Remark
2112-101E*	877008	.5"/12.7mm	±.00015"	.00005"	lug back
2112-251E*	816392	1"/25.4mm	±.00015"	.00005"	lug back
2112-501E*	816394	2"/50.8mm	±.00015"	.00005"	lug back

Resolution .0005"/0.01mm

Part No.	EDP No.	Range	Accuracy	Hysteresis	Remark
2112-10E*	877010	.5"/12.7mm	±.0015"	.0005"	lug back
2112-25E*	816393	1"/25.4mm	±.0015"	.0005"	lug back
2112-50E*	816395	2"/50.8mm	±.0015"	.0005"	lug back

* Supplied with manufacturer inspection certificate traceable to NIST USA

spindle lift knob is included

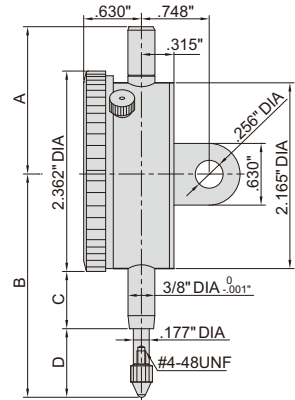


DIAL INDICATOR



2307-1

- Meet ASME B89.1.10M-2001
- Lug back
- Supplied with limit pointers and bezel clamp
- Optional accessory: backs, contact points



Part No.	EDP No.	Range	Graduation	Accuracy		Range /rev	Dial reading
				First 2.5 rev	Overall		
2307-025 *	282705	.25"	.001"	±.001"	±.001"	.1"	0-100
2307-05 *	816156	.5"	.001"	±.001"	±.002"	.1"	0-100
2307-1 *	816158	1"	.001"	±.001"	±.002"	.1"	0-100
2307-2 *	816160	2"	.001"	±.001"	±.004"	.1"	0-100
2307-0255 *	282707	.25"	.0005"	±.0005"	±.0015"	.05"	0-50
2307-055 *	282708	.5"	.0005"	±.0005"	±.0015"	.05"	0-50
2307-105 *	282709	1"	.0005"	±.0005"	±.002"	.05"	0-50
2307-205 *	282710	2"	.0005"	±.0005"	±.002"	.05"	0-50

Range	A	B	C	D
.25"	1.811"	2.953"	.787"	.984"
.5"	1.811"	2.953"	.787"	.984"
1"	1.811"	3.346"	.787"	1.378"
2"	4.370"	5.472"	1.969"	2.323"

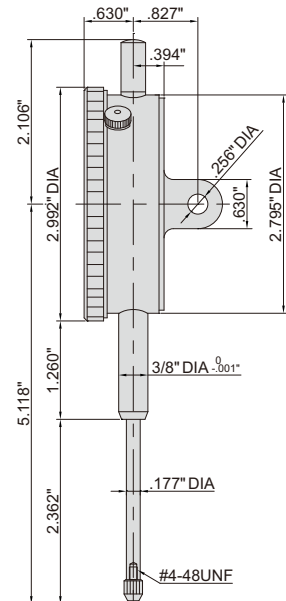
* Supplied with manufacturer inspection certificate traceable to NIST USA

LARGE DIAL FACE DIAL INDICATOR



2312-15

- Meet ASME B89.1.10M-2001
- Lug back
- Supplied with limit pointers and bezel clamp
- Optional accessory: contact points



Part No.	EDP No.	Range	Graduation	Accuracy		Range /rev	Dial reading
				First 2.5 rev	Overall		
2312-15 *	282711	1.5"	.001"	±.001"	±.004"	.1"	0-100
2312-2 *	282712	2"	.001"	±.001"	±.004"	.1"	0-100

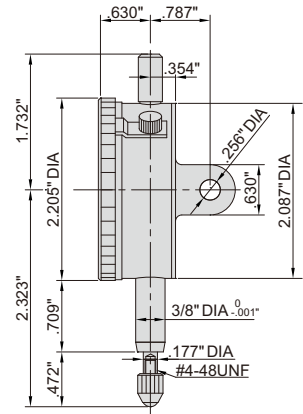
* Supplied with manufacturer inspection certificate traceable to NIST USA

PRECISION DIAL INDICATOR



2315-05

- Meet ASME B89.1.10M-2001
- Shockproof
- Jeweled bearing
- Lug back
- Supplied with limit pointers and bezel clamp
- Optional accessory: backs, contact points



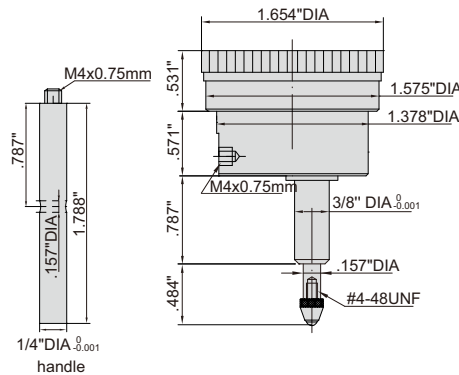
Part No.	EDP No.	Range	Graduation	Accuracy		Range/rev	Dial reading
				First 2.5 rev	Overall		
2315-05 *	282719	.05"	.0001"	±.0001"	±.0003"	.01"	0-100

* Supplied with manufacturer inspection certificate traceable to NIST USA

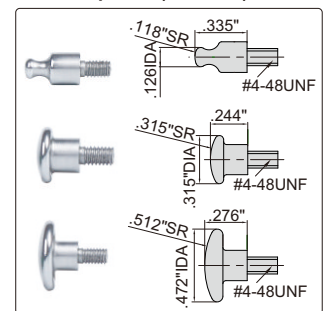
BACK PLUNGER TYPE DIAL INDICATOR



2320-02



points (included)



- Supplied with handle
- Optional accessory: contact points

Part No.	EDP No.	Range	Graduation	Accuracy	Hysteresis	Range/rev	Dial reading
2320-02 *	816371	.2"	.001"	±.001"	.00033"	.1"	0-100

* Supplied with manufacturer inspection certificate traceable to NIST USA

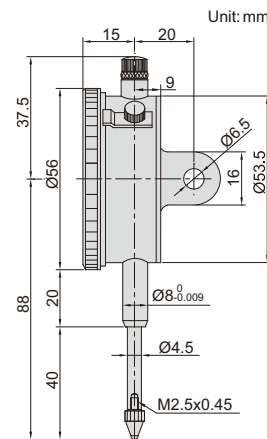
handle can be removed



METRIC DIAL INDICATOR



2310-30A



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

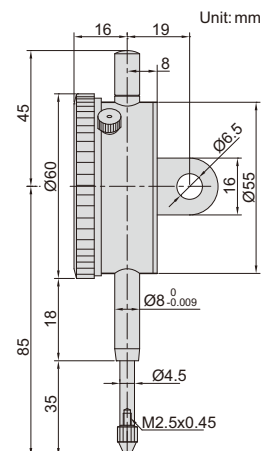
Part No.	EDP No.	Range	Graduation	Accuracy	Hysteresis	Range/rev	Dial reading	Remark
2310-30A*	282665	30mm	0.01mm	35µm	7µm	1mm	0-100	lug back
2310-30FA*	282664	30mm	0.01mm	35µm	7µm	1mm	0-100	flat back

*Supplied with manufacturer inspection certificate traceable to NIST USA

METRIC DIAL INDICATOR



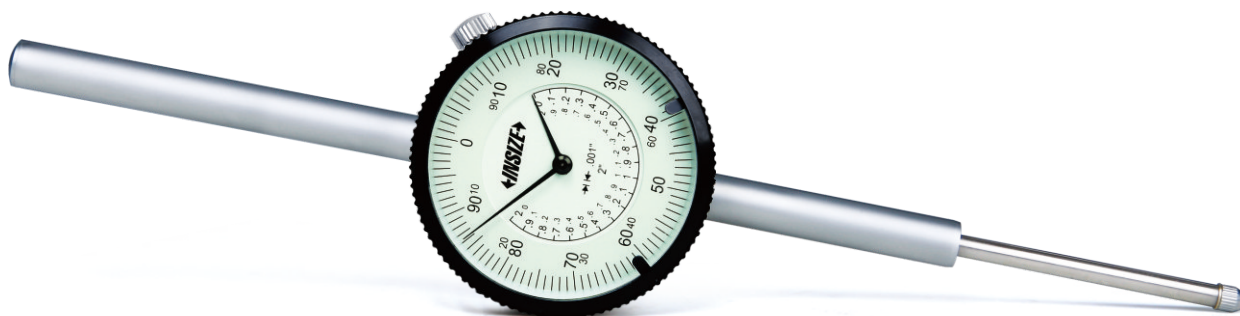
2318-25



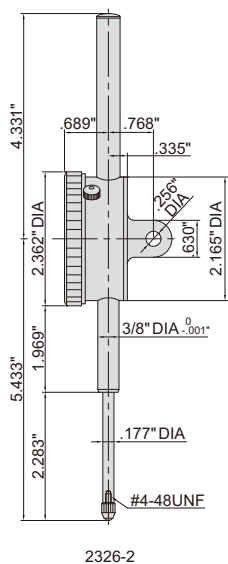
- Supplied with limit pointers and bezel clamp
- Optional accessory: backs, contact points

Part No.	EDP No.	Range	Graduation	Accuracy	Hysteresis	Range/rev	Dial reading	Remark
2318-25	816164	25mm	0.1mm	60µm	20µm	10mm	0-10	lug back

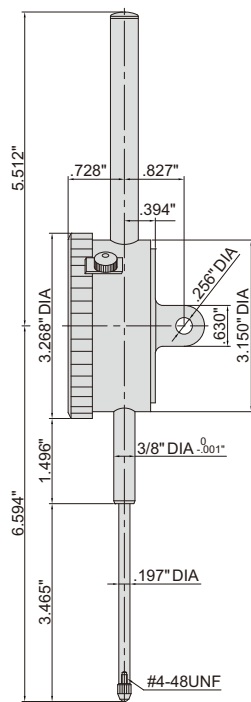
LONG STROKE DIAL INDICATOR



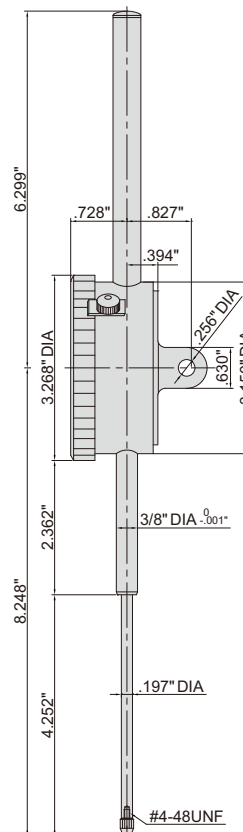
2326-2



2326-2



2326-3



2326-4

- Graduation: .001"
- Lug back
- Supplied with limit pointers and bezel clamp
- Optional accessory: backs, contact points

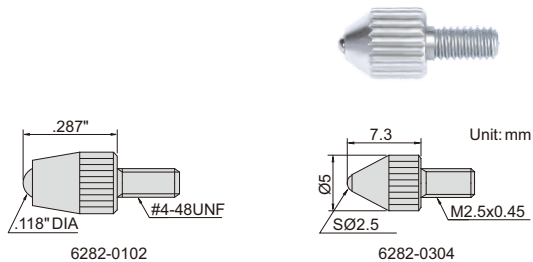
Part No.	EDP No.	Range	Accuracy		Range/ rev	Dial reading
			First 2.5 rev	Overall		
2326-2*	282715	2"	±.001"	±.004"	.1"	0-100
2326-3**	282717	3"	±.001"	±.005"	.1"	0-100
2326-4**	282718	4"	±.001"	±.005"	.1"	0-100

* Supplied with manufacturer inspection certificate traceable to NIST USA

** 2326-3 and 2326-4 can only be used vertically

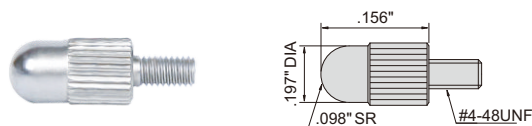
INDICATOR ACCESSORIES

BALL POINT



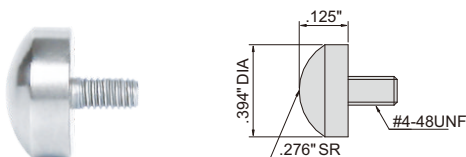
Part No.	EDP No.	Material of measuring face
6282-0102	282737	carbide
6282-0304	282769	carbide

SHELL TYPE POINT



Part No.	EDP No.	Material of measuring face
6282-0201	282753	steel

SPHERICAL POINT



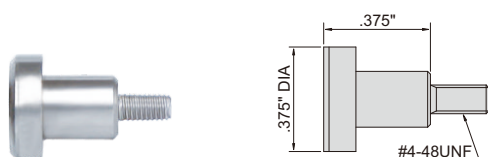
Part No.	EDP No.	Material of measuring face
6282-0402	282764	steel

CONICAL POINT



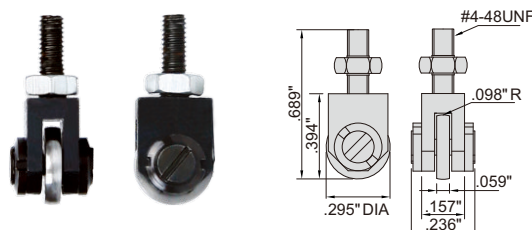
Part No.	EDP No.	Material of measuring face
6282-0702	282778	steel

FLAT POINT



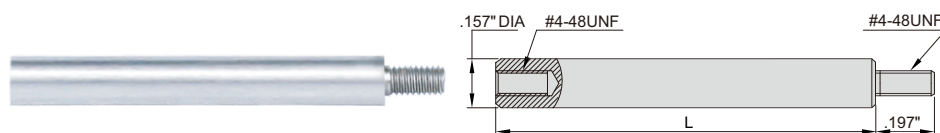
Part No.	EDP No.	Material of measuring face
6282-1207	282795	steel

ROLLER POINT



Part No.	EDP No.	Material of measuring face
6282-1902	282827	steel

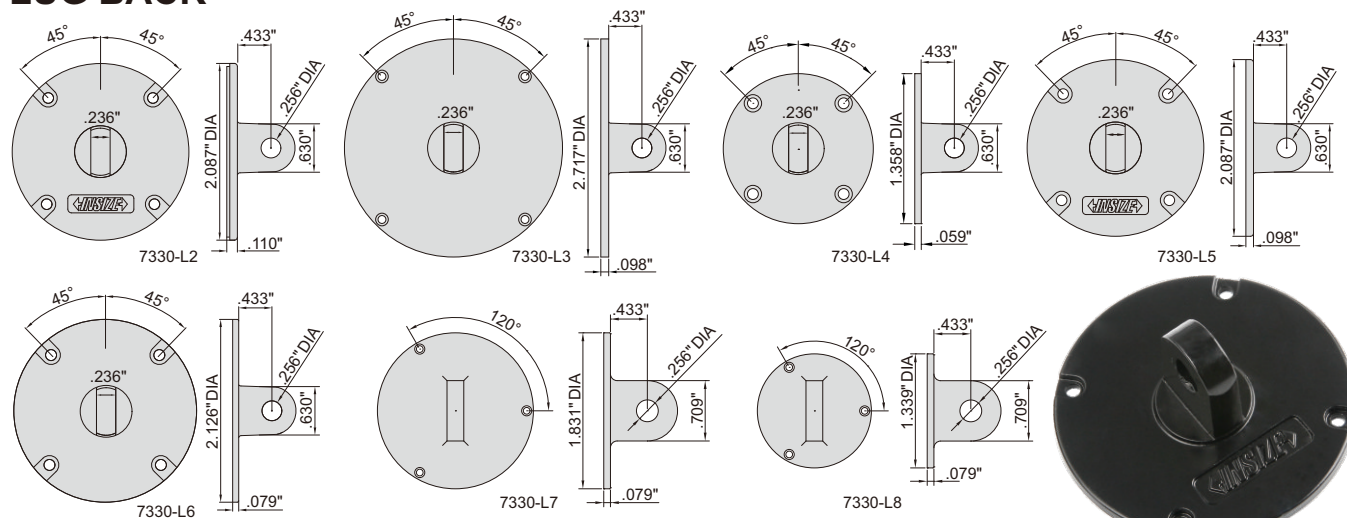
EXTENSION ROD



6282-2018

Part No.	EDP No.	Material	L
6282-2018	282823	steel	1"
6282-2019	282824	steel	2"
6282-2020	282825	steel	4"

LUG BACK

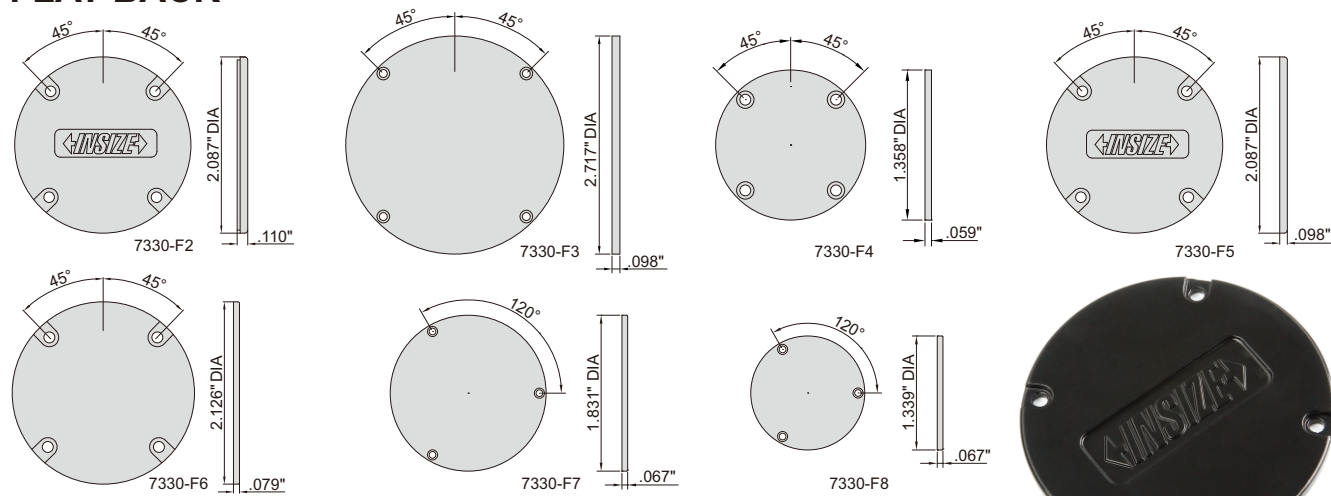


Part No.	EDP No.	For electronic/dial indicators
7330-L2	282850	2315
7330-L3	282851	2326-3
		2326-4
7330-L4	816645	2304
7330-L5	816431	2103
		2104
		2112

Part No.	EDP No.	For electronic/dial indicators
7330-L5	816431	2113
		2115
7330-L6	877058	2307
		2326-2
7330-L7	816646	2837
7330-L8	816647	2832



FLAT BACK

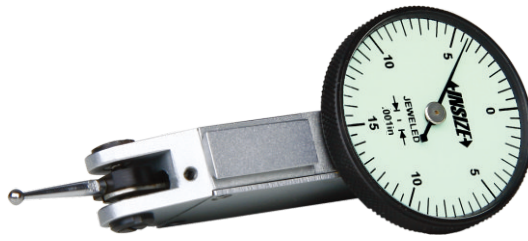


Part No.	EDP No.	For electronic/dial indicators
7330-F2	282853	2315
7330-F3	282854	2326-3
		2326-4
7330-F4	889333	2304
7330-F5	877054	2103
		2104
		2112

Part No.	EDP No.	For electronic/dial indicators
7330-F5	877054	2113
		2115
7330-F6	877056	2307
		2326-2
7330-F7	816648	2837
7330-F8	816649	2832

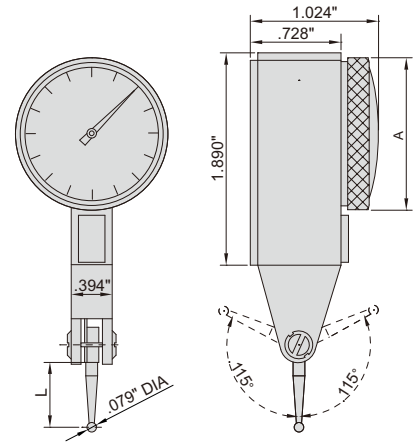


DIAL TEST INDICATOR



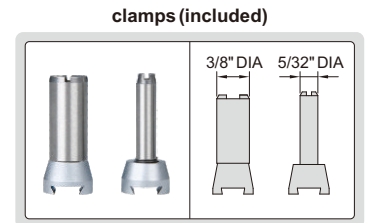
2380-31

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



Part No.	EDP No.	Range	Graduation	Accuracy	Dial reading	A	L
2380-31*	282858	.03"	.001"	±.001"	0-15-0	1.181" DIA	.50"
2380-35*	816170	.03"	.0005"	±.0005"	0-15-0	1.181" DIA	.50"
2380-301*	816172	.008"	.0001"	±.0001"	0-40-0	1.181" DIA	.563"
2381-31*	282859	.03"	.001"	±.001"	0-15-0	1.457" DIA	.50"
2381-35*	282860	.03"	.0005"	±.0005"	0-15-0	1.457" DIA	.50"

* Supplied with manufacturer inspection certificate traceable to NIST USA

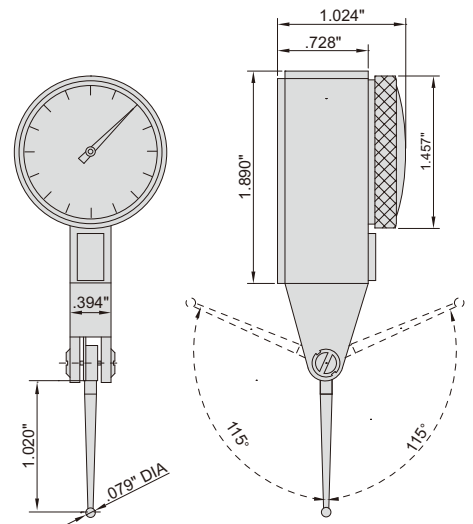


LONG STYLI DIAL TEST INDICATOR



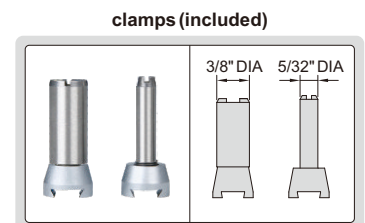
2383-35A

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



Part No.	EDP No.	Range	Graduation	Accuracy	Dial reading
2383-35A*	816372	.03"	.0005"	±.0005"	0-15-0

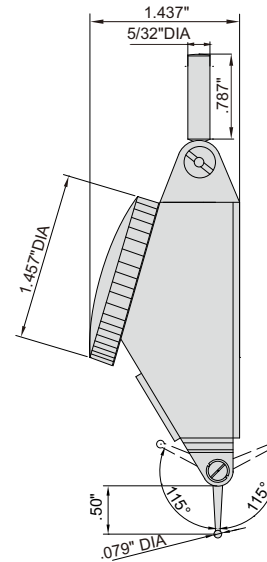
* Supplied with manufacturer inspection certificate traceable to NIST USA



LARGE RANGE DIAL TEST INDICATOR



2386-006A

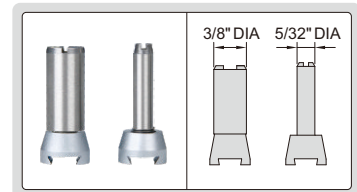


- Jeweled bearing
- Carbide contact point
- Two measuring directions
- Anti magnetic body
- Supplied with two clamps: 5/32" DIA and 3/8" DIA
- Optional accessory: styli

Part No.	EDP No.	Range	Graduation	Accuracy	Dial reading
2386-006A*	816174	.06"	.0005"	±.0008"	0-15-0

* Supplied with manufacturer inspection certificate traceable to NIST USA

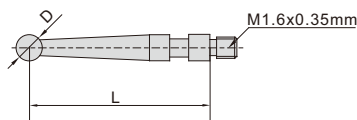
clamps (included)



STYLI FOR DIAL TEST INDICATORS



6284-10

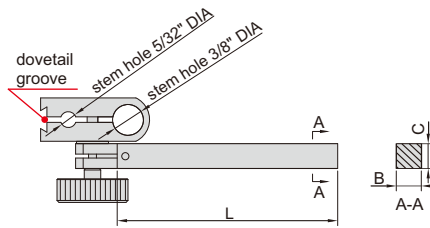


Part No.	EDP No.	For dial test indicator	Material of contact point	L	D
6284-9	876268	2380-31, 2380-35, 2381-31, 2381-35	steel	.50"	.039"DIA
6284-10	285265		carbide	.50"	.079"DIA
6284-11	816409		ruby	.50"	.079"DIA
6284-12	816410		carbide	.50"	.118"DIA
6284-13	816411	2380-301	steel	.563"	.039"DIA
6284-14	816412		carbide	.563"	.079"DIA
6284-15	816413		ruby	.563"	.079"DIA
6284-16	816414	2383-35A	carbide	.563"	.118"DIA
6284-17	816373		steel	1.020"	.039"DIA
6284-18	816374		carbide	1.020"	.079"DIA
6284-19	816375		ruby	1.020"	.079"DIA
6284-20	816376	2386-006A	carbide	1.020"	.118"DIA
6284-65	816377		steel	.50"	.039"DIA
6284-66	816378		carbide	.50"	.079"DIA
6284-67	816379		ruby	.50"	.079"DIA
6284-68	816380	2380-02, 2381-02	carbide	.50"	.118"DIA
6284-22	282870		carbide	12.5mm	SØ2mm

DIAL TEST INDICATOR HOLDER



6293-7



Part No.	EDP No.	Stem section (BxC)	Stem length (L)
6293-7	816416	.354x.354"	2"

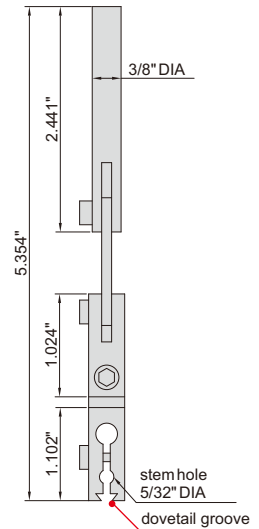
DIAL TEST INDICATOR HOLDER



6296-2

- Supplied with hex key

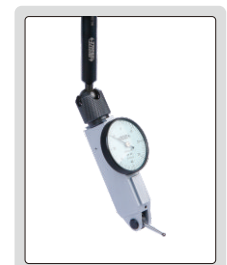
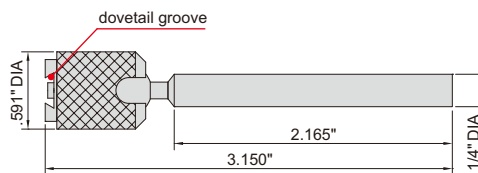
Part No.	EDP No.
6296-2	877030



DIAL TEST INDICATOR UNIVERSAL HOLDER



6293-5



Part No.	EDP No.
6293-5	282880

- Set the indicators at the desired attitude to the workpiece

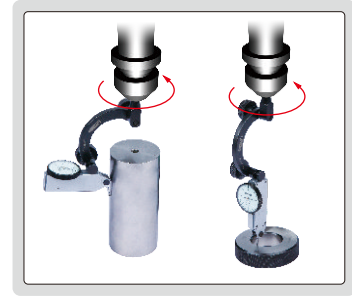
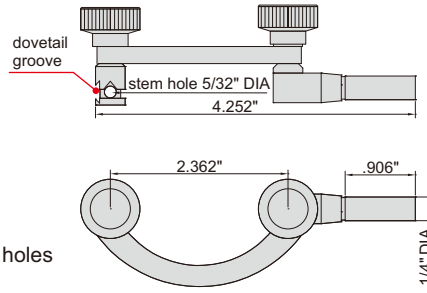
DIAL TEST INDICATOR CENTERING HOLDER



6291-2

Part No.	EDP No.
6291-2	282875

- Center cylinders or holes on machine tools



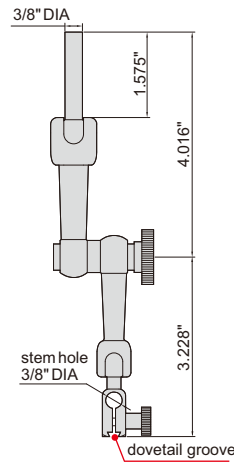
DIAL TEST INDICATOR CENTERING HOLDER



6295-1AE

Part No.	EDP No.
6295-1AE	284452

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

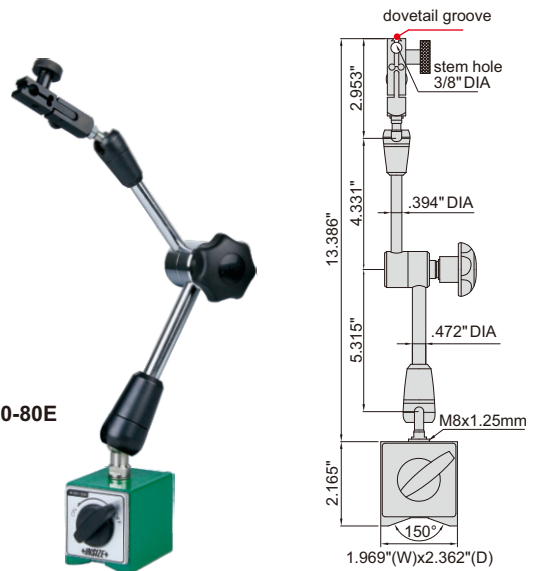


UNIVERSAL MAGNETIC STAND (HEAVY DUTY)

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

Part No.	EDP No.	Magnetic force	Applicable holding stem
6210-80E	877028	176lbf	3/8" DIA

6210-80E

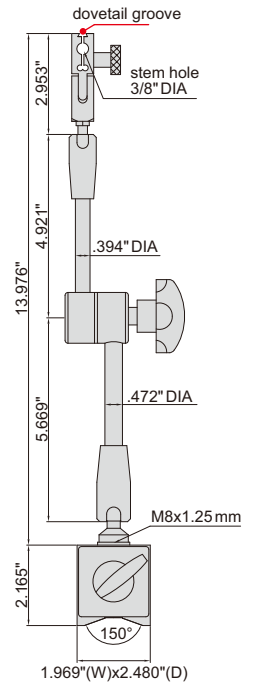


UNIVERSAL MAGNETIC STAND

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



6208-80E

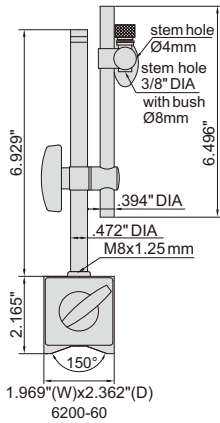


Part No.	EDP No.	Magnetic force	Applicable holding stem
6208-80E	816256	176lbf	3/8" DIA

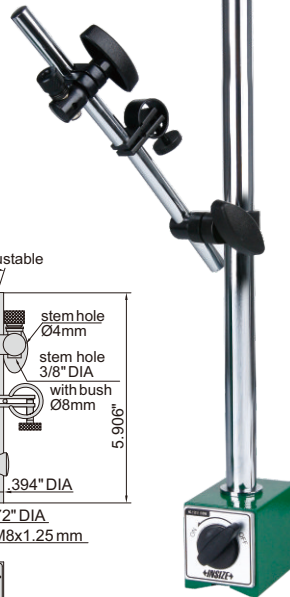
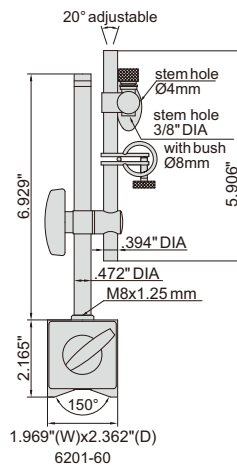
MAGNETIC STAND



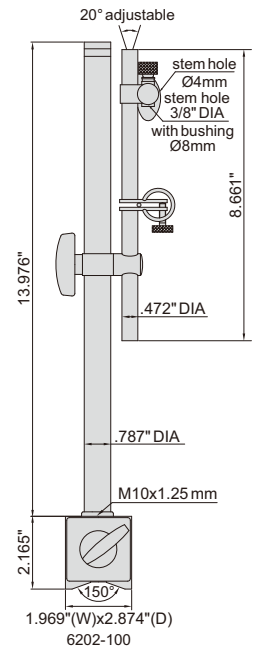
6200-60



6201-60



6202-100



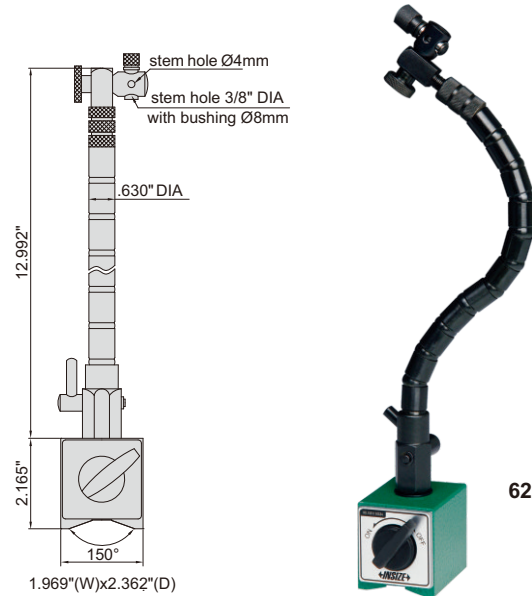
Part No.	EDP No.	Magnetic force	Applicable holding stem	Remark
6200-60	816250	132lbf	3/8" DIA, Ø8mm, Ø4mm	without fine adjustment
6201-60	816252	132lbf	3/8" DIA, Ø8mm, Ø4mm	with fine adjustment
6202-100	816254	220lbf	3/8" DIA, Ø8mm, Ø4mm	with fine adjustment

- For electronic/dial indicators and dial test indicators

FLEX ARM MAGNETIC STAND

- For dial test indicators

Part No.	EDP No.	Magnetic force	Applicable holding stem
6207-80A	282892	176lbf	3/8" DIA, Ø8mm, Ø4mm

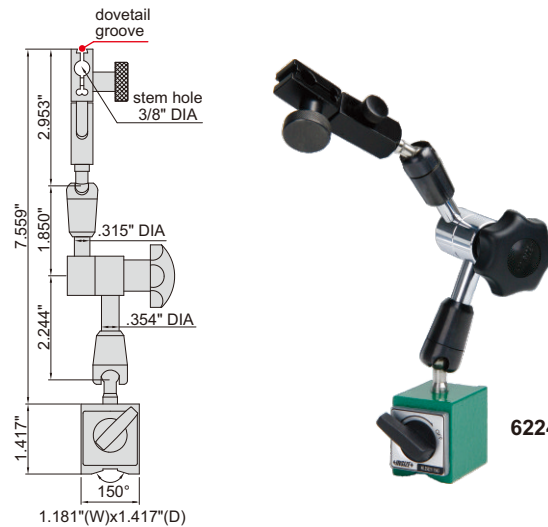


6207-80A

MINI MAGNETIC STAND

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

Part No.	EDP No.	Magnetic force	Applicable holding stem
6224-40E	816650	88lbf	3/8" DIA

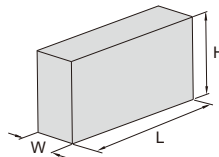


6224-40E

STEEL GAGE BLOCK SET

Dimension:

Size (L)	W	H
$.02 \leq L \leq .394$ "	.354"	1.181"
$L > .394$ "	.354"	1.378"



Blocks per set	Blocks included in set			Part No.	EDP No.
	Size (inch)	Step (inch)	Quantity		
81	.1001 - .1009	.0001	9	4102-81	283260
	.101 - .149	.001	49		
	.05 - .95	.05	19		
	1 - 4	1	4		



4102-81

- Made of alloy steel
- Meet ASME B89.1.9
- Supplied with manufacturer inspection certificate

AMERICAN STANDARD THREAD PLUG GAGE

- Supplied with Go and No-Go end
- Class 2B
- Standard ANSI B1.2



4131-1B1

Part No.	EDP No.	Size
4131-41*	816651	4-40UNC
4131-61*	816652	6-32UNC
4131-81*	816653	8-32UNC
4131-102*	816654	10-32UNF
4131-1B1*	816655	1/4-20UNC
4131-1B2*	816656	1/4-28UNF

Part No.	EDP No.	Size
4131-5D1*	816657	5/16-18UNC
4131-5D2*	816658	5/16-24UNF
4131-3C1*	816659	3/8-16UNC
4131-3C2*	816660	3/8-24UNF
4131-7D2*	816661	7/16-20UNF
4131-1A1*	816662	1/2-13UNC

Part No.	EDP No.	Size
4131-1A2*	816663	1/2-20UNF
4131-9D2*	816664	9/16-18UNF
4131-5C1*	816665	5/8-11UNC
4131-5C2*	816666	5/8-18UNF
4131-3B1*	816667	3/4-10UNC
4131-3B2*	816668	3/4-16UNF

* Supplied with manufacturer inspection certificate

NPT THREAD PLUG GAGE

- American tapered pipe thread for threads with sealant
- Standard ANSI / ASME B1.20.1
- Taper 1:16
- Material: OHNS (Oil Hardened Non-shrinking Steel), stable dimension and wear resistance
- Hardness HRC60-62



4644-1B18

Part No.	EDP No.	Size
4644-1D27*	816669	1/16x27NPT
4644-1C27*	816670	1/8x27NPT
4644-1B18*	816671	1/4x18NPT
4644-3C18*	816672	3/8x18NPT

Part No.	EDP No.	Size
4644-1A14*	816673	1/2x14NPT
4644-3B14*	816674	3/4x14NPT
4644-112*	816675	1x11.5NPT
4644-1G12*	816676	1-1/4x11.5NPT

Part No.	EDP No.	Size
4644-1H12*	816677	1-1/2x11.5NPT
4644-212*	816678	2x11.5NPT
4644-1J8*	816679	2-1/2x8NPT

* Supplied with manufacturer inspection certificate

METRIC THREAD PLUG GAGE

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



4130-10

Part No.	EDP No.	Size (mm)
4130-2*	284053	M2x0.4
4130-2D2*	284054	M2.2x0.45
4130-2D5*	284055	M2.5x0.45
4130-3*	284056	M3x0.5
4130-3D5*	284057	M3.5x0.6
4130-4*	284058	M4x0.7
4130-5*	284059	M5x0.8
4130-6*	284060	M6x1

Part No.	EDP No.	Size (mm)
4130-7*	816680	M7x1
4130-8*	284061	M8x1.25
4130-9*	816681	M9x1.25
4130-10*	284062	M10x1.5
4130-11*	816682	M11x1.5
4130-12*	284063	M12x1.75
4130-14*	284064	M14x2
4130-16*	284065	M16x2

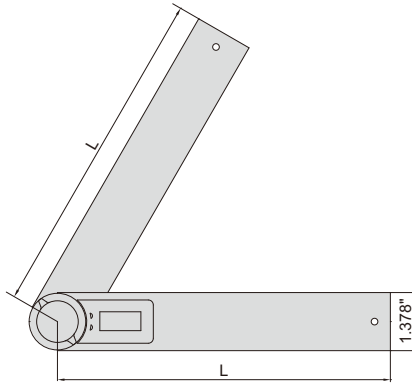
Part No.	EDP No.	Size (mm)
4130-18*	284066	M18x2.5
4130-20*	284067	M20x2.5
4130-22*	284068	M22x2.5
4130-24*	284069	M24x3
4130-27*	284070	M27x3
4130-30*	284071	M30x3.5
4130-33*	284072	M33x3.5
4130-36*	284073	M36x4

Part No.	EDP No.	Size (mm)
4130-39*	284074	M39x4
4130-42*	284075	M42x4.5
4130-45*	284076	M45x4.5
4130-48*	284077	M48x5
4130-52*	284078	M52x5
4130-56*	284079	M56x5.5
4130-60*	284080	M60x5.5

* Supplied with manufacturer inspection certificate

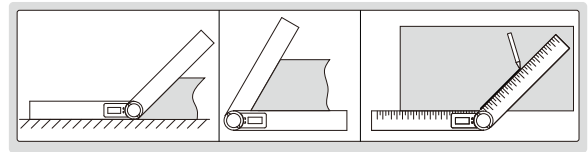
ELECTRONIC PROTRACTOR

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



2176-200

Part No.	EDP No.	Size (L)	Range	Resolution	Accuracy
2176-200	877018	8"	0-360°	0.1°	±0.3°



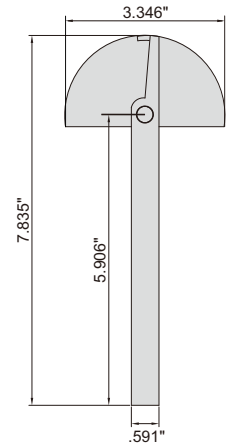
PROTRACTOR



4780-85

Part No.	EDP No.	Range	Graduation	Accuracy
4780-85	283328	0-180°	1°	±0.3°

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



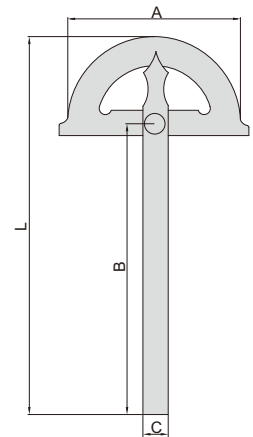
PROTRACTOR

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



4799-1120

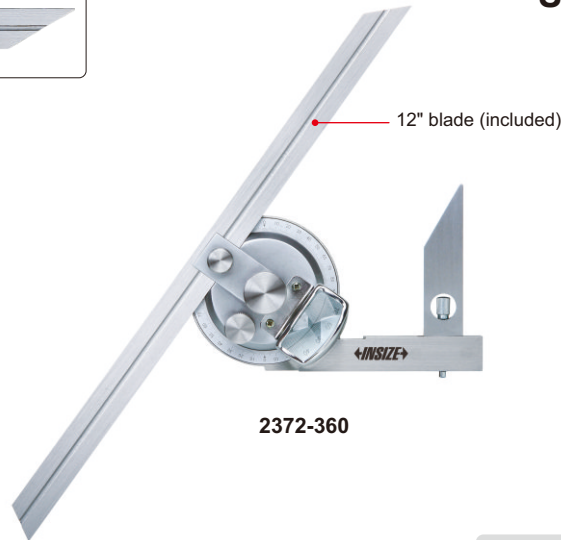
Part No.	EDP No.	Size (AxB)	Range	Graduation	Accuracy	L	C
4799-1120	283330	4.7x5.9"	0-180°	1°	±0.3°	8.661"	.551"



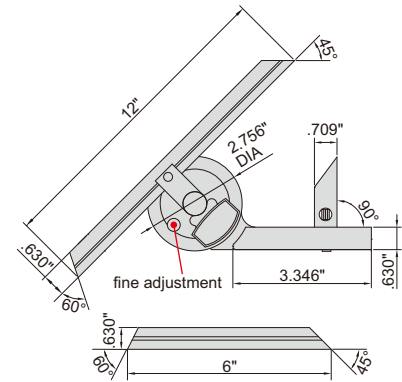
UNIVERSAL PROTRACTOR



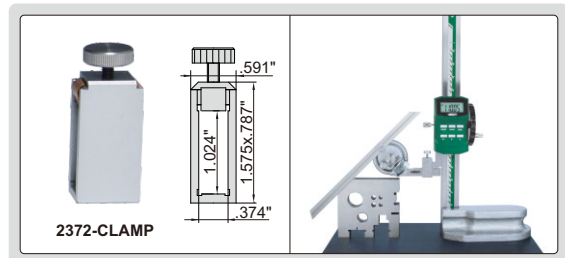
6" blade (included)



2372-360



clamp for height gages (optional)



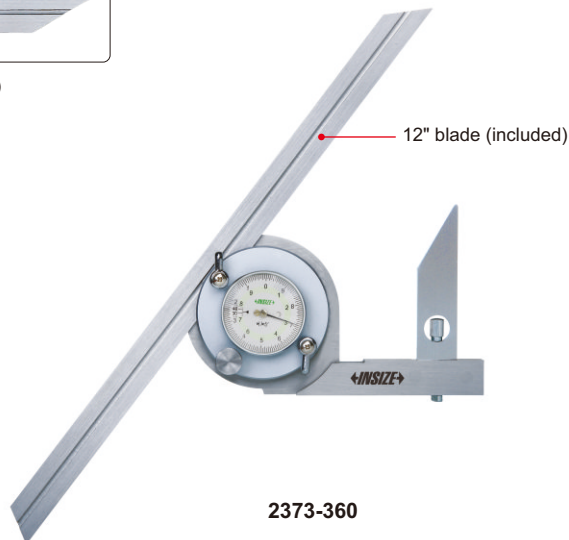
- Parallax-free reading
- Made of stainless steel
- Optional accessory: clamp (part no. **2372-CLAMP**), suitable for height gages **1156, 1151, 1351** and **1250**

Part No.	EDP No.	Range	Graduation	Accuracy
2372-360	283341	0-360°	5'	±5'

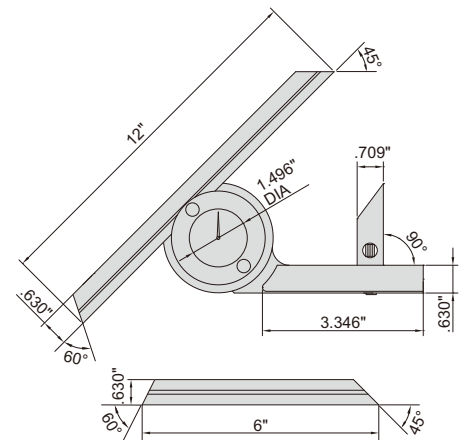
DIAL PROTRACTOR



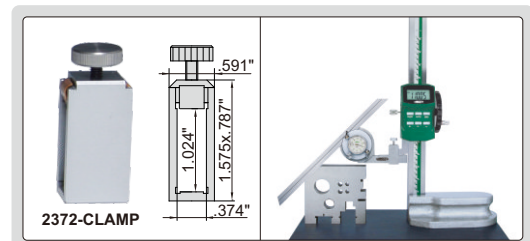
6" blade (included)



2373-360



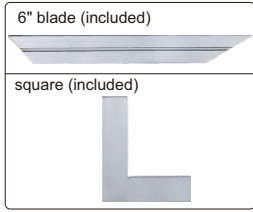
clamp for height gages (optional)



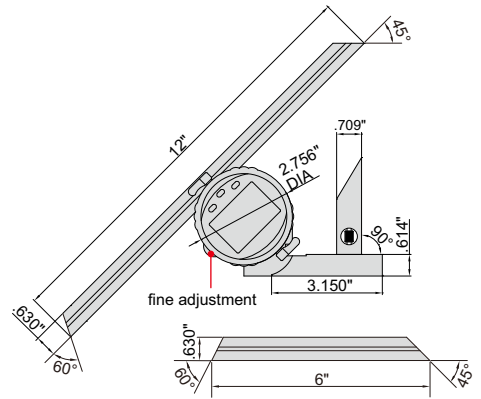
- Made of stainless steel
- Optional accessory: clamp (part no. **2372-CLAMP**), suitable for height gages **1156, 1151, 1351** and **1250**

Part No.	EDP No.	Range	Graduation	Accuracy
2373-360	283342	0-360°	5'	±5'

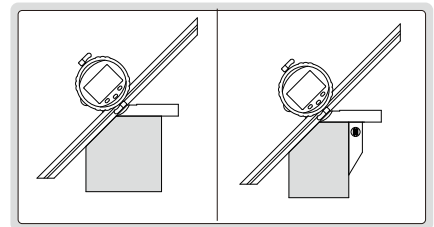
ELECTRONIC PROTRACTOR



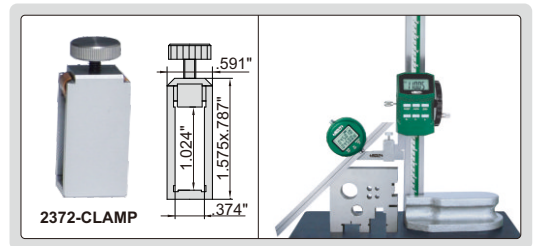
2172-360A



- Display in degree (for example 32.655°) and degree/minute/second (for example 32°39'30")
- SET button: preset the reading, change measuring direction
- MODE button: choose 0-90°, 0-180° or 0-360° display
- ZERO/ON/OFF button: zero and power on/off
- Battery CR2032, automatic power off
- Data output
- Supplied with square to set 90°
- Made of stainless steel
- Optional accessory: data output cable (part no. 7305-SPC1A), clamp (part no. 2372-CLAMP), suitable for height gages 1156, 1151, 1351 and 1250



clamp for height gages (optional)

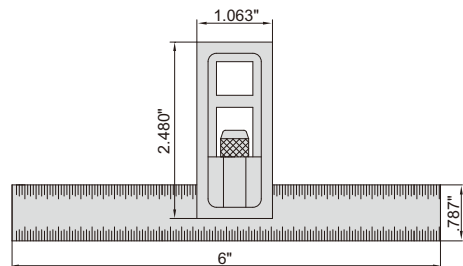


Part No.	EDP No.	Range	Resolution	Accuracy
2172-360A	283343	0 - 360°	10"/0.005°	±5'

DOUBLE SQUARE



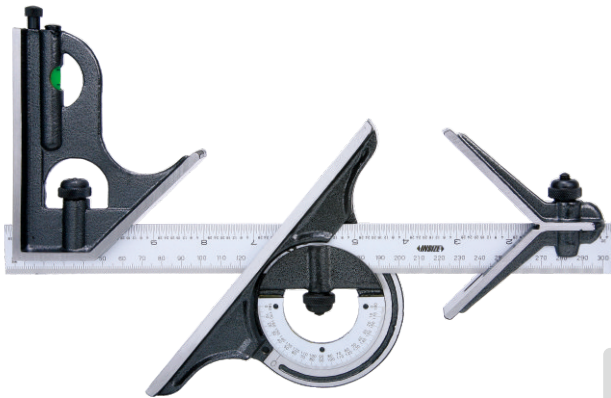
2277-2



- Accuracy: ±2min for 90° square
- Hardened and chrome plated blade

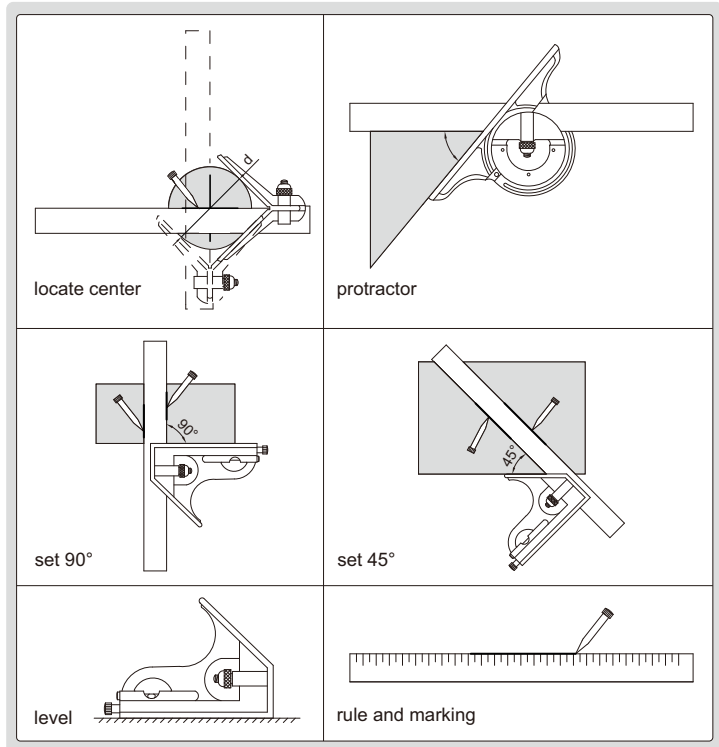
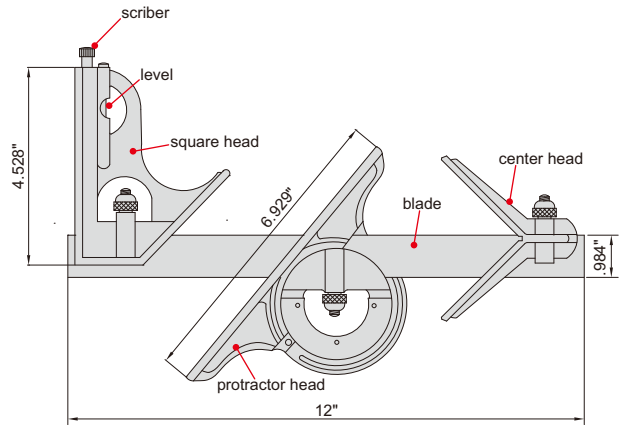
Part No.	EDP No.	Blade Length	Graduation
2277-2	283348	6"	1/8", 1/16", 1/32", 1/64"

COMBINATION SQUARE SET



2278-180

- Center head:
To locate center of cylinder with diameter (d): 1.181" DIA-3.937" DIA
Accuracy: ±.006"
- Protractor head:
To set the blade at desired angle to an edge of a workpiece, and can be used to measure angles
Range: 0-180°
Accuracy: ±7min.
- Square head:
To set the blade at 90° or 45° to an edge of a workpiece
Accuracy: ±8min for 90° square, ±10min for 45° square
- Optional accessory: rigid rule (part no. 7113)

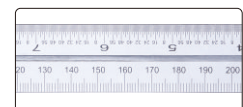
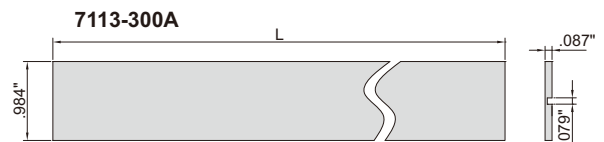


Part No.	EDP No.	Blade Range	Blade Graduation
2278-180	816324	12"/300mm	1/32" and 0.5mm on front face, 1/64" and 1mm on back face
2278-180E	283344	12"	1/8" and 1/16" on front face, 1/32" and 1/64" on back face

RIGID RULE



- Rigid rules
- With groove on the back, suitable for combination square set (part no. 2278-180 and 2278-180E)
- Satin chrome plated



groove on the back

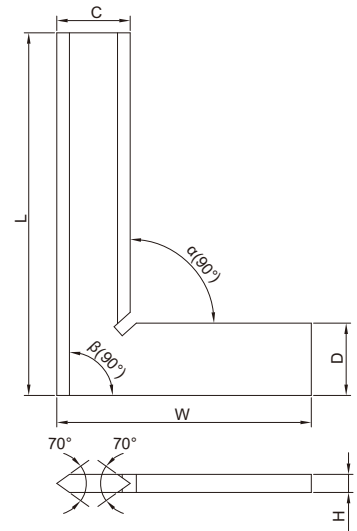
Part No.	EDP No.	Range	Graduation		Accuracy	L
			front	back		
7113-300A	283606	12"/300mm	1/32" and 0.5mm	1/64" and 1mm	±.006"	12"

90° BEVELED EDGE SQUARE



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

4790-0100



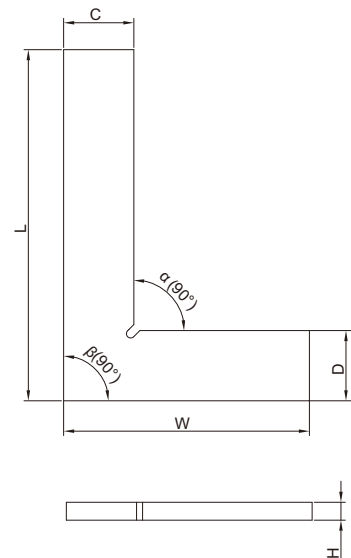
DIN875 grade 00

Part No.	EDP No.	Size (LxW)	Squareness		C	D	H
			Inside (α)	Outside (β)			
4790-050	816300	2.0x1.6"	94 μ in	98 μ in	.512"	.512"	.157"
4790-075	816302	3.0x2.0"	102 μ in	110 μ in	.591"	.591"	.157"
4790-0100	816304	3.9x2.8"	110 μ in	118 μ in	.787"	.787"	.197"
4790-0150	816306	5.9x3.9"	126 μ in	138 μ in	1.181"	1.181"	.236"
4790-0200	816308	7.9x5.1"	146 μ in	157 μ in	1.339"	1.339"	.276"
4790-0300	816310	11.8x7.9"	181 μ in	197 μ in	1.575"	1.575"	.315"

90° FLAT EDGE SQUARE



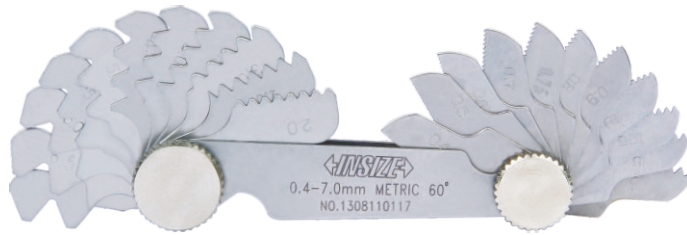
4791-100



Part No.	EDP No.	Size (LxW)	Squareness		C	D	H
			Inside (α)	Outside (β)			
4791-100	816316	3.9x2.8"	276 μ in	276 μ in	.787"	.787"	.197"
4791-150	816318	5.9x3.9"	276 μ in	315 μ in	1.181"	1.181"	.236"

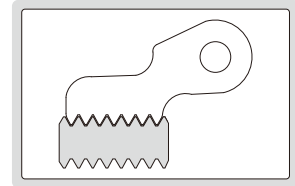
- DIN875 grade 0
- Made of hardened stainless steel

PITCH GAGE



4820-122

- Check the pitch of screw thread
- Made of medium carbon steel



Unified 60° screw, accuracy: $\pm 0.0028''$

Part No.	EDP No.	Range	Pitch of leaves included	Quantity of leaves
4820-230	283552	4-42TPI	4, 4-1/2, 5, 5-1/2, 6, 7, 8, 9, 10, 11, 11-1/2, 12, 13, 14, 15, 16, 18, 20, 22, 24, 26, 27, 28, 30, 32, 34, 36, 38, 40, 42TPI	30

Metric 60° screw, accuracy: $\pm 0.0028''$

Part No.	EDP No.	Range	Pitch of leaves included	Quantity of leaves
4820-124	283551	0.25-7.0mm	0.25, 0.3, 0.35, 0.4, 0.5, 0.7, 0.75, 0.8, 0.9, 1, 1.25, 1.5, 1.75, 2, 2.5, 3, 3.5, 4, 4.5, 5, 5.5, 6, 6.5, 7mm	24

Metric 60° and Unified 60° screw, accuracy: $\pm 0.07\text{mm}$

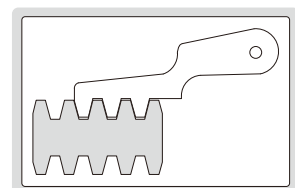
Part No.	EDP No.	Range	Pitch of leaves included	Quantity of leaves
4820-552	816695	0.4-7.0mm	0.4, 0.5, 0.6, 0.7, 0.75, 0.8, 0.9, 1, 1.25, 1.5, 1.75, 2, 2.5, 3, 3.5, 4, 4.5, 5, 5.5, 6, 6.5, 7mm	52
		4-42TPI	4, 4-1/2, 5, 5-1/2, 6, 7, 8, 9, 10, 11, 11-1/2, 12, 13, 14, 15, 16, 18, 20, 22, 24, 26, 27, 28, 30, 32, 34, 36, 38, 40, 42TPI	

PITCH GAGE



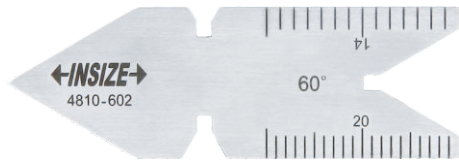
4824-12

- Check the pitch of screw thread
- Accuracy: $\pm 0.0028''$
- Made of medium carbon steel

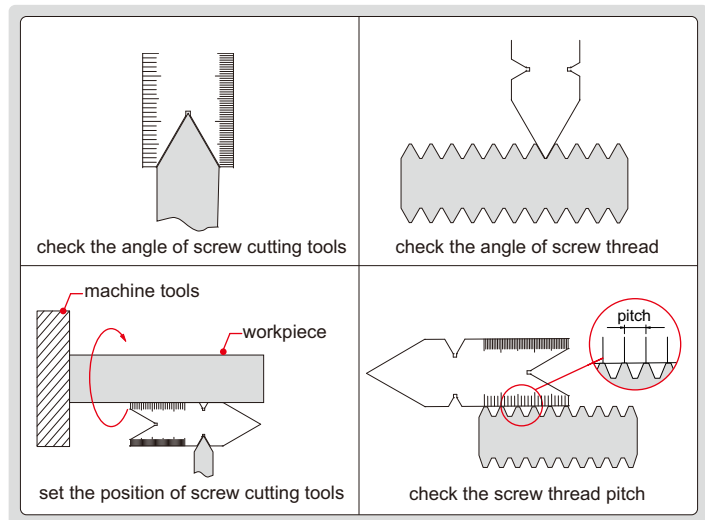
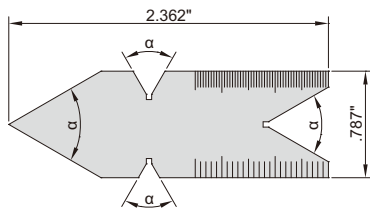


Part No.	EDP No.	Range	Thread type	Pitch of leaves included	Quantity of leaves
4824-16	283549	1-12TPI	ACME 29°	1, 1-1/3, 1-1/2, 1-3/4, 2, 2-1/2, 3, 3-1/2, 4, 5, 6, 7, 8, 9, 10, 12TPI	16
4824-12	283548	2-20mm	Tr 30°	2, 3, 4, 5, 6, 7, 8, 9, 10, 12, 16, 20mm	12

CENTER GAGE



4810-602



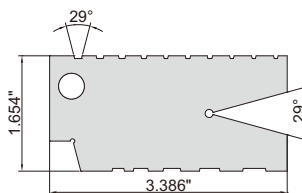
- To check and set screw cutting tools, and check the angle and pitch of screw thread
- Angle accuracy: ± 30 min.
- Made of stainless steel

Part No.	EDP No.	Thread type	Angle (α)	Graduation
4810-602	283560	UNIFIED 60°	60°	14ths and 20ths on front side, 24ths and 32ths on back side

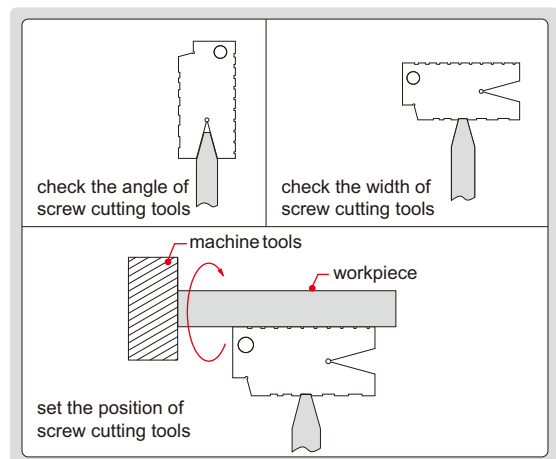
THREAD GAGE



4812-E

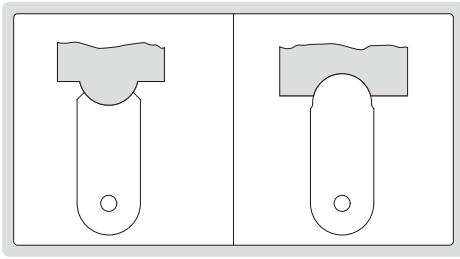


- To check and set screw cutting tools
- Angle accuracy: ± 10 min.
- Made of medium carbon steel



Part No.	EDP No.	Range	Thread type	Pitch
4812-E	283557	1-10TPI	ACME 29°	1, 1-1/3, 1-1/2, 1-3/4, 2, 2-1/2, 3, 4, 5, 6, 7, 8, 9, 10TPI

RADIUS GAGE



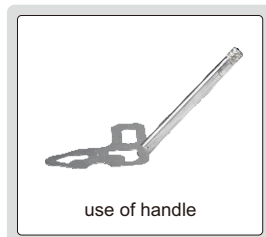
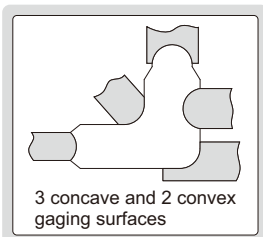
4801-15E

- Made of medium carbon steel

Part No.	EDP No.	Range	Radius of leaves included	Quantity of leaves (internal + external)	Accuracy
4801-15E	283567	1/32" - 1/4"	1/32", 3/64", 1/16", 5/64", 3/32", 7/64", 1/8", 9/64", 5/32", 11/64", 3/16", 13/64", 7/32", 15/64", 1/4"	15+15	±.0012"
4801-16E	283568	17/64" - 1/2"	17/64", 9/32", 19/64", 5/16", 21/64", 11/32", 23/64", 3/8", 25/64", 13/32", 27/64", 7/16", 29/64", 15/32", 31/64", 1/2"	16+16	±.0014"

RADIUS GAGE SET

- Each piece has 3 concave and 2 convex gaging surfaces
- Supplied with handle
- Made of medium carbon steel



4804-26

Part No.	EDP No.	Range	Radius of leaves included	Quantity Of leaves	Accuracy	Handle
4804-25E	816198	1/64" - 1/2"	1/64", 1/32", 3/64", 1/16", 5/64", 3/32", 7/64", 1/8", 9/64", 5/32", 11/64", 3/16", 13/64", 7/32", 15/64", 1/4", 17/64", 9/32", 5/16", 11/32", 3/8", 13/32", 7/16", 15/32", 1/2"	25	±.002"	with
4804-8E	816200	9/16" - 1"	9/16", 5/8", 11/16", 3/4", 13/16", 7/8", 15/16", 1"	8	±.0025"	without
4804-26	816196	0.5 - 13mm	0.5, 1, 1.5, 2, 2.5, 3, 3.5, 4, 4.5, 5, 5.5, 6, 6.5, 7, 7.5, 8, 8.5, 9, 9.5, 10, 10.5, 11, 11.5, 12, 12.5, 13mm	26	±0.05mm	with

ANGLE GAGE SET

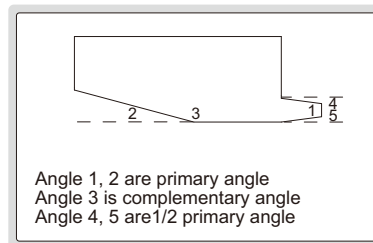
- Each blade checks primary, 1/2 primary and complementary angles
- Made of medium carbon steel

Part No.	EDP No.	Quantity of leaves	Accuracy
4807	816602	18	±10'

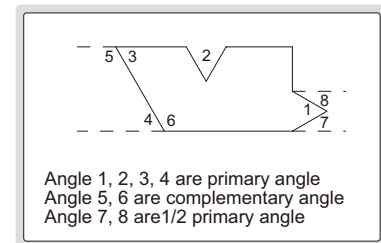
Primary angle	½ primary angle	Complementary angle	Type
5°	2°30'	175°	A
10°	5°	170°	A
15°	7°30'	165°	A
20°	10°	160°	B
25°	12°30'	155°	B
30°	15°	150°	B
35°	17°30'	145°	B
40°	20°	140°	B
45°	22°30'	135°	B
50°	25°	130°	B
55°	27°30'	125°	B
60°	30°	120°	B
65°	32°30'	115°	B
70°	35°	110°	B
75°	37°30'	105°	B
80°	40°	100°	B
85°	42°30'	95°	B
90°	45°	90°	B



4807



type A

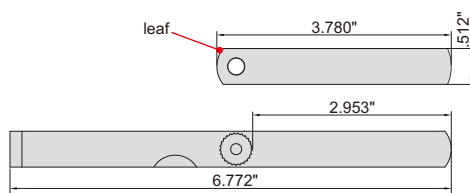


type B

FEELER GAGE



4608-31



Part No.	EDP No.	Range	Quantity of leaves
4608-31	283543	.0015" ~ .035"	32

- .010" is made of brass, others are made of hardened alloy steel
- Each blade is marked with inch/metric size

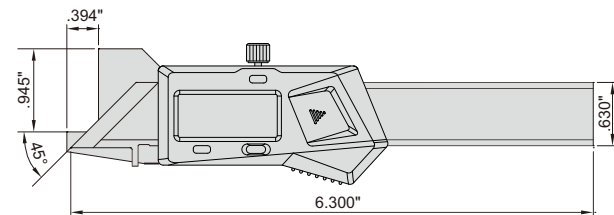
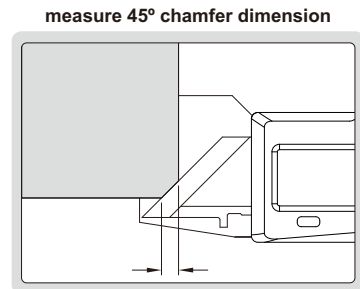
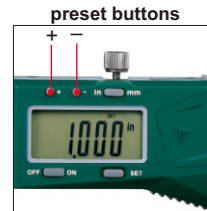
Thickness of leaves included	Accuracy
.010" (brass)	±.00039"
.0015", .002"	±.0002"
.0025", .003", .004", .005", .006", .007"	±.00028"
.008", .009"	±.00035"
.010", .011"	±.00039"
.012", .013"	±.00047"
.014", .015"	±.00051"
.016", .017"	±.00055"
.018", .019"	±.00059"
.020", .021"	±.00067"
.022", .023"	±.00071"
.024", .025", .026"	±.00075"
.028"	±.00091"
.030"	±.00094"
.032", .035"	±.00102"

ELECTRONIC CHAMFER GAGE



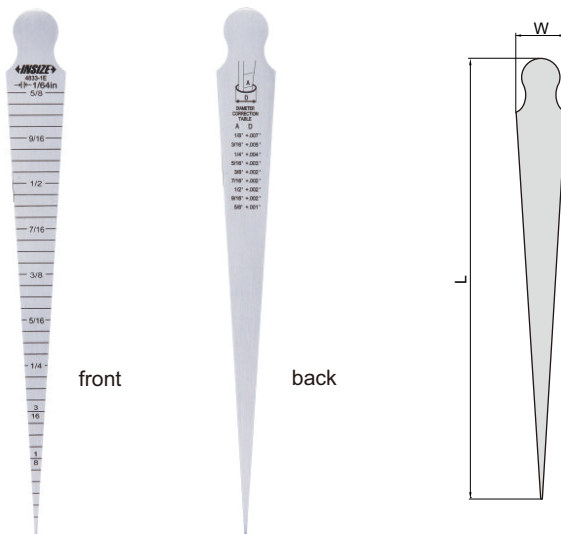
1180-6

- Measure 45° chamfer dimension
- Resolution: .0005"/0.01mm
- Buttons: on/off, set, inch/mm, preset (+, -)
- Automatic power off, move the digital unit to turn on power
- Battery CR2032
- Data output
- Made of stainless steel
- Optional accessory: data output cable (part no. 7306-20, 7302-SPC5A/SPC5B, 7305-SPC2A)



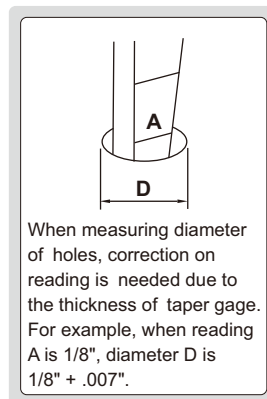
Part No.	EDP No.	Range	Accuracy
1180-6	816370	0-.24"/0-6mm	±.0025"

TAPER GAGE

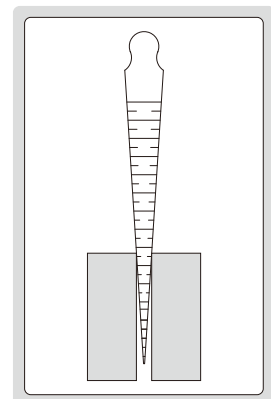


4833-1E

measure diameter of hole



measure slot width



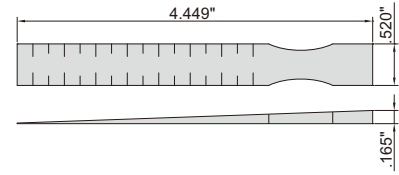
Part No.	EDP No.	Range	Graduation	Accuracy	L	W
4833-1E	285112	1/32-5/8"	1/64"	±.004"	5.748"	.669"

- Measure opening, slot width, hole diameter, etc.
- Diameter correction table on the back
- Made of stainless steel

TAPER GAGE

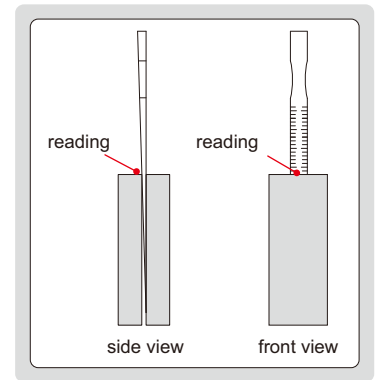


4630-1E

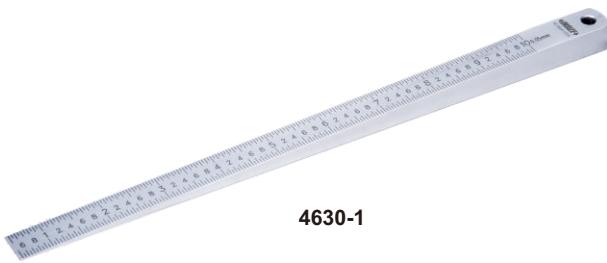


- For quick measurement of gap width
- Stain chrome plated reading surface
- Made of stainless steel

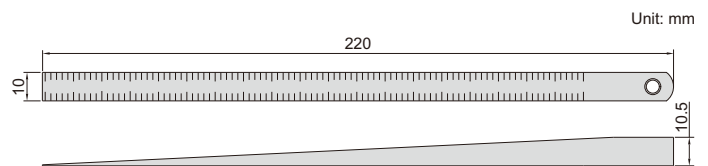
Part No.	EDP No.	Range	Graduation	Accuracy
4630-1E	283577	.01" - .15"	.001"	±.003"



TAPER GAGE

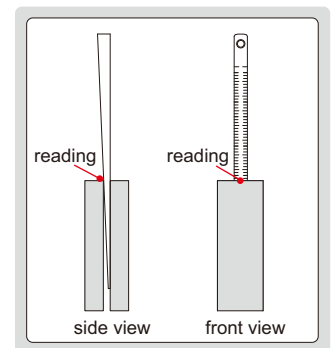


4630-1

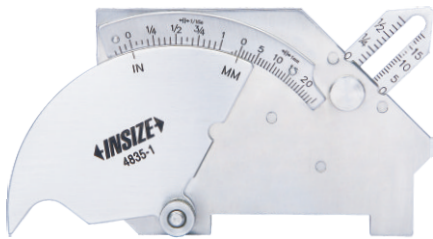


- For quick measurement of gap width
- Stain chrome plated reading surface
- Made of stainless steel

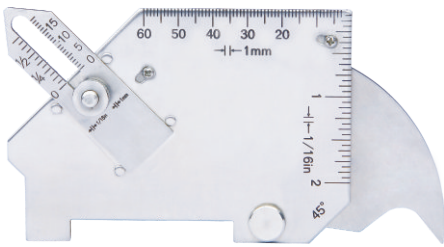
Part No.	EDP No.	Range	Graduation	Accuracy
4630-1	283576	0.5 - 10mm	0.05mm	±0.07mm



WELDING GAGE

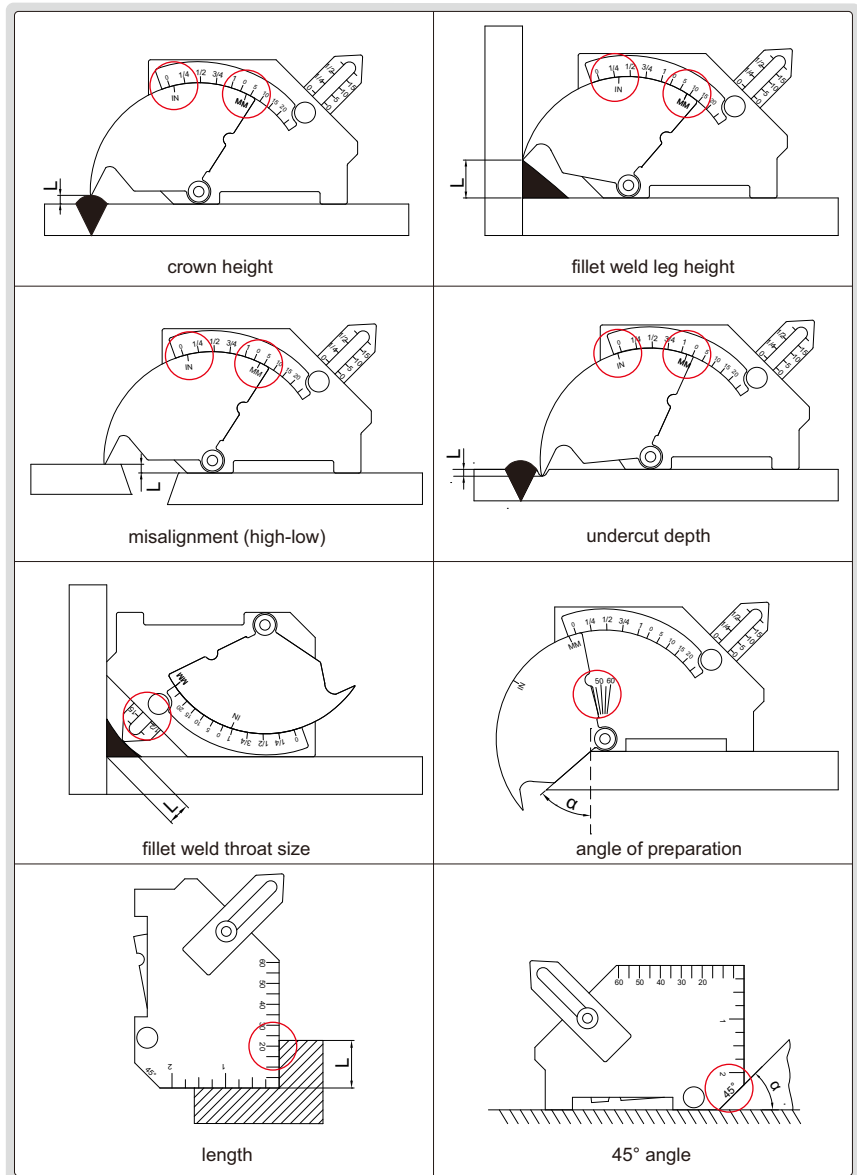


front



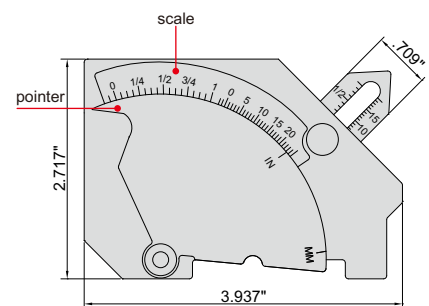
back

4835-1



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

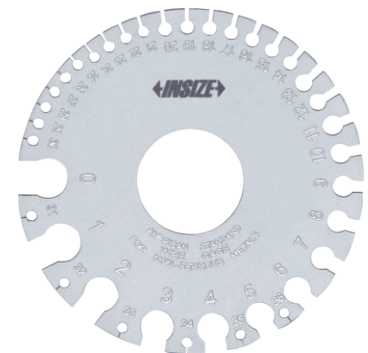
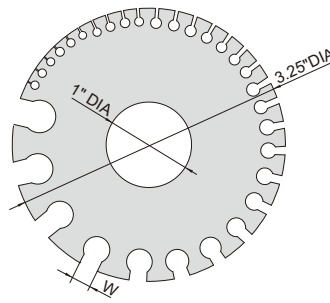
Part No.	EDP No.	Measurement	Range	Graduation	Accuracy
4835-1	877031	crown height	0 - 1" (0 - 25mm)	1/16" (1mm)	±.02"
		fillet weld leg height	0 - 1" (0 - 25mm)	1/16" (1mm)	±.02"
		misalignment (high-low)	0 - 1" (0 - 25mm)	1/16" (1mm)	±.02"
		undercut depth	0 - 1/8" (0 - 2mm)	1/16" (1mm)	±.02"
		fillet weld throat size	0 - 3/4" (0 - 20mm)	1/16" (1mm)	±.02"
		angle of preparation	0 - 60°	5°	±1°
		length	0 - 2" (0 - 60mm)	1/16" (1mm)	±.02"
		45° angle	—	—	±1°



WIRE GAGE

- For gaging non-ferrous wire and metals such as copper, brass and aluminum
- Hardened and satin chrome finish

No.	W	No.	W	No.	W	No.	W	No.	W
0	.325"	8	.128"	16	.051"	24	.020"	32	.008"
1	.289"	9	.114"	17	.045"	25	.018"	33	.007"
2	.257"	10	.102"	18	.040"	26	.016"	34	.0063"
3	.229"	11	.091"	19	.036"	27	.014"	35	.0056"
4	.204"	12	.081"	20	.032"	28	.012"	36	.005"
5	.182"	13	.072"	21	.028"	29	.011"		
6	.162"	14	.064"	22	.025"	30	.010"		
7	.144"	15	.057"	23	.022"	31	.009"		



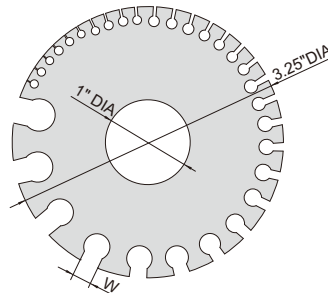
4808

Part No.	EDP No.	Range	Accuracy
4808	283574	0-36 (.3125-.007")	+0.002/-0.0015"

SHEET METAL GAGE

- For gaging sheet metal, plate iron and steel
- Hardened and satin chrome finish

No.	W	No.	W	No.	W	No.	W	No.	W
0	.3125"	8	.172"	16	.0625"	24	.025"	32	.010"
1	.281"	9	.156"	17	.056"	25	.0218"	33	.0093"
2	.265"	10	.140"	18	.050"	26	.0187"	34	.0085"
3	.250"	11	.125"	19	.0437"	27	.017"	35	.0076"
4	.234"	12	.109"	20	.0375"	28	.0156"	36	.007"
5	.2187"	13	.0937"	21	.0343"	29	.014"		
6	.203"	14	.078"	22	.0312"	30	.0125"		
7	.1875"	15	.070"	23	.028"	31	.0109"		



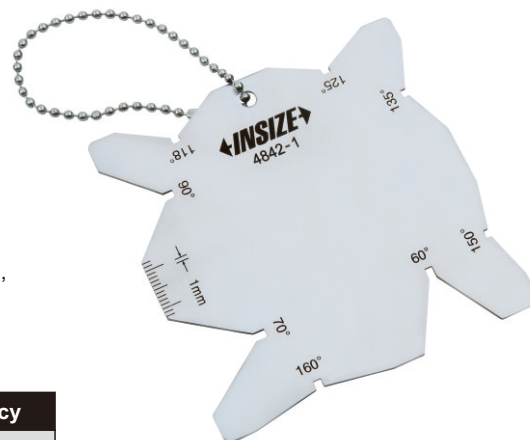
4809

Part No.	EDP No.	Range	Accuracy
4809	283575	0-36 (.3125-.007")	+0.002/-0.0015"

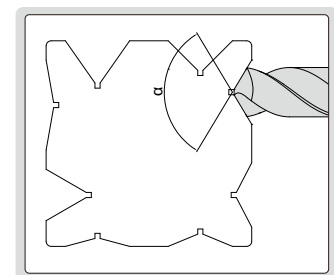
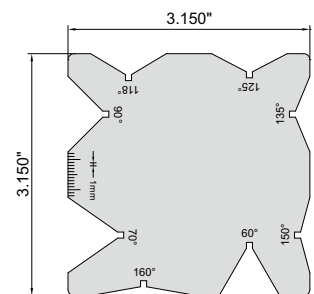
DRILL ANGLE GAGE

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

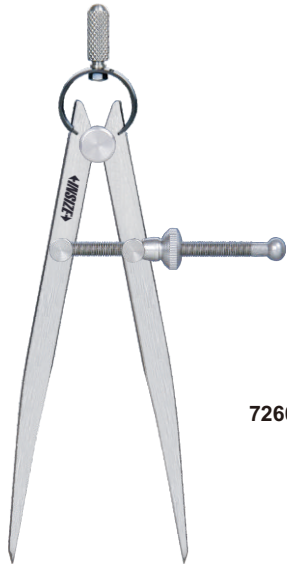
Part No.	EDP No.	Accuracy
4842-1	816683	±0.5°



4842-1



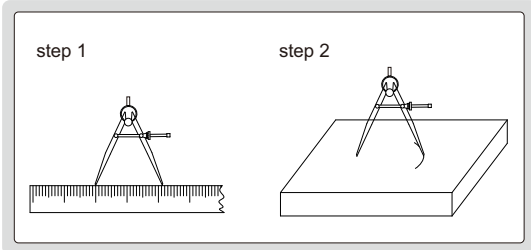
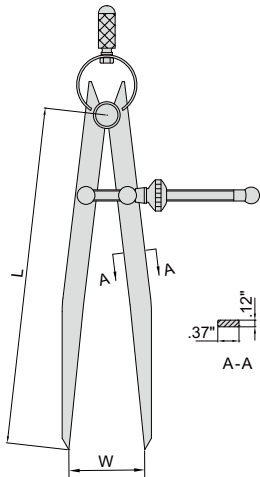
SPRING DIVIDER



7260-150

- Made of carbon steel
- Hardened points

Part No.	EDP No.	Size (L)	Range (W)
7260-150	283897	6"	0 - 5.91"
7260-200	816417	8"	0 - 8.27"
7260-250	816418	10"	0 - 10.24"
7260-300	816419	12"	0 - 12.60"



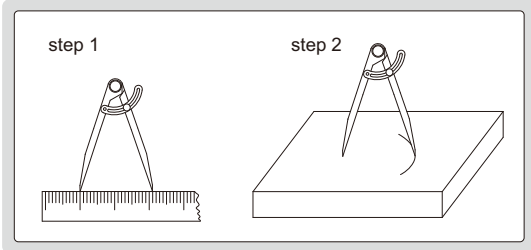
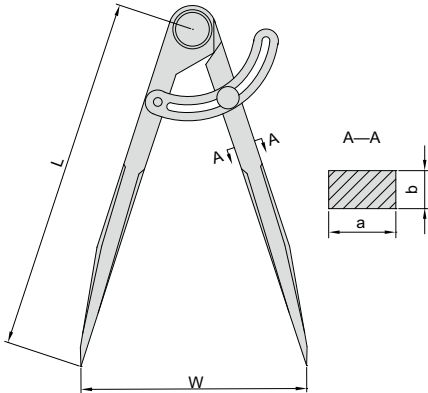
DIVIDER



7247-150

- Made of carbon steel
- Hardened points

Part No.	EDP No.	Size (L)	Range (W)	a	b
7247-150	283917	6"	0 - 5.51"	.33"	.28"
7247-200	283919	8"	0 - 7.48"	.39"	.28"
7247-300	283921	12"	0 - 11.42"	.47"	.28"

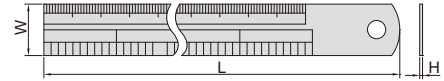


STEEL RULE



7110-300

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



Part No.	EDP No.	Range	Accuracy	L	W	H	Remark
7110-150	283596	6"/150mm	±.006"	6.693"	.709"	.039"	graduation on front and back
7110-200	283597	8"/200mm	±.006"	8.661"	.709"	.039"	graduation on front and back
7110-300	283598	12"/300mm	±.006"	12.992"	.984"	.039"	graduation on front and back
7110-3001	816384	12"/300mm	±.006"	12.795"	1.181"	.039"	graduation on front and back
7110-500	283599	20"/500mm	±.006"	20.866"	1.181"	.047"	graduation on front and back
7110-600	283600	24"/600mm	±.008"	24.803"	1.181"	.047"	graduation on front and back
7110-1000	283601	40"/1000mm	±.008"	40.945"	1.260"	.059"	graduation on front and back
7110-1200	283603	48"/1200mm	±.009"	48.819"	1.378"	.071"	graduation on front
7110-1500	283604	60"/1500mm	±.010"	61.024"	1.496"	.071"	graduation on front
7110-2000	283605	80"/2000mm	±.012"	81.299"	1.575"	.079"	graduation on front

SCRIBER

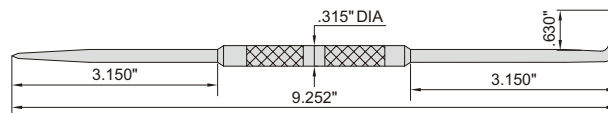


7230

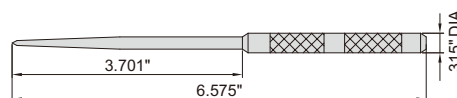


7231

- Nickel plated



7230



7231

Part No.	EDP No.	Tip
7230	283972	hardened tips
7231	283973	hardened tip

LONG DRIVE PIN PUNCH

- Made of tool steel, black oxide finish
- Hardened and tempered both ends
- Knurled finger grip for ease of use
- 5pcs set
- 8" length, drive pin section 3-1/2" long



7253

Part No.	EDP No.	Point size (DIA)
7253	283975	1/8", 3/16", 1/4", 5/16", 3/8"

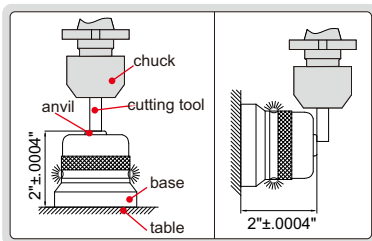
DRIVE PIN PUNCH

- Made of tool steel, black oxide finish
- Hardened and tempered both ends
- Knurled finger grip for ease of use
- 8pcs set
- 4" length



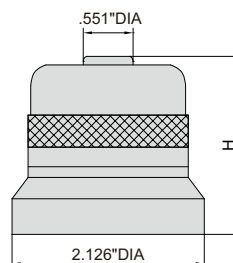
7252

Part No.	EDP No.	Point size (DIA)
7252	283976	1/16", 3/32", 1/8", 5/32", 3/16", 7/32", 1/4", 5/16"



ELECTRONIC ZERO SETTER

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

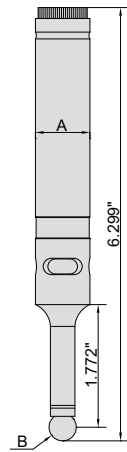
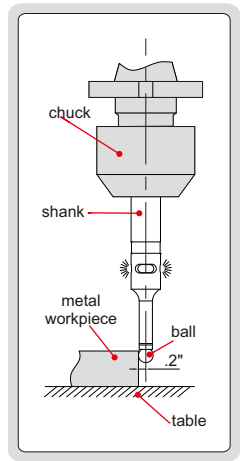


6550-2A

Part No.	EDP No.	Height (H)	Accuracy	Test Force
6550-2A	816684	2"	±.0004"	6.075lbf (at 2")
6550-50A	876730	50mm	±10µm	27N (at 49mm)

ELECTRONIC EDGE FINDER

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

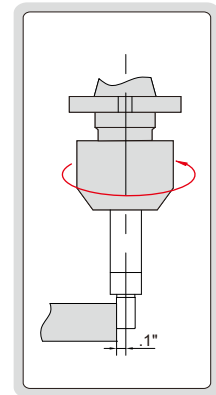


Part No.	EDP No.	Shank (A)	Contact ball (B)	Accuracy	Beeper	Battery
6566-2E	816381	3/4" DIA	.4" DIA	.0002"	without	23AE, 12Vx1pc
6566-3E	816382	3/4" DIA	.4" DIA	.0002"	with	23AE, 12Vx1pc

EDGE FINDER

- Accuracy: .0003"
Hardened shank and contact point

6567-1E



Part No.	EDP No.	Shank (A)	Contact point (B)
6567-1E	816383	3/8" DIA	.2" DIA

2-PIECE MEASURING TOOL SET

- Includes:
 - 1) Electronic caliper, range 0-6"/0-150mm, resolution .0005"/0.01mm (part no. **1108-150**)
 - 2) Electronic outside micrometer, range 0-1"/0-25mm, resolution .00005"/0.001mm (part no. **3109-25B**)

Part No.	EDP No.
5022	816345

5022



2-PIECE MEASURING TOOL SET

■ Includes:

- 1) Dial indicator, range 1", graduation .001" (part no. **2307-1**)
- 2) Magnetic stand (part no. **6201-60**)



5002-4E

Part No.	EDP No.
5002-4E	284505

13-PIECE MEASURING TOOL SET

■ Includes:

- 1) Electronic caliper, range 0-6"/0-150mm, resolution .0005"/0.01mm, (part no. **1108-150**)
- 2) Outside micrometer, range 0-1", graduation .0001" (part no. **3202-1**)
- 3) Dial indicator, range 1", graduation .001" (part no. **2307-1**)
- 4) Magnetic stand (part no. **6201-60**)
- 5) Protractor, range 0-180°, graduation 1° (part no. **4799-180**)
- 6) Pitch gauge, range 4-42TPI, 30pcs, unified 60° thread (part no. **4820-230**)
- 7) Radius gauge, range 1/32"-1/4" (part no. **4801-15E**)
- 8) Feeler gauge, range .0015"-.035", 31pcs (part no. **4608-31**)
- 9) 90° beveled edge square, 3.937x2.756", grade 0 (part no. **4790-1000**)
- 10) Scriber (part no. **7230**)
- 11) Steel rule, 6"/150mm (part no. **7110-150**)
- 12) Depth base attachment (part no. **6140**)
- 13) Zero setting bar



5013-E

Part No.	EDP No.
5013-E	816407

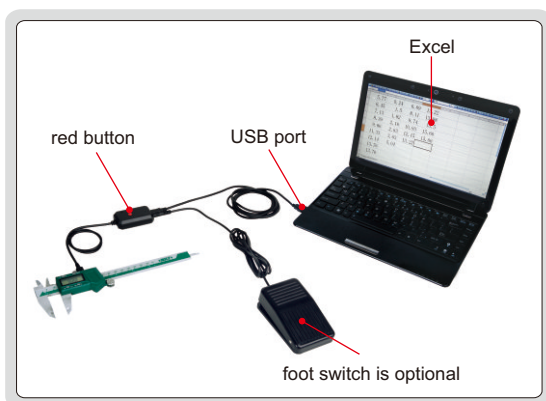
USB DATA OUTPUT CABLE









- Connect to USB port of computer
- Without software, data can be input as keyboard signal to Excel, Word, etc.
- Press the red button or foot switch (optional) to input data



7304-2

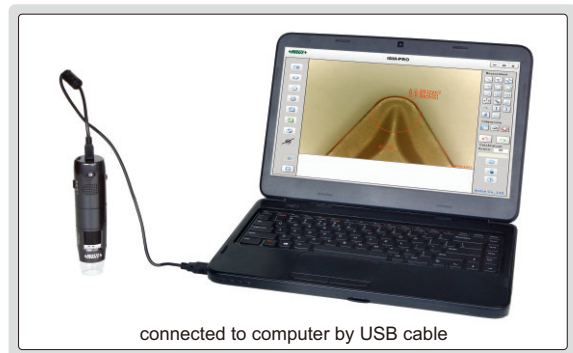


Part No.	EDP No.	Description	Remark
7302-SPC5A	816385	cable (length 100")	 for electronic calipers and electronic depth gages (not for 1103)
7302-SPC5B	816386	cable (length 100")	 for electronic calipers and electronic depth gages (not for 1103)
7302-SPC2A	877040	cable (length 100")	 for electronic micrometers (not for 3631, 3632, 3108, 3109)
7302-SPC3A	877042	cable (length 100")	 for electronic indicators  for electronic protractor
7302-SPC4	285067	cable (length 100")	 for electronic calipers 1103 series (for 1103 only)
7304-2	877046	foot switch with cable (length 60")	optional

WiFi DIGITAL MEASURING MICROSCOPE



- Maximum working distance is 200" under WiFi mode
- Can be connected to multiple iPads, Android devices or computers at the same time under WiFi mode
- Take pictures and videos
- Supplied with software



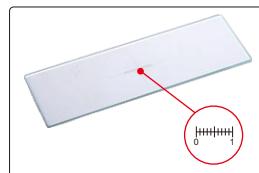
stand (part no. ISM-WSTD, optional)



filter (optional)



calibration rule
(graduation 1mm, included)



calibration rule
(graduation 0.1mm, included)

SPECIFICATION

Part No.	ISM-WF200
EDP No.	816685
Magnification	10X~200X
Pixel	1.3M (resolution: 1280×1024)
Illumination	built-in adjustable LED
Power supply	built-in rechargeable battery

STANDARD DELIVERY

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

MAGNIFICATION, FOCUS DISTANCE, VIEW FIELD AND ACCURACY

Magnification	Focus distance	View field	Accuracy
50X	.83"	.32×.25"	1.2mil
100X	.51"	.15×.12"	0.6mil
150X	.63"	.10×.08"	0.4mil
200X	.75"	.07×.06"	0.3mil

OPTIONAL ACCESSORY




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

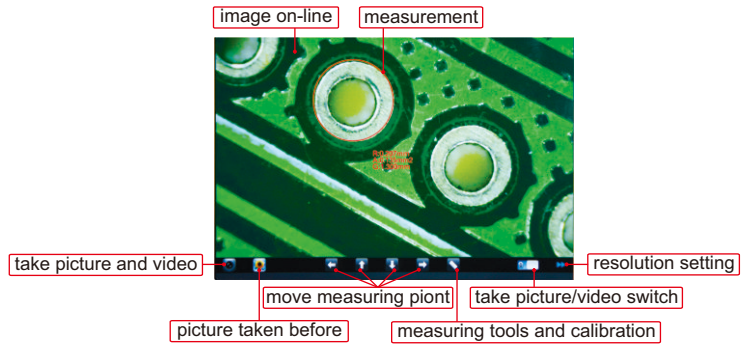
To be continued

Continued from previous page

1 Software ISM-PAD (for iPad by WiFi)




■ **Measuring tools:**

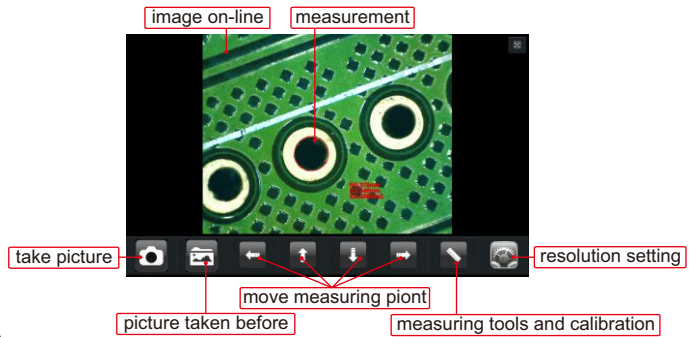
-  measure length of line or distance between two points
-  measure radius, girth and area of circle with three points
-  measure angle



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












■ **Measuring tools:**

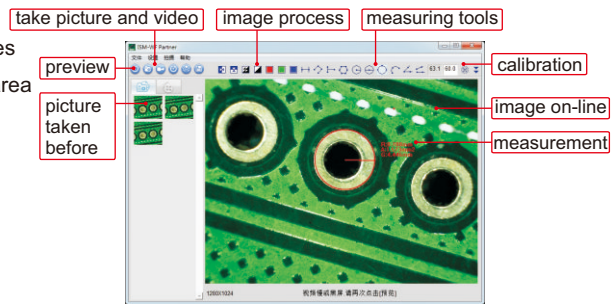
-  measure length of line or distance between two points
-  measure radius, girth and area of circle with three points
-  measure angle



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













■ **Measuring tools:**

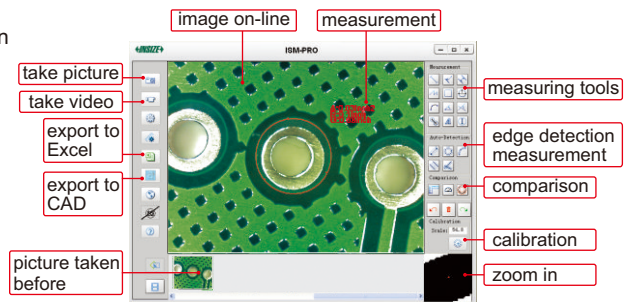
- | | |
|--|---|
|  measure length of line or distance between two points |  measure angle with two lines |
|  measure area of polygon |  measure radius, girth and area of circle with two points |
|  measure angle with three points |  measure distance between point and line |
|  measure radius, girth and area of circle with center point |  measure radius, length and angle of arc |
|  measure length of continuous line |  measure area of rectangle |
|  measure radius, girth and area of circle with three points | |








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

■ **Measuring tools:**

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

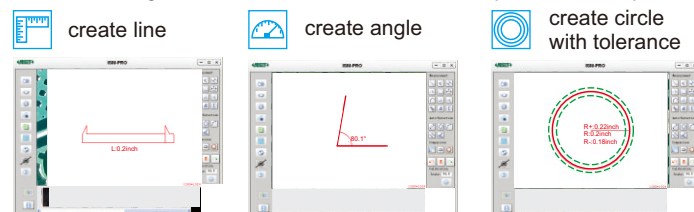


■ **Edge detection measurement:**

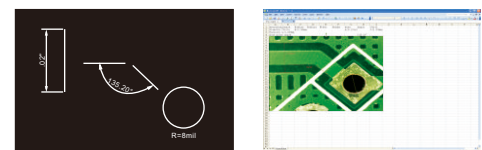
- | | | |
|--|---|---|
|  detect line automatically, and calculate length |  detect circle automatically, and calculate radius, girth and area |  detect two lines automatically, and calculate angle |
|  detect arc automatically, and calculate radius, angle and arc length |  detect two parallel lines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

■ **Comparison:**

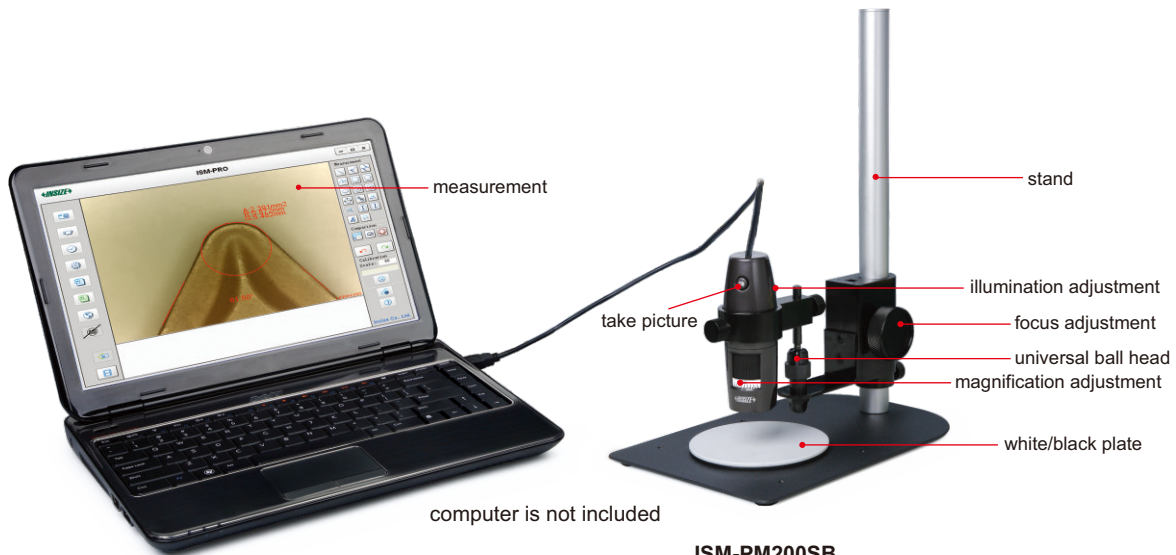
Create line, angle or circle with desired size, to compare with workpieces



■ **Data export to CAD or Excel:**



DIGITAL MEASURING MICROSCOPE



ISM-PM200SB

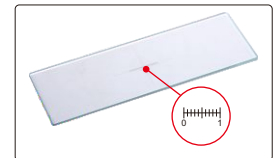
- Can take pictures and videos
- Supplied with software



focus support (included)



calibration rule
(graduation 1mm, included)



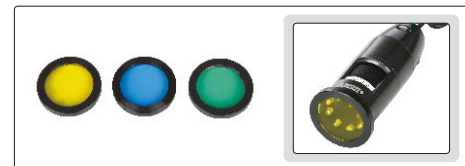
calibration rule
(graduation 0.1mm, included)

SPECIFICATION

Part No.	ISM-PM200SB
EDP No.	285007
Magnification	10X~200X
Type	short focus distance
Focus support	included
Calibration rule	graduation 0.1and1mm
Pixel	2M (resolution: 1600×1200)
Illumination	built-in adjustable LED
Power supply	USB 2.0 cable (voltage required: 5±0.1V)



filter (optional)

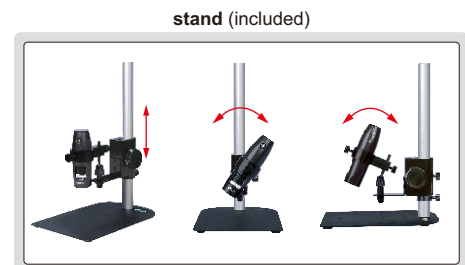


OPTIONAL ACCESSORY

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

MAGNIFICATION, FOCUS DISTANCE, VIEW FIELD AND ACCURACY

ISM-PM200SB			
Magnification	Focus distance	View field	Accuracy
50X	.83"	.32×.25"	1.2mil
100X	.51"	.15×.12"	0.6mil
150X	.63"	.10×.08"	0.4mil
200X	.75"	.07×.06"	0.3mil

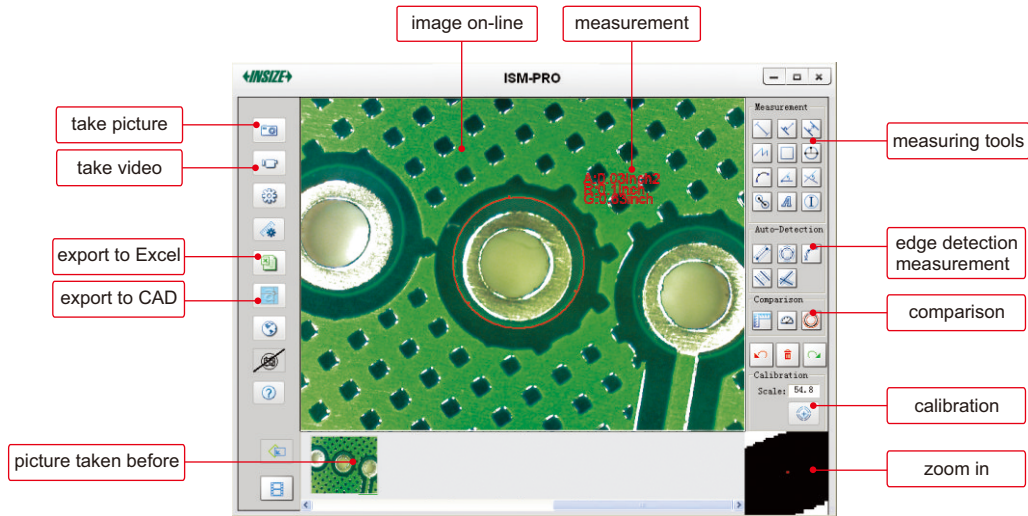


stand (included)

To be continued

Continued from previous page

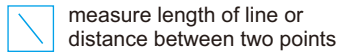
SOFTWARE FOR DIGITAL MEASURING MICROSCOPE



■ **Language:** English, Japanese, Korean, German, Turkey, Portuguese, Chinese

■ **Operation system:** Windows 7/8/XP/ Vista

■ **Measuring tools:**



measure length of line or distance between two points



measure distance between point and line



measure distance between two parallel lines



measure length of continuous line



measure area of rectangle



measure radius, girth and area of circle



measure radius, length and angle of arc



measure angle with three points



measure angle with two lines



measure distance between two circles



add text



add number with circle

■ **Edge detection measurement:**



detect line automatically, and calculate length



detect circle automatically, and calculate radius, girth and area



detect arc automatically, and calculate radius, angle and arc length



detect two parallel lines automatically and calculate distance



detect two lines automatically, and calculate angle

■ **Comparison:**

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



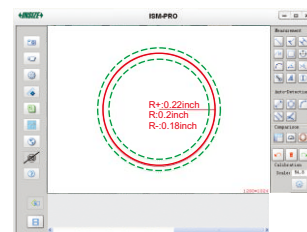
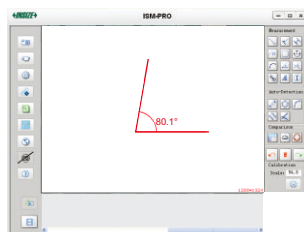
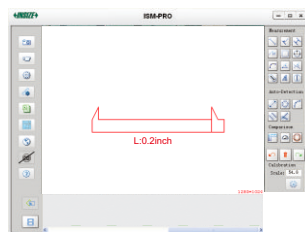
create line



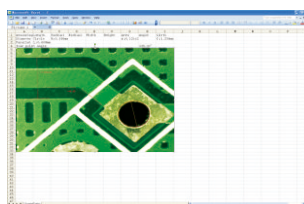
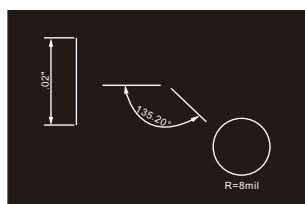
create angle



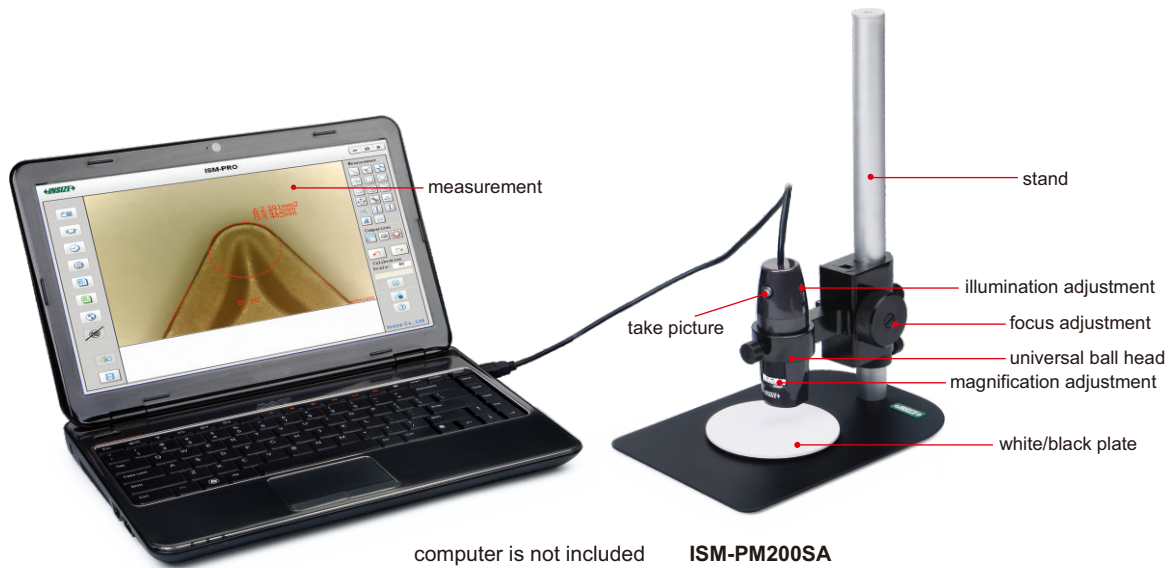
create circle with tolerance



■ **Data export to CAD or Excel:**



DIGITAL MEASURING MICROSCOPE



computer is not included **ISM-PM200SA**

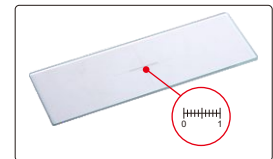
- Can take pictures and videos
- Supplied with software



focus support (included)



calibration rule
(graduation 1mm, included)



calibration rule
(graduation 0.1mm, included)

SPECIFICATION

Part No.	ISM-PM200SA
EDP No.	285000
Magnification	10X~200X
Type	short focus distance
Focus support	included
Calibration rule	graduation 0.1and1mm
Pixel	2M (resolution: 1600×1200)
Illumination	built-in adjustable LED
Power supply	USB 2.0 cable (voltage required: 5±0.1V)

OPTIONAL ACCESSORY

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

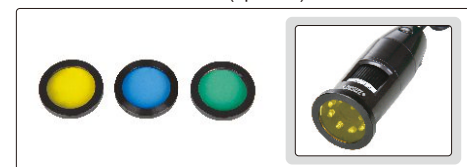
MAGNIFICATION, FOCUS DISTANCE, VIEW FIELD AND ACCURACY

ISM-PM200SA			
Magnification	Focus distance	View field	Accuracy
50X	.83"	.32×.25"	1.2mil
100X	.51"	.15×.12"	0.6mil
150X	.63"	.10×.08"	0.4mil
200X	.75"	.07×.06"	0.3mil



put the digital microscope directly on the workpiece for inspection and measurement

filter (optional)



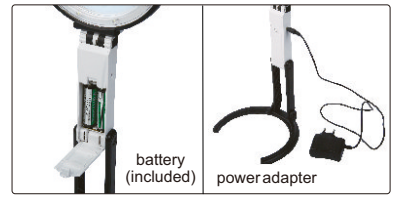
THREE WAYS MAGNIFIER WITH ILLUMINATION



7512-1

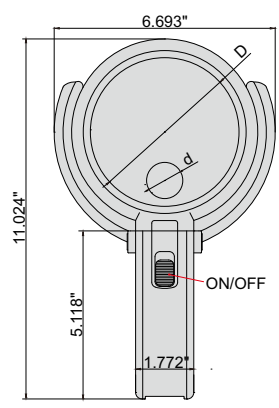


10pcs LED



battery (included)

power adapter



6.693"

11.024"

5.118"

1.772"

ON/OFF

three ways



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

Part No.	EDP No.	Magnification	Lens diameter (D)	Lens diameter (d)
7512-1	816387	2X/4X	4.724" DIA	1.102" DIA

MAGNIFIER WITH ILLUMINATION



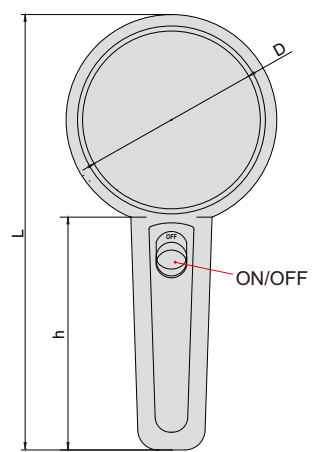
7513-2



7513-4



2pcs LED

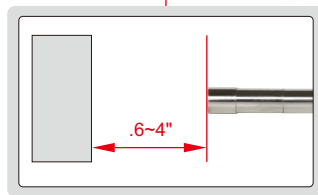
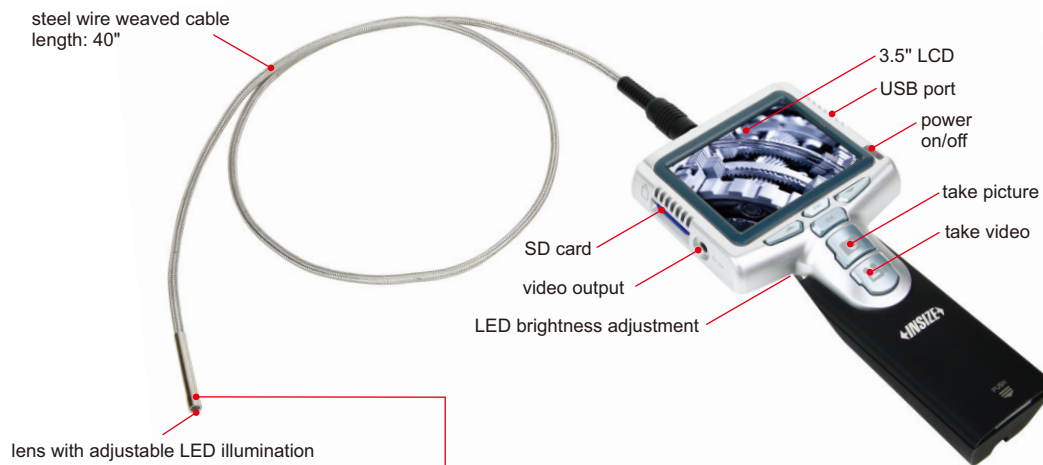


ON/OFF

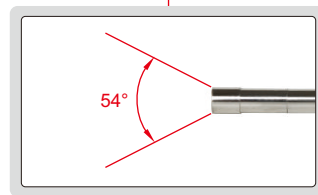
- Glass lens
- Powered by 3xAAA batteries (included)

Part No.	EDP No.	Magnification	Lens diameter (D)	L	h
7513-2	816388	2X	2.953" DIA	6.693"	3.543"
7513-4	816389	4X	1.969" DIA	5.709"	3.543"

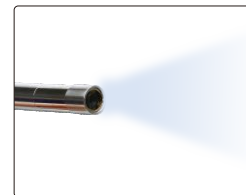
VIDEOSCOPE



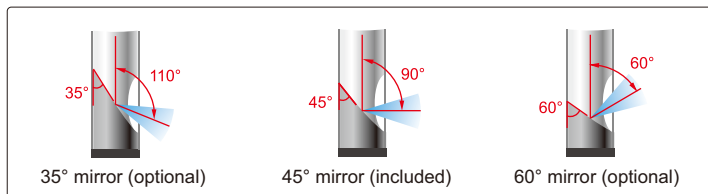
focus distance



angle of view



front view



35° mirror (optional)

45° mirror (included)

60° mirror (optional)



side view (with mirror)

SPECIFICATION

Part No.	ISV-E10	
EDP No.	816397	
Lens	diameter	.22"
	pixel	0.3M
	resolution	640×480
	frame rate	30fps
Cable	length	40"
	type	steel wire weaved cable
Main unit	function	take picture, take video
	file format	picture: JPG, video: AVI
	image process	brightness, contrast, color saturation
	memory	2G SD card
	output	TV, USB
	power supply	rechargeable battery (for 3 hours working)
Weight	.99lb	

STANDARD DELIVERY

Main unit	1pc
Cable with lens	1pc
2G SD card	1pc
45° mirror	1pc
AC/DC adapter	1pc
Video output cable	1pc
USB cable	1pc
Lens cleaning kit	1pc

OPTIONAL ACCESSORY

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

ULTRASONIC THICKNESS GAGE



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

SPECIFICATION

Part No.		ISU-100D
EDP No.		816694
Measuring range		.03 ~ 11.81"
Resolution		.001" (range < 10") .01" (range ≥ 10")
Accuracy		±.002" (range < .4") ±(.002+H/1000)" (range .4 ~ 4") ±H/333" (range ≥ 4") H is the thickness to be measured in inch
Transducer	frequency	5MHz
	diameter (Ød)	.43" DIA
Minimum size of pipe for measurement		.79×.05" (diameter × wall thickness)
Applicable temperature		<140°F
Velocity		.039~.394"/µs
Power supply		2×AAA batteries (included)
Dimension		4.49×2.52×1.1"
Weight		.49lb

STANDARD DELIVERY

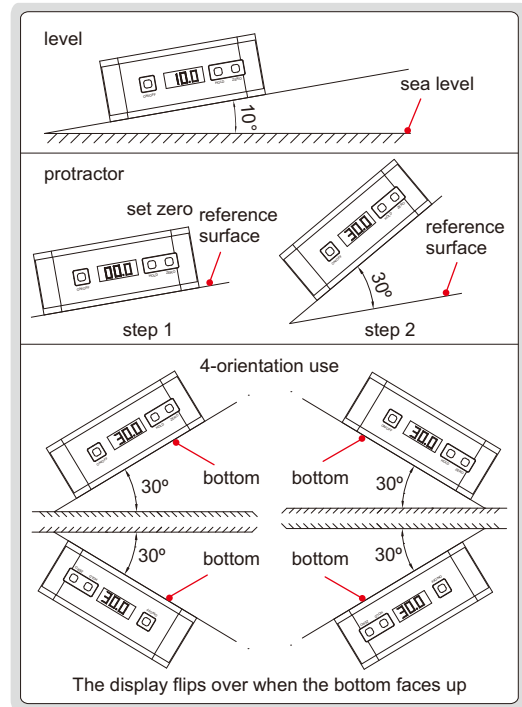
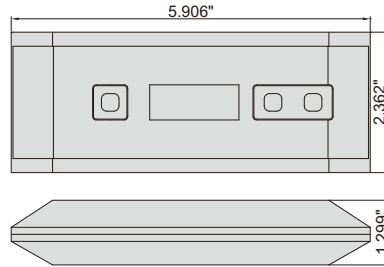
Main unit	1pc
Transducer	1pc
Couplant	1 bottle
Battery (AAA)	2pcs

ELECTRONIC LEVEL AND PROTRACTOR



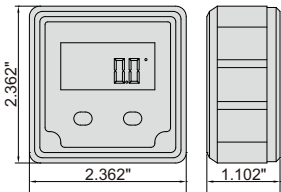
2173-360

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



Part No.	EDP No.	Range	Resolution	Accuracy
2173-360	816340	0-360° (90°x4)	0.1° (=0.021in/ft)	0° and 90°: ±0.1°; others: ±0.2°

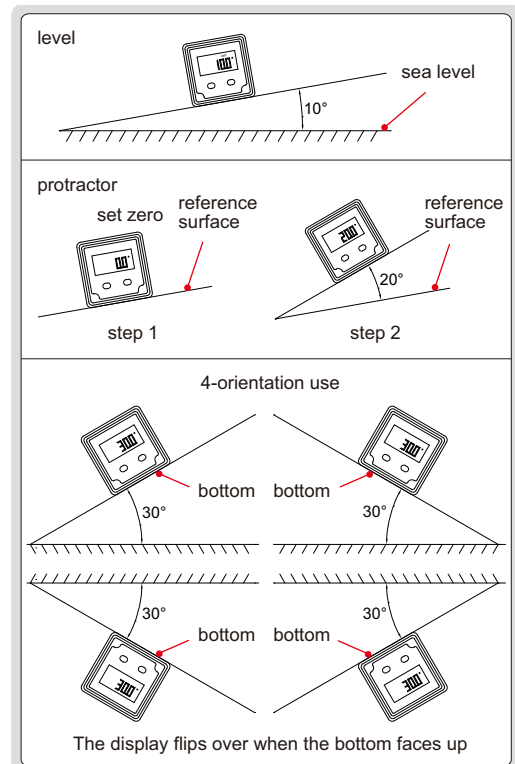
ELECTRONIC LEVEL AND PROTRACTOR



2170-1

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

Part No.	EDP No.	Range	Resolution	Accuracy
2170-1	816396	4x90°	0.1° (=0.021in/ft)	at 0° and 90°: ±0.1°; others: ±0.2°

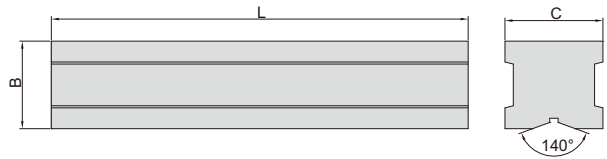


BLOCK LEVEL



4901-8

- V-groove on bottom for shafts (shafts diameter .63~2.76")
- With transverse vial
- Supplied with adjusting wrench



Part No.	EDP No.	Length (L)	Sensitivity	B	C
4901-6	816326	6"	.0002"/10"	1.575"	1.772"
4901-8	816328	8"	.0002"/10"	1.654"	1.850"
4901-12	816330	12"	.0002"/10"	1.772"	1.969"

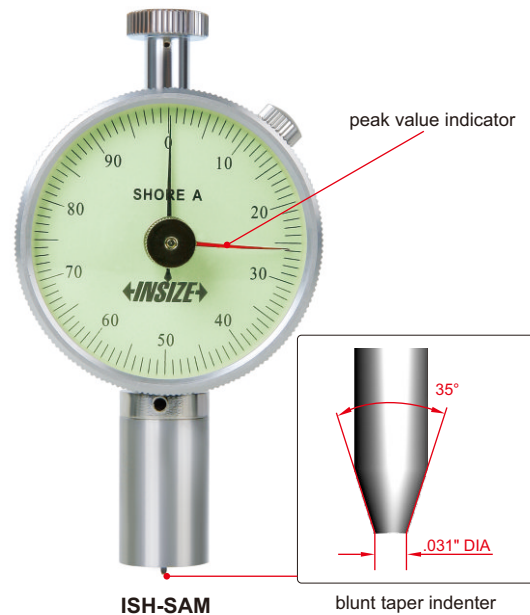
SHORE DUROMETER

- According to ISO868, ISO7619, ASTM D 2240
- With peak value indicator
- Optional accessory: test stand **ISH-STAC**

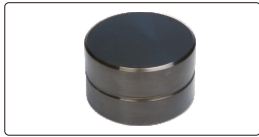
SPECIFICATION

Part No.	ISH-SAM
EDP No.	816696
Scale	Shore A
Application	natural rubber, soft elastomer, etc.
Measuring range *	10~90HA
Graduation	1HA
Indenter protrusion	.10"
Dimension	4.53×2.36×.98"
Weight	.35lb

* Use **ISH-SAM** when measuring result is lower than 20HD



PORTABLE LEEB HARDNESS TESTER



hardness test block D (included)



small support ring (included)



wireless printer (optional)



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

SPECIFICATION

Part No.	ISH-PHB	
EDP No.	816432	
Min. reading	1HLD, 1HV, 1HB, 0.1HRC, 0.1HRB, 1HS, 1MPa	
Accuracy	±6HLD (when HLD=800)	
Display	Leeb(HLD), converted hardness, material, impact direction, test times, average value, date	
Output	bluetooth	
Applicable workpiece	minimum weight	11.02lb
		4.41lb (on solid support)
		0.22lb (coupled on plate)
	minimum thickness: .20"	
minimum radius of curved surface: 1.18"		
maximum roughness (Ra): 63µin		
Power supply	3×AAA batteries	
Dimension	5.91×3.31×1.10"	
Weight	0.44lb	

STANDARD DELIVERY

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

OPTIONAL ACCESSORY

Wireless printer	ISH-DS-PRINTER
Couplant	ISH-COULPLANT
Support rings	POA
Hardness test block D	ISH-BHLD

APPLICABLE MATERIAL AND HARDNESS RANGE FOR IMPACT DEVICE D

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

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