



Willrich Precision
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MEASURING TOOLS

CATALOG NO. 2012US



QUALITY | INNOVATION | SERVICE | VALUE



Welcome to INSIZE.

Founded in 1995, INSIZE is a dedicated supplier of measuring instruments. To enable us to serve the world-wide market, we are setting up an INSIZE distribution network on a global basis, so that, wherever you are, INSIZE products with service and support are not far away.

Our key aims are:



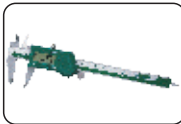




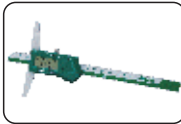





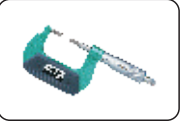
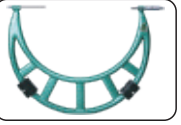









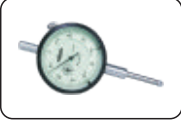







- Quality products made to international standards with full guarantee.
- Innovation by continually striving to improve and develop new products.
- Service and support to ensure you have trouble-free use of INSIZE products.
- Value is always a key element. Our aim is to give you high-performance products at a good price.

Our dedication to Quality, Innovation, Service and Value has created a worldwide demand for the INSIZE products.




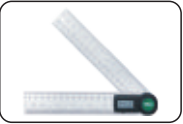








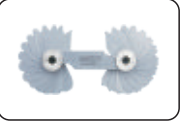
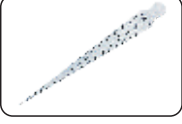




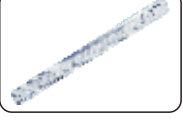

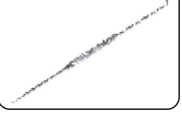



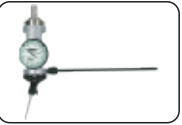



INSIZE is positioning itself for today's economic demands and tomorrow's future!




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SPC CABLE

NEW ITEM!



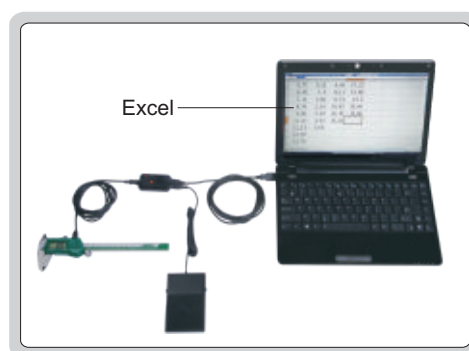
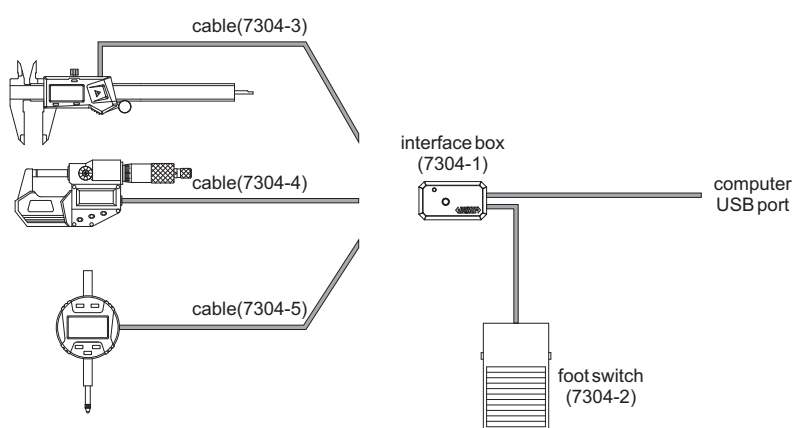
7304-1








7304-2



7304-3



- Without special software, the data can be input as keyboard signal to Excel, Word, CAD, Skype, etc.
- Press the red button on the interface box or the foot switch to input data. Foot switch is optional
- The interface box can accept all cables (order no. **7304-3**, **7304-4**, **7304-5**), but can accept only one cable at a time

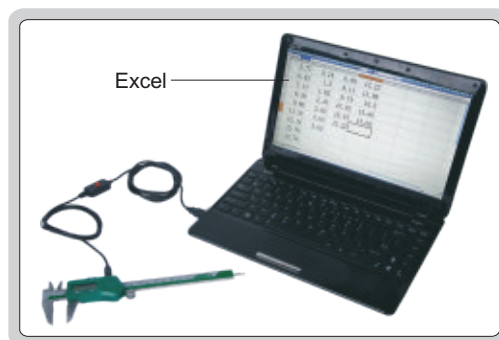
OrderNo.	EDP No.	Description	Applicable Products	
7304-1	877044	interface box with cable (length 80")		
7304-2	877046	foot switch with cable (length 60")		
7304-3	877048	cable (length 20")		electronic calipers and electronic depth gages
7304-4	877050	cable (length 20")	 	electronic micrometers (except 3108 and 3109)
7304-5	877052	cable (length 20")	 	electronic indicators

SPC CABLE




NEW ITEM!



7302-SPC2



- Without special software, the data can be input as keyboard signal to Excel, Word, CAD, Skype, etc.
- Press the red button on the interface box to input data
- Connects to computer via USB port
- Cable length 100"

Order No.	EDP No.	Applicable Products	
7302-SPC1	285064		electronic calipers and electronic depth gages
7302-SPC2	877040		electronic micrometers (except 3108 and 3109)
7302-SPC3	877042		electronic indicators

SPC CABLE

- Software included

Order No.	EDP No.	Applicable Products
7301-SPC1	280668	large electronic calipers 1131 (type B), 1133 (type B)
7301-SPC2	816362	electronic height gages 1151
7301-SPC4	816366	electronic calipers 1102
7301-SPC5	280795	electronic height gages 1150



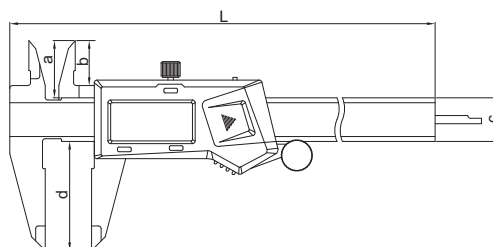
7301-SPC1

ELECTRONIC CALIPER



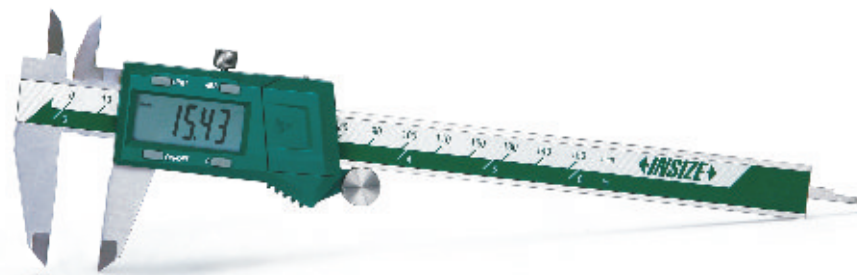
1108-150

- 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
- Meets DIN862
- Made of stainless steel
- Optional accessory: SPC cable (page 1-2)
- Supplied in fitted storage case



Order No.	EDP No.	Range	Accuracy	L	a	b	c	d
1108-150	817000	0-6"/0-150mm	±.0012"	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"

ELECTRONIC CALIPER

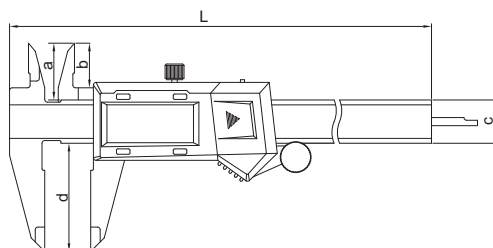


1102-150

- 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
- Meets DIN862
- Made of stainless steel
- Optional accessory: SPC cable (order no. 7301-SPC4)
- Supplied in fitted storage case



fraction reading



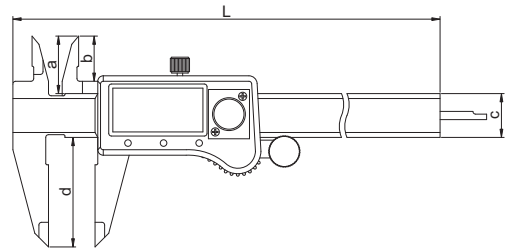
Order No.	EDP No.	Range	Accuracy	L	a	b	c	d
1102-150	280003	0-6"/0-150mm	±.0012"	9.213"	.827"	.650"	.630"	1.575"
1102-200	280004	0-8"/0-200mm	±.0012"	11.260"	.945"	.748"	.630"	1.969"
1102-300	280005	0-12"/0-300mm	±.0012"	15.354"	1.024"	.846"	.630"	2.362"

ELECTRONIC CALIPER



1114-150

- Die cast zinc alloy casing
- Resolution: .0005"/0.01mm
- Buttons: zero, power on/off, inch/mm
- Battery SR44 or LR44
- Meets DIN862
- Made of stainless steel
- Supplied in fitted storage case



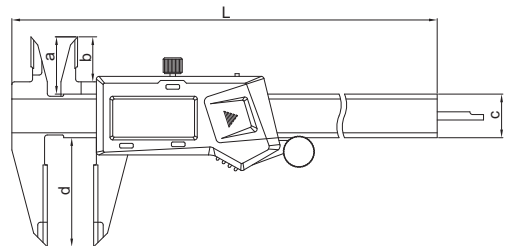
OrderNo.	EDPNo.	Range	Accuracy	L	a	b	c	d
1114-150	816012	0-6"/0-150mm	±.0012"	9.291"	.827"	.630"	.630"	1.575"
1114-200	816014	0-8"/0-200mm	±.0012"	11.260"	.945"	.748"	.630"	1.969"
1114-300	816016	0-12"/0-300mm	±.0012"	15.748"	.984"	.807"	.669"	2.362"

ELECTRONIC CALIPER WITH CARBIDE TIPPED JAWS



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
- Meets DIN862
- Made of stainless steel
- Optional accessory: SPC cable (page 1-2)
- Supplied in fitted storage case



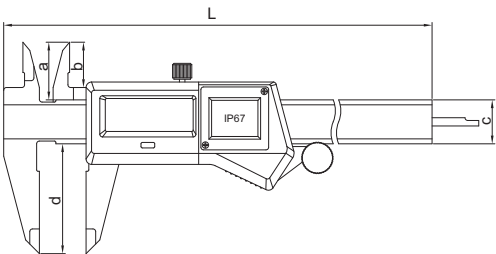
OrderNo.	EDPNo.	Range	Accuracy	L	a	b	c	d
1110-150A	280021	0-6"/0-150mm	±.0012"	9.291"	.827"	.630"	.630"	1.575"
1110-200A	280022	0-8"/0-200mm	±.0012"	11.260"	.945"	.748"	.630"	1.969"
1110-300A	280023	0-12"/0-300mm	±.0012"	15.748"	.984"	.807"	.669"	2.362"

WATERPROOF ELECTRONIC CALIPER



1118-150

- IP67 dust/coolant proof
- Resolution: .0005"/0.01mm
- Button functions: zero, on/off, inch/mm
- Battery CR2032, automatic power off
- Meets DIN862
- Made of stainless steel
- Supplied in fitted storage case



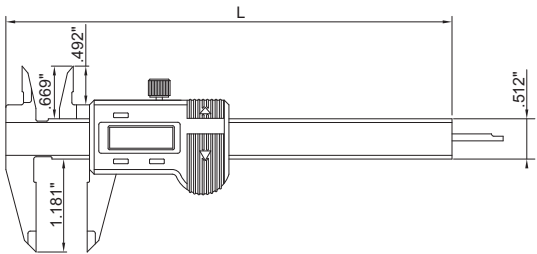
Order No.	EDP No.	Range	Accuracy	L	a	b	c	d
1118-150	816018	0-6"/0-150mm	±.0012"	9.291"	.827"	.630"	.630"	1.575"
1118-200	280014	0-8"/0-200mm	±.0012"	11.260"	.945"	.748"	.630"	1.969"
1118-300	280015	0-12"/0-300mm	±.0012"	15.748"	.984"	.807"	.669"	2.362"

MINI ELECTRONIC CALIPER



1111-100

- Resolution: .0005"/0.01mm
- Buttons: zero, inch/mm, on/off
- Battery SR44 or LR44
- Meets DIN862
- Made of stainless steel
- Supplied in fitted storage case



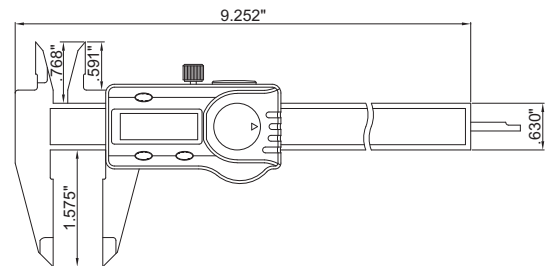
Order No.	EDP No.	Range	Accuracy	L
1111-75	280019	0-3"/0-75mm	±.0008"	5.669"
1111-100	280020	0-4"/0-100mm	±.0008"	6.693"



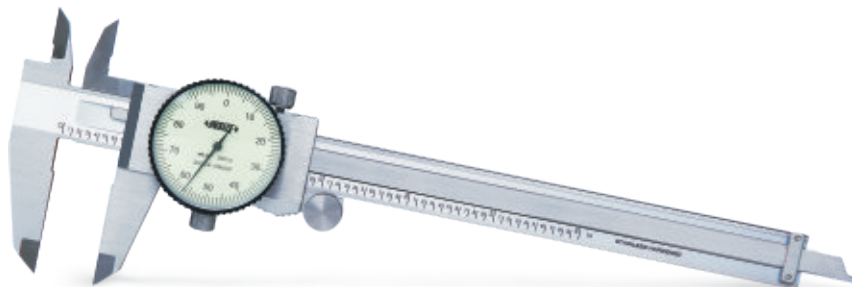
PLASTIC ELECTRONIC CALIPER

1139-150

- Made of hard plastic, non-magnetic and non-conductive, which can effectively prevent harm to the surface of workpieces from scratching by caliper
- Resolution: .0005"/0.01mm
- Buttons: on/off, zero, inch/mm
- Battery CR2032, automatic power off
- Supplied in fitted storage case



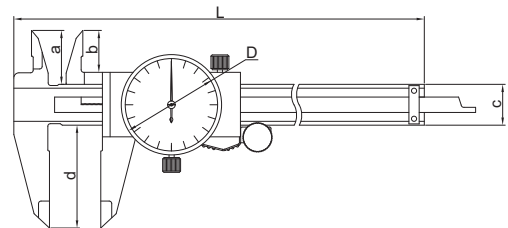
Order No.	EDP No.	Range	Accuracy
1139-150	280024	0-6"/0-150mm	±.004"



DIAL CALIPER

1311-6

- Shockproof dial indicator
- Made of stainless steel
- Supplied in fitted storage case



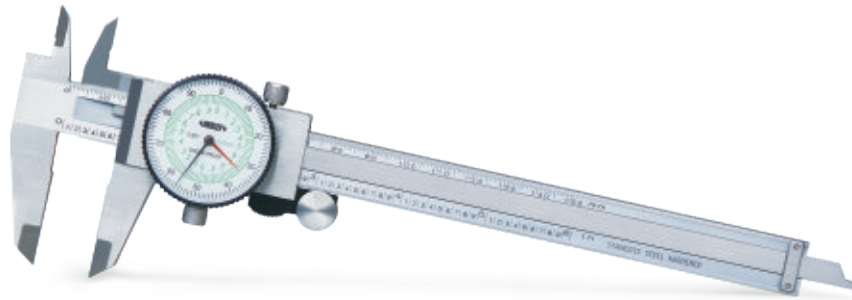
Dial indicator graduation .001"

Order No.	EDP No.	Range	Accuracy	L	a	b	c	d	D
1311-4	280462	0-4"	±.0012"	6.496"	.709"	.512"	.512"	1.181"	1.260" DIA
1311-6	816028	0-6"	±.0015"	9.173"	.827"	.650"	.630"	1.575"	1.535" DIA
1311-8	816030	0-8"	±.002"	11.339"	.945"	.748"	.630"	1.969"	1.535" DIA
1311-12	816032	0-12"	±.002"	15.354"	.945"	.768"	.669"	2.520"	1.535" DIA

Dial indicator graduation 0.01mm

Order No.	EDP No.	Range	Accuracy	L	a	b	c	d	D
1311-150A	816034	0-150mm	±0.03mm	233mm	21mm	16.5mm	16mm	40mm	Ø39mm
1311-200A	816036	0-200mm	±0.03mm	288mm	24mm	19mm	16mm	50mm	Ø39mm
1311-300A	816038	0-300mm	±0.04mm	390mm	24mm	19.5mm	17mm	64mm	Ø39mm

DUAL READING DIAL CALIPER



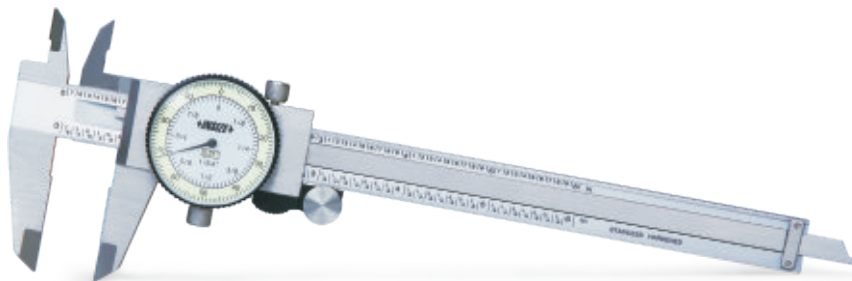
1313-6

NEW SIZES!

OrderNo.	EDP No.	Range	Dial Indicator Graduation
1313-6	280487	0-6"/0-150mm	.001"/0.02mm
1313-8	280488	0-8"/0-200mm	.001"/0.02mm

- Dual graduation on both beam scale and dial indicator for metric and inch reading
- Shock proof dial indicator
- Made of stainless steel
- Supplied in fitted storage case

FRACTION READING DIAL CALIPER



1381-6

OrderNo.	EDP No.	Range	Dial Indicator Graduation
1381-6	280481	0-6"	.001", 1/64"

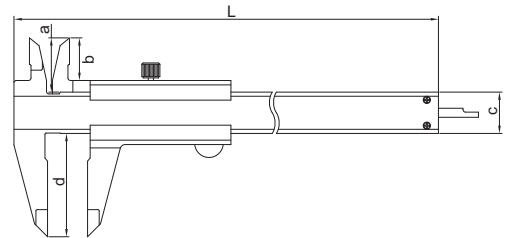
- Shock proof dial indicator
- Made of stainless steel
- Supplied in fitted storage case

VERNIER CALIPER



1205-1502E

- Graduation .001"/0.02mm
- Meets DIN862
- Made of stainless steel
- Satin chrome plated reading surface
- Supplied in fitted storage case



Order 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"	.630"	1.969"
1205-3002E	876232	0-12"/0-300mm	±.0012"	16.299"	1.083"	.866"	.787"	2.520"

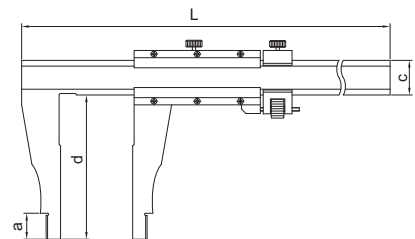
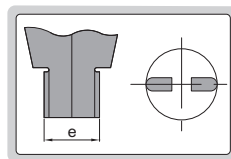
VERNIER CALIPER



1211-24

NEW SIZES!

- With fine adjustment
- Made of stainless steel
- Satin chrome plated reading surface
- Supplied in fitted storage case



Order No.	EDP No.	Range	Graduation	Accuracy	Graduation on Scale	a	c	d	e	L
1211-12	280405	0-12"	.001"	±.002"	inch on bottom and top	.394"	.787"	2.953"	.5"	16.142"
1211-24	280408	0-24"/0-600mm	.001"/0.02mm	±.002"	inch on bottom, metric on top	.709"	.945"	3.937"	.8"	30.315"
1211-40	280409	0-40"/0-1000mm	.001"/0.02mm	±.0031"	inch on bottom, metric on top	.945"	1.26"	5.512"	.8"	47.874"

ELECTRONIC CALIPER

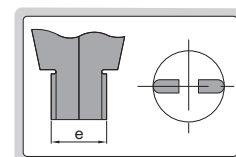


1131-127

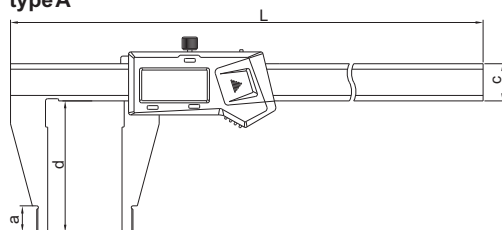


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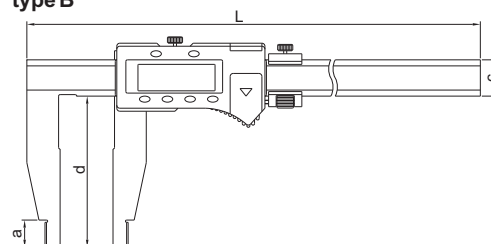
NEW SIZES!



type A



type B

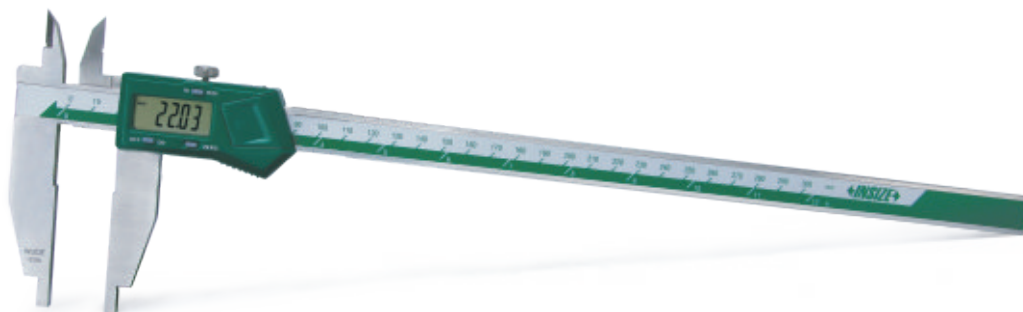


- Resolution: .0005"/0.01mm
- Buttons: on/off, zero, inch/mm
- Automatic power off, move the digital unit to turn on power
- Battery CR2032
- Data output
- Made of stainless steel
- Optional accessory: SPC cable (page 1-2)
- Supplied in fitted storage case

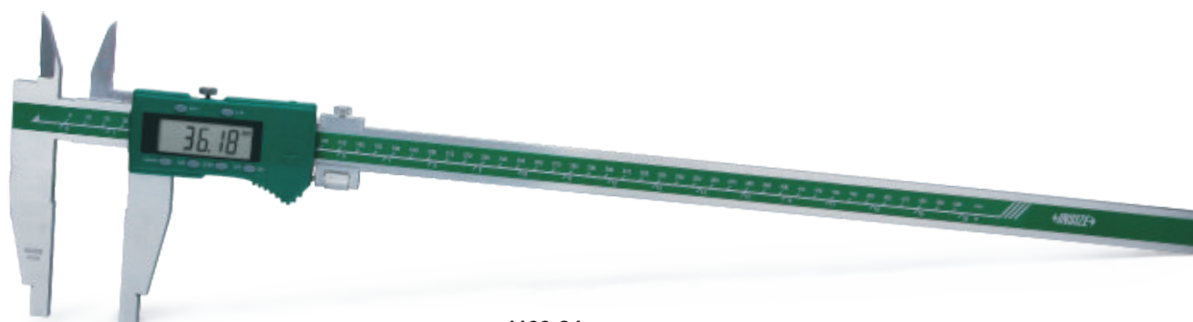
- Resolution: .0005"/0.01mm
- Button functions: on/off, zero, inch/mm, ABS, data preset
- Absolute and incremental measurement
- Battery CR2032
- Data output
- Made of stainless steel
- Optional accessory: SPC cable (order no. 7301-SPC1)
- Supplied in fitted storage case

Order No.	EDP No.	Range	Type	Accuracy	a	c	d	e	L
1131-127	876223	0-12"/0-300mm	A	±.002"	.472"	.669"	2.953"	.5"	16.535"
1131-24	280042	0-24"/0-600mm	B	±.002"	.709"	.945"	3.937"	.8"	30.315"
1131-40	876222	0-40"/0-1000mm	B	±.0031"	.945"	1.220"	5.906"	.8"	48.031"

ELECTRONIC CALIPER

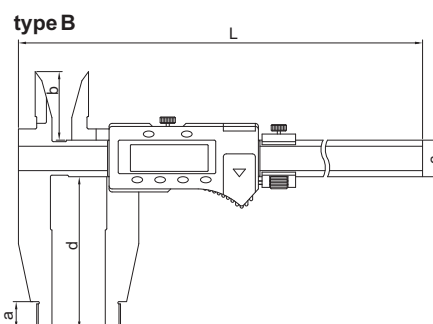
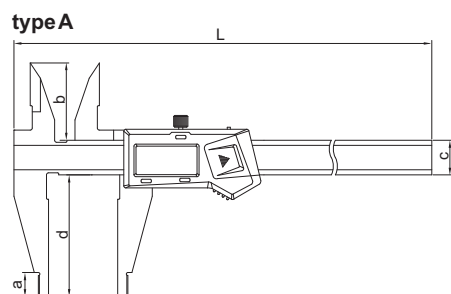
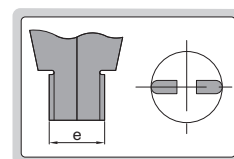


1133-127



1133-24

NEW SIZES!



- 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: SPC cable (page 1-2)
- Supplied in fitted storage case

- Resolution: .0005"/0.01mm
- Button functions: on/off, zero, inch/mm, ABS, data preset
- Absolute and incremental measurement
- Battery CR2032
- Data output
- Made of stainless steel
- Optional accessory: SPC cable (order no. 7301-SPC1)
- Supplied in fitted storage case

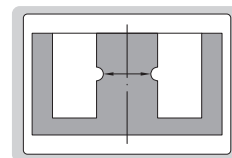
Order No.	EDP No.	Range	Type	Accuracy	a	b	c	d	e	L
1133-127	285060	0-12"/0-300mm	A	±.002"	.472"	1.102"	.669"	2.953"	.5"	16.535"
1133-24	285061	0-24"/0-600mm	B	±.002"	.709"	1.772"	.945"	3.937"	.8"	30.315"
1133-40	285062	0-40"/0-1000mm	B	±.0031"	.945"	2.362"	1.220"	5.906"	.8"	48.031"

NEW ITEM!

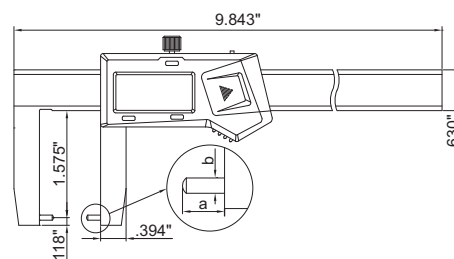
ELECTRONIC OUTSIDE POINT CALIPER



1185-150A



- Measures wall thickness of tubes, recesses and grooves
- 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: SPC cable (page 1-2)
- Supplied in fitted storage case

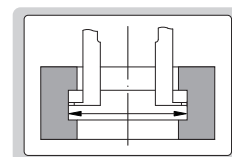


Order No.	EDP No.	Range	Accuracy	a	b
1185-150A	280514	0-6"/0-150mm	±.0016"	.197"	.079" DIA

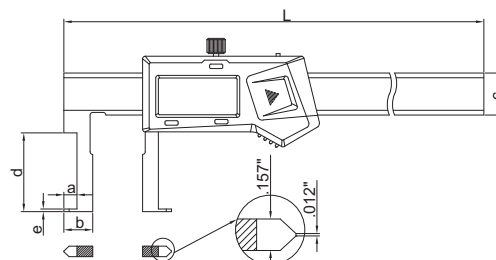
ELECTRONIC INSIDE GROOVE CALIPER



1120-150AE



- Measures groove diameter
- 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: SPC cable (page 1-2)
- Supplied in fitted storage case

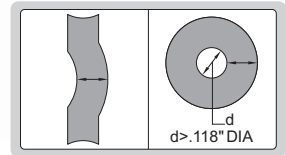


Order No.	EDP No.	Range	Accuracy	L	a	b	c	d	e
1120-150AE	280523	1-6"	±.0016"	9.843"	.197"	.5"	.630"	1.181"	.039"

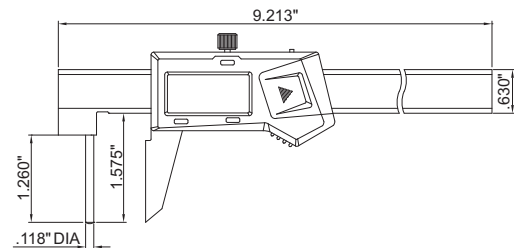
ELECTRONIC TUBE THICKNESS CALIPER



1161-150A

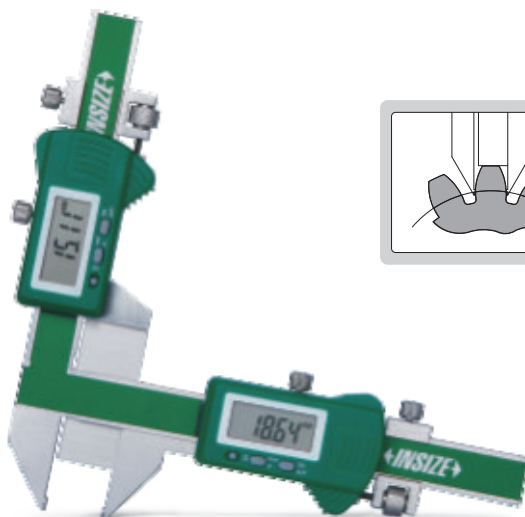


- Measures wall thickness of tubes
- Resolution: .0005"/0.01mm
- Buttons: on/off, zero, inch/mm
- Automatic power off, move the digital unit to turn on power
- Battery CR2032
- Data output
- Made of stainless steel
- Optional accessory: SPC cable (page 1-2)
- Supplied in fitted storage case

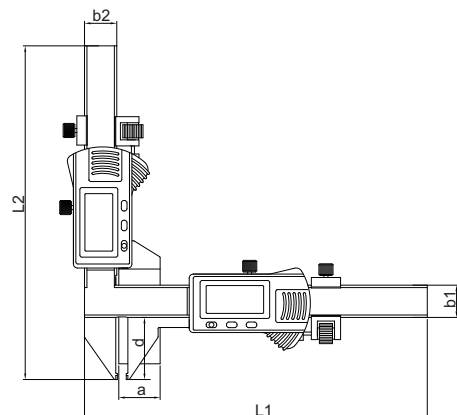
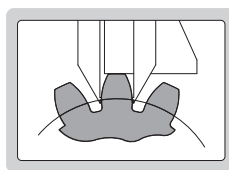


Order No.	EDP No.	Range	Accuracy
1161-150A	280502	0-6"/0-150mm	±.002"

ELECTRONIC GEAR TOOTH CALIPER



1181-M25A



- Resolution: .0005"/0.01mm
- Carbide tips
- Buttons: zero, on/off, inch/mm
- Battery SR44 or LR44
- Made of stainless steel
- Supplied in fitted storage case

Order No.	EDP No.	Range	Accuracy	L1	L2	a	b1	b2	d
1181-M25A	280658	P1-P24	±.0016"	6.693"	6.516"	.827"	.630"	.630"	1.201"
1181-M50A	280659	P1/2-P5	±.0016"	8.661"	7.480"	1.988"	.630"	.630"	2.165"

ELECTRONIC HEIGHT GAGE

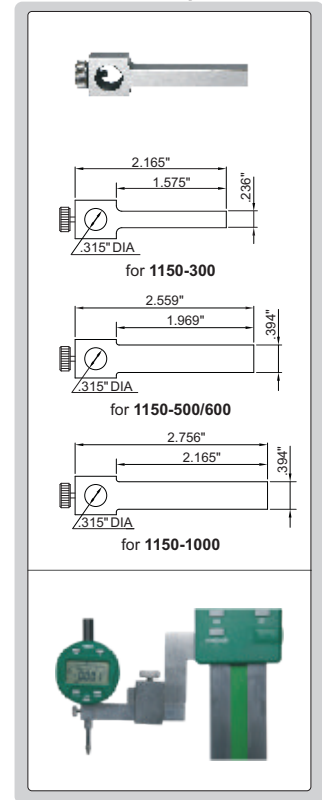


1150-1000

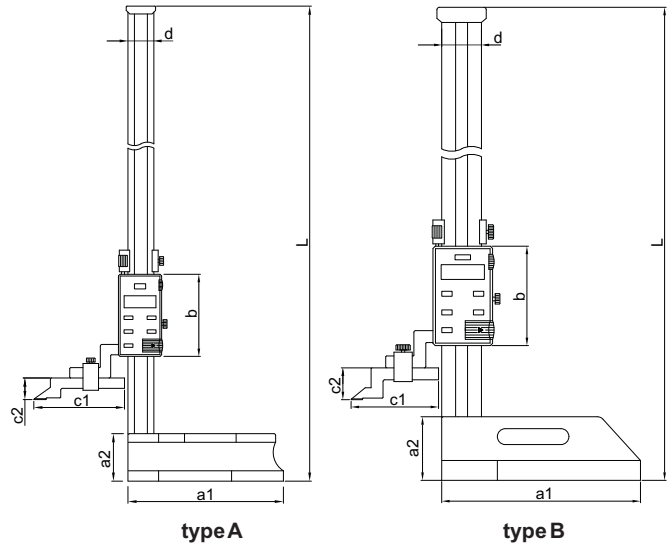


1150-500

clamp

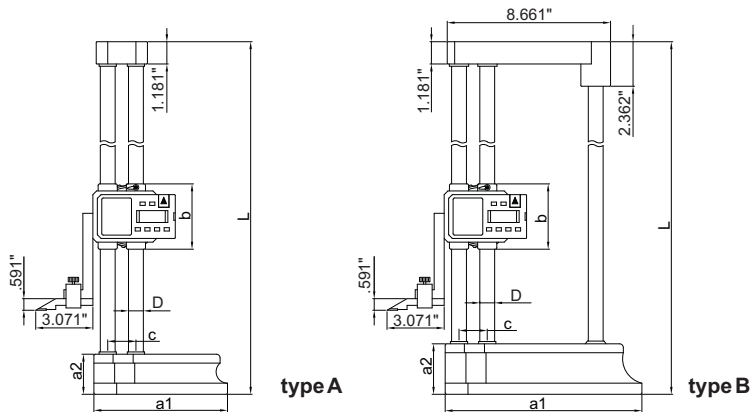


- Resolution: .0005"/0.01mm
- Buttons: on/off, zero, inch/mm, ABS/INC, data hold, TOL, set
- ABS/INC is for absolute and incremental measurement
- TOL is for tolerance measurement
- Carbide tipped scriber
- Made of stainless steel (except the base)
- SR44 or LR44 battery
- Data output
- Supplied with clamp
- Optional accessory: SPC cable (order no. **7301-SPC5**)
- Supplied in fitted storage case



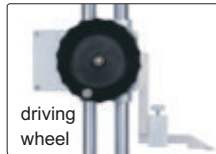
OrderNo.	EDPNo.	Range	Type	Accuracy	L	a1	a2	b	c1	c2	d
1150-300	280756	0-12"/0-300mm	A	±.0016"	18.504"	5.315"	1.772"	3.150"	2.992"	.984"	.906"
1150-500	280757	0-20"/0-500mm	A	±.002"	28.346"	7.087"	2.165"	3.740"	4.055"	.984"	1.181"
1150-600	280758	0-24"/0-600mm	A	±.002"	32.283"	7.087"	2.165"	3.740"	4.055"	.984"	1.181"
1150-1000	280759	0-40"/0-1000mm	B	±.0028"	50.197"	9.843"	3.150"	4.921"	4.331"	1.535"	1.969"

ELECTRONIC HEIGHT GAGE



NEW SIZES!

- Resolution: .001"/0.01mm
- Buttons: on/off, zero, inch/mm, ABS/INC, preset +, preset -, set
- ABS/INC is for absolute and incremental measurement
- Carbide tipped scriber
- Made of stainless steel (except the base)
- SR44 or LR44 battery
- Data output
- With driving wheel
- Optional accessory: SPC cable (order no. 7301-SPC2)
- Supplied in fitted storage case



1151-300

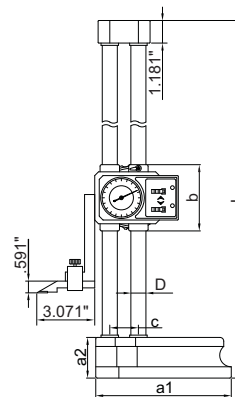
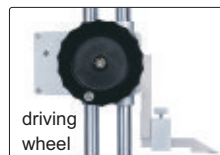


1151-1000

OrderNo.	EDP No.	Range	Type	Accuracy	L	a1	a2	b	c	D
1151-300	816100	0-12"/0-300mm	A	±.0016"	18.701"	5.315"	1.693"	3.307"	1.299"	.591" DIA
1151-450	816102	0-18"/0-450mm	A	±.002"	25.984"	7.087"	2.126"	3.465"	1.496"	.787" DIA
1151-600	816104	0-24"/0-600mm	A	±.002"	31.890"	7.087"	2.126"	3.465"	1.496"	.787" DIA
1151-1000	816106	0-40"/0-1000mm	B	±.0028"	48.425"	10.433"	2.677"	3.465"	1.496"	.787" DIA

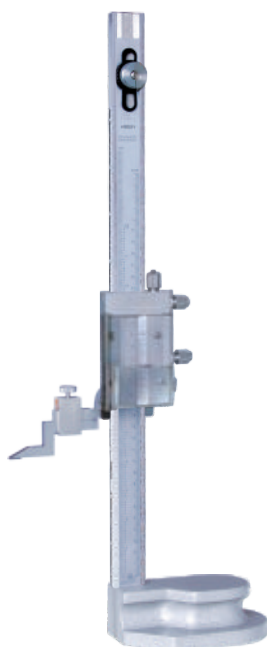
DIAL HEIGHT GAGE

- Dial indicator graduation: .001"
- One counter reads in the plus direction and the other in the minus direction, so incremental measurements can be made in either direction
- Carbide tipped scriber
- Made of stainless steel (except the base)
- With driving wheel
- Supplied in fitted storage case

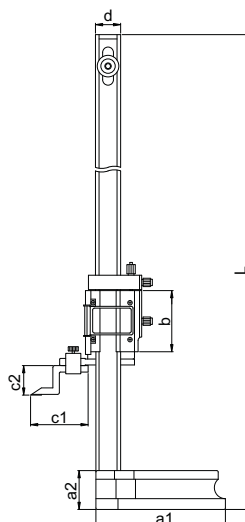


1351-12

OrderNo.	EDP No.	Range	Accuracy	L	a1	a2	b	c	D
1351-12	280769	0-12"	±.0016"	18.701"	5.315"	1.693"	3.307"	1.299"	.591" DIA
1351-18	280770	0-18"	±.002"	25.984"	7.087"	2.126"	3.465"	1.496"	.787" DIA
1351-24	280772	0-24"	±.002"	31.890"	7.087"	2.126"	3.465"	1.496"	.787" DIA



1250-300



VERNIER HEIGHT GAGE

- Graduation: .001"/0.02mm
- Adjustable main scale to set zero
- Carbide tipped scriber
- Made of stainless steel (except the base)
- Satin chrome plated scale
- Supplied with magnifier
- With fine adjustment
- Supplied in fitted storage case

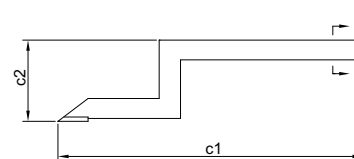
Order No.	EDP No.	Range	Accuracy	L	a1	a2	b	c1	c2	d
1250-300	280780	0-12"/0-300mm	±.0016"	21.457"	5.315"	1.693"	2.953"	3.150"	1.181"	1.102"
1250-450	280781	0-18"/0-450mm	±.002"	28.346"	7.087"	2.126"	3.346"	3.150"	1.614"	1.378"
1250-600	280783	0-24"/0-600mm	±.002"	34.252"	7.087"	2.126"	3.346"	3.150"	1.614"	1.378"



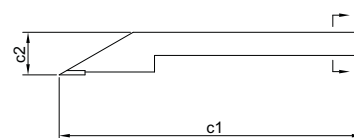
7150-SC1

NEW SIZES!

SCRIBER FOR HEIGHT GAGES



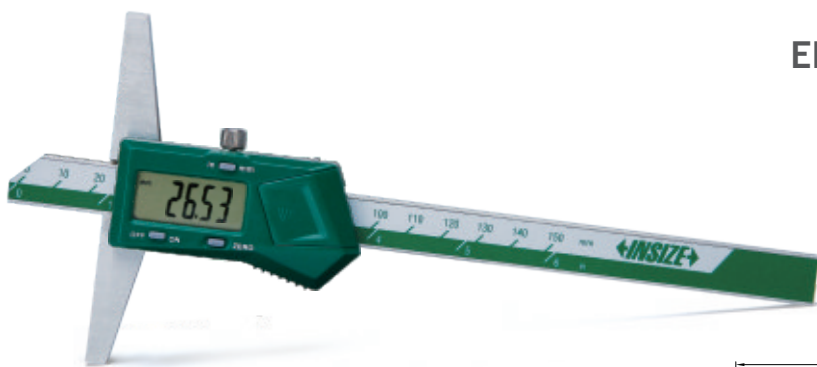
type A



type B

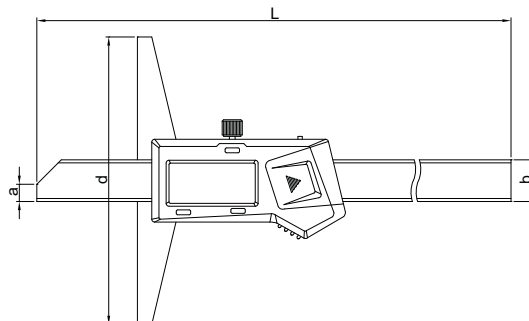
- Carbide tipped

Order No.	EDP No.	For Height Gages	Type	c1	c2	D	E
7150-SC1	280786	1150-300	A	2.992"	.984"	.236"	.315"
7150-SC2	280787	1150-500, 1150-600	A	4.055"	.984"	.394"	.472"
7150-SC3	280788	1150-1000	A	4.331"	1.535"	.394"	.591"
7150-SC4	280789	1151-300, 1151-450, 1151-600, 1151-1000, 1351-12, 1351-18, 1351-24	B	3.071"	.591"	.354"	.354"
7150-SC6	280791	1250-300	A	3.150"	1.181"	.354"	.354"
7150-SC7	280792	1250-450, 1250-600	A	3.150"	1.614"	.354"	.354"

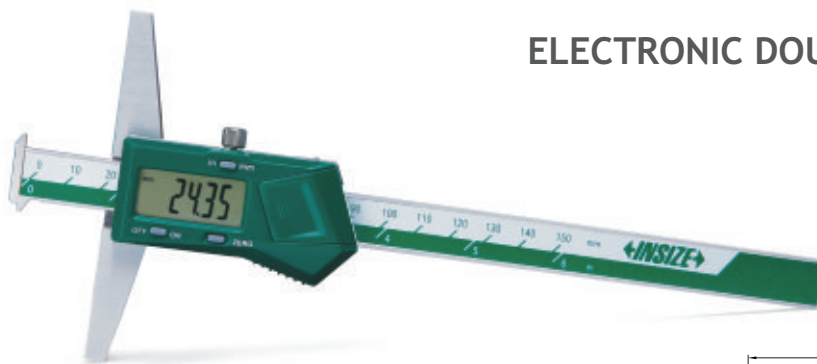


1141-150A

- 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: SPC cable (page 1-2)
- Supplied in fitted storage case

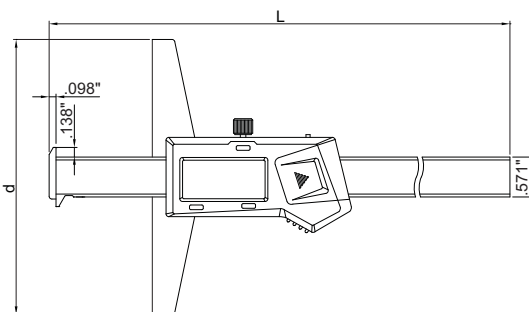


OrderNo.	EDPNo.	Range	Accuracy	L	a	b	d
1141-150A	816040	0-6"/0-150mm	±.0012"	9.055"	.236"	.571"	3.937"
1141-200A	816042	0-8"/0-200mm	±.0012"	11.024"	.236"	.571"	3.937"
1141-300A	816044	0-12"/0-300mm	±.0016"	14.961"	.236"	.571"	5.906"

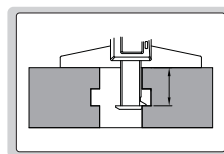
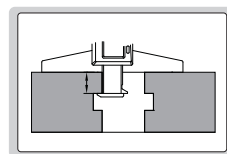


1144-150A

- 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: SPC cable (page 1-2)
- Supplied in fitted storage case



OrderNo.	EDPNo.	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	±.0016"	15.079"	5.906"



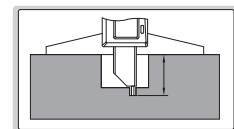
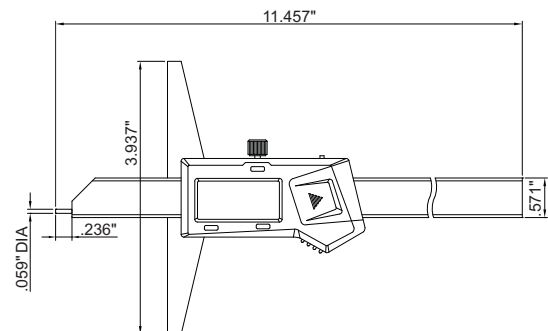
NEW ITEM!

ELECTRONIC POINT DEPTH GAGE



1143-200A

- 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: SPC cable (page 1-2)
- Supplied in fitted storage case



Order No.	EDP No.	Range	Accuracy
1143-200A	877004	0-8"/0-200mm	±.0012"

DIAL DEPTH CALIPER



1348-6

NEW SIZES!

Order No.	EDP No.	Range	Base Length
1348-6	280687	0-6"	3.9"
1348-8	280688	0-8"	3.9"
1348-12	280689	0-12"	3.9"

- Dial indicator graduation: .001"
- Shock proof dial indicator
- Made of stainless steel
- Supplied in fitted storage case

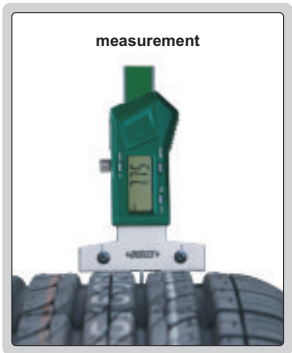
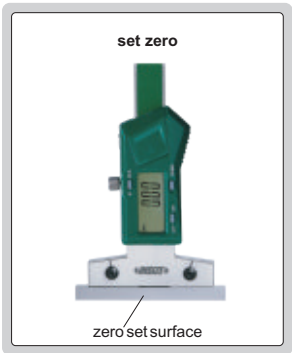
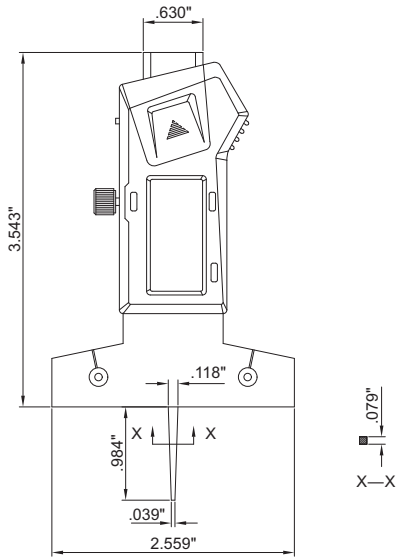
ELECTRONIC DEPTH GAGE



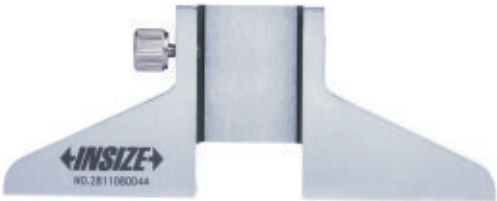
1145-25A

- Measures depth of small grooves and holes, also measures depth of tire treads
- 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: SPC cable (page 1-2)
- Supplied in fitted storage case

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



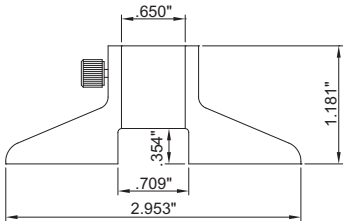
DEPTH BASE ATTACHMENT



6140

Order No.	EDP No.
6140	816046

- To increase the stability of depth measurement
- Suitable for 0-6" and 0-8" of vernier calipers, electronic calipers and dial calipers with beam width of .630"
- Made of stainless steel



DIAL DEPTH GAGE

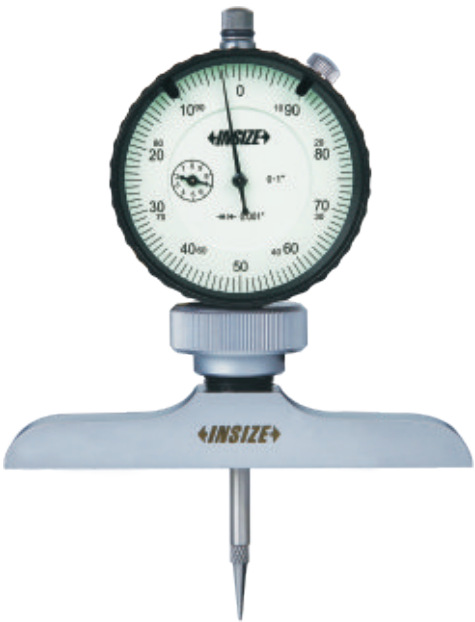
NEW ITEM!

- Stainless steel base
- Supplied with pointed tip 0 - .4" and ball tips 0 - .4", .4 - .8", .8 - 1.2"
- Supplied in fitted storage case

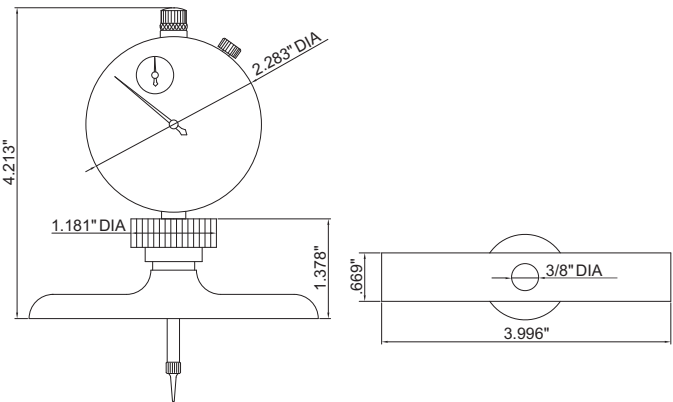
OrderNo.	EDP No.	Range	Accuracy	Dial Indicator Range	Dial Indicator Graduation	Base
2341-E1	283207	0-1.2"	±.0012"	0-.5"	.001"	2.480 x .669"



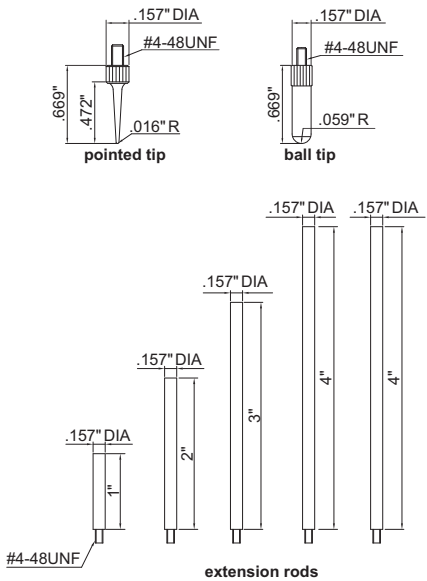
2341-E1



2341-2E2



DIAL DEPTH GAGE



- Stainless steel base
- Extension rods: 1" (1pc), 2" (1pc), 3" (1pc), 4" (2pcs)
- Supplied with pointed tip and ball tip
- Supplied in fitted storage case

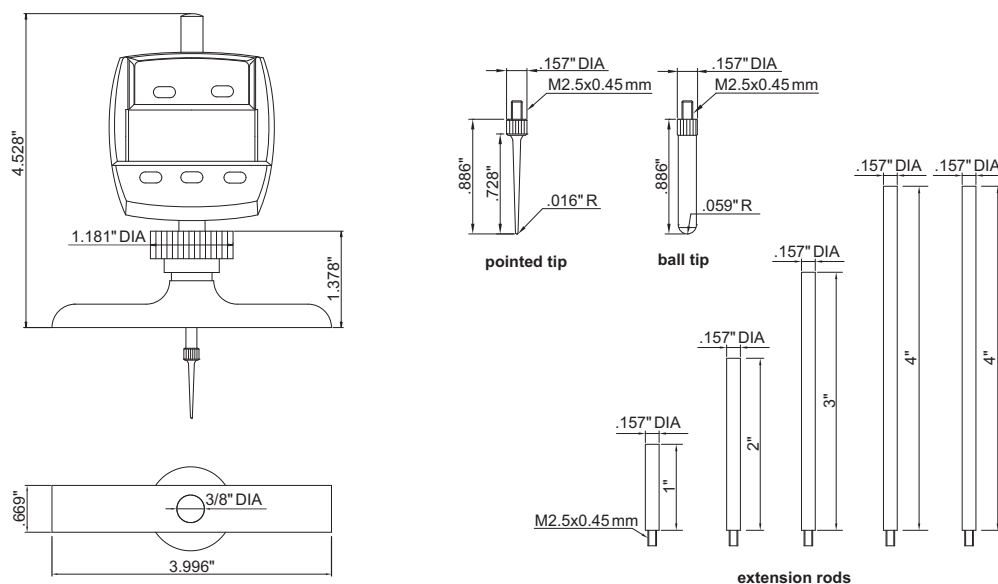
OrderNo.	EDP No.	Range	Accuracy	Dial Indicator Range	Dial Indicator Graduation	Base
2341-2E2	876241	0-12"	±.0012"	0-1"	.001"	3.996 x .669"

ELECTRONIC DEPTH GAGE

NEW ITEM!



2141-202



- Mode button : to capture minimum or maximum reading
- '+/-' button: to change measuring direction
- CR2032 battery, automatic power off
- Stainless steel base
- Extension rods: 1"(1pc), 2"(1pc), 3"(1pc), 4"(2pcs)
- Supplied with pointed tip and ball tip
- Supplied in fitted storage case

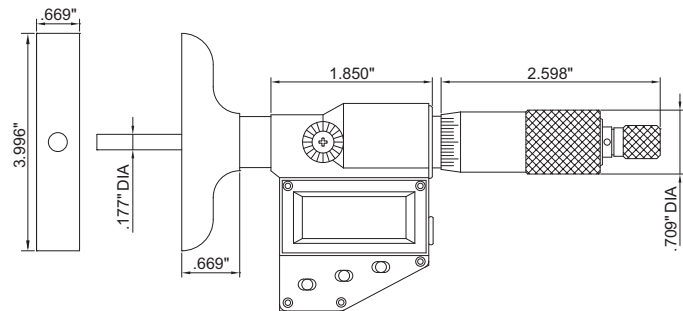
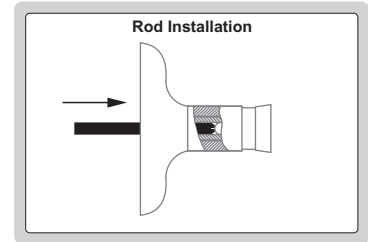
Order No.	EDP No.	Range	Accuracy	Electronic Indicator Stroke	Electronic Indicator Resolution	Base
2141-202	876243	0-12"/0-300mm	±.0012"	1"/25.4mm	.0005"/0.005mm	3.996 x .669"

ELECTRONIC DEPTH MICROMETER



3540-150E

- Resolution: .00005"/0.001mm
- Micrometer head accuracy: $\pm .00012"$
- Rod accuracy: $\pm [.001 + .0005(L/3)]"$, L is the measuring range in inch
- Button functions: on/off, set, inch/mm, ABS/INC, data output
- IP54 dust/coolant proof
- Data output
- SR44 or LR44 battery, automatic power off
- Rods with flat end
- Ratchet stop
- Optional accessory: SPC cable (page 1-2)
- Supplied in fitted storage case



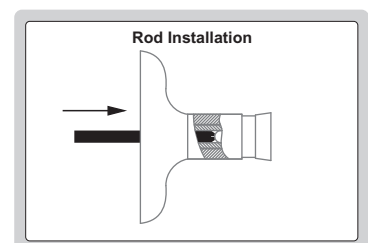
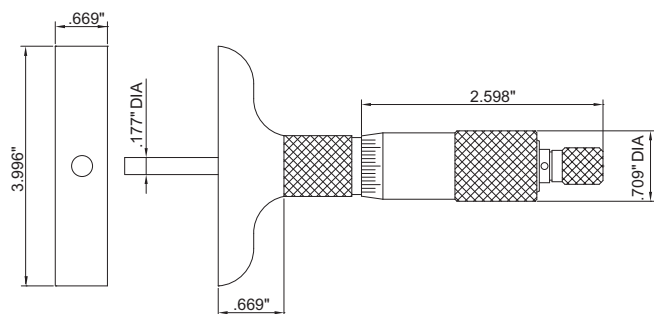
OrderNo.	EDP No.	Range	Rods
3540-150E	281945	0-6"/0-150mm	6pcs
3540-300E	281947	0-12"/0-300mm	12pcs

DEPTH MICROMETER



3240-6

- 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
- Supplied in fitted storage case

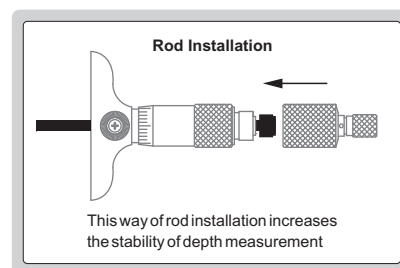
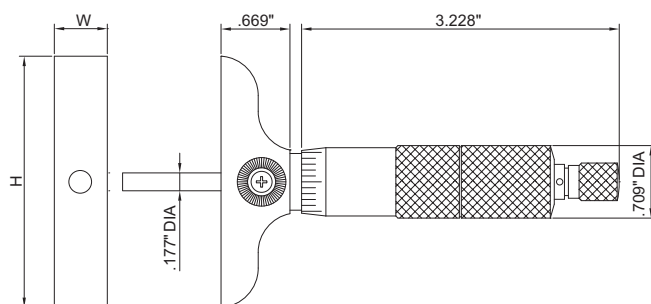


OrderNo.	EDP No.	Range	Rods
3240-6	281939	0-6"	6pcs

DEPTH MICROMETER



3241-4



- 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
- Supplied in fitted storage case

Base: HxW=3.996"x.669"

Order 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: HxW=2.480"x.669"

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



ELECTRONIC OUTSIDE MICROMETER

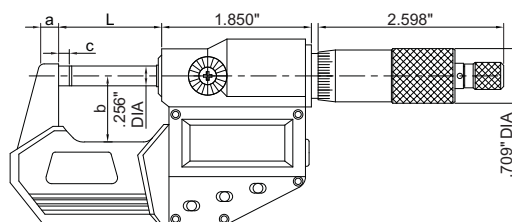


3101-25E



NEW SIZES!

- Resolution .00005"/0.001mm
(resolution of **3101-275E** and **3101-300E** is .0001"/0.001mm)
- IP65 dust/coolant proof
- Button functions: on/off, set, inch/mm, ABS/INC, data output
- Data output
- SR44 or LR44 battery, automatic power off
- Ratchet stop
- Carbide tips
- Supplied with spherical anvil
- Setting standards are included (except with 0-1"/0-25mm)
- Optional accessory: SPC cable (page 1-2)
- Supplied in fitted storage case



Order No.	EDP No.	Range	Accuracy	L	a	b	c
3101-25E	280838	0-1"/0-25mm	±.00008"	1.280"	.236"	.945"	.118"
3101-50E	280839	1-2"/25-50mm	±.00008"	2.264"	.315"	1.260"	.118"
3101-75E	280840	2-3"/50-75mm	±.00012"	3.248"	.315"	1.752"	.118"
3101-100E	280841	3-4"/75-100mm	±.00012"	4.232"	.315"	2.244"	.118"
3101-125E	280842	4-5"/100-125mm	±.00012"	5.236"	.394"	2.756"	.118"
3101-150E	280843	5-6"/125-150mm	±.00012"	6.240"	.394"	3.228"	.118"
3101-175E	280829	6-7"/150-175mm	±.00016"	7.244"	.472"	3.720"	.217"
3101-200E	280830	7-8"/175-200mm	±.00016"	8.248"	.472"	4.213"	.217"
3101-225E	280846	8-9"/200-225mm	±.00016"	9.213"	.764"	5.098"	.217"
3101-250E	280847	9-10"/225-250mm	±.00016"	10.217"	.764"	5.610"	.217"
3101-275E	280848	10-11"/250-275mm	±.0002"	11.220"	.764"	6.102"	.217"
3101-300E	280849	11-12"/275-300mm	±.0002"	12.224"	.764"	6.594"	.217"

Micrometer sets

Order No.	EDP No.	Range	Micrometers Included
3101-44E	285125	0-4"/0-100mm	3101-25E, 3101-50E, 3101-75E, 3101-100E
3101-66E	285126	0-6"/0-150mm	3101-25E, 3101-50E, 3101-75E, 3101-100E, 3101-125E, 3101-150E



ELECTRONIC OUTSIDE MICROMETER

IP54

NEW ITEM!

- Resolution .00005"
- IP54 dust/coolant proof
- Button functions: on/off, set, ABS/INC
- Without data output
- SR44 or LR44 battery, automatic power off
- Ratchet stop
- Carbide tips
- Supplied with spherical anvil
- Setting standards are included (except with 0-1")
- Supplied in fitted storage case

3108-1

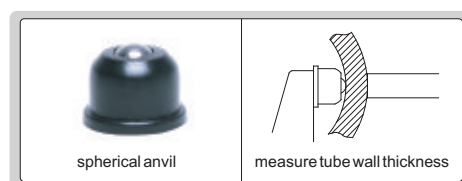
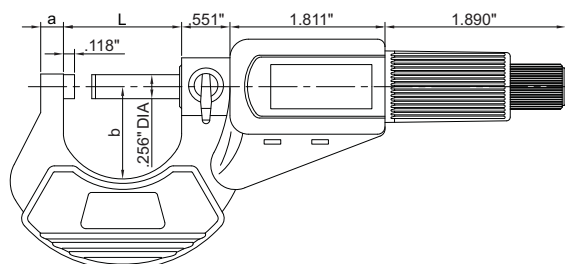
Order No.	EDP No.	Range
3108-1	280868	0-1"
3108-2	280869	1-2"
3108-3	280870	2-3"
3108-4	280871	3-4"
3108-5	280872	4-5"
3108-6	280873	5-6"
3108-7	280874	6-7"
3108-8	280875	7-8"



3109-25E

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

ELECTRONIC OUTSIDE MICROMETER



Order No.	EDP No.	Range	Accuracy	L	a	b
3109-25E	816500	0-1"/0-25mm	±.00008"	1.260"	.236"	1.083"
3109-50E	816502	1-2"/25-50mm	±.00008"	2.244"	.315"	1.457"
3109-75E	816504	2-3"/50-75mm	±.00012"	3.228"	.315"	1.969"
3109-100E	816506	3-4"/75-100mm	±.00012"	4.213"	.394"	2.402"
3109-125E	816508	4-5"/100-125mm	±.00012"	5.236"	.669"	2.756"
3109-150E	816510	5-6"/125-150mm	±.00012"	6.220"	.669"	3.346"
3109-175E	280883	6-7"/150-175mm	±.00016"	7.205"	.787"	4.094"
3109-200E	280884	7-8"/175-200mm	±.00016"	8.228"	.787"	4.528"

Micrometer set

Order No.	EDP No.	Range	Micrometers Included
3109-44E	280886	0-4"/0-100mm	3109-25E, 3109-50E, 3109-75E, 3109-100E

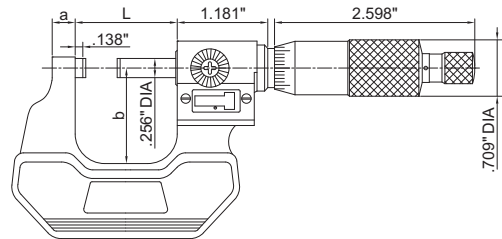


OUTSIDE MICROMETER WITH COUNTER



3400-1

Order 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"	.0002"	3.228"	.315"	1.752"
3400-4	280936	3-4"	.0002"	4.213"	.315"	2.244"
3400-5	280937	4-5"	.00024"	5.213"	.315"	2.827"
3400-6	280938	5-6"	.00024"	6.213"	.315"	3.307"



- Counter resolution: .001"
- Thimble graduation: .0001"
- Carbide tips
- Ratchet stop
- Supplied with setting standards (except with 0-1")
- Supplied in fitted storage case

OUTSIDE MICROMETER

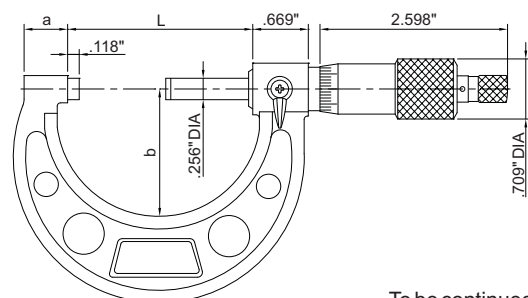
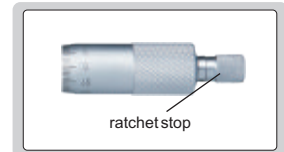


3203-1A



3203-2A

- Graduation: imperial .0001"
metric 0.01mm
- Carbide tips
- Supplied with setting standards (except with 0-1" and 0-25mm)
- Supplied in fitted storage case



To be continued

Continued from page 25

Imperial (ratchet stop type)

Order 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"	.0002"	3.228"	.591"	1.929"
3203-4A	816570	3-4"	.0002"	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 (ratchet thimble type)

Order No.	EDP No.	Range	Accuracy	L	a	b
3203-1FA	816565	0-1"	.00016"	1.260"	.354"	1.102"

Imperial micrometer sets (ratchet stop type)

Order 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 (ratchet stop type)

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

Metric micrometer sets (ratchet stop type)

Order 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

NEW ITEM!



3202-1

- Graduation .0001"
- Ratchet stop
- Carbide tips
- Supplied with setting standards (except with 0-1")
- Supplied in fitted storage case

OUTSIDE MICROMETER

Order No.	EDP No.	Range
3202-1	281005	0-1"
3202-2	281006	1-2"
3202-3	281007	2-3"
3202-4	281008	3-4"
3202-5	281009	4-5"
3202-6	281010	5-6"
3202-7	281011	6-7"
3202-8	281012	7-8"



3200-1

- Chrome plated frame
- Graduation .0001"
- Ratchet stop
- Carbide tips
- Supplied with setting standards (except with 0-1")
- Supplied in fitted storage case

OUTSIDE MICROMETER

Order No.	EDP No.	Range
3200-1	280976	0-1"
3200-2	280977	1-2"
3200-3	280978	2-3"



3208-1

- Graduation .0005"
- .05" feeding of each turn
- Ratchet thimble
- Carbide tips
- Supplied in fitted storage case

QUICK SETTING OUTSIDE MICROMETER

Order No.	EDP No.	Range
3208-1	281115	0-1"

NO PARALLAX OUTSIDE MICROMETER



3207-1

- Graduation .0001"
- No parallax
- Ratchet stop
- Carbide tips
- Supplied with setting standards (except with 0-1")
- Supplied in fitted storage case

Order No.	EDP No.	Range
3207-1	281097	0-1"
3207-2	281098	1-2"
3207-3	281099	2-3"

OUTSIDE MICROMETER FOR LEFT AND RIGHT HAND



front



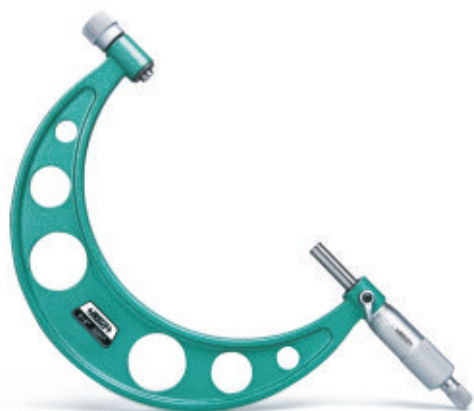
back

3236-1

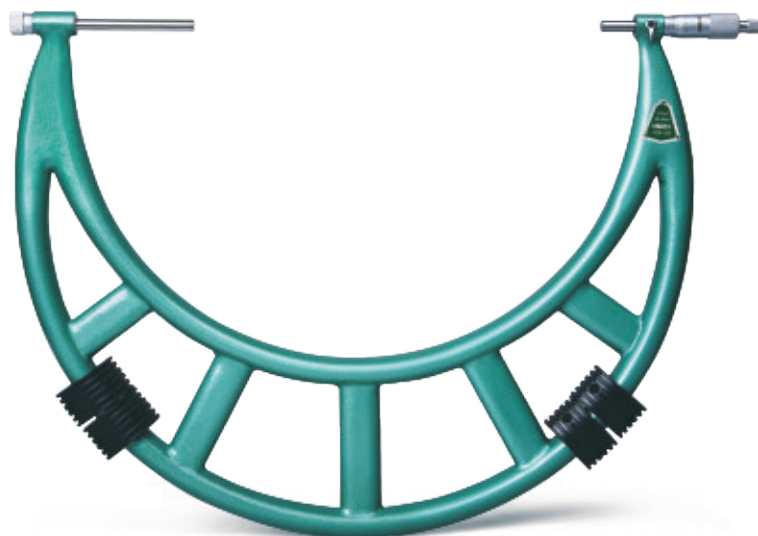
Order No.	EDP No.	Range
3236-1	281131	0-1"
3236-2	281132	1-2"
3236-3	281133	2-3"

- Graduation .001"
- Graduations on two sides
- Ratchet stop
- Carbide tips
- Supplied with setting standards (except with 0-1")
- Supplied in fitted storage case

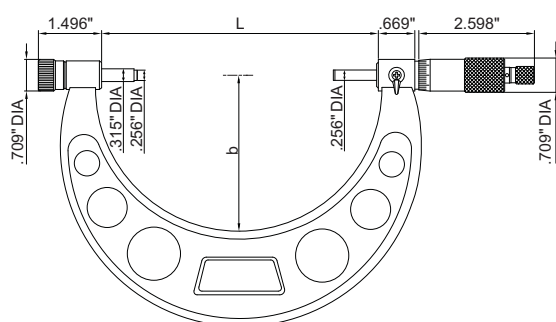
OUTSIDE MICROMETER WITH INTERCHANGEABLE ANVILS



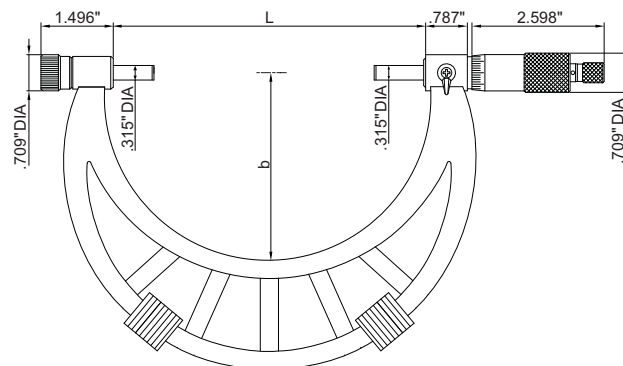
3206-6



3206-16



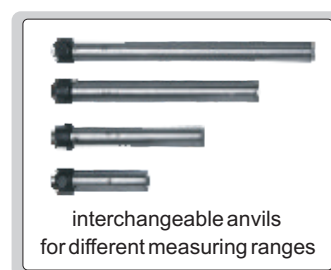
type A



type B

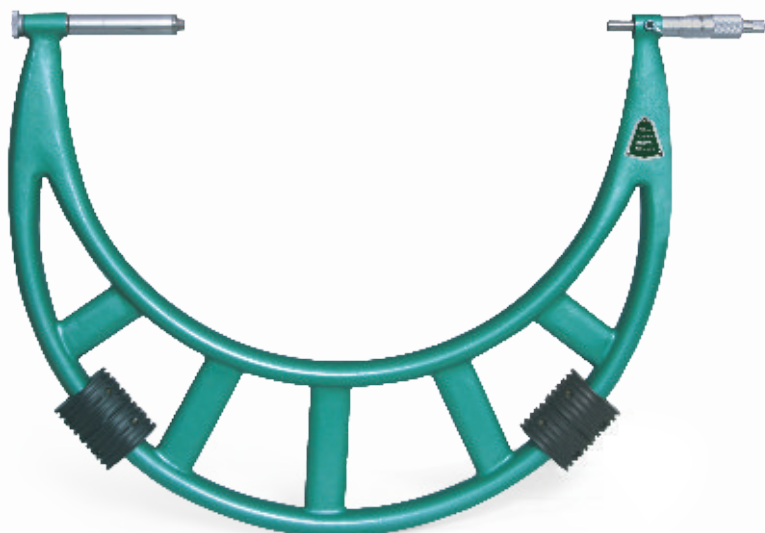
NEW SIZES!

Order No.	EDP No.	Range	Type	Accuracy	L	b
3206-2	281180	0-2"	A	.00016"	2.283"	1.378"
3206-4	281181	0-4"	A	.0002"	4.252"	2.244"
3206-6	281182	0-6"	A	.00024"	6.220"	3.228"
3206-8	281183	4-8"	A	.00024"	8.189"	4.488"
3206-12	281186	6-12"	A	.00028"	12.126"	6.496"
3206-16	281188	12-16"	B	.00035"	16.102"	8.819"
3206-20	281189	16-20"	B	.00035"	20.039"	10.827"
3206-24	281190	20-24"	B	.00043"	23.976"	12.638"
3206-28	281191	24-28"	B	.00051"	27.913"	14.606"
3206-32	281192	28-32"	B	.00055"	31.850"	16.772"
3206-36	281193	32-36"	B	.00063"	35.787"	18.740"
3206-40	281194	36-40"	B	.00071"	39.724"	22.677"

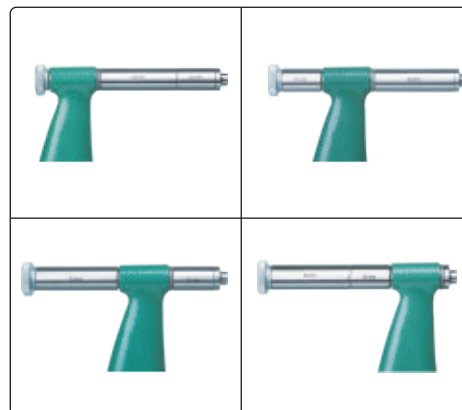


- Graduation: .0001" (within 12")
.001" (over 12")
- Ratchet stop
- Carbide tips
- Supplied with setting standards
- Supplied in fitted storage case

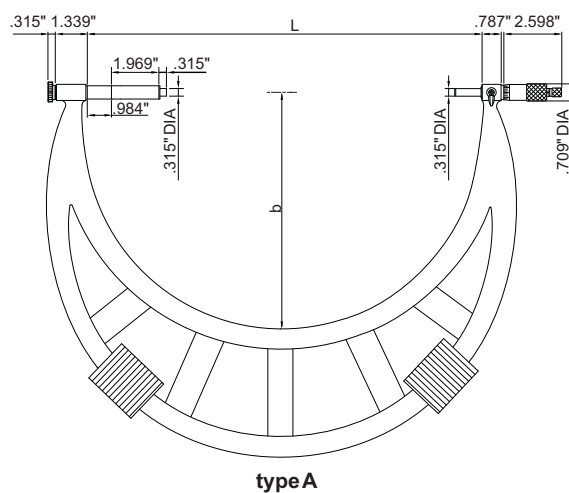
OUTSIDE MICROMETER WITH EXTENSION ANVIL COLLAR



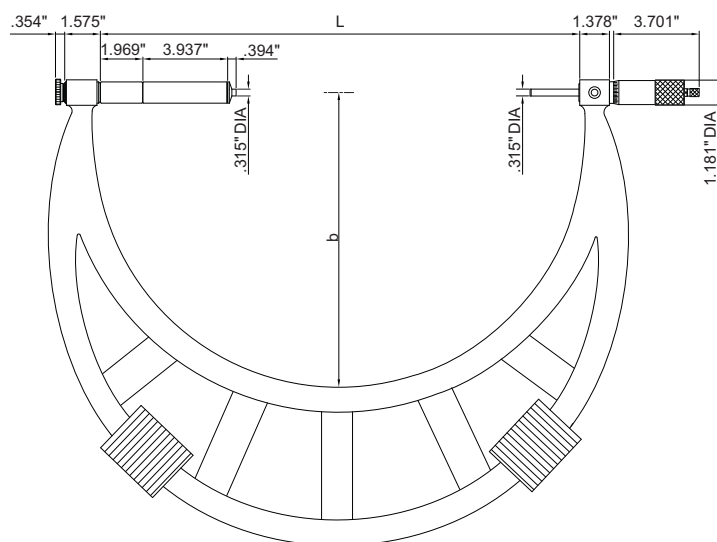
3205-16



add anvils for different measuring ranges



type A



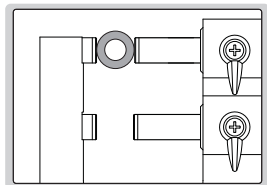
type B

NEW SIZES!

Order No.	EDP No.	Range	Type	Accuracy	L	b
3205-16	281153	12-16"	A	.00043"	16.142"	9.843"
3205-20	281154	16-20"	A	.00051"	20.079"	11.614"
3205-24	281155	20-24"	A	.00055"	24.016"	13.583"
3205-28	281156	24-28"	A	.00063"	27.953"	15.551"
3205-32	281157	28-32"	A	.00071"	31.890"	17.520"
3205-36	281158	32-36"	A	.00079"	35.827"	19.488"
3205-40	281159	36-40"	A	.00087"	39.764"	21.457"
3205-48	281160	40-48"	B	.00087"	47.638"	25.394"
3205-56	281161	48-56"	B	.00094"	55.512"	29.331"
3205-64	281162	56-64"	B	.00110"	63.386"	33.268"
3205-72	281163	64-72"	B	.00122"	71.260"	37.205"
3205-80	281164	72-80"	B	.00134"	79.134"	41.142"

- Graduation: .001" (within 40")
.0005" (over 40")
- Add anvils for different measuring ranges
- Ratchet stop
- Carbide tips
- Supplied with setting standards
- Supplied in fitted storage case

LIMIT MICROMETER



3235-1

- Used as Go/No-Go gage by setting upper and lower limits
- Graduation .0001"
- Ratchet stop
- Carbide tips
- Supplied with setting standard (except with 0-1")
- Supplied in fitted storage case

Order No.	EDP No.	Range
3235-1	281830	0-1"
3235-2	281831	1-2"

INDICATING MICROMETER



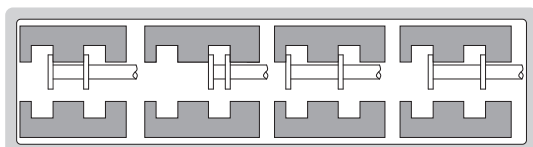
3332-2

- Micrometer head graduation: .0001"
- Dial indicator: range ± 0.015 ", graduation .00005", accuracy .00004"
- Carbide tips
- Supplied with setting standards (except with 0-1")
- Supplied in fitted storage case

Order No.	EDP No.	Micrometer Head Range
3332-1	281845	0-1"
3332-2	281846	1-2"

GROOVE MICROMETER

- Graduation .001"
- Measures widths of grooves inside of bores
- Non-rotating spindle
- Two graduations for inside and outside measurement
- Supplied in fitted storage case



3287-1

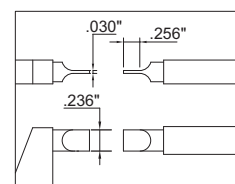
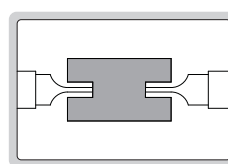
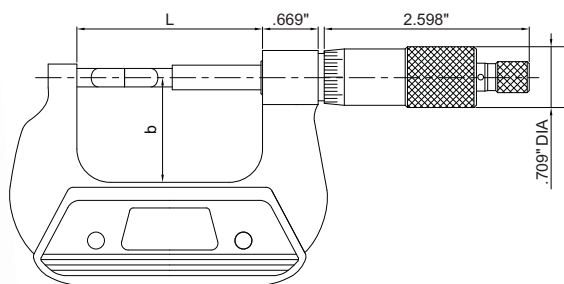
Order No.	EDP No.	Range (outside)	Range (inside)
3287-1	281908	0-1"	.06-1.05"
3287-2	281909	1-2"	1.05-2.05"
3287-3	281910	2-3"	2.05-3.05"
3287-4	281911	3-4"	3.05-4.05"

BLADE MICROMETER



3232-1

Order 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"	.0002"	4.213"	2.244"
3232-4	281323	3-4"	.0002"	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"



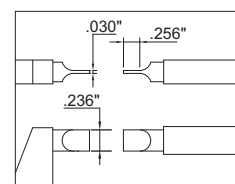
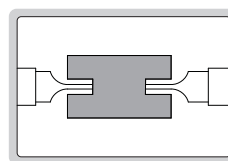
- Measures the groove diameters of shafts and keyways
- Graduation .0001"
- Non-rotating spindle
- Ratchet stop
- Supplied with setting standards (except with 0-1")
- Supplied in fitted storage case

ELECTRONIC BLADE MICROMETER



3532-25E

Order No.	EDP No.	Range
3532-25E	281327	0-1"/0-25mm
3532-50E	281328	1-2"/25-50mm
3532-75E	281329	2-3"/50-75mm

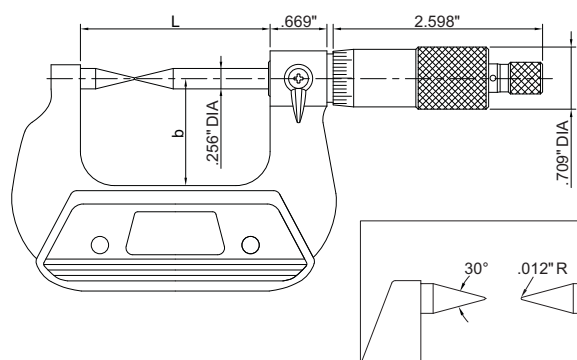


- Measures the groove diameters of shafts and keyways
- Resolution .00005"/0.001mm
- Non-rotating spindle
- Button functions: on/off, set, inch/mm, ABS/INC, data output
- Data output
- SR44 or LR44 battery, automatic power off
- Ratchet stop
- Supplied with setting standards (except with 0-1"/0-25mm)
- Optional accessory: SPC cable (page 1-2)
- Supplied in fitted storage case

POINT MICROMETER



3230-1



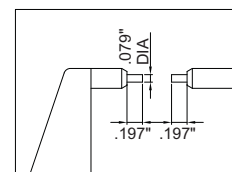
Order No.	EDP No.	Range	Accuracy	L	b
3230-1	281345	0-1"	.00016"	2.244"	1.260"
3230-2	281346	1-2"	.00016"	3.228"	1.752"
3230-3	281347	2-3"	.0002"	4.213"	2.244"
3230-4	281348	3-4"	.0002"	5.220"	2.736"

- Measures the web thickness of drills, small grooves and keyways
- Graduation .0001"
- Ratchet stop
- Carbide tips
- Supplied with setting standards (except with 0-1")
- Supplied in fitted storage case



3233-1

SPLINE MICROMETER



NEW SIZES!

Order No.	EDP No.	Range
3233-1	281364	0-1"
3233-2	281365	1-2"
3233-3	281366	2-3"
3233-4	281367	3-4"

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

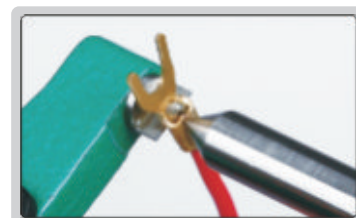
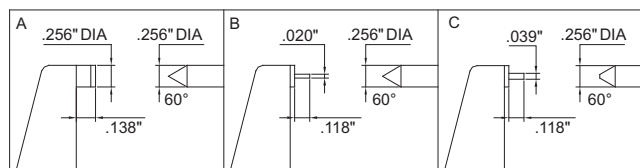
CRIMP HEIGHT MICROMETER

NEW ITEM!



3266-1

Order No.	EDP No.	Range	Type
3266-1	281389	0-1"	A
3266-1B	281395	0-1"	B
3266-1C	281399	0-1"	C
3266-2	281390	1-2"	A

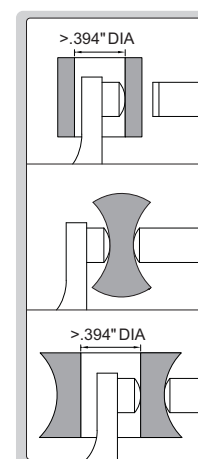
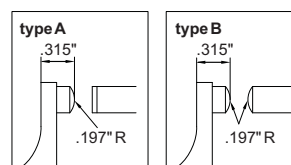
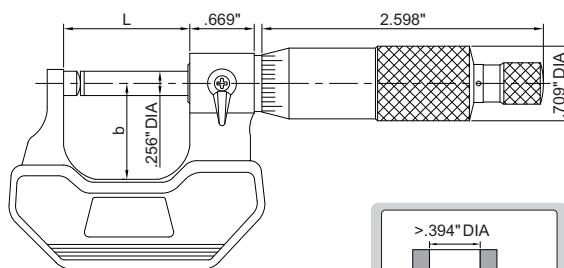


- Measures the height of crimped contacts
- Graduation .0001"
- Ratchet stop
- Supplied with setting standards (except with 0-1")
- Supplied in fitted storage case

SPHERICAL ANVIL TUBE MICROMETER



3260-1



Order No.	EDP No.	Range	Type	Accuracy	L	b
3260-1	281457	0-1"	A	.00016"	1.260"	.945"
3260-1S	281461	0-1"	B	.00016"	1.260"	.945"
3260-2	281458	1-2"	A	.00016"	2.244"	1.260"
3260-3	281459	2-3"	A	.0002"	3.228"	1.752"

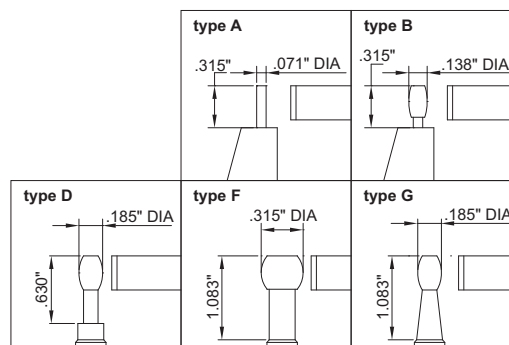
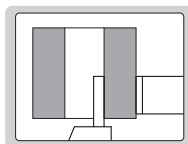
- Measures wall thickness of tubes
- Graduation .0001"
- Ratchet stop
- Carbide tips
- Supplied with setting standards (except with 0-1")
- Supplied in fitted storage case



3261-1

NEW SIZES!

Order No.	EDP No.	Range	Type
3261-1	281480	0-1"	A
3261-1B	281482	0-1"	B
3261-1C	281483	0-1"	G
3261-1D	281484	0-1"	D
3261-1F	281486	0-1"	F
3261-2	281481	1-2"	A
3261-2C	876310	1-2"	G



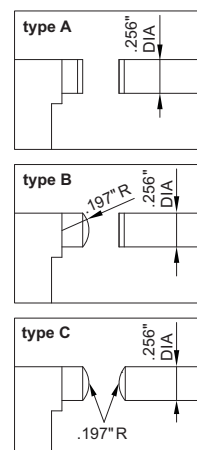
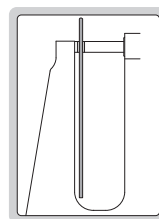
- Measures wall thickness of tubes
- Graduation .0001"
- Ratchet stop
- Carbide spindle tip
- Supplied with setting standards (except with 0-1")
- Supplied in fitted storage case



3239-13

NEW SIZES!

Order No.	EDP No.	Range	Type	Throat Depth
3239-11	281231	0-1"	A	1.969"
3239-11S	281261	0-1"	C	1.969"
3239-13	281235	0-1"	A	5.906"
3239-14F	281251	0-1"	B	11.811"
3239-21	281232	1-2"	A	1.969"
3239-23	281236	1-2"	A	5.906"
3239-24F	281252	1-2"	B	11.811"

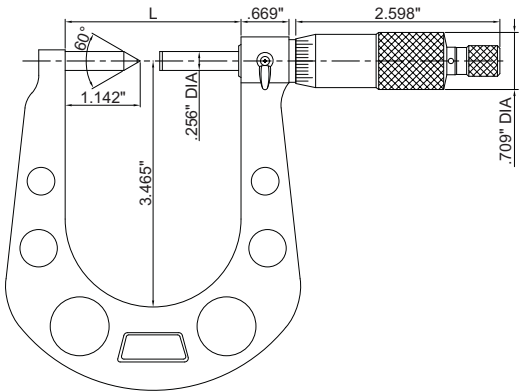


- Deep frame suitable for measurements of sheet metal, paper and plastic sheets
- Graduation .0001"
- Ratchet stop
- Carbide tips
- Supplied with setting standards (except with 0-1")
- Supplied in fitted storage case

DISK BRAKE MICROMETER



3288-1



Order No.	EDP No.	Range	L
3288-1	284542	.3-1.3"	2.539"
3288-2	284543	1-2"	3.228"

- Measures thickness of disk brakes
- Graduation .0001"
- Ratchet stop
- Carbide tips
- Supplied with setting standards
- Supplied in fitted storage case

V-ANVIL MICROMETER



3290-063

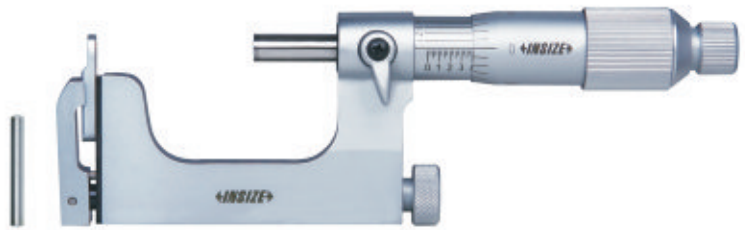
NEW SIZES!

Order No.	EDP No.	Range	Flutes
3290-063	281729	.04-.6"	3
3290-083	281730	.2-.8"	3
3290-143	281731	.8-1.4"	3
3290-105	281743	.2-1"	5
3290-267	281754	1.8-2.6"	7

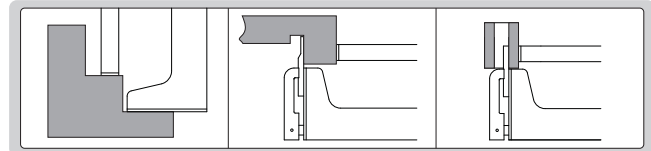
- Measures the outside diameters of cutting tools (such as taps, reamers, end mills) with 3 or 5 flutes
- Graduation .001"
- Ratchet stop
- Carbide tips
- Supplied with setting standards
- Supplied in fitted storage case

INTERCHANGEABLE ANVIL MICROMETER

- Measures tube thickness, shoulder edge distance, rivet head height, etc.
- Supplied with flat anvil and rod anvil
- Graduation .0001"
- Ratchet stop
- Carbide spindle tip
- Setting standard is included
- Supplied in fitted storage case



3262-2



Order No.	EDP No.	Range	Rod Anvil	Flat Anvil
3262-2	281494	1-2"	.2" DIA	.256 x .059"

NON ROTATING SPINDLE UNIVERSAL MICROMETER



3280-1

NEW SIZES!

- Graduation .0001"
- Non-rotating spindle
- Ratchet stop
- Supplied with 7 pairs of anvil/spindle tips
- Optional accessory: 55° anvil/spindle tips (order no. **3280-SP1** and **3280-SP2**)
- Supplied in fitted storage case

Order No.	EDP No.	Range
3280-1	281607	0-1"

standard anvil/spindle tips

Flat		
Spherical		
Spline		
Disk		
Blade		
Knife-edge		
Point		

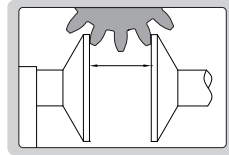
optional 55° anvil/spindle tips

Order No. 3280-SP1 (EDP No. 889330) Knife-edge		
Order No. 3280-SP2 (EDP No. 889331) Point		



3282-1

- Measures root tangent length of gear and other applications
- Graduation .0001"
- Ratchet stop
- Supplied with setting standards (except with 0-1")
- Spindle lock
- Supplied in fitted storage case



NEW SIZES!

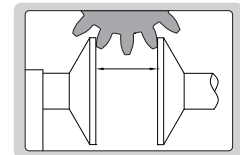
DISK MICROMETER

Order No.	EDP No.	Range	Dia. of Disk
3282-1	281575	0-1"	.8"
3282-2	281576	1-2"	.8"
3282-3	281577	2-3"	.8"
3282-4	281578	3-4"	.8"
3282-5	281579	4-5"	1.2"
3282-6	281580	5-6"	1.2"
3282-7	281581	6-7"	1.2"



3294-1

- Measures root tangent length of gear
- Graduation .0001"
- Non-rotating spindle
- Ratchet stop
- Supplied with setting standards (except with 0-1")
- Supplied in fitted storage case



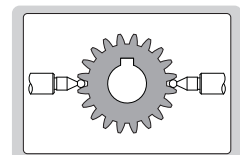
NON ROTATING SPINDLE DISK MICROMETER

Order No.	EDP No.	Range	Dia. of Disk
3294-1	281543	0-1"	.8"
3294-2	281544	1-2"	.8"
3294-3	281545	2-3"	.8"



3291-1

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



GEAR TOOTH MICROMETER

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

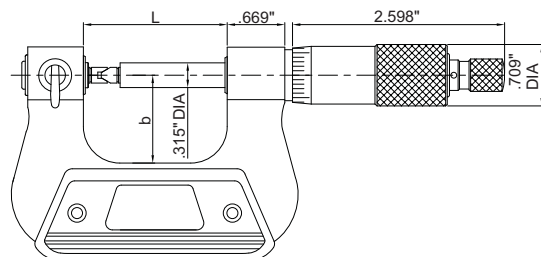
measuring tips are not included

SCREW THREAD MICROMETER

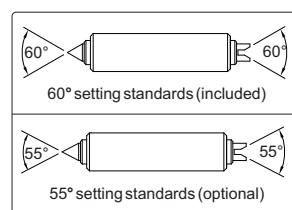


3281-1

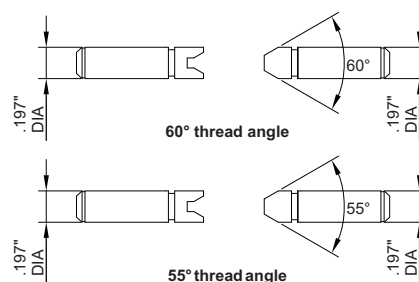
- Measures pitch diameter of screw threads
- Graduation .001"
- Non-rotating spindle
- Ratchet stop
- Supplied with 60° setting standards (except with 0-1")
- Optional accessory: 55° setting standards, measuring tips (order no. 7381)
- Supplied in fitted storage case



Order No.	EDP No.	Range	Micrometer Head Accuracy	Measuring Tips Accuracy	L	b
3281-1	281696	0-1"	.00016"	.00031"	1.654"	1.024"
3281-2	281697	1-2"	.00016"	.00031"	2.638"	1.496"
3281-3	281698	2-3"	.0002"	.00039"	3.622"	1.969"
3281-4	281699	3-4"	.0002"	.00039"	4.630"	2.441"
3281-5	281700	4-5"	.00024"	.00059"	5.630"	2.756"
3281-6	281701	5-6"	.00024"	.00059"	6.622"	3.228"



MEASURING TIPS FOR SCREW THREAD MICROMETER



Unified and metric thread (60° thread angle)

Order No.	EDP No.	Pitch
7381-TS	281670	6 pairs/set, including: 64-48TPI / 0.4-0.5mm, 44-28TPI / 0.6-0.9mm, 24-14TPI / 1-1.75mm, 13-9TPI / 2-3mm, 8-5TPI / 3.5-5mm, 4.5-3.5TPI / 5.5-7mm

Whitworth thread (55° thread angle)

Order No.	EDP No.	Pitch
7381-T2S	281677	10 pairs/set, including: 60-48TPI, 48-40TPI, 40-32TPI, 32-24TPI, 24-18TPI, 18-14TPI, 14-10TPI, 10-7TPI, 7-4.5TPI, 4.5-3.5TPI

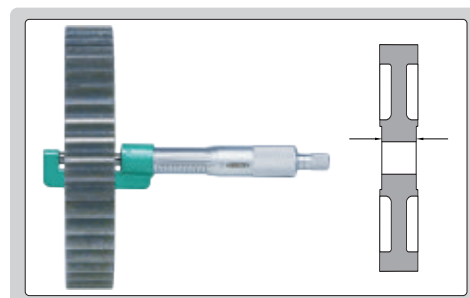
HUB MICROMETER

- Measures hub thickness and shoulders inside a bore
- Graduation .0001"
- Ratchet stop
- Carbide tips
- Supplied with setting standards (except with 0-1")
- Supplied in fitted storage case

Order No.	EDP No.	Range
3292-1	281796	0-1"
3292-2	281797	1-2"
3292-3	281798	2-3"
3292-4	281799	3-4"



3292-1



WIRE MICROMETER

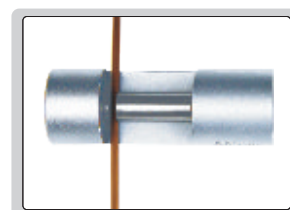
NEW ITEM!

- Measures diameters of wires and small balls
- Graduation .0001"
- Ratchet stop
- Carbide tips
- Supplied in fitted storage case

Order No.	EDP No.	Range
3285-4	281801	0-.4"

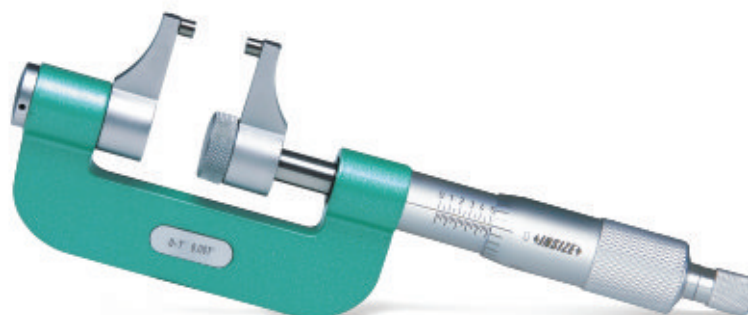


3285-4

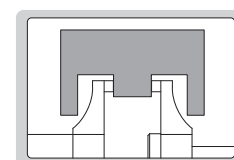


CALIPER TYPE MICROMETER

- Graduation .001"
- Non-rotating spindle
- Ratchet stop
- Carbide tips
- Supplied in fitted storage case



3238-1



Order No.	EDP No.	Range
3238-1	281595	0-1"

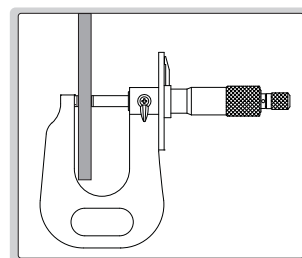
SHEET METAL MICROMETER

- Measures thickness of sheet metal, paper, plastic and rubber parts
- Graduation .001"
- Ratchet stop
- Carbide tips
- Supplied in fitted storage case

Order No.	EDP No.	Range	Throat Depth
3263-06	281805	0-.6"	2.0"
3263-1	281806	0-1"	2.0"
3263-2	281807	0-2"	3.9"



3263-1



JAW TYPE MICROMETER

NEW ITEM!

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

Order No.	EDP No.	Range
3283-1	281417	0-1"
3283-2	281418	1-2"
3283-3	281419	2-3"



3283-1

LARGE ANVIL MICROMETER

- Graduation: .0001"
- Anvil size: 2 x .56"
- Ratchet stop
- Supplied in fitted storage case

Order No.	EDP No.	Range
3234-1	281443	0-1"



3234-1

LARGE DISK MICROMETER

- Graduation: .0001"
- Diameter of disk 2.4"
- Non-rotating spindle
- Ratchet stop
- Supplied in fitted storage case



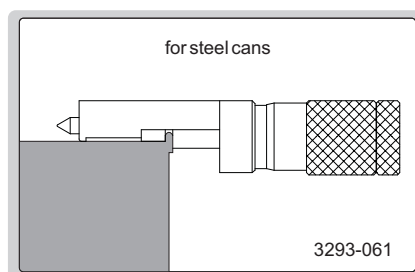
3289-1

Order No.	EDP No.	Range
3289-1	281587	0-1"

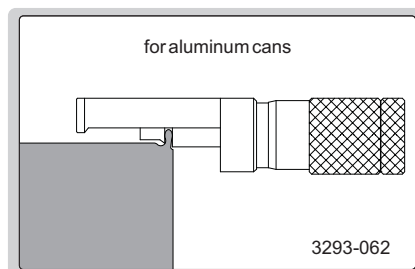
CAN SEAM MICROMETER



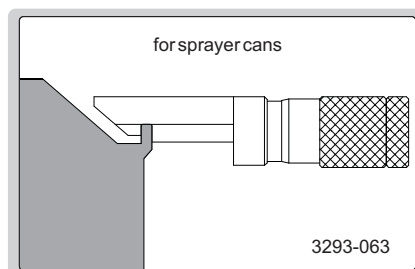
3293-061



3293-062



3293-063



Order No.	EDP No.	Range
3293-061	281825	0-.6"
3293-062	281826	0-.6"
3293-063	281827	0-.6"

- Measures the width, height and depth of can seams
- Graduation .001"
- Supplied in fitted storage case

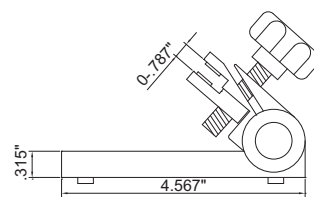
MICROMETER STAND

- Suitable for micrometers up to 4"

Order No.	EDP No.
6300	282455



6300



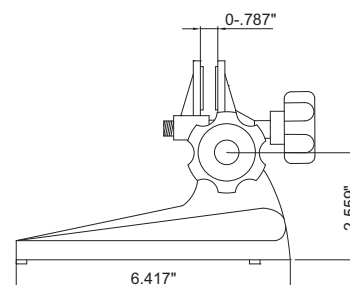
MICROMETER STAND

- Suitable for micrometers up to 4"

Order No.	EDP No.
6301	282456



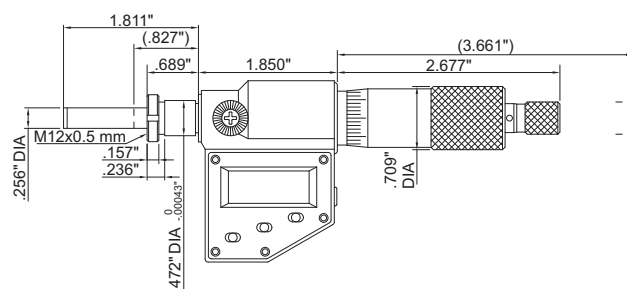
6301



ELECTRONIC MICROMETER HEAD



6353-25



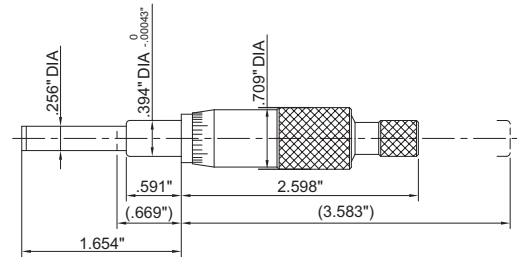
- Resolution .00005"/0.001mm
- IP54 dust/coolant proof
- Button functions: on/off, set, inch/mm, ABS/INC, data output
- Data output
- SR44 or LR44 battery, automatic power off
- Ratchet stop
- Optional accessory: SPC cable (page 1-2)
- Supplied in fitted storage case

Order No.	EDP No.	Range	Stem	Spindle Tip	Accuracy
6353-25	282585	0-1"/0-25mm	with clamp nut	flat (carbide)	±.00008"

MICROMETER HEAD



6372-1



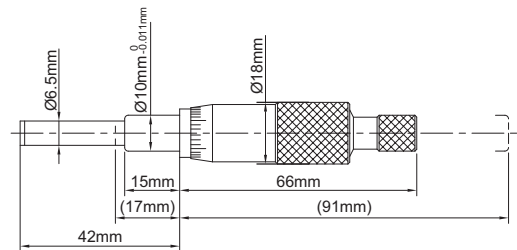
Order No.	EDP No.	Range	Spindle Tip	Accuracy
6372-1	282606	0-1"	flat (carbide)	.00012"

- Graduation .001"
- Supplied in fitted storage case

MICROMETER HEAD



6381-25W



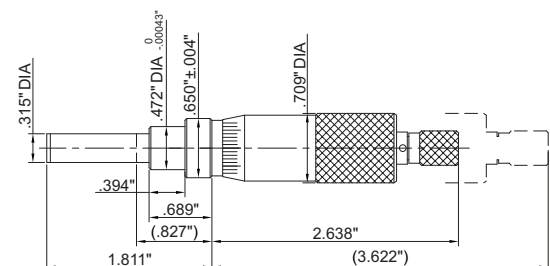
Order No.	EDP No.	Range	Spindle Tip	Accuracy
6381-25W	282605	0-25mm	flat (carbide)	3µm

- Graduation 0.01mm
- Ratchet stop
- Supplied in fitted storage case

NON ROTATING SPINDLE MICROMETER HEAD



6377-25W



Order No.	EDP No.	Range	Graduation	Spindle Tip	Accuracy
6377-1	282610	0-1"	.001"	flat (carbide)	.00012"
6377-25W	282609	0-25mm	0.01mm	flat (carbide)	3µm

- Ratchet stop
- Non rotating spindle
- Supplied in fitted storage case

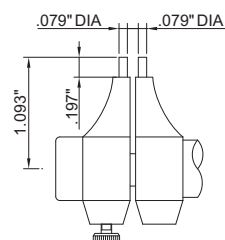
INSIDE MICROMETER

NEW ITEM!

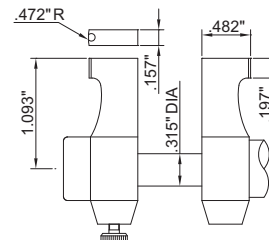


3220-2

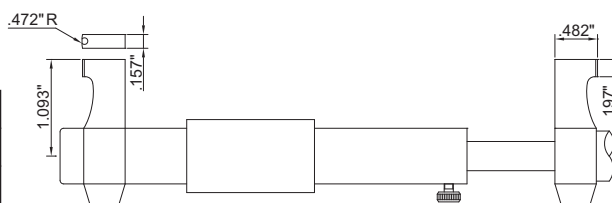
Order No.	EDP No.	Range	Type	Setting Ring	Accuracy
3220-1	281962	.2-1.2"	A	.2"	.0002"
3220-2	281963	1-2"	B	1"	.00024"
3220-3	281964	2-3"	B	—	.00028"
3220-4	281965	3-4"	C	—	.00032"
3220-5	281966	4-5"	C	—	.00036"
3220-6	281967	5-6"	C	—	.00036"
3220-7	281968	6-7"	C	—	.0004"
3220-8	281969	7-8"	C	—	.0004"



type A



type B



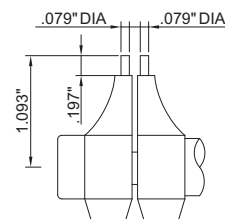
type C

- Graduation .001"
- Ratchet stop
- Carbide tips
- Supplied in fitted storage case

ELECTRONIC INSIDE MICROMETER



3520-30E



Order No.	EDP No.	Range	Setting Ring	Accuracy
3520-30E	281970	.2-1.2"/5-30mm	.2"	±.0002"

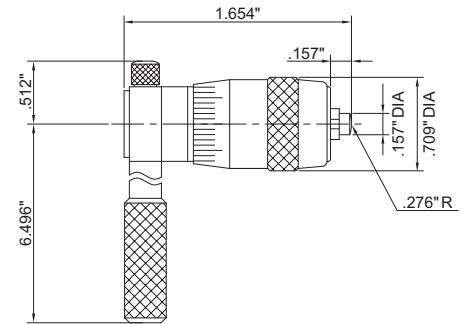
- Resolution .00005"/0.001mm
- Button functions: on/off, set, inch/mm, ABS/INC, data output
- Data output
- SR44 or LR44 battery, automatic power off
- Ratchet stop
- Carbide tips
- Optional accessory: SPC cable (page 1-2)
- Supplied in fitted storage case

TUBULAR INSIDE MICROMETER



3221-8

NEW SIZES!



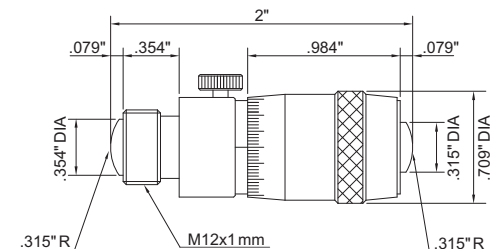
Order No.	EDP No.	Range	Travel of Micrometer Head	Extension Rods
3221-8	282039	2-8"	.5"	6pcs
3221-12	282040	2-12"	.5"	10pcs
3221-20	282042	8-20"	1"	3pcs
3221-40	282043	8-40"	1"	8pcs

- Graduation .001"
- Accuracy: $[\pm .0003 + .00005(L/2)]$
L=maximum measuring length (inch)
- Supplied in fitted storage case

TUBULAR INSIDE MICROMETER



3222-6



- Graduation .001"
- Accuracy: $[\pm .00005(3+n+L/2)]$
n=number of rods, L=maximum measuring length (inch)
- Supplied with setting standards
- Carbide tips
- Supplied in fitted storage case

Order No.	EDP No.	Range	Travel of Micrometer Head	Extension Rods
3222-4	281998	2-4"	.5"	.5", 1"
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", 4"(2pcs), 6", 8", 12"
3222-60	282003	2-60"	.5"	.5", 1", 2", 4"(2pcs), 6", 8"(2pcs), 12"(2pcs)

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 tips
- Supplied in fitted storage case

Order No.	EDP No.	Range	Travel of Micrometer Head	Extension Rods
3225-20	282015	4-20"	1"	1", 2", 4", 8"
3225-36	282016	4-36"	1"	1", 2", 4", 8", 16"
3225-84	282019	4-84"	1"	1", 2", 4", 8", 16"(4pcs)



3225-20

NEW SIZES!

TUBULAR INSIDE MICROMETER



3229-9

NEW SIZES!

- Graduation .001"
- Carbide tips
- Supplied in fitted storage case

Order No.	EDP No.	Range
3229-3	282092	2-3"
3229-4	282093	3-4"
3229-5	282094	4-5"
3229-6	282095	5-6"
3229-7	282096	6-7"
3229-8	282097	7-8"
3229-9	282098	8-9"
3229-10	282099	9-10"
3229-11	282100	10-11"
3229-12	282101	11-12"
3229-13	282102	12-13"

THREE POINTS INTERNAL MICROMETER

- Graduation .0001"
- Ratchet stop
- Supplied with setting rings and extension rods
- Supplied in fitted storage case

Individual

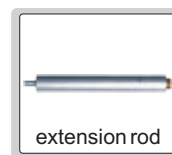
Order No.	EDP No.	Range	Accuracy	Setting Ring	Extension Rod
3227-E035	282196	.275-.35"	.00016"	.275" DIA	4"
3227-E043	282197	.35-.425"	.00016"	.35" DIA	4"
3227-E05	282198	.425-.5"	.00016"	.5" DIA	4"

Set

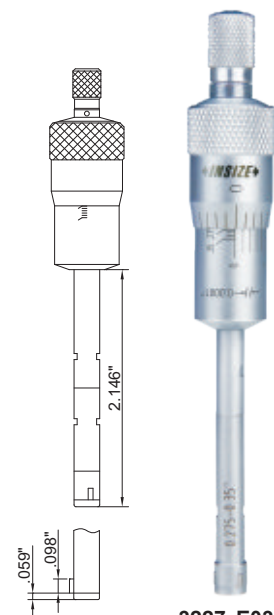
Order No.	EDP No.	Range	Micrometers Included	Setting Ring	Extension Rod
3227-E053	282199	.275-.5"	.275-.35" .35-.425" .425-.5"	.275" DIA .35" DIA .5" DIA	4"



setting ring



extension rod



3227-E035

THREE POINTS INTERNAL MICROMETER

- Graduation .0002"
- Carbide tips
- Ratchet stop
- Supplied with setting rings and extension rods
- Supplied in fitted storage case

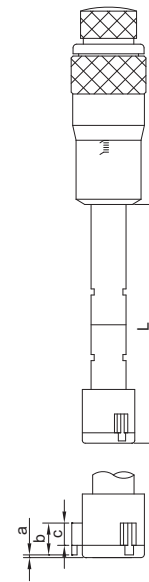
NEW SIZES!

Individual

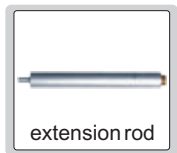
Order No.	EDP No.	Range	Accuracy	Setting Ring	Extension Rod	L	a	b	c
3227-E065	282213	.5-.65"	.00016"	.65" DIA	6"	3.150"	.020"	.236"	.177"
3227-E08	282214	.65-.8"	.00016"	.65" DIA	6"	3.150"	.020"	.236"	.177"
3227-E1	282215	.8-1"	.00016"	1" DIA	6"	3.543"	.020"	.315"	.236"
3227-E112	282216	1-1.2"	.00016"	1" DIA	6"	3.543"	.020"	.315"	.236"
3227-E16	282217	1.2-1.6"	.00016"	1.6" DIA	6"	3.819"	.020"	.551"	.472"
3227-E2	282218	1.6-2"	.0002"	1.6" DIA	6"	3.819"	.020"	.551"	.472"
3227-E25	282219	2-2.5"	.0002"	2.5" DIA	6"	4.488"	.020"	.689"	.571"
3227-E3	282220	2.5-3"	.0002"	2.5" DIA	6"	4.488"	.020"	.689"	.571"
3227-E35	282221	3-3.5"	.0002"	3.5" DIA	6"	4.488"	.020"	.689"	.571"
3227-E4	282222	3.5-4"	.0002"	3.5" DIA	6"	4.488"	.020"	.689"	.571"

Set

Order No.	EDP No.	Range	Micrometers Included	Setting Ring	Extension Rod
3227-E082	282223	.5-.8"	.5-.65", .65-.8"	.65" DIA	6"
3227-E24	282224	.8-2"	.8-1", 1-1.2", 1.2-1.6", 1.6-2"	1" DIA, 1.6" DIA	6"
3227-E44	282225	2-4"	2-2.5", 2.5-3", 3-3.5", 3.5-4"	2.5" DIA, 3.5" DIA	6"



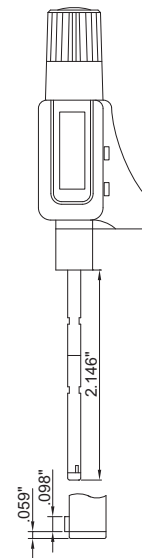
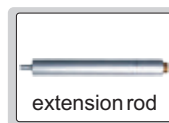
3227-E065



ELECTRONIC THREE POINTS INTERNAL MICROMETER

NEW ITEM!

- Resolution .00005"/0.001mm
- IP54 dust/coolant proof
- Buttons: on/off, set, inch/mm, ABS/INC, data output
- Data output
- SR44 or LR44 battery, automatic power off
- Ratchet stop
- Supplied with setting rings and extension rods
- Optional accessory: SPC cable (page 1-2)
- Supplied in fitted storage case



3127-12E

Individual

Order No.	EDP No.	Range	Accuracy	Setting Ring	Extension Rod
3127-8E	282299	.24-.31"/6-8mm	.00016"	.24" DIA	3.94"
3127-10E	282300	.31-.39"/8-10mm	.00016"	.31" DIA	3.94"
3127-12E	282301	.39-.47"/10-12mm	.00016"	.39" DIA	3.94"

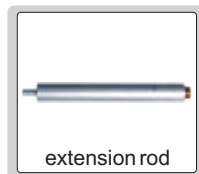
Set

Order No.	EDP No.	Range	Micrometers Included	Setting Ring	Extension Rod
3127-123E	282302	.24-.47"/6-12mm	.24-.31"/6-8mm .31-.39"/8-10mm .39-.47"/10-12mm	.24" DIA .31" DIA .39" DIA	3.94"

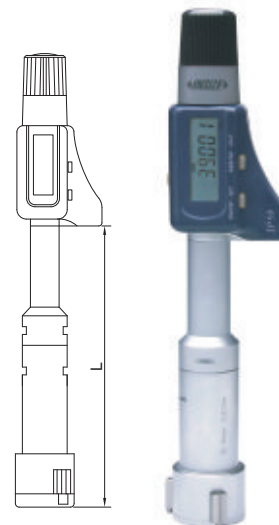
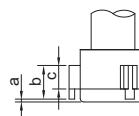
ELECTRONIC THREE POINTS INTERNAL MICROMETER

NEW ITEM!

- Resolution .00005"/0.001mm
- IP54 dust/coolant proof
- Buttons: on/off, set, inch/mm, ABS/INC, data output
- Data output
- SR44 or LR44 battery, automatic power off
- Carbide tips
- Ratchet stop
- Supplied with setting rings and extension rods
- Optional accessory: SPC cable (page 1-2)
- Supplied in fitted storage case



IP54



3127-40E

Individual

Order No.	EDP No.	Range	Accuracy	Setting Ring	Extension Rod	L	a	b	c
3127-16E	282307	.47-.63"/12-16mm	.00016"	.63" DIA	5.9"	3.150"	.020"	.236"	.177"
3127-20E	282308	.63-.79"/16-20mm	.00016"	.63" DIA	5.9"	3.150"	.020"	.236"	.177"
3127-25E	282309	.79-.98"/20-25mm	.00016"	.98" DIA	5.9"	3.543"	.020"	.315"	.236"
3127-30E	282310	.98-1.18"/25-30mm	.00016"	.98" DIA	5.9"	3.543"	.020"	.315"	.236"
3127-40E	282311	1.18-1.57"/30-40mm	.00016"	1.57" DIA	5.9"	3.819"	.020"	.551"	.472"
3127-50E	282312	1.57-1.97"/40-50mm	.0002"	1.57" DIA	5.9"	3.819"	.020"	.551"	.472"
3127-63E	282313	1.97-2.48"/50-63mm	.0002"	2.44" DIA	5.9"	4.488"	.020"	.689"	.571"
3127-75E	282314	2.44-2.95"/62-75mm	.0002"	2.44" DIA	5.9"	4.488"	.020"	.689"	.571"
3127-88E	282315	2.95-3.46"/75-88mm	.0002"	3.43" DIA	5.9"	4.488"	.020"	.689"	.571"
3127-100E	282316	3.43-3.94"/87-100mm	.0002"	3.43" DIA	5.9"	4.488"	.020"	.689"	.571"

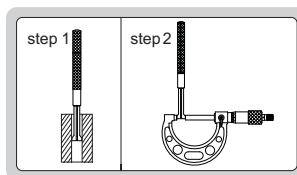
Set

Order No.	EDP No.	Range	Micrometers Included	Setting Ring	Extension Rod
3127-202E	282327	.47-.79"/12-20mm	.47-.63"/12-16mm, .63-.79"/16-20mm	.63" DIA	5.9"
3127-504E	282328	.79-1.97"/20-50mm	.79-.98"/20-25mm, .98-1.18"/25-30mm, 1.18-1.57"/30-40mm, 1.57-1.97"/40-50mm	.98" DIA, 1.57" DIA	5.9"
3127-1004E	282329	1.97-3.94"/50-100mm	1.97-2.48"/50-63mm, 2.44-2.95"/62-75mm, 2.95-3.46"/75-88mm, 3.43-3.94"/87-100mm	2.44" DIA, 3.43" DIA	5.9"

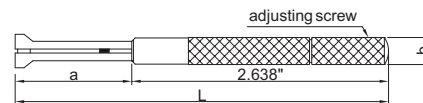


- 4 gages per set
- For small holes, slots and grooves, etc.
- Satin chrome finish
- Supplied in storage pouch

Order No.	EDP No.	Total Range	Gages Included
4208-1	816204	.125 ~ .5"	.125 ~ .2", .2 ~ .3" .3 ~ .4", .4 ~ .5"

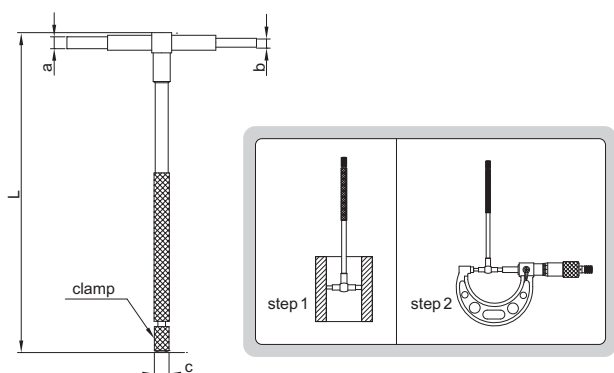


SMALL HOLE GAGE SET



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



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

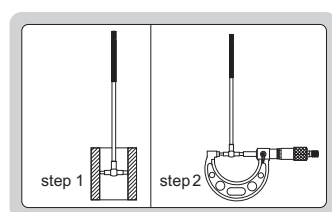
Order No.	EDP No.	Total Range	Gages Included
4206-1	816202	5/16 ~ 6"	5/16 ~ 1/2", 1/2 ~ 3/4", 3/4 ~ 1-1/4" 1-1/4 ~ 2-1/8", 2-1/8 ~ 3-1/2", 3-1/2 ~ 6"



4206-1

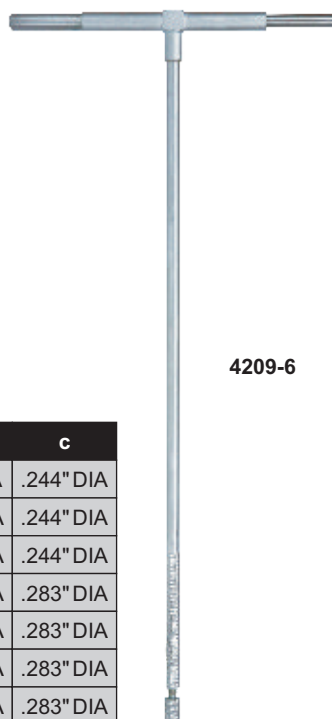
- 6 gages per set
- For quick measurement of inside diameter of holes and width of slots
- Satin chrome finish
- Supplied in storage pouch

LONG HANDLE TELESCOPING GAGE

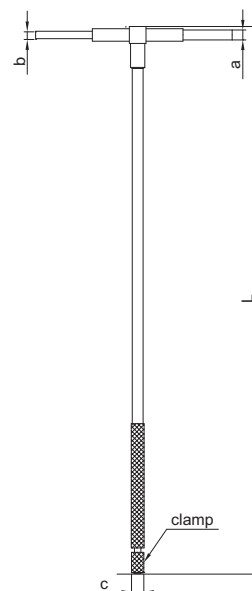


- For quick measurement of inside diameter of deep holes and width of slots
- Satin chrome finish
- Supplied in storage pouch

Order 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
4209-7	283595	4-3/4 ~ 8"	11.811"	.299" DIA	.240" DIA	.283" DIA



4209-6



BORE GAGE FOR SMALL HOLES

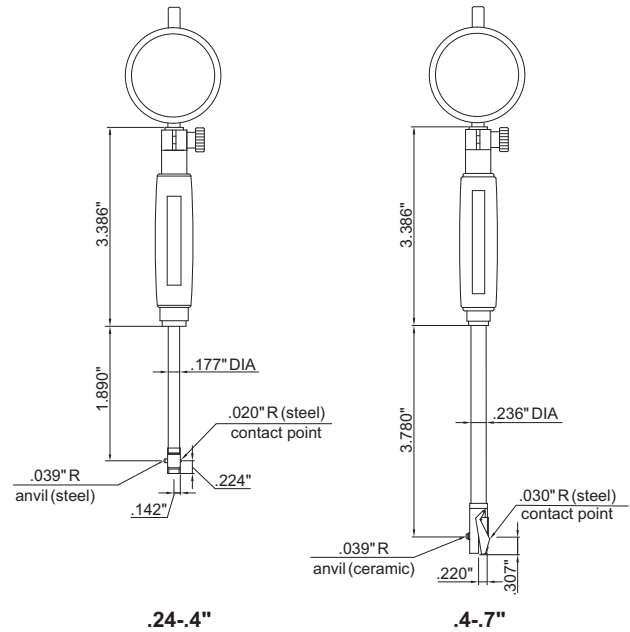
NEW ITEM!



2323-04



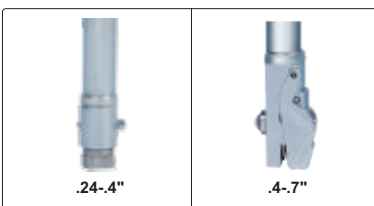
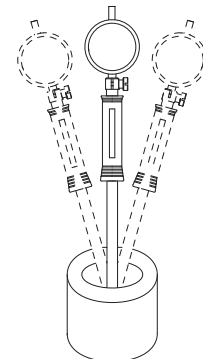
2123-07A



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



The minimum value tracking function can find the diameter automatically.



■ Supplied in fitted storage case

Order No.	EDP No.	Range	Indicator	Accuracy	Repeatability
2323-04	282928	.24-.4"	dial indicator, range .25", graduation .0005"	±.00075"	.00025"
2323-07	282929	.4-.7"		±.00075"	.00025"

Order No.	EDP No.	Range	Indicator	Accuracy	Repeatability
2123-04A	283001	.24-.4"	electronic indicator, range .5"/12.7mm, resolution .0001"/0.002mm	±.00075"	.00025"
2123-07A	283002	.4-.7"		±.00075"	.00025"

BORE GAGE



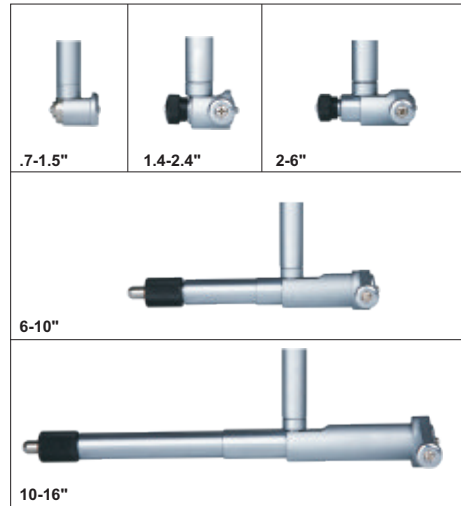
2323-6

2123-15A

- Supplied in fitted storage case

Order No.	EDP No.	Range	Indicator	Accuracy	Repeatability
2323-15	282930	.7-1.5"	dial indicator, range .25", graduation .0005"	±.00075"	.00025"
2323-24	816188	1.4-2.4"		±.0009"	.00025"
2323-6	816192	2-6"		±.0009"	.00025"
2323-10	816184	6-10"		±.0009"	.00025"
2323-16	816186	10-16"		±.0009"	.00025"

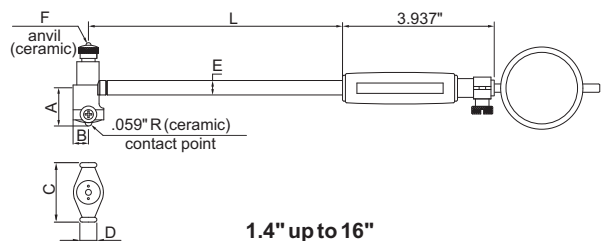
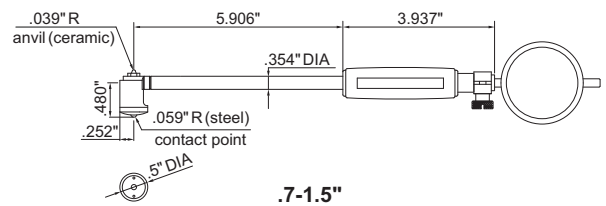
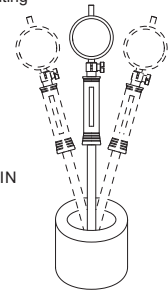
Order No.	EDP No.	Range	Indicator	Accuracy	Repeatability
2123-15A	283003	.7-1.5"	electronic indicator, range .5"/12.7mm, resolution .0001"/0.002mm	±.00075"	.00025"
2123-24A	283004	1.4-2.4"		±.0009"	.00025"
2123-6A	816194	2-6"		±.0009"	.00025"
2123-10A	283006	6-10"		±.0009"	.00025"
2123-16A	283007	10-16"		±.0009"	.00025"



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



The minimum value tracking function can find the diameter automatically.



Range	A	B	C	D	E	F	L
.7-1.5"	.480"	.252"	1.063"	.512" DIA	.504" DIA	.079" R	5.906"
1.4-2.4"	1.024"	.354"	1.063"	.512" DIA	.504" DIA	.079" R	5.906"
2-6"	1.024"	.354"	1.378"	.512" DIA	.504" DIA	.079" R	5.906"
6-10"	2.224"	.512"	2.933"	.591" DIA	.504" DIA	.079" R	9.843"
10-16"	3.406"	.591"	3.996"	.591" DIA	.571" DIA	.098" R	9.843"

SETTING RING



6313-0H8

Accuracy

Diameter	Accuracy
$\geq .1180"$, $\leq .8250"$	$\pm .000040"$
$> .8250"$, $\leq 1.5100"$	$\pm .000060"$
$> 1.5100"$, $\leq 2.5100"$	$\pm .000080"$
$> 2.5100"$, $\leq 4.5100"$	$\pm .0001"$
$> 4.5100"$, $\leq 6.5100"$	$\pm .00013"$
$> 6.5100"$, $\leq 9.0100"$	$\pm .00016"$
$> 9.0100"$, $\leq 11.8110"$	$\pm .0002"$

- For zero setting of inside micrometers, three points internal micrometers and bore gages
- Deviation (difference between the ordered size and the size marked on the setting ring when supplied): $\pm .00012"$ for .1180-3.9370", $\pm .00020"$ for 3.9370-11.8110"
For example, the ordered size is .2", the size marked on the setting ring when supplied may be .20012"
- Meets ANSI/AMSE B89, accuracy class X
(for example, the size marked on the setting ring is .2", the accuracy is $.2" \pm .000040"$)
- Supplied in fitted storage case

Can supply custom setting ring from .1180" DIA to 11.8110" DIA, for example, .3128" DIA

Order No.	EDP No.	Diameter
6313-0H16	282478	.16" DIA
6313-0H24	282479	.24" DIA
6313-0H275	282480	.275" DIA
6313-0H35	282481	.35" DIA
6313-0H425	282482	.425" DIA
6313-0H5	282483	.50" DIA
6313-0H6	889410	.60" DIA
6313-0H65	282484	.65" DIA

Order No.	EDP No.	Diameter
6313-0H7	889411	.70" DIA
6313-0H8	282485	.80" DIA
6313-1	282486	1.0" DIA
6313-1H2	282487	1.2" DIA
6313-1H4	889412	1.4" DIA
6313-1H6	282488	1.6" DIA
6313-1H8	889413	1.8" DIA
6313-2	282489	2.0" DIA

Order No.	EDP No.	Diameter
6313-2H4	889414	2.4" DIA
6313-2H5	282490	2.5" DIA
6313-2H8	282491	2.8" DIA
6313-3	282492	3.0" DIA
6313-3H2	889415	3.2" DIA
6313-3H5	282493	3.5" DIA
6313-3H6	889416	3.6" DIA
6313-4	282494	4.0" DIA

Order No.	EDP No.	Diameter
6313-5	889417	5.0" DIA
6313-6	282495	6.0" DIA
6313-7	889418	7.0" DIA
6313-8	282496	8.0" DIA
6313-9	889419	9.0" DIA
6313-10	889420	10.0" DIA
6313-11	889421	11.0" DIA

- Resolution: .0005"/0.005mm
- Rotary display
- 'Mode' button :
 - to find the difference between minimum and maximum reading
 - to track the minimum or maximum reading
- '+'/'-' button is for measuring direction change
- Lug back
- CR2032 battery, automatic power off
- Supplied in fitted storage case

Order No.	EDP No.	Range	Stem Diameter
2102-10E	282639	.5"/10mm	3/8"
2102-25E	282640	1"/25mm	3/8"

ELECTRONIC INDICATOR



2102-10E

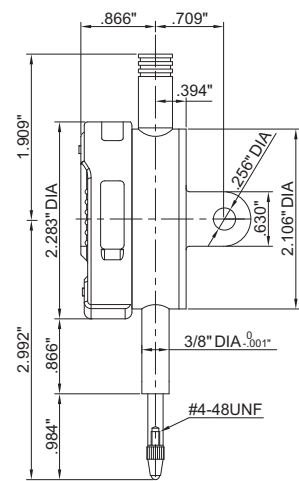
ELECTRONIC INDICATOR

- Button functions: on/off, inch/mm, zero
- CR2032 battery, automatic power off
- Data output
- Optional accessory: SPC cable (page 1-2), backs (page 60), contact points (page 59-60)
- Supplied in fitted storage case

Order No.	EDP No.	Range	Resolution	Accuracy	Remark
2112-10E	877010	.5"/12.7mm	.0005"/0.01mm	.0008"	lug back
2112-101E	877008	.5"/12.7mm	.00005"/0.001mm	.0002"	lug back



2112-10E



ELECTRONIC INDICATOR

NEW ITEM!



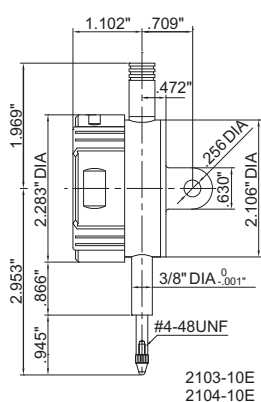
2103-10E



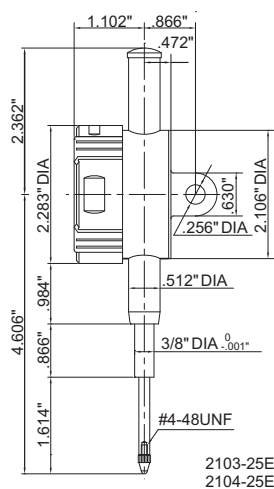
2104-25E



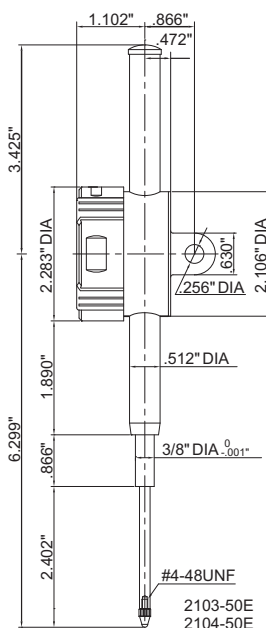
2103-50E



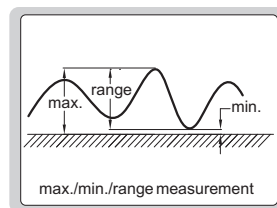
2103-10E
2104-10E



2103-25E
2104-25E



2103-50E
2104-50E



max./min./range measurement



display can be rotated by 320°

Resolution .00005"/0.001mm

Order No.	EDP No.	Range	Accuracy	Remark
2103-10E	285053	.5"/12.7mm	.0002"	lug back
2103-25E	285052	1"/25.4mm	.0002"	lug back
2103-50E	285051	2"/50.8mm	.00024"	lug back

Resolution .0005"/0.01mm

Order No.	EDP No.	Range	Accuracy	Remark
2104-10E	877006	.5"/12.7mm	.0008"	lug back
2104-25E	876700	1"/25.4mm	.0008"	lug back
2104-50E	876272	2"/50.8mm	.0012"	lug back

- Reading in digital and analog
- Display can be rotated by 320°
- Button functions: tolerance Go and No-Go display, data preset, measuring direction change, max./min./range measurement, inch/metric conversion, absolute/incremental measurement
- CR2032 battery, automatic power off
- Data output
- Optional accessory: SPC cable (page 1-2), backs (page 60), contact points (page 59-60)
- Supplied in fitted storage case

DIAL INDICATOR

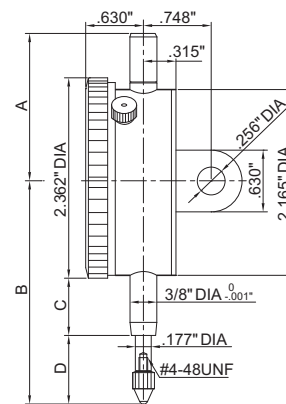
NEW SIZES!



2307-1

- Lug back
- Supplied with tolerance index and bezel clamp
- Optional accessory: backs (page 60), contact points (page 59-60)
- Supplied in fitted storage case

Order No.	EDP No.	Range	Graduation	Accuracy		Range /Rev	Dial Reading
				First 2.5 Rev	Overall		
2307-025	282705	.25"	.001"	.002"	.002"	.1"	0-100
2307-05	816156	.5"	.001"	.002"	.003"	.1"	0-100
2307-1	816158	1"	.001"	.002"	.008"	.1"	0-100
2307-2	816160	2"	.001"	.002"	.008"	.1"	0-100
2307-0255	282707	.25"	.0005"	.001"	.002"	.05"	0-50
2307-055	282708	.5"	.0005"	.001"	.003"	.05"	0-50
2307-105	282709	1"	.0005"	.001"	.004"	.05"	0-50
2307-205	282710	2"	.0005"	.001"	.005"	.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"

COMPACT TYPE DIAL INDICATOR

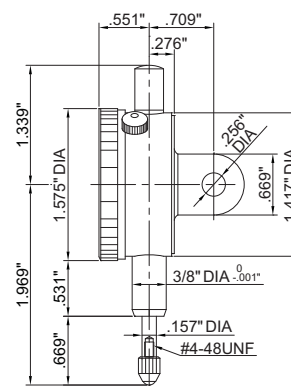
NEW ITEM!



2304-01

- Lug back
- Supplied with tolerance index and bezel clamp
- Optional accessory: backs (page 60), contact points (page 59-60)
- Supplied in fitted storage case

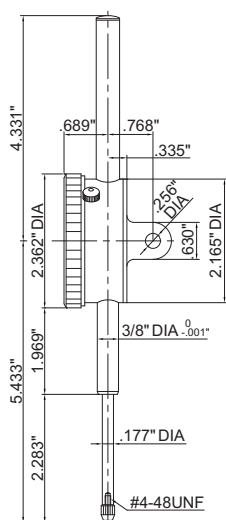
Order No.	EDP No.	Range	Graduation	Accuracy		Range /Rev	Dial Reading
				First 2.5 Rev	Overall		
2304-01	282699	.1"	.001"	.002"	.002"	.1"	0-100
2304-02	282700	.2"	.001"	.002"	.002"	.1"	0-100
2304-025	282701	.25"	.001"	.002"	.002"	.1"	0-100
2304-015	282702	.1"	.0005"	.001"	.001"	.05"	0-50
2304-0205	282703	.2"	.0005"	.001"	.001"	.05"	0-50
2304-0255	282704	.25"	.0005"	.001"	.002"	.05"	0-50



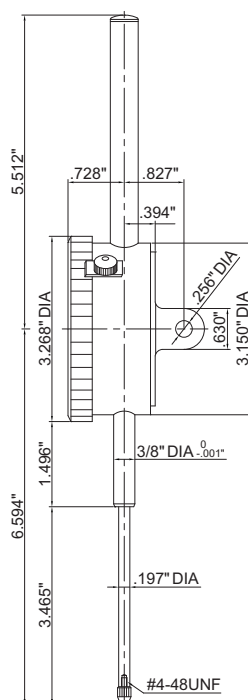
LONG STROKE DIAL INDICATOR



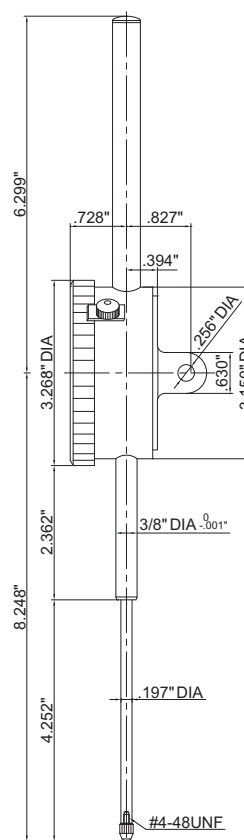
2326-2



2326-2



2326-3



2326-4

- Lug back
- Supplied with tolerance index and bezel clamp
- Optional accessory: backs (page 60), contact points (page 59-60)
- Supplied in fitted storage case

Order No.	EDP No.	Range	Graduation	Accuracy		Range/Rev	Dial Reading
				First 2.5 Rev	Overall		
2326-2	282715	2"	.001"	.002"	.008"	.1"	0-100
2326-3	282717	3"	.001"	.002"	.010"	.1"	0-100
2326-4	282718	4"	.001"	.002"	.010"	.1"	0-100

Note: 2326-3 and 2326-4 can only be used vertically

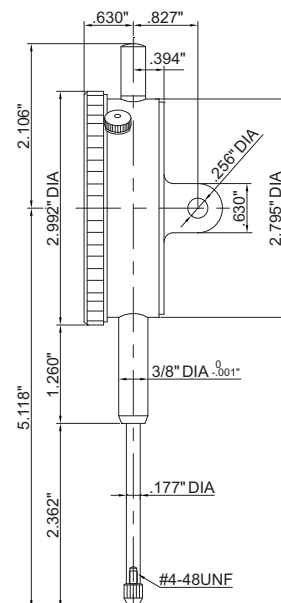
LARGE DIAL FACE DIAL INDICATOR



- Lug back
- Supplied with tolerance index and bezel clamp
- Optional accessory: contact points (page 59-60)
- Supplied in fitted storage case

2312-15

Order No.	EDP No.	Range	Graduation	Accuracy		Range /Rev	Dial Reading
				First 2.5 Rev	Overall		
2312-15	282711	1.5"	.001"	.002"	.008"	.1"	0-100
2312-2	282712	2"	.001"	.002"	.008"	.1"	0-100



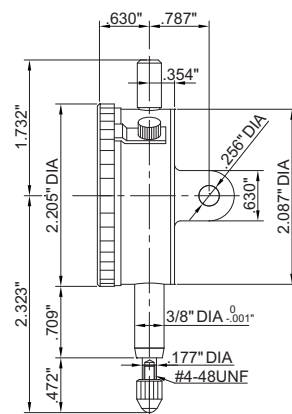
PRECISION DIAL INDICATOR



- Shock proof
- Jeweled bearing
- Lug back
- Supplied with tolerance index and bezel clamp
- Optional accessory: backs (page 60), contact points (page 59-60)
- Supplied in fitted storage case

2315-05

Order No.	EDP No.	Range	Graduation	Accuracy		Range /Rev	Dial Reading
				First 2.5 Rev	Overall		
2315-05	282719	.05"	.0001"	.0003"	.0005"	.01"	0-100



BACK PLUNGER DIAL INDICATOR

- Bezel diameter 2.3", stem diameter 3/8"
- Supplied with tolerance index
- Supplied in fitted storage case

NEW SIZES!

Order No.	EDP No.	Range	Graduation
2317-01	282720	.1"	.001"
2317-02	282721	.2"	.001"



2317-01

DUAL GRADUATION DIAL INDICATOR

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

NEW SIZES!



2325-1

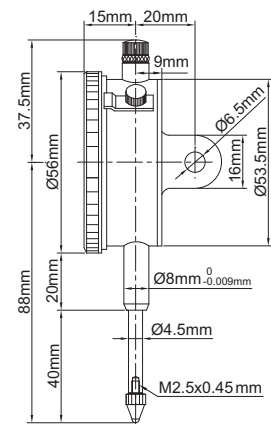
Order No.	EDP No.	Range	Graduation
2325-05	282722	.5"/12.5mm	.001"/0.01mm
2325-1	282723	1"/25mm	.001"/0.01mm

METRIC DIAL INDICATOR



2310-30A

- Supplied with tolerance index and bezel clamp
- Optional accessory: backs (page 60)
- Supplied in fitted storage case



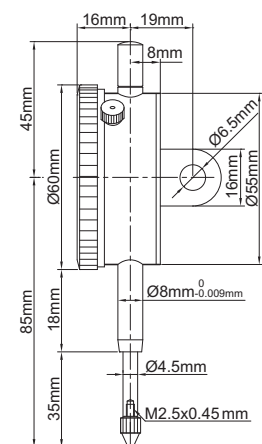
Order No.	EDP No.	Range	Graduation	Accuracy	Range/Rev	Dial Reading	Remark
2310-30A	282665	30mm	0.01mm	35µm	1mm	0-100	lug back
2310-30FA	282664	30mm	0.01mm	35µm	1mm	0-100	flat back

METRIC DIAL INDICATOR



2318-25

- Lug back
- Supplied with tolerance index and bezel clamp
- Optional accessory: backs (page 60)
- Supplied in fitted storage case



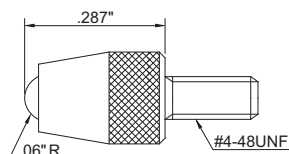
Order No.	EDP No.	Range	Graduation	Accuracy	Range/Rev	Dial Reading
2318-25	816164	25mm	0.1mm	60µm	10mm	0-10

CONTACT POINT

- For dial indicators and electronic indicators



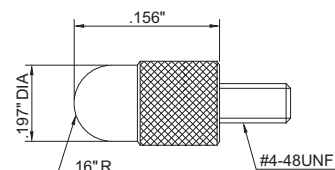
BALL POINT



NEW SIZES!

Order No.	EDP No.	Material of Measuring Tip
6282-0102	282737	carbide

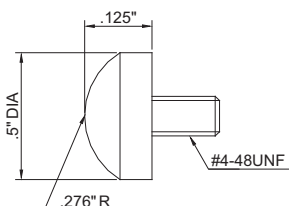
SHELL TYPE POINT



NEW SIZES!

Order No.	EDP No.	Material of Measuring Tip
6282-0201	282753	steel

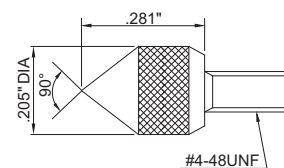
SPHERICAL POINT



NEW SIZES!

Order No.	EDP No.	Material of Measuring Tip
6282-0402	282764	steel

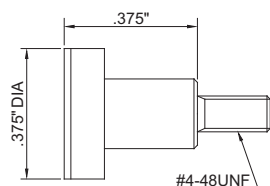
CONICAL POINT



NEW SIZES!

Order No.	EDP No.	Material of Measuring Tip
6282-0702	282778	steel

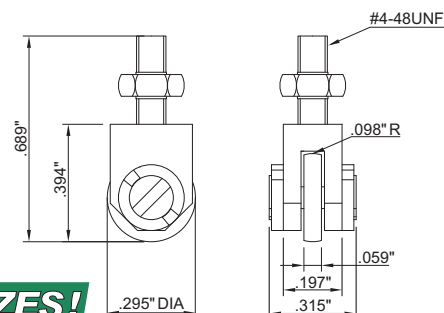
FLAT POINT



NEW SIZES!

Order No.	EDP No.	Material of Measuring Tip
6282-1207	282795	steel

ROLLER POINT

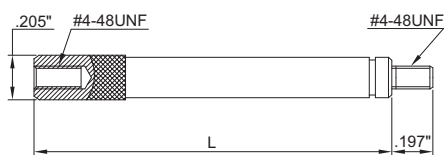


NEW SIZES!

Order No.	EDP No.	Material of Measuring Tip
6282-1902	282827	steel

EXTENSION ROD

NEW SIZES!



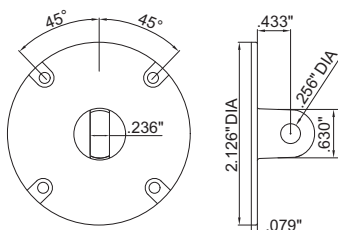
Order No.	EDP No.	Material	L
6282-2018	282823	steel	1"
6282-2019	282824	steel	2"
6282-2020	282825	steel	4"

LUG BACK

NEW SIZES!



7330-L6



■ Made of aluminum

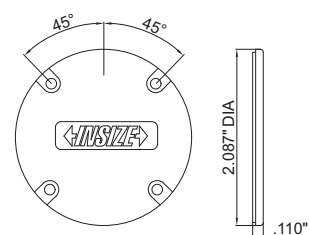
Order No.	EDP No.	For Electronic/Dial Indicators	Page
7330-L6	877058	2307	55
		2318	58
		2326-2	56

FLAT BACK

NEW SIZES!



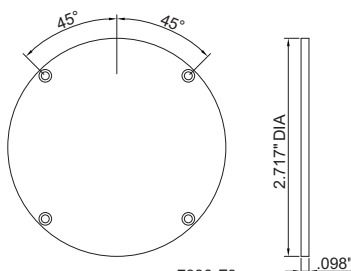
7330-F2



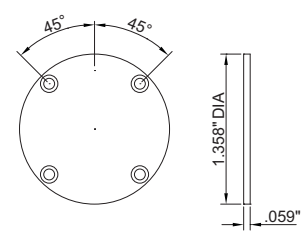
7330-F2

■ Made of aluminum

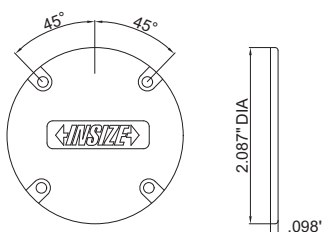
Order No.	EDP No.	For Electronic/Dial Indicators	Page
7330-F2	282853	2310	58
		2315	57
7330-F3	282854	2326-3	56
		2326-4	56
7330-F4	889333	2304	55
7330-F5	877054	2112	53
		2103	54
		2104	54
7330-F6	877056	2318	58
		2307	55
		2326-2	56



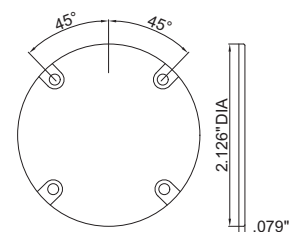
7330-F3



7330-F4



7330-F5



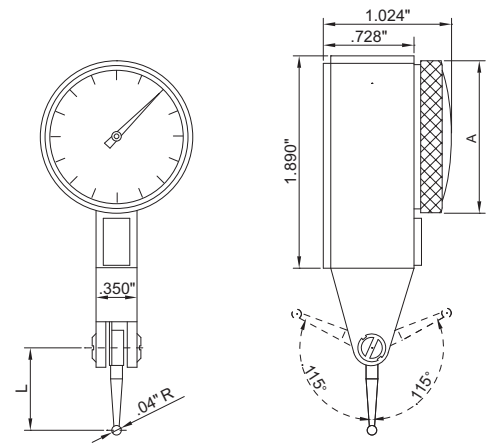
7330-F6

DIAL TEST INDICATOR

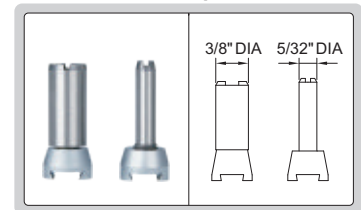


2380-31

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



clamps



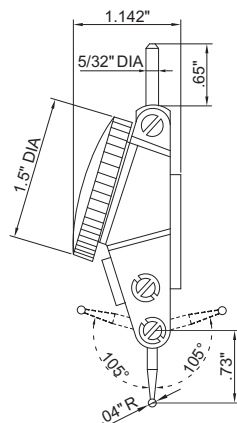
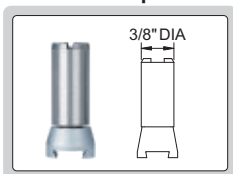
Order No.	EDP No.	Range	Graduation	Accuracy	Dial Reading	A	L
2380-31	282858	.03"	.001"	.001"	0-15-0	1.18" DIA	.65"
2380-35	816170	.03"	.0005"	.0006"	0-15-0	1.18" DIA	.65"
2381-31	282859	.03"	.001"	.001"	0-15-0	1.48" DIA	.65"
2381-35	282860	.03"	.0005"	.0006"	0-15-0	1.48" DIA	.65"

LARGE RANGE DIAL TEST INDICATOR



2386-006

clamp



- Graduation: .0005"
- Jeweled bearing
- Steel contact point
- Two measuring directions
- Anti magnetic body
- Supplied with one clamp: 3/8" DIA
- Supplied in fitted storage case

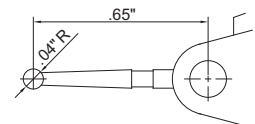
Order No.	EDP No.	Range	Accuracy	Dial Reading
2386-006	816174	.06"	.0015"	0-15-0

STYLUS FOR DIAL TEST INDICATORS

NEW ITEM!

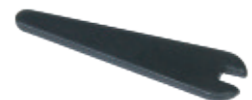


6284-10



Order No.	EDP No.	For Dial Test Indicator	Material of Contact Point
6284-10	876764	2380-31, 2380-35 2381-31, 2381-35	carbide

WRENCH FOR STYLUS



Order No.	EDP No.
6288	877002

6288

DIAL TEST INDICATOR HOLDER

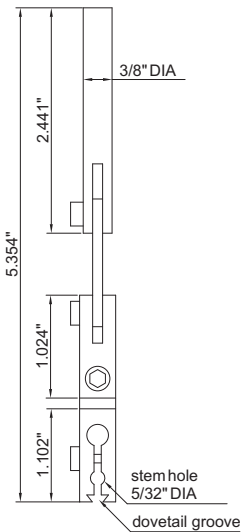
NEW ITEM!



6296-2

- Supplied with fixing wrench

Order No.	EDP No.
6296-2	877030

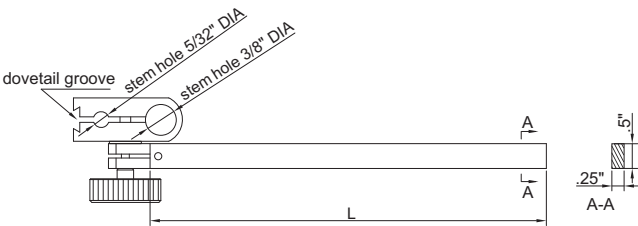


DIAL TEST INDICATOR HOLDER



6293-3

Order No.	EDP No.	Stem Section	Stem Length (L)
6293-3	282878	.25x.5"	4"



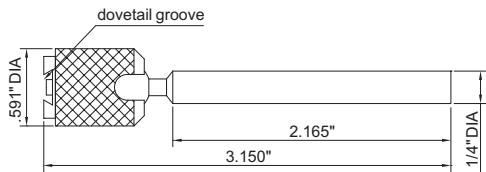
DIAL TEST INDICATOR UNIVERSAL HOLDER



6293-5

- Set the indicators at the desired attitude to the workpiece

Order No.	EDP No.
6293-5	282880



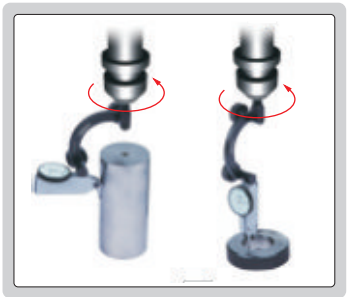
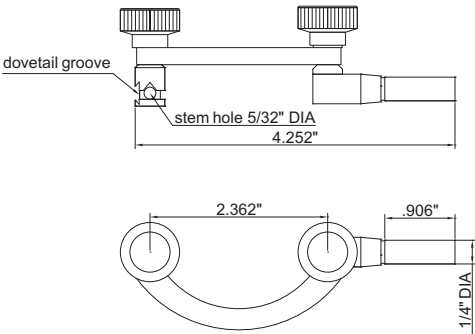
DIAL TEST INDICATOR CENTERING HOLDER



6291-2

- Center cylinders or holes on a machine tool

Order No.	EDP No.
6291-2	282875



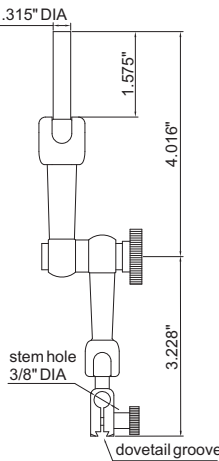
DIAL TEST INDICATOR CENTERING HOLDER



6295-1

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

Order No.	EDP No.
6295-1	284452



MAGNETIC STAND



6200-60



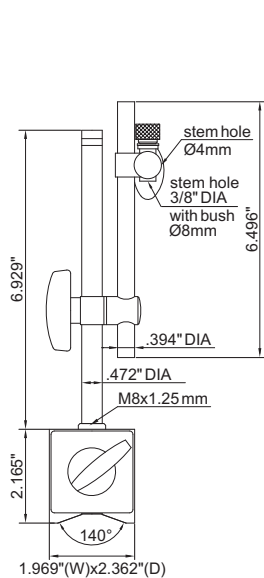
6201-60



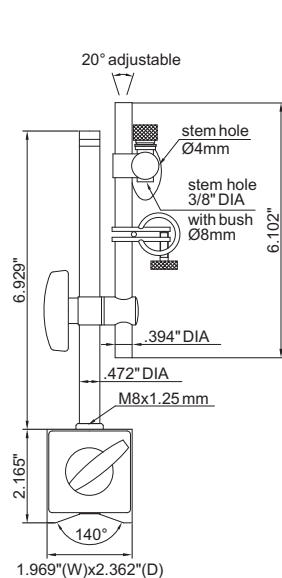
6202-80



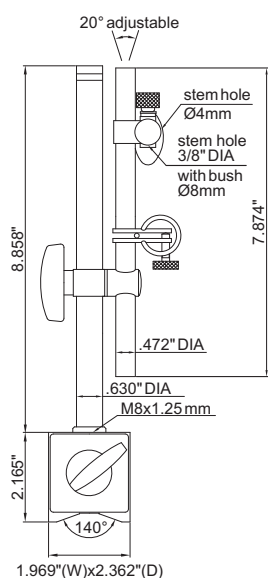
6202-100



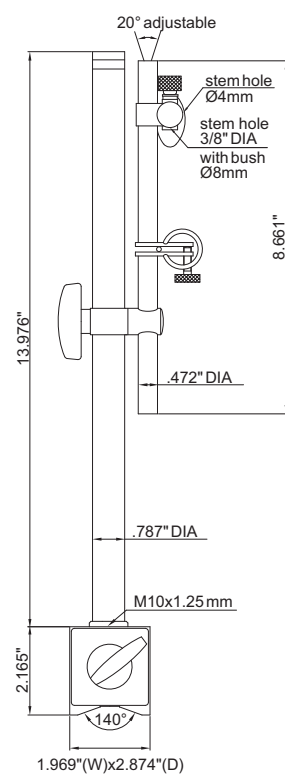
6200-60



6201-60



6202-80



6202-100

NEW SIZES!

- For electronic/dial indicators and dial test indicators

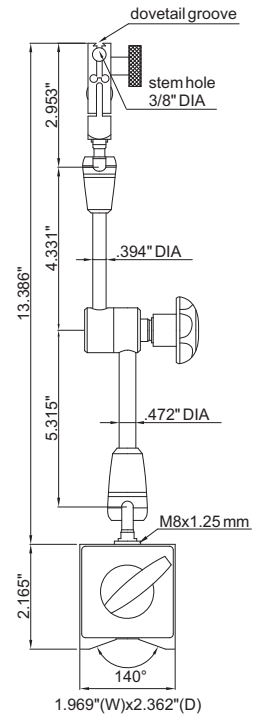
Order No.	EDP No.	Magnetic Force	Applicable Holding Stem	Remark
6200-60	816250	132lbf	3/8" DIA, Ø8mm, Ø4mm	without fine adjustment
6201-60	816252	132lbf	3/8" DIA, Ø8mm, Ø4mm	with fine adjustment
6202-80	282886	176lbf	3/8" DIA, Ø8mm, Ø4mm	with fine adjustment
6202-100	816254	220lbf	3/8" DIA, Ø8mm, Ø4mm	with fine adjustment

UNIVERSAL MAGNETIC STAND



6210-80E

- For electronic/dial indicators and dial test indicators



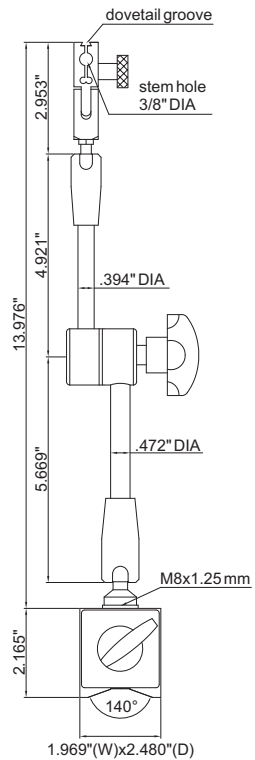
Order No.	EDP No.	Magnetic Force	Applicable Holding Stem	Remark
6210-80E	877028	176lbf	3/8" DIA	with fine adjustment and dovetail groove

UNIVERSAL MAGNETIC STAND



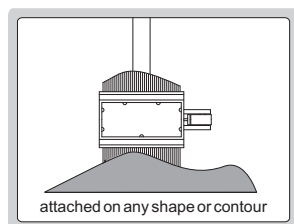
6208-80E

- For electronic/dial indicators and dial test indicators

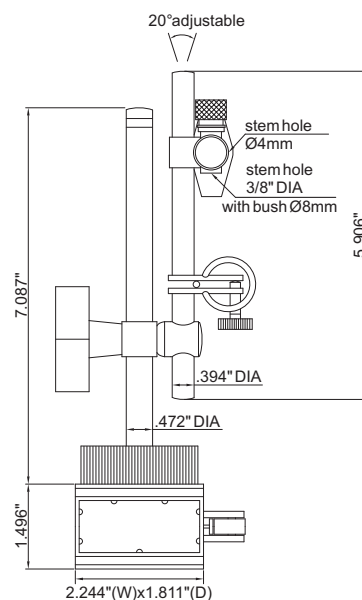


Order No.	EDP No.	Magnetic Force	Applicable Holding Stem	Remark
6208-80E	816256	176lbf	3/8" DIA	with fine adjustment and dovetail groove

MAGNETIC STAND FOR UNEVEN SURFACE



6215-60



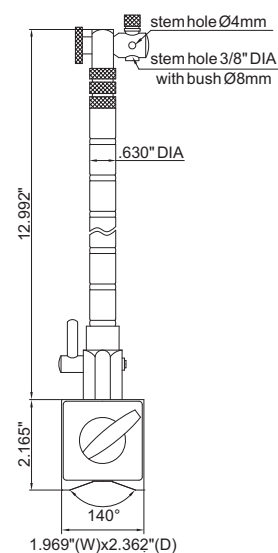
- For electronic/dial indicators and dial test indicators

Order No.	EDP No.	Magnetic Force	Applicable Holding Stem	Remark
6215-60	282893	132lbf	3/8" DIA, Ø8mm, Ø4mm	with fine adjustment

FLEX ARM MAGNETIC STAND



6207-80A



- For dial test indicators

Order No.	EDP No.	Magnetic Force	Applicable Holding Stem
6207-80A	282892	176lbf	3/8" DIA, Ø8mm, Ø4mm

DIAL SNAP GAGE



IP54

3334-1

Order No.	EDP No.	Range
3334-1	281836	0-1"
3334-2	281837	1-2"
3334-3	281838	2-3"
3334-4	281839	3-4"

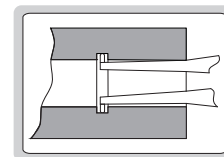
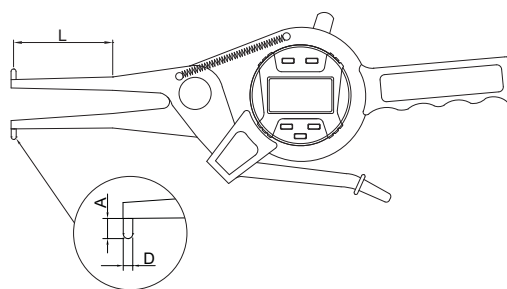
- Go/No-Go feature for mass production
- Dial indicator: range $\pm 0.0015"$, graduation $.00005"$
- IP54 dust/coolant proof
- Measuring force: 5-10N
- Carbide tips
- Supplied with setting standards (except with 0-1")
- Supplied in fitted storage case

ELECTRONIC INTERNAL CALIPER GAGE

NEW ITEM!



2151-35



- Reading in digit and analog
- Display can be rotated by 320°
- Button functions: tolerance Go and No-Go display, data preset, measuring direction change, max./min./range measurement, inch/metric conversion, absolute/incremental measurement
- CR2032 battery, automatic power off
- Data output
- Optional accessory: SPC cable (page 1-2)
- Supplied in fitted storage case

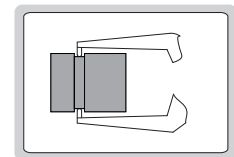
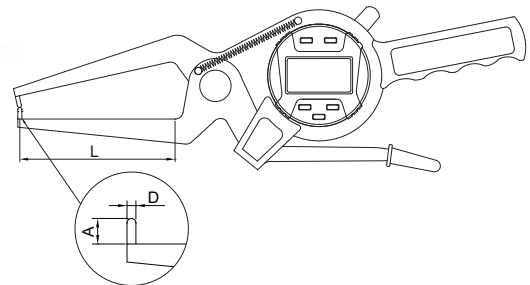
Order No.	EDP No.	Range	Resolution	Accuracy	L	A	D
2151-35	877014	.6-1.4"/15-35mm	.0005"/0.01mm	$\pm 0.0016"$	1.969"	.118"	.118" DIA
2151-55	877016	1.4-2.2"/35-55mm	.0005"/0.01mm	$\pm 0.0016"$	3.150"	.236"	.118" DIA

ELECTRONIC EXTERNAL CALIPER GAGE

NEW ITEM!



2132-20



- Reading in digit and analog
- Display can be rotated by 320°
- Button functions: tolerance Go and No-Go display, data preset, measuring direction change, max./min./range measurement, inch/metric conversion, absolute/incremental measurement
- CR2032 battery, automatic power off
- Data output
- Optional accessory: SPC cable (page 1-2)
- Supplied in fitted storage case

Order No.	EDP No.	Range	Resolution	Accuracy	L	A	D
2132-20	877012	0-.8"/0-20mm	.0005"/0.01mm	±.0016"	2.362"	.236"	.118" DIA

THICKNESS GAGE



2364-055

- Ceramic spindle tip and anvil
- Supplied in fitted storage case

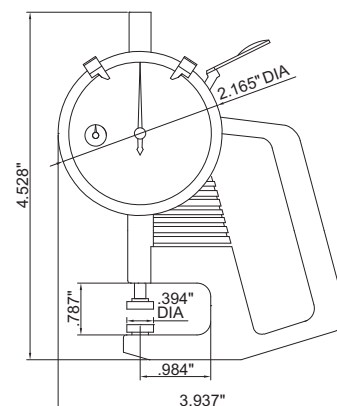
Order No.	EDP No.	Range	Graduation
2364-055	876312	0-.5"	.0005"

THICKNESS GAGE



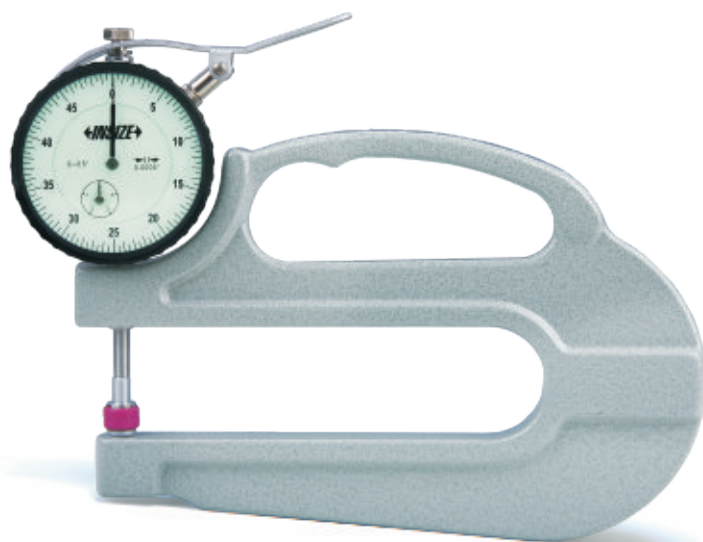
- Ceramic spindle tip and anvil
- Supplied in fitted storage case

2861-E05

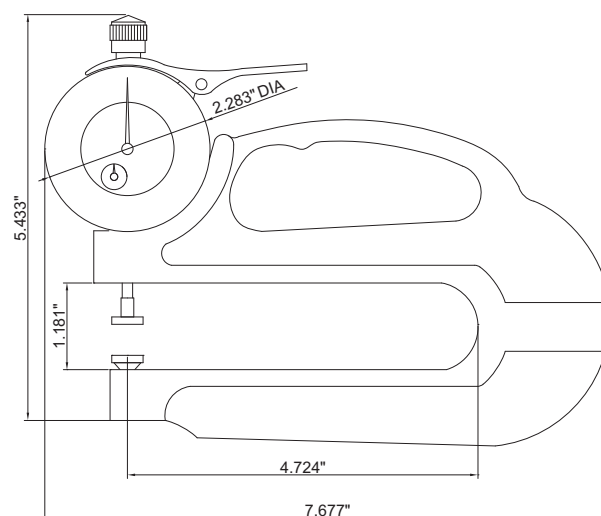


Order No.	EDP No.	Range	Graduation	Accuracy
2861-E05	283164	0-.5"	.001"	±.0008"

THICKNESS GAGE



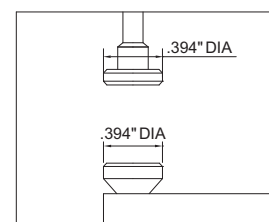
2365-055



NEW SIZES!

- Ceramic spindle tip and anvil
- Supplied in fitted storage case

Order No.	EDP No.	Range	Graduation	Accuracy
2365-055	283181	0-.5"	.0005"	±.0008"



ELECTRONIC RADIUS GAGE

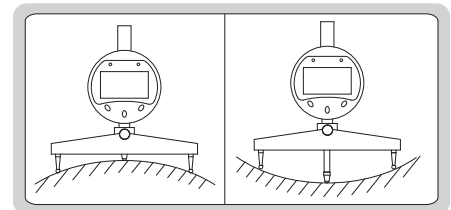
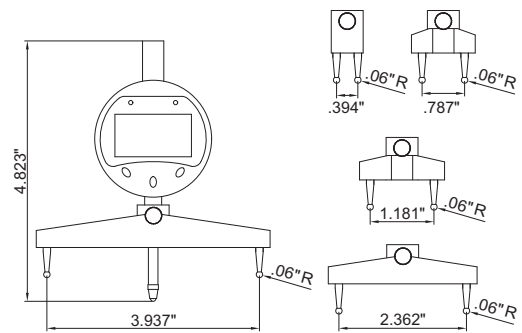


2183

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

Order 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 (inch)



STEEL GAGE BLOCKS

NEW SIZES!

- Made of alloy steel
- Meet ASME B89.1.9-2002
- Supplied with inspection certificate
- Supplied in fitted storage case

Blocks per set	Blocks Included In Set			Order No. (EDP No.)		
	Size (inch)	Step (inch)	Quantity	Grade 0	Grade 1	Grade 2
36	.05		1	4102-36 (283257)	4102-136 (283258)	4102-236 (283259)
	.1001-.1009	.0001	9			
	.101-.109	.001	9			
	.11-.19	.01	9			
	.1-.5	.1	5			
	1		1			
	2		1			
81	4		1	4102-81 (283260)	4102-181 (283261)	4102-281 (283262)
	.1001-.1009	.0001	9			
	.101-.149	.001	49			
	.05-.95	.05	19			
	1-4	1	4			



4102-81

FRAME LEVEL



4902-4

- For checking horizontal and vertical surfaces and shafts
- With heat insulated handle and cross vial
- 2 prisms and 2 flat surfaces, fine ground
- Supplied in fitted storage case

Order No.	EDP No.	Size	Graduation
4902-4	816332	4x4"	.0002"/10"
4902-6	816334	6x6"	.0002"/10"
4902-8	816336	8x8"	.0002"/10"
4902-10	284489	10x10"	.0002"/10"
4902-12	816338	12x12"	.0002"/10"

BLOCK LEVEL



4901-6

- For checking horizontal surfaces and shafts
- Heat insulated grip
- Prism bottom, fine ground
- Cross vial
- Supplied in fitted storage case

Order No.	EDP No.	Size	Graduation
4901-6	816326	6"	.0002"/10"
4901-8	816328	8"	.0002"/10"
4901-10	284494	10"	.0002"/10"
4901-12	816330	12"	.0002"/10"

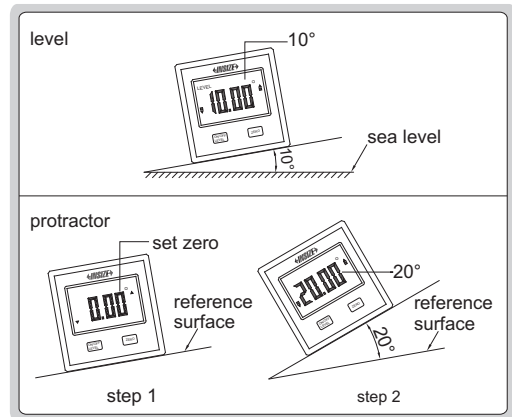
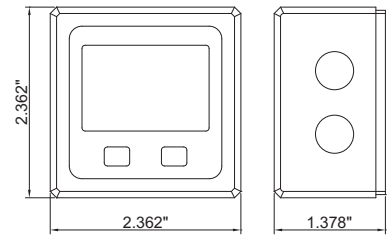
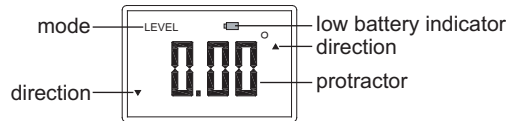
ELECTRONIC LEVEL AND PROTRACTOR



2177-2

- Used as protractor and level
- Accuracy: 0.2°
- The sea level is set inside the chip, calibration is not required
- 4 working surfaces, 2 surfaces have magnets
- Buttons: ON/OFF...LEVEL, ZERO
- The display rotates when the gage is upside down
- 9 volt battery
- Supplied in fitted storage case

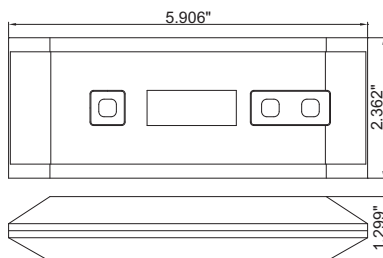
Order No.	EDP No.	Range	Resolution
2177-2	876300	0-360° (4x90°)	0.05°



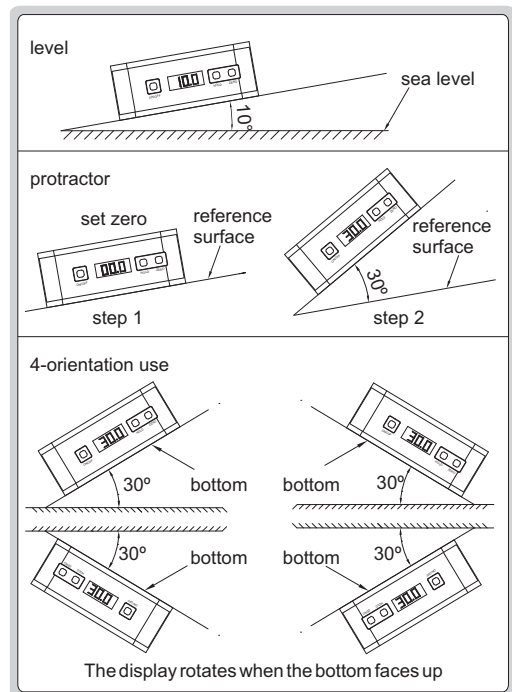
ELECTRONIC LEVEL AND PROTRACTOR



2173-360



- Used as level and protractor
- Aluminum frame
- Magnetic bottom with V-groove for shafts
- Zero setting can be used at any angle
- Buttons: ON/OFF, ZERO, DATA HOLD
- CR2032 battery
- Automatic power off
- Supplied in leather pouch



Order No.	EDP No.	Range	Resolution	Accuracy
2173-360	816340	0 - 360° (90°x4)	0.1°	±0.2°

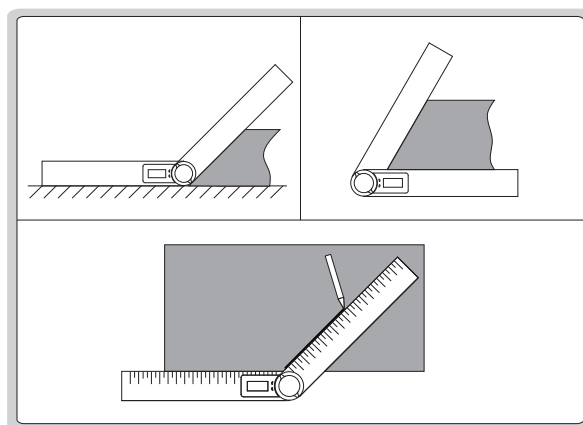
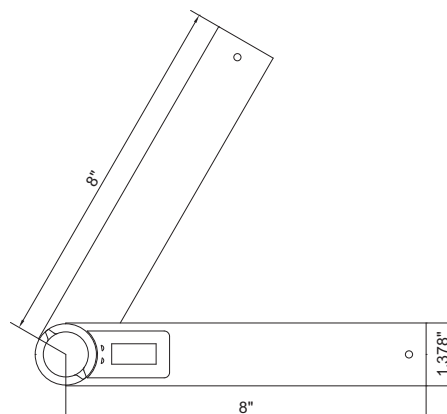
ELECTRONIC PROTRACTOR



2176-200

- Buttons: ON/OFF, ZERO
- With locking screw
- Graduation of blade: 1/32" and 1mm
- CR2032 battery
- Automatic power off
- Supplied in blister card

Order No.	EDP No.	Range	Resolution	Accuracy
2176-200	877018	0-360°	0.1°	±0.3°



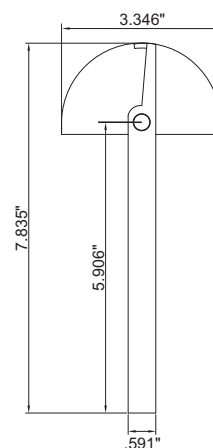
PROTRACTOR



4780-85

- Made of stainless steel
- Satin chrome plated scale
- With locking screw
- Supplied in storage pouch

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



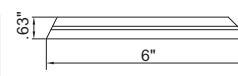
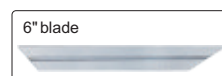
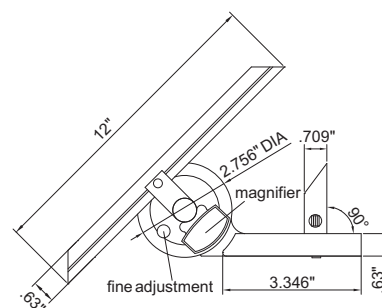
UNIVERSAL PROTRACTOR



2372-360

- Parallax-free reading
- Two blades: 6" and 12"
- With magnifier lens and small angle attachment
- Made of carbon steel
- Optional accessory: clamp (order no. **2372-CLAMP**) suitable for height gages **1151** and **1351**
- Supplied in fitted storage case

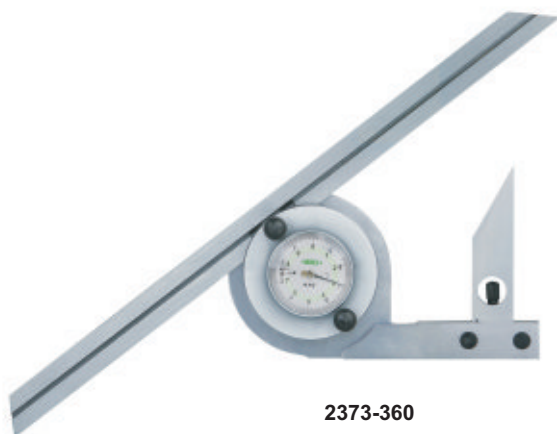
Order No.	EDP No.	Range	Graduation	Accuracy
2372-360	283341	0 - 360°	5'	±5'



clamp for height gages



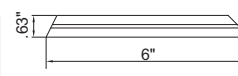
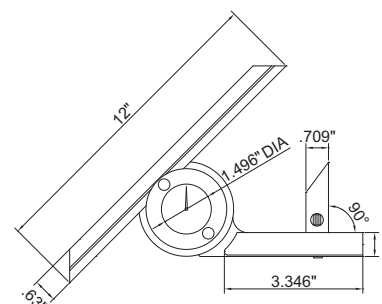
DIAL PROTRACTOR



2373-360

- Two blades: 6" and 12"
- With small angle attachment
- Made of carbon steel
- Optional accessory: clamp (order no. **2372-CLAMP**) suitable for height gages **1151** and **1351**
- Supplied in fitted storage case

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



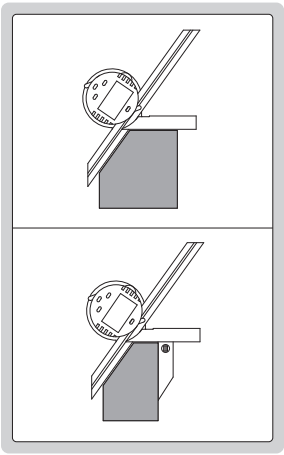
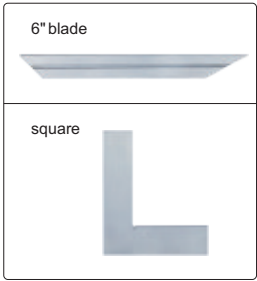
clamp for height gages



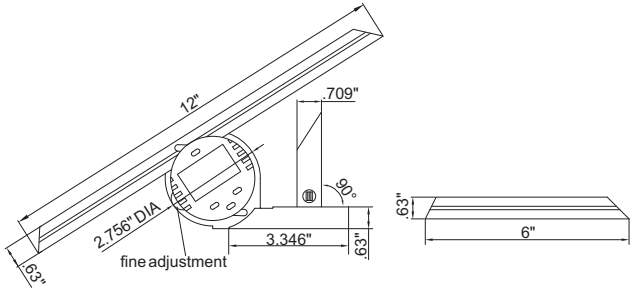
ELECTRONIC PROTRACTOR



2172-360

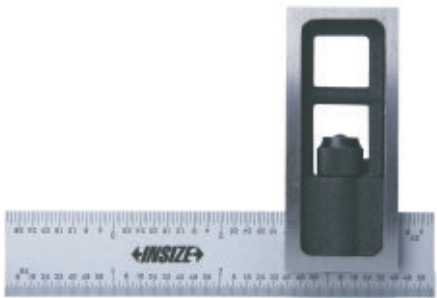


- Display in degrees and degree/minute/second
- PRESET button: preset any angle
- MODE button: choose 0-90°, 0-180° or 0-360° display
- ZERO/ON button: zero and power on
- +/- button: change measuring direction
- Battery CR2032, automatic power off
- Two blades: 6" and 12"
- With small angle attachment
- Supplied with standard square for 90° set
- Made of stainless steel
- Supplied in fitted storage case



Order No.	EDP No.	Range	Resolution	Accuracy
2172-360	283343	0 - 360°	30"/0.001°	±5'

DOUBLE SQUARE

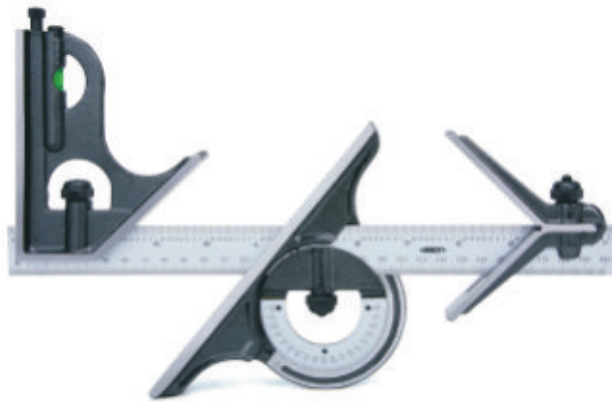


2277-1

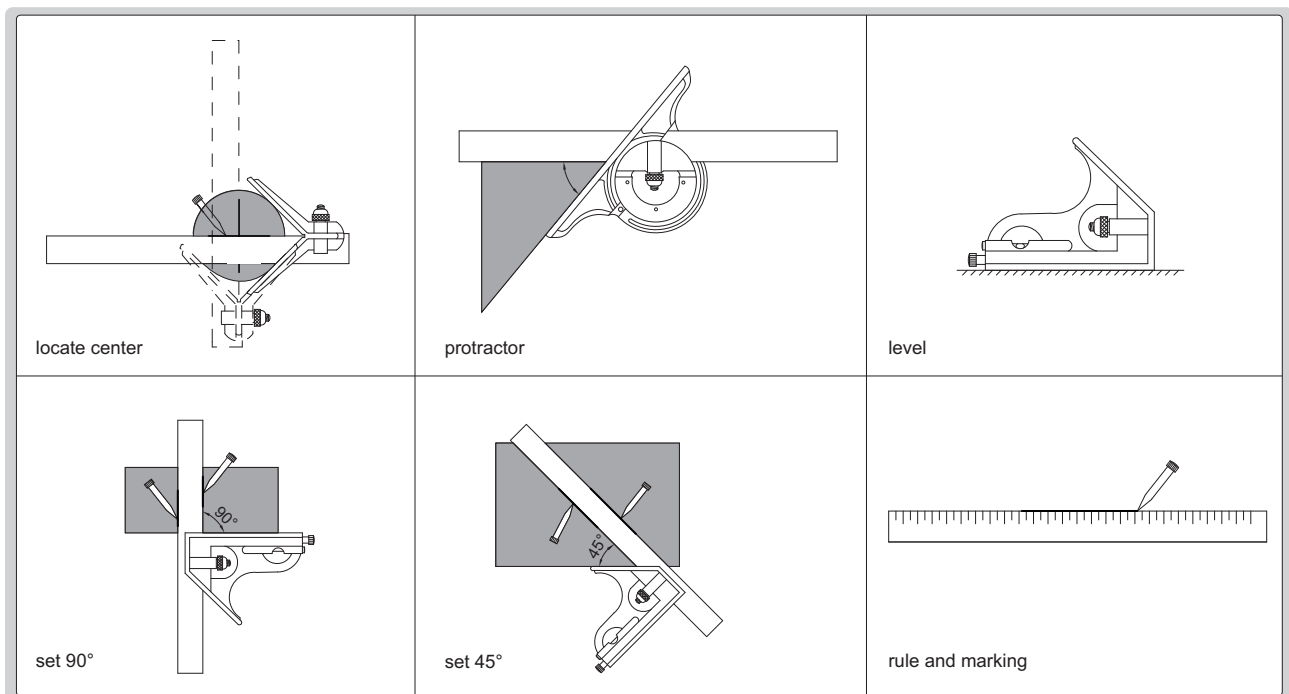
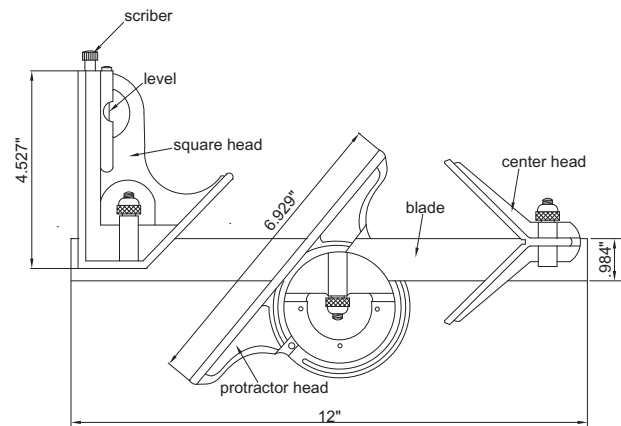
- Hardened and chrome plated blade
- Supplied in fitted storage case

Order No.	EDP No.	Blade Length	Graduation
2277-1	283347	4"	1/8", 1/16", 1/32", 1/64"
2277-2	283348	6"	1/8", 1/16", 1/32", 1/64"
2277-3	283349	4"/100mm	1/32", 1/64", 1/2mm, 1mm
2277-4	283350	6"/150mm	1/32", 1/64", 1/2mm, 1mm

COMBINATION SQUARE SET



2278-180



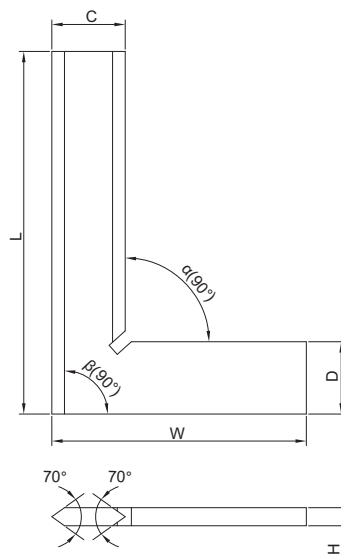
- Center head:
To locate center of round workpieces
Accuracy: $\pm .006''$
- Protractor head:
To set the blade at desired angle to an edge of a workpiece, and can be used to measure angles
Range: 0-180°
Accuracy: $\pm 7\text{min.}$
- Square head:
To set the blade at 90° or 45° to an edge of a workpiece
Accuracy: $\pm 8\text{min}$ for 90° square, $\pm 10\text{min}$ for 45° square
- Optional accessory: rigid rule (order no. 7113-300A/450A, EDP# are shown on page 94)
- Supplied in fitted storage case

Order 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

90° KNIFE EDGE SQUARE



4790-0100



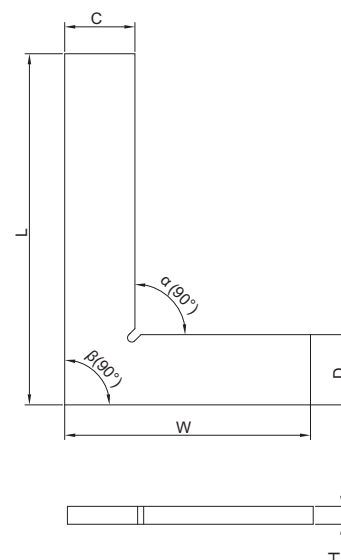
Order No.	EDP No.	Size (LxW)	Squareness		C	D	H
			Inside (α)	Outside (β)			
4790-050	816300	1.969x1.575"	.00009"	.0001"	.512"	.512"	.157"
4790-075	816302	2.953x1.969"	.0001"	.00011"	.591"	.591"	.157"
4790-0100	816304	3.937x2.756"	.00011"	.00012"	.787"	.787"	.197"
4790-0150	816306	5.906x3.937"	.00013"	.00014"	1.181"	1.181"	.236"
4790-0200	816308	7.874x5.118"	.00015"	.00016"	1.339"	1.339"	.276"
4790-0300	816310	11.811x7.874"	.00018"	.0002"	1.575"	1.575"	.315"

- DIN875 grade 00
- Satin chrome plating
- Two knife edges for inside and outside measurement
- Made of hardened stainless steel
- Lapped measuring faces
- Supplied in fitted storage case

90° FLAT EDGE SQUARE



4791-100



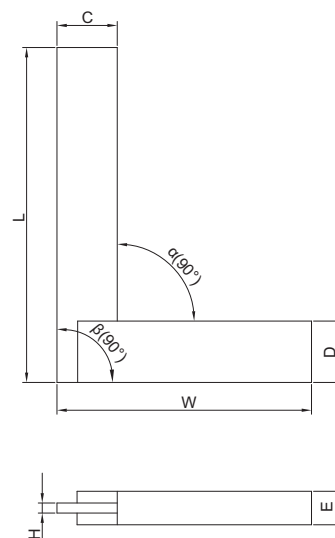
Order No.	EDP No.	Size (LxW)	Squareness		C	D	H
			Inside (α)	Outside (β)			
4791-50	816312	1.969x1.575"	.00024"	.00024"	.512"	.512"	.157"
4791-75	816314	2.953x1.969"	.00024"	.00028"	.591"	.591"	.157"
4791-100	816316	3.937x2.756"	.00028"	.00028"	.787"	.787"	.197"
4791-150	816318	5.906x3.937"	.00028"	.00031"	1.181"	1.181"	.236"
4791-200	816320	7.874x5.118"	.00031"	.00035"	1.181"	1.181"	.276"
4791-300	816322	11.811x7.874"	.00039"	.00043"	1.575"	1.575"	.315"

- DIN875 grade 0
- Made of hardened stainless steel
- Supplied in fitted storage case

90° FLAT EDGE SQUARE WITH WIDE BASE



4792-100



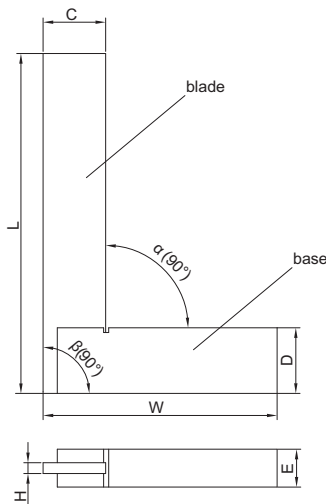
Order No.	EDP No.	Size (LxW)	Squareness		C	D	H	E
			Inside (α)	Outside (β)				
4792-75	283389	2.953x1.969"	.00024"	.00024"	.472"	.472"	.118"	.394"
4792-100	283390	3.937x2.756"	.00024"	.00028"	.551"	.551"	.118"	.394"
4792-150	283391	5.906x3.937"	.00028"	.00028"	.709"	.709"	.118"	.394"

- DIN875 grade 0
- Made of hardened stainless steel
- Supplied in fitted storage case

MACHINIST SQUARE WITH WIDE BASE



4707-100



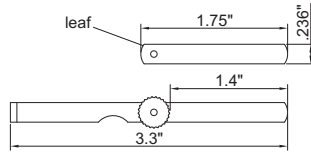
NEW SIZES!

- DIN875 grade 2
- Made of carbon steel
- Base is not hardened
- Blade is not hardened
- Supplied in fitted storage case

Order No.	EDP No.	Size (LxW)	Squareness		C	D	H	E
			Inside (α)	Outside (β)				
4707-50	283490	1.969x1.575"	.0009"	.001"	.630"	.472"	.118"	.354"
4707-75	283491	2.953x1.969"	.0010"	.0011"	.630"	.630"	.118"	.354"
4707-100	283492	3.937x2.756"	.0011"	.0012"	.748"	.748"	.118"	.472"
4707-150	283493	5.906x3.937"	.0013"	.0014"	.984"	.984"	.118"	.630"
4707-200	283494	7.874x5.118"	.0015"	.0016"	1.181"	1.260"	.157"	.630"
4707-250	283495	9.843x6.496"	.0017"	.0018"	1.181"	1.260"	.157"	.748"
4707-300	283496	11.811x7.874"	.0019"	.002"	1.260"	1.260"	.157"	.748"
4707-500	283498	19.685x11.811"	.0026"	.0028"	1.772"	1.969"	.236"	.984"
4707-600	877026	23.622x13.780"	.003"	.0031"	1.969"	1.969"	.236"	1.181"

FEELER GAGE

- Made of hardened alloy steel
- Each blade is marked with inch/metric size
- Accuracy as per page 81

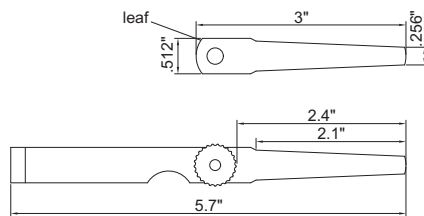


4611-17

Order No.	EDP No.	Range	Thickness of Leaves Included	Quantity of Leaves
4611-17	283536	.010" ~ .035"	.010", .012", .013", .015", .016", .017", .018", .019", .020", .022", .024", .025", .026", .028", .030", .032", .035"	17

FEELER GAGE

- Made of hardened alloy steel
- Each blade is marked with inch/metric size
- Accuracy as per page 81
- Supplied in storage pouch



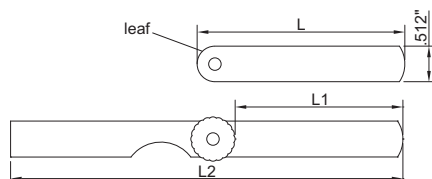
4612-26

Order No.	EDP No.	Range	Thickness of Leaves Included	Quantity of Leaves
4612-26	283537	.0015" ~ .025"	.0015", .002", .0025", .003", .004", .005", .006", .007", .008", .009", .010", .011", .012", .013", .014", .015", .016", .017", .018", .019", .020", .021", .022", .023", .024", .025"	26

FEELER GAGE

NEW SIZES!

- Made of hardened alloy steel
- Each blade is marked with inch/metric size
- Accuracy as per page 81
- Supplied in storage pouch



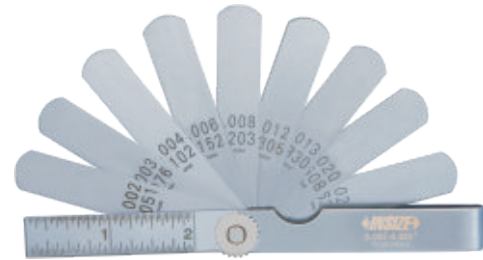
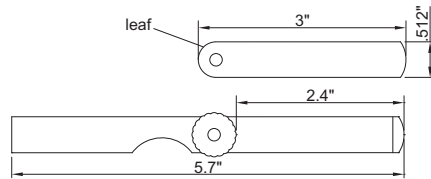
4613-261

Order No.	EDP No.	Range	Thickness of Leaves Included	Quantity of Leaves	L	L1	L2
4613-261	283538	.0015" ~ .025"	.0015", .002", .0025", .003", .004", .005", .006", .007", .008", .009", .010", .011", .012", .013", .014", .015", .016", .017", .018", .019", .020", .021", .022", .023", .024", .025"	26	3"	2.4"	5.7"
4613-262	283539	.0015" ~ .025"		26	3.5"	2.9"	6.7"
4613-263	283540	.0015" ~ .025"		26	4"	3.4"	7.7"

FEELER GAGE

NEW ITEM!

- With 2" rule
- Made of hardened alloy steel
- Each blade is marked with inch/metric size
- Accuracy as per page 81
- Supplied in storage pouch

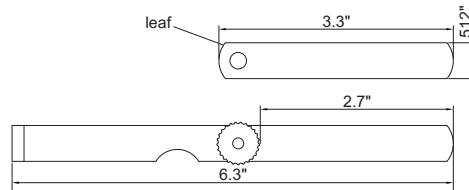


4614-9

Order No.	EDP No.	Range	Thickness of Leaves Included	Quantity of Leaves
4614-9	283541	.002" ~ .025"	.002", .003", .004", .006", .008", .012", .013", .020", .025"	9
4614-15	283542	.002" ~ .025"	.002", .003", .004", .005", .006", .008", .011", .012", .013", .014", .016", .018", .020", .022", .025"	15

FEELER GAGE

- With .010" brass blade
- Made of hardened alloy steel
- Each blade is marked with inch/metric size
- Accuracy as per page 81



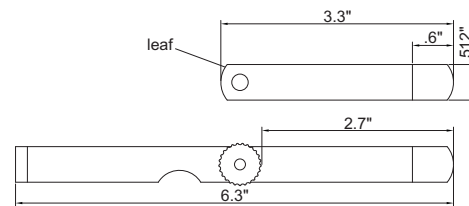
4608-31

Order No.	EDP No.	Range	Thickness of Leaves Included	Quantity of Leaves
4608-31	283543	.0015" ~ .035"	.0015", .002", .0025", .003", .004", .005", .006", .007", .008", .009", .010", .011", .012", .013", .014", .015", .016", .017", .018", .019", .020", .021", .022", .023", .024", .025", .026", .028", .030", .032", .035"	31

GO AND NO-GO FEELER GAGE

NEW ITEM!

- Each blade has two sizes
- Made of hardened alloy steel
- Each blade is marked with inch/metric size
- Accuracy as per page 81



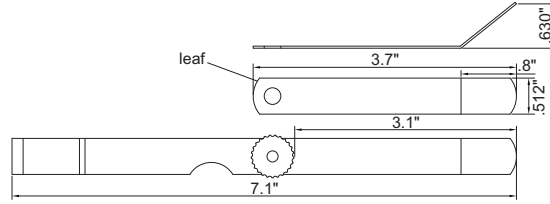
4615-22

Order No.	EDP No.	Range	Thickness of Leaves Included	Quantity of Leaves
4615-22	283544	.004"/.006" ~ .025"/.027"	.004"/.006", .005"/.007", .006"/.008", .007"/.009", .008"/.010", .009"/.011", .010"/.012", .011"/.013", .012"/.014", .013"/.015", .014"/.016", .015"/.017", .016"/.018", .017"/.019", .018"/.020", .019"/.021", .020"/.022", .021"/.023", .022"/.024", .023"/.025", .024"/.026", .025"/.027"	22

OFFSET FEELER GAGE

NEW ITEM!

- Bend end
- Made of hardened alloy steel
- Each blade is marked with inch/metric size
- Accuracy as per page 81



4609-16

Order No.	EDP No.	Range	Thickness of Leaves Included	Quantity of Leaves
4609-16	283545	.005" ~ .020"	.005", .006", .007", .008", .009", .010", .011", .012", .013", .014", .015", .016", .017", .018", .019", .020"	16
4609-12	283546	.008" ~ .026"	.008", .010", .012", .013", .014", .015", .016", .018", .019", .020", .025", .026"	12

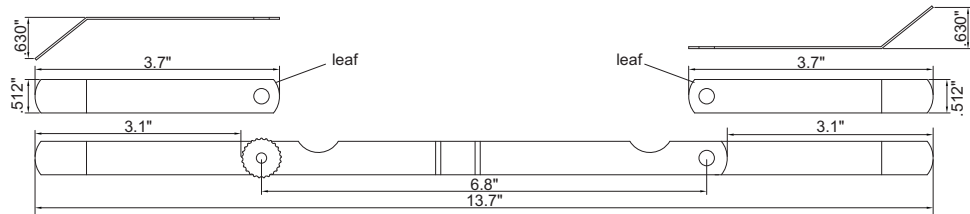
OFFSET FEELER GAGE

NEW ITEM!



4616-26

- Bend end
- Made of hardened alloy steel
- Each blade is marked with inch/metric size
- Accuracy as per page 81



Order No.	EDP No.	Range	Thickness of Leaves Included	Quantity of Leaves
4616-26	283547	.005" ~ .030"	.005", .006", .007", .008", .009", .010", .011", .012", .013", .014", .015", .016", .017", .018", .019", .020", .021", .022", .023", .024", .025", .026", .027", .028", .029", .030"	26

ACCURACY OF FEELER GAGE

Nominal Thickness	Accuracy
.0015", .002", .0025"	±.00016"
.003", .004", .005"	±.0002"
.006"	±.00024"
.007"	±.00028"
.008", .009"	±.00032"
.01", .011", .012", .013"	±.00035"

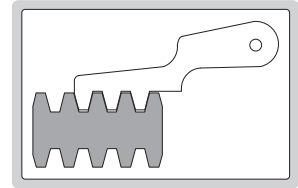
Nominal Thickness	Accuracy
.014", .015", .016", .017", .018"	±.00047"
.019", .02", .021", .022", .023", .024", .025", .026"	±.00055"
.027", .028", .03", .032"	±.00067"
.035"	±.00075"
	±.00086"

PITCH GAGE



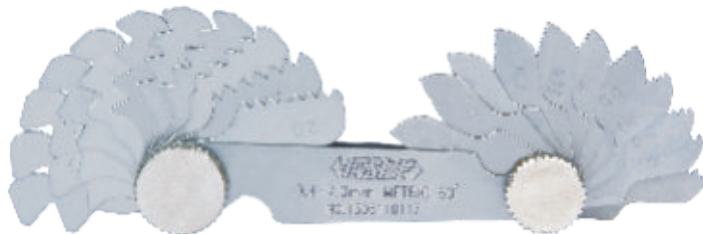
- Check the pitch of screw thread
- Accuracy: $\pm 0.0028''$
- Blades individually marked with pitch

4824-12



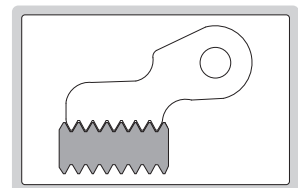
Order No.	EDP No.	Range	Thread Type	Pitch of Leaves Included	Quantity of Leaves
4824-16	283549	1 - 12TPI	ACME 29°	1, 1-1/3, 1-1/2, 1-3/4, 2, 2-1/2, 3, 3-1/2, 4, 5, 6, 7, 8, 9, 10, 12TPI	16
4824-12	283548	2 - 20mm	Tr 30°	2, 3, 4, 5, 6, 7, 8, 9, 10, 12, 16, 20mm	12

PITCH GAGE



4820-122

- Check the pitch of screw thread
- Accuracy: $\pm 0.0028''$
- Blades individually marked with pitch
- Supplied in storage pouch



Unified 60° screw

Order 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

Order No.	EDP No.	Range	Pitch of Leaves Included	Quantity of Leaves
4820-122	877028	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	22
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

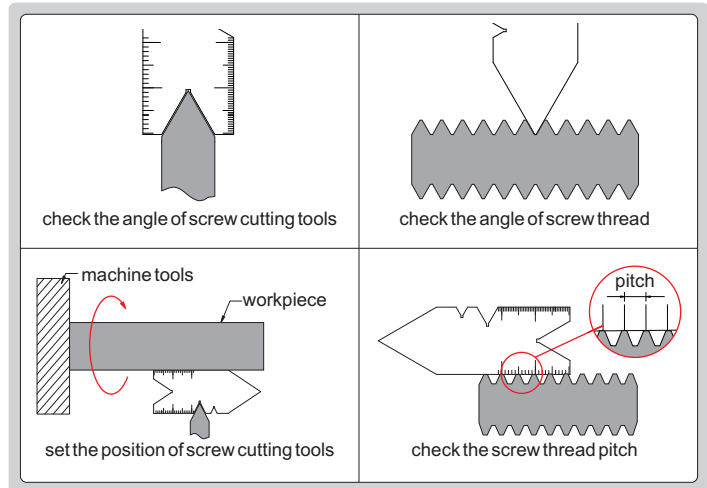
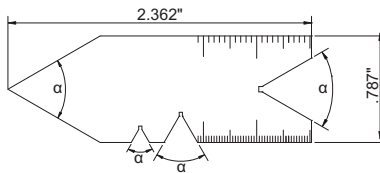
Whitworth 55° screw

Order No.	EDP No.	Range	Pitch of Leaves Included	Quantity of Leaves
4820-330	283554	4 - 42TPI	4, 4-1/2, 5, 5-1/2, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 18, 19, 20, 22, 24, 26, 27, 28, 30, 32, 34, 36, 38, 40, 42TPI	30
4820-328	283555	4 - 62TPI	4, 4-1/2, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 16, 18, 19, 20, 22, 24, 25, 26, 28, 30, 32, 36, 40, 48, 60, 62TPI	28

CENTER GAGE



4810-55



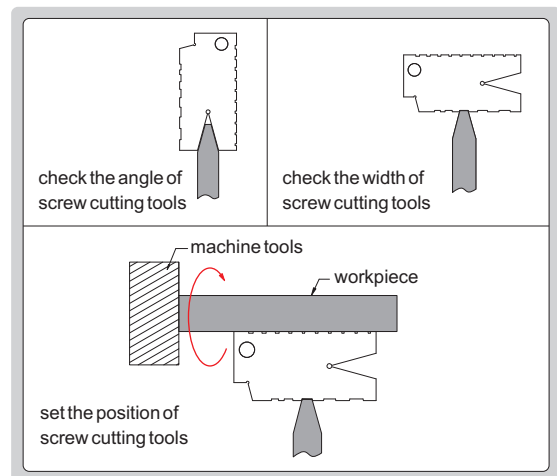
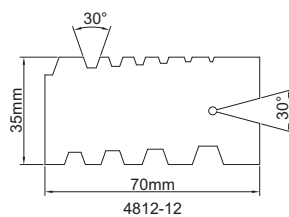
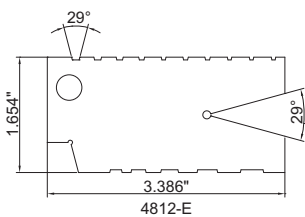
- To check and set screw cutting tools, and check the angle and pitch of screw thread
- Angle accuracy: $\pm 10\text{min}$.
- Supplied in storage pouch

Order 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
4810-601	283559	METRIC 60°	60°	0.5mm and 1mm
4810-55	283561	WHITWORTH 55°	55°	14ths and 20ths

THREAD GAGE



4812-E



- To check and set screw cutting tools
- Angle accuracy: $\pm 10\text{min}$.
- Supplied in storage pouch

Order 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
4812-12	283558	2 - 12mm	Tr 30°	2, 3, 4, 5, 6, 7, 8, 9, 10, 12mm

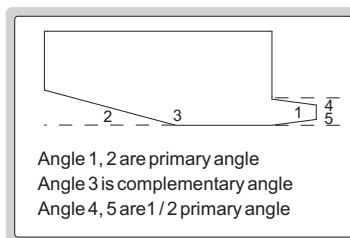
ANGLE GAGE SET



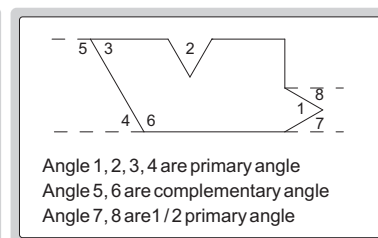
4807

- Each blade checks primary, 1/2 primary and complementary angles
- Supplied in storage pouch

Order No.	EDP No.	Quantity of Leaves	Accuracy
4807	816602	18	±10'



type A



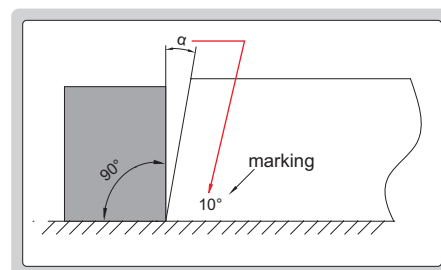
type B

Primary Angle	1/2 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

ANGLE GAGE



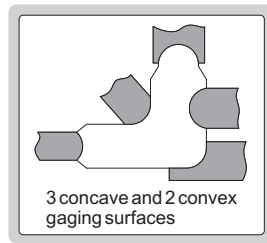
4806-20



Order No.	EDP No.	Range	Angle of Leaves Included	Quantity of Leaves	Accuracy
4806-20	816600	1°-45°	1°, 2°, 3°, 4°, 5°, 6°, 7°, 8°, 9°, 10°, 12°, 14°, 16°, 18°, 20°, 25°, 30°, 35°, 40°, 45°	20	±30'

RADIUS GAGE SET

- Each piece has 3 concave and 2 convex gaging surfaces
- Supplied in storage pouch

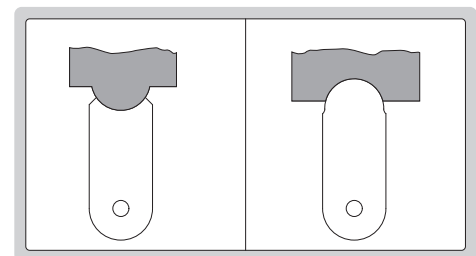


4804-26

Order 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", 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
4804-26E	283572	.010" ~ .5"	.010", .015", .020", .025", .030", .040", .050", .060", .070", .080", .090", .100", .12", .14", .16", .18", .20", .22", .24", .26", .28", .30", .35", .40", .45", .50"	26	±.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
4804-8E1	283571	1-1/16" ~ 1-1/2"	1-1/16", 1-1/8", 1-3/16", 1-1/4", 1-5/16", 1-3/8", 1-7/16", 1-1/2"	8	±.003"	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

RADIUS GAGE

NEW SIZES!



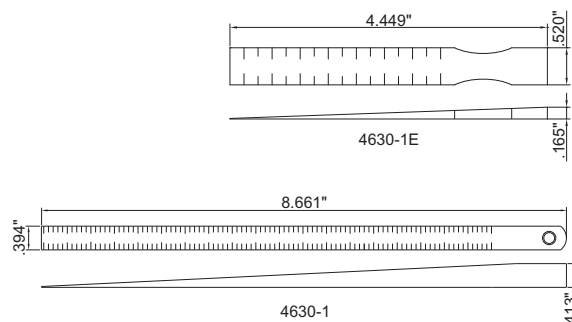
- Supplied in storage pouch

Order 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"
4801-16E1	283569	17/32" - 1"	17/32", 9/16", 19/32", 5/8", 21/32", 11/16", 23/32", 3/4", 25/32", 13/16", 27/32", 7/8", 29/32", 15/16", 31/32", 1"	16+16	±.0017"

TAPER GAGE

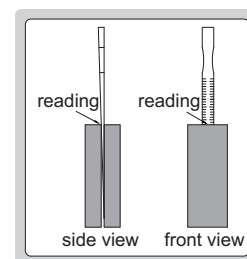


4630-1E



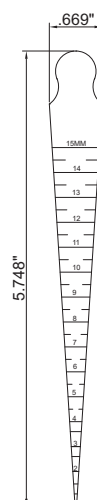
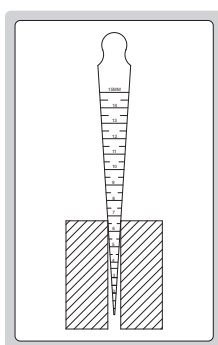
Order No.	EDP No.	Range	Graduation	Accuracy
4630-1E	283577	.01" - .15"	.001"	±.003"
4630-1	283576	0.5 - 10mm	0.05mm	±0.07mm

- For quick measurement of gap width
- Stain chrome plated reading surface
- Made of stainless steel
- Supplied in storage pouch



TAPER GAGE

- Measure opening, slot width, hole size, etc.
- Made of stainless steel
- Supplied in storage pouch



Order No.	EDP No.	Range	Graduation	Accuracy
4833-1	285112	1/32" - 5/8" (0.8 - 15mm)	1/64" (0.1mm)	±.0039"

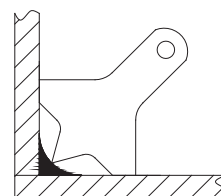


WELDING SEAM GAGE

- Made of alloy steel

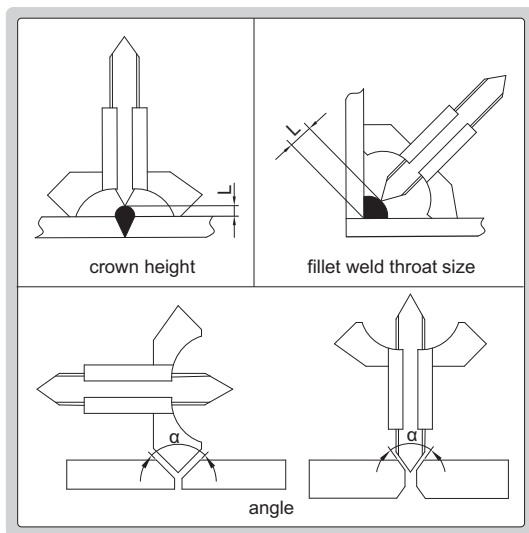


4805-12E



Order No.	EDP No.	Range	Size of Leaves Included	Quantity of Leaves
4805-12E	283579	1/8" - 1/2"	1/8", 5/32", 3/16", 7/32", 1/4", 9/32", 5/16", 11/32", 3/8", 13/32", 7/16", 1/2"	12

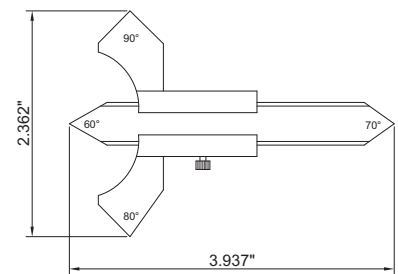
WELDING GAGE



OrderNo.	EDPNo.	Measurement	Range	Graduation	Accuracy
4830-E	283581	crown height	0 - 5/16"	1/128"	±.0039"
		fillet weld throat size	0 - 9/16"	1/128"	±.0118"
		angle	60°, 70°, 80°, 90°	—	±1°

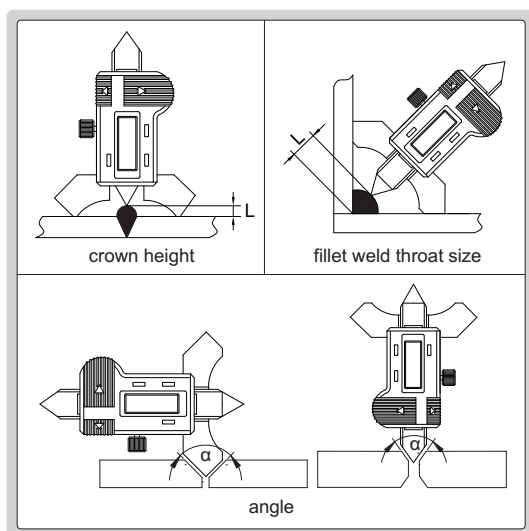


4830-E



- Made of stainless steel
- Stain chrome plated reading surface
- Supplied in storage pouch

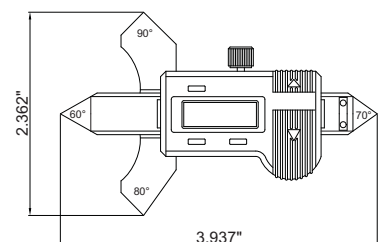
ELECTRONIC WELDING GAGE



OrderNo.	EDPNo.	Measurement	Range	Resolution	Accuracy
4831-20	283583	crown height	0 - .4"	.0005"/0.01mm	±.0012"
		fillet weld throat size	0 - .8"	.0005"/0.01mm	±.0039"
		angle	60°, 70°, 80°, 90°	—	±1°



4831-20



- Buttons: zero, inch/mm, on/off
- Battery SR44 or LR44
- Made of stainless steel
- Supplied in fitted storage case

WELDING GAGE

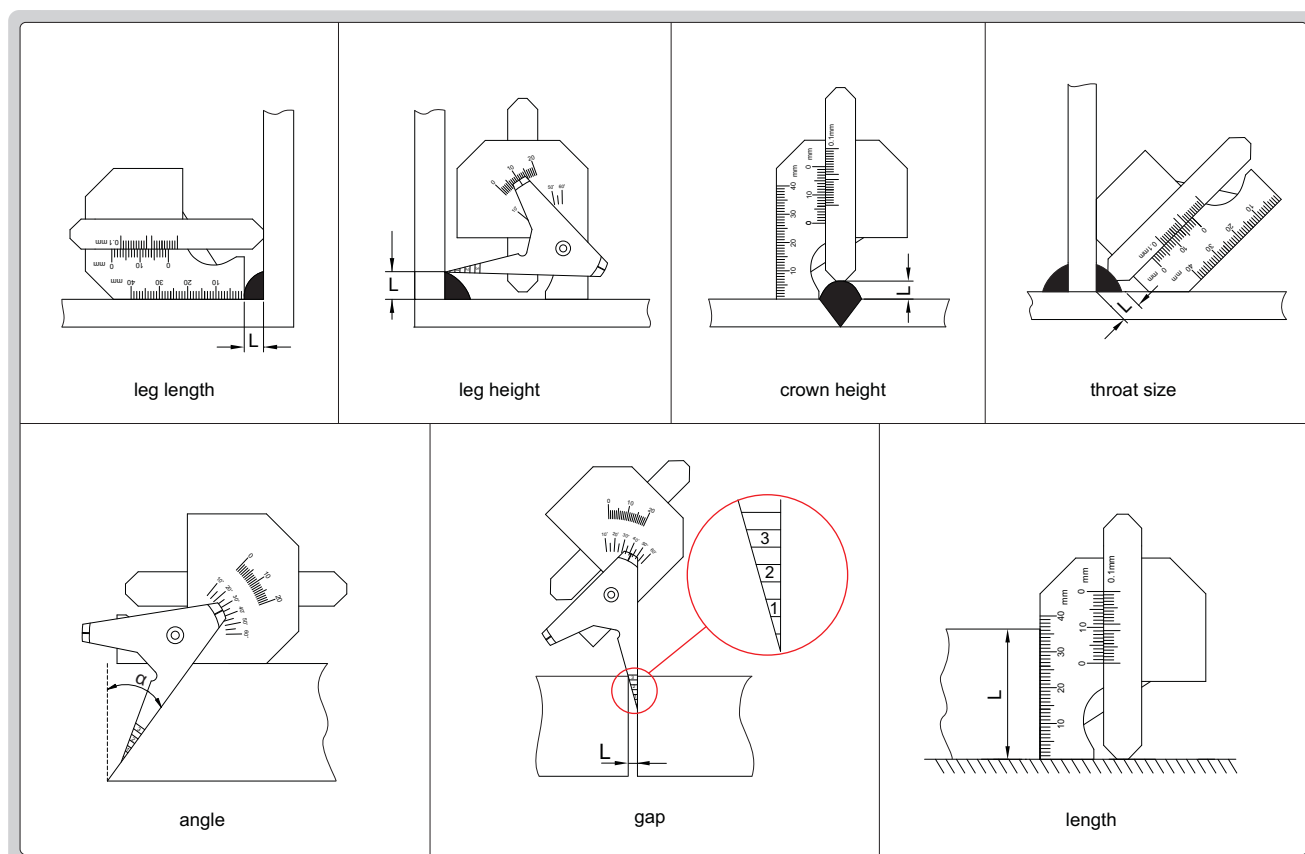


front



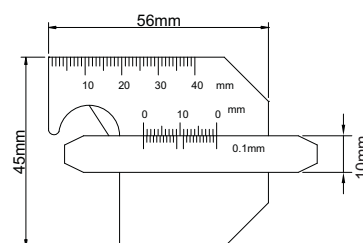
back

6832-1



- Made of stainless steel
- Stain chrome plated surface
- Supplied in storage pouch

Order No.	EDP No.	Measurement	Range	Graduation	Accuracy
6832-1	283584	leg length	0 - 10mm	0.1mm	±0.1mm
		leg height	0 - 20mm	1mm	±0.5mm
		crown height	0 - 10mm	0.1mm	±0.1mm
		throat size	0 - 10mm	0.1mm	±0.1mm
		angle	0° - 60°	5°	±1°
		gap	1 - 3.5mm	0.5mm	±0.5mm
		length	0 - 40mm	1mm	±0.5mm

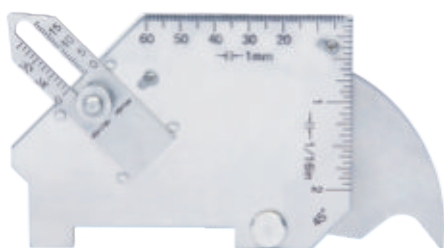


WELDING GAGE

NEW ITEM!

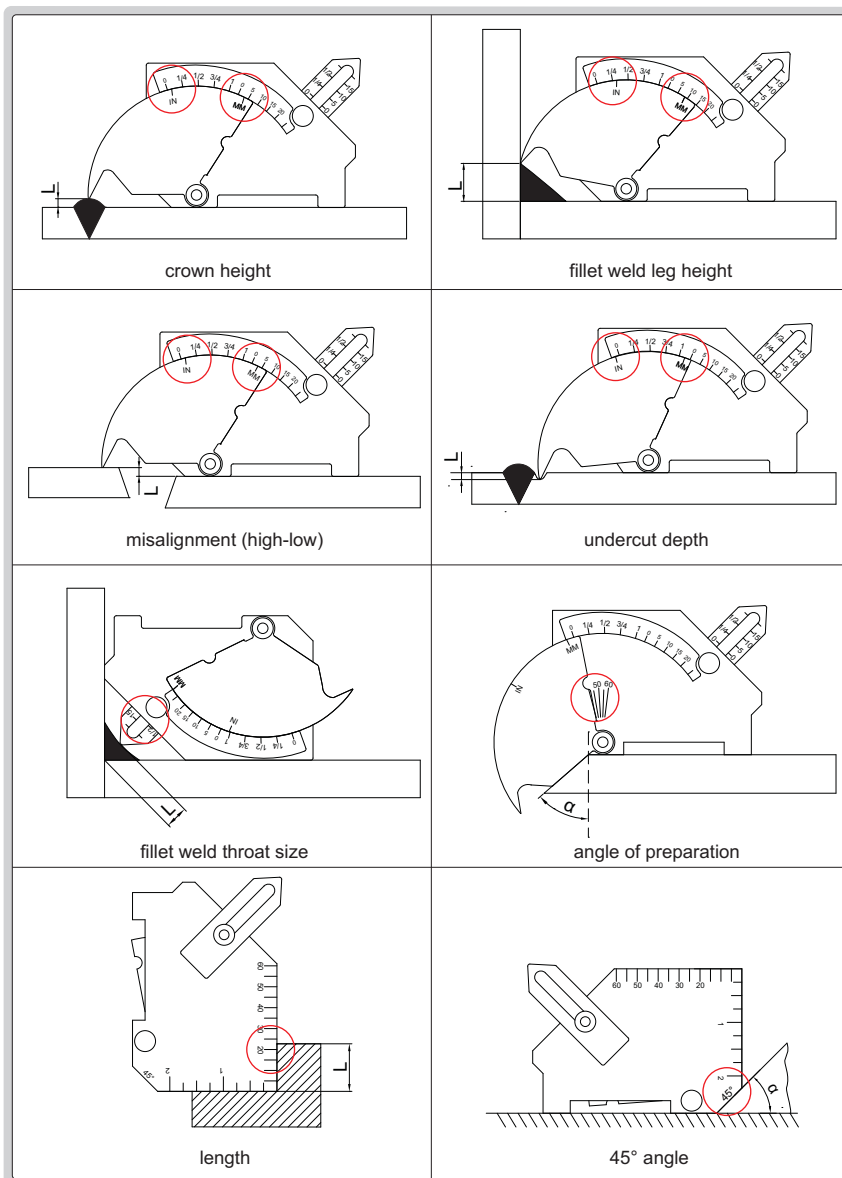
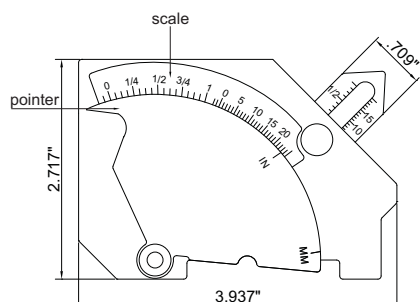


front



back

4835-1

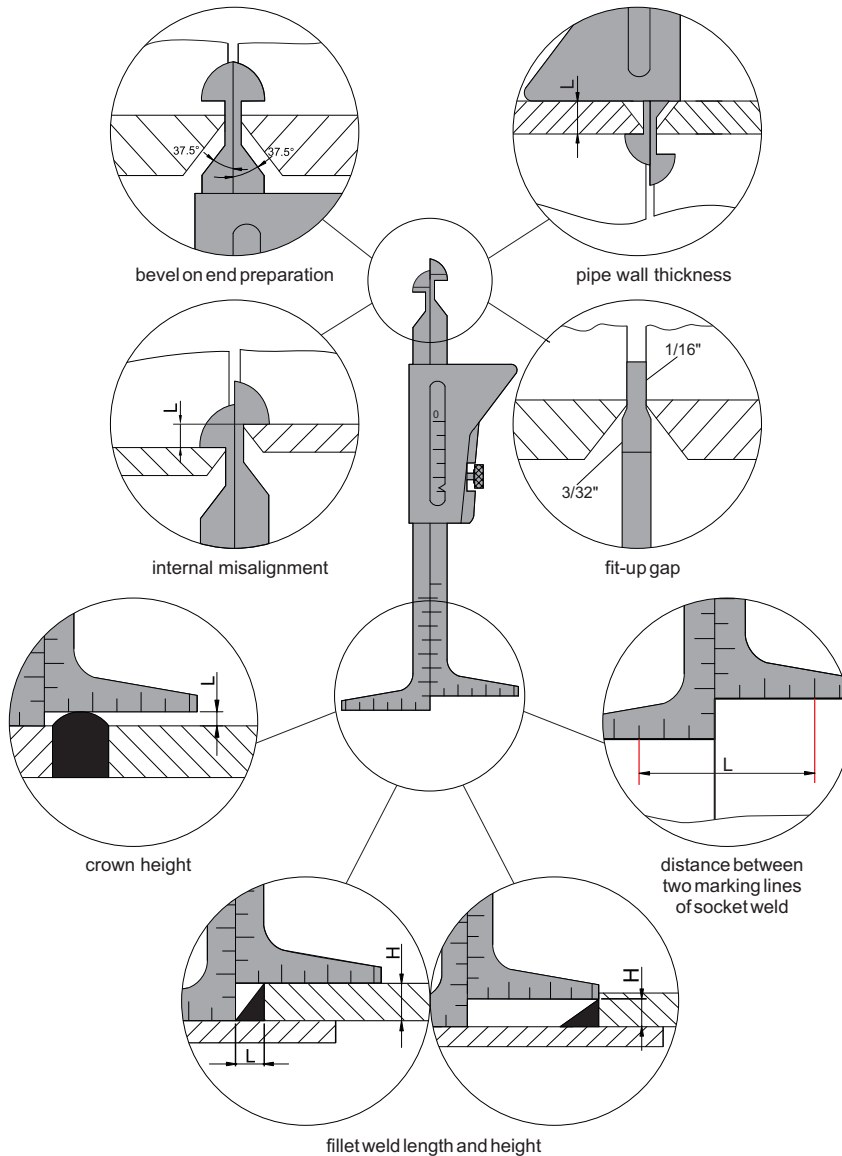


Order No.	EDP No.	Measurement	Range	Graduation	Accuracy
4835-1	877030	crown height	0 - 1" (0 - 25mm)	1/16" (1mm)	±.02"
		fillet weld leg height	0 - 1" (0 - 25mm)	1/16" (1mm)	±.02"
		misalignment (high-low)	0 - 1" (0 - 25mm)	1/16" (1mm)	±.02"
		undercut depth	0 - 1/8" (0 - 2mm)	1/16" (1mm)	±.02"
		fillet 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°

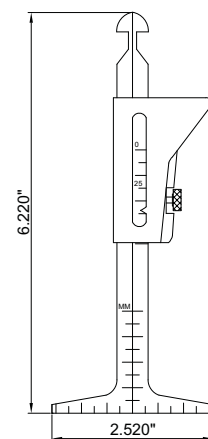
- Adjustable scale to compensate for pointer wear
- Made of stainless steel
- Supplied in storage pouch

PIPE WELDING GAGE

NEW ITEM!



4839-1



- Made of stainless steel
- Supplied in storage pouch

Order No.	EDP No.	Measurement	Range	Graduation	Accuracy
4839-1	877032	bevel on end preparation	37.5°	—	±1°
		pipe wall thickness	0 ~ 1-3/4" (0 - 45mm)	1/16" (1mm)	±.02"
		internal misalignment	0 ~ 1-3/8" (0 - 35mm)	1/32" (1mm)	±.02"
		fit-up gap	1/16", 3/32"	—	±.01"
		crown height	0 ~ 1-3/8" (0 - 35mm)	1/32" (1mm)	±.02"
		distance between two marking lines of socket weld	0 ~ 2-3/8" (0 - 60mm)	1/16" (1mm)	±.02"
		fillet weld length	0 ~ 1-1/4" (0 - 30mm)	1/16" (1mm)	±.02"
		fillet weld height	0 ~ 1-3/8" (0 - 35mm)	1/32" (1mm)	±.02"

INSIDE CALIPER

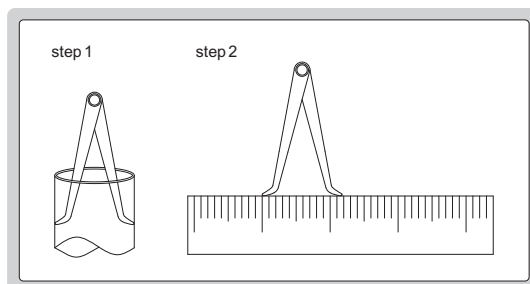
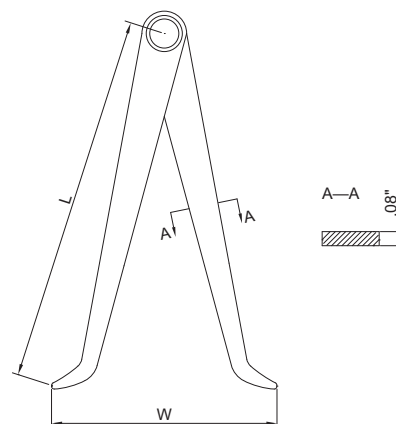
NEW ITEM!



7240-150

- Made of carbon steel

Order No.	EDP No.	Size (L)	Range (W)
7240-150	283857	6"	.59 - 5.91"
7240-200	283859	8"	.59 - 7.87"



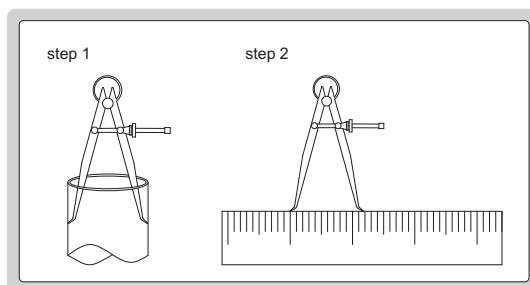
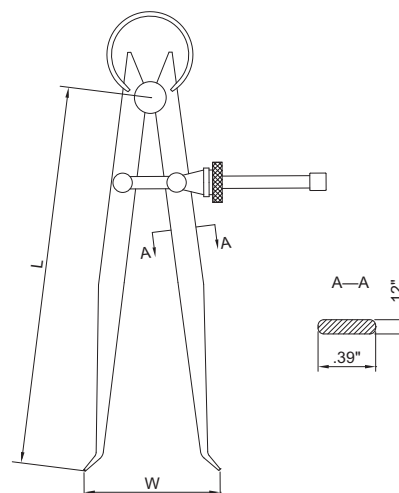
INSIDE SPRING CALIPER



7249-150

- Made of carbon steel

Order No.	EDP No.	Size (L)	Range (W)
7249-150	283868	6"	.59 - 5.51"
7249-200	283870	8"	.71 - 7.48"
7249-300	283872	12"	.79 - 11.42"



OUTSIDE CALIPER

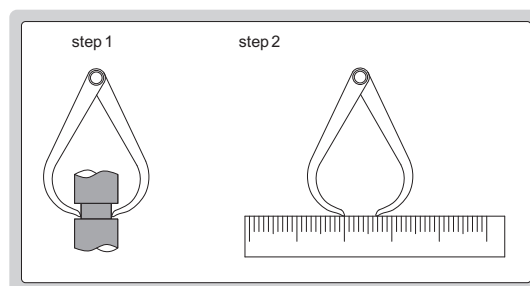
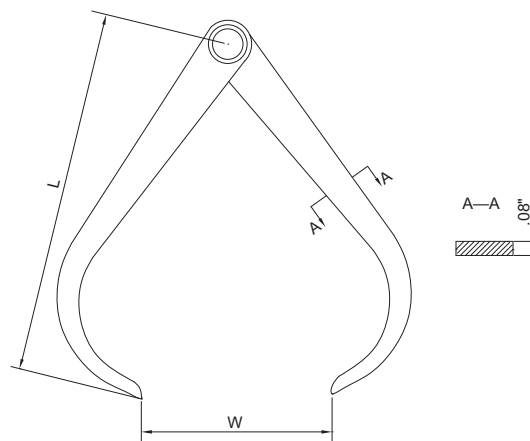
NEW ITEM!



7241-150

- Made of carbon steel

Order No.	EDP No.	Size (L)	Range (W)
7241-150	283877	6"	0 - 5.91"
7241-200	283879	8"	0 - 7.87"



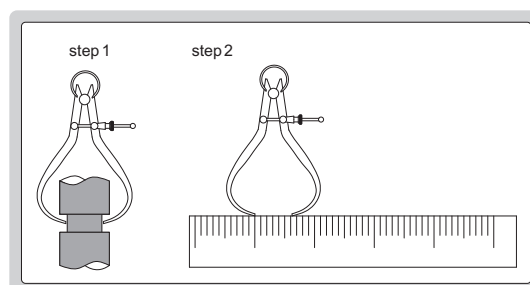
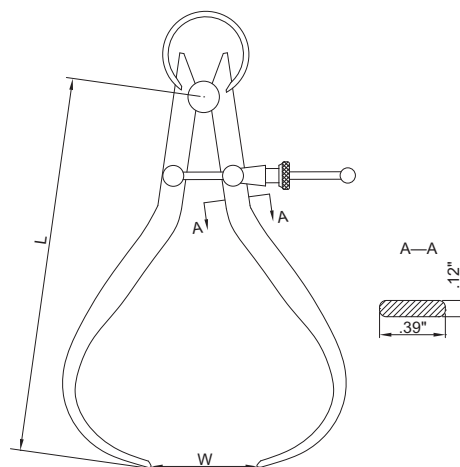
OUTSIDE SPRING CALIPER



7244-150

- Made of carbon steel

Order No.	EDP No.	Size (L)	Range (W)
7244-150	283888	6"	0 - 5.51"
7244-200	283890	8"	0 - 7.48"
7244-300	283892	12"	0 - 11.42"



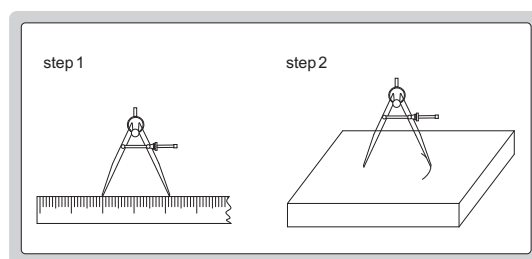
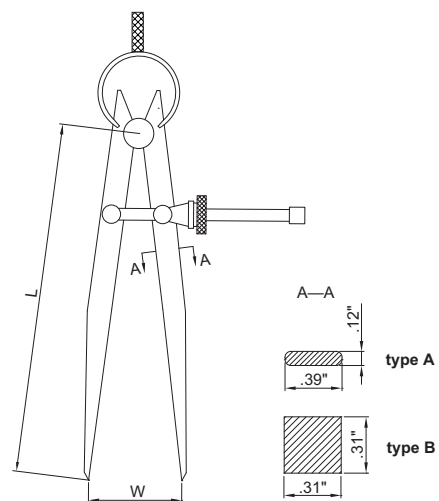
SPRING DIVIDER



7250-150

- Made of carbon steel
- Hardened points

Order No.	EDP No.	Size (L)	Type	Range (W)
7250-150	283897	6"	A	0 - 5.51"
7250-200	283899	8"	A	0 - 7.48"
7250-300	283901	12"	B	0 - 11.42"



DIVIDER

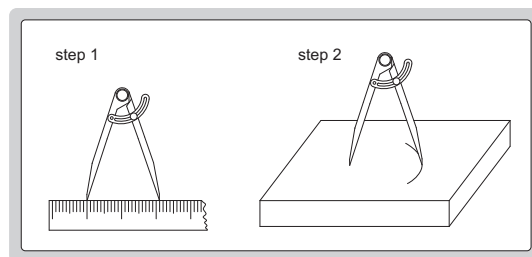
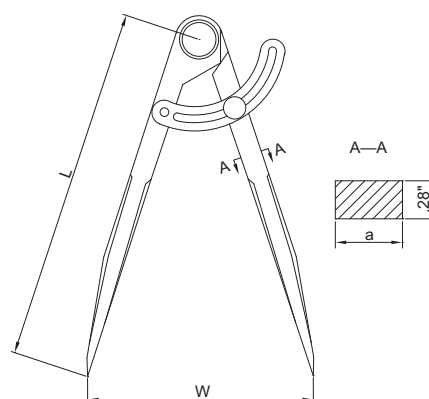
NEW ITEM!



7247-200

- Made of carbon steel
- Hardened points

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

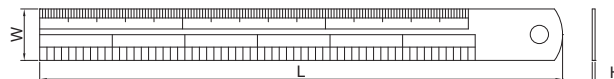


STEEL RULE



7110-300

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



Order No.	EDP No.	Range	Accuracy	L	W	H	Remark
7110-150	283596	6"/150mm	±.003"	6.693"	.709"	.039"	graduation on front and back
7110-200	283597	8"/200mm	±.003"	8.661"	.709"	.039"	graduation on front and back
7110-300	283598	12"/300mm	±.004"	12.992"	.984"	.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	±.006"	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	±.014"	61.024"	1.496"	.071"	graduation on front
7110-2000	283605	80"/2000mm	±.018"	81.299"	1.575"	.079"	graduation on front

RIGID RULE

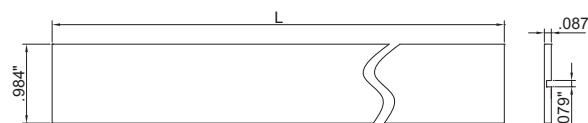


7113-300A



groove on the back

- Rigid rules
- With groove on the back, suitable for combination square set (order no. **2278-180** and **2278-180E**)
- Satin chrome plated
- Supplied in storage pouch

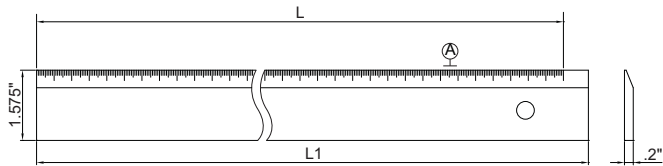


Order No.	EDP No.	Range	Graduation		Accuracy	L
			Front	Back		
7113-300A	283606	12"/300mm	1/32" and 0.5mm	1/64" and 1mm	±.006"	12"
7113-450A	877038	18"/450mm	1/32" and 0.5mm	1/64" and 1mm	±.008"	18"

STRAIGHT EDGE

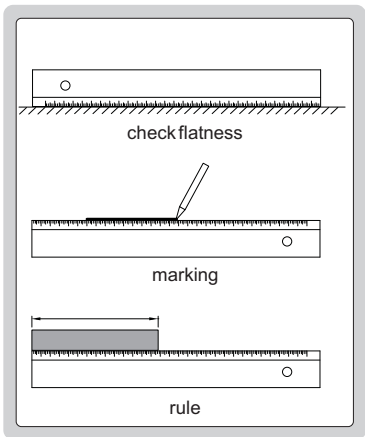


7111-12



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

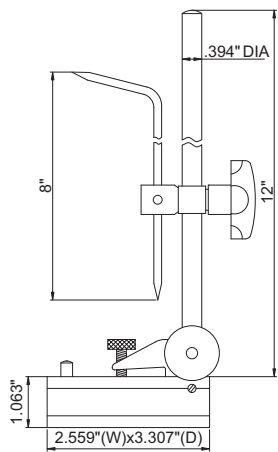
Order No.	EDP No.	Range (L)	Straightness of A	L1
7111-12	876217	12"	.0008"	12.598"
7111-20	876218	20"	.0012"	20.472"
7111-40	876219	40"	.0016"	40.557"
7111-60	876220	60"	.002"	60.630"



HEIGHT SCRIBER

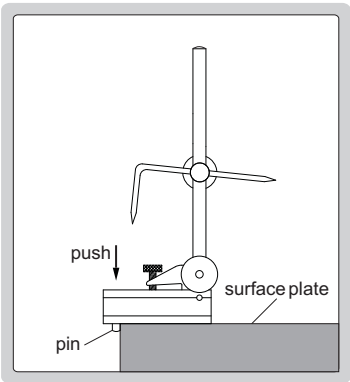
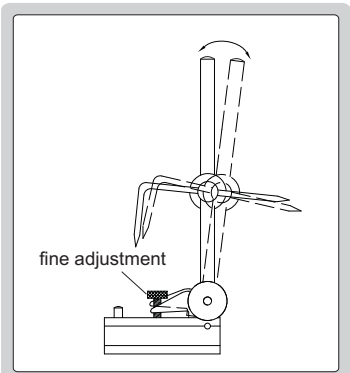


6990-300A



Order No.	EDP No.
6990-300A	283971

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



SCRIBER



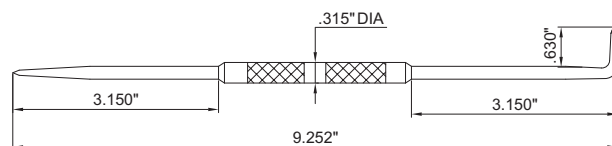
7230



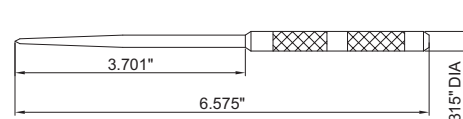
7231



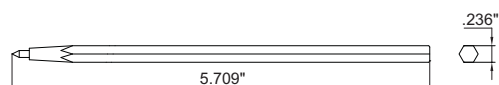
7232



7230



7231



7232

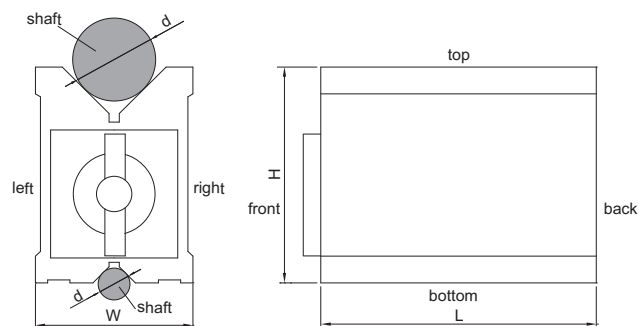
- Nickel plated

Order No.	EDP No.	Tip
7230	283972	hardened tips
7231	283973	hardened tip
7232	283974	carbide tip

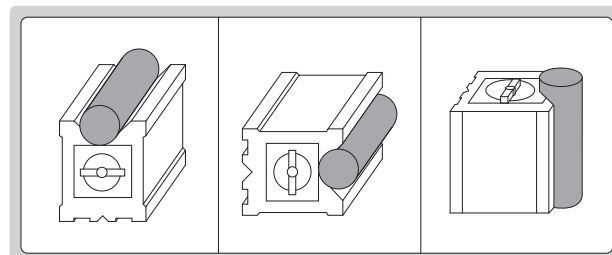
MAGNETIC V-BLOCK



6801-1201



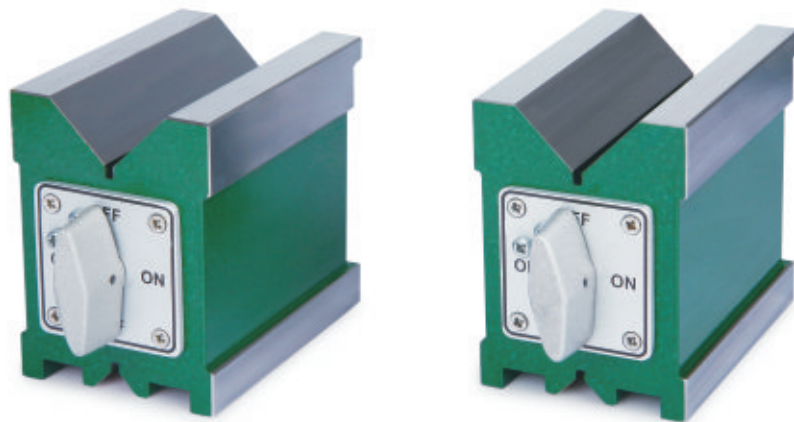
- Hold cylindrical workpieces for inspection and machining
- Supplied in single piece
- Not hardened
- V groove on the top for large shafts
- V groove on the bottom for small shafts
- Not suitable for cast iron surface plates
- Supplied in fitted storage case



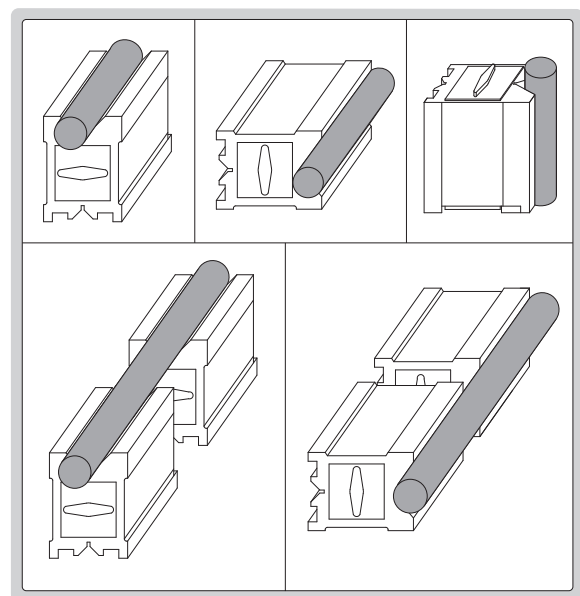
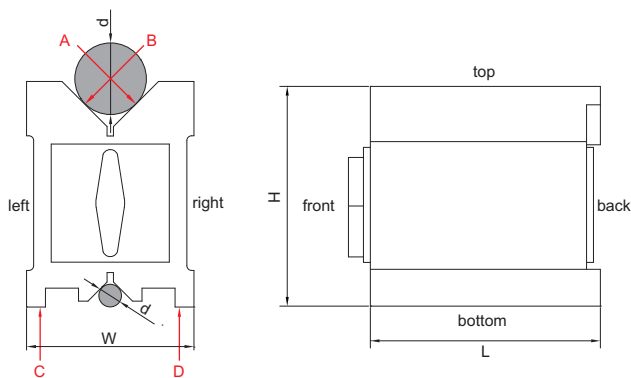
Order No.	EDP No.	Size (LxWxH)	Range of Shafts (d)	Magnetic Force	Parallelism of Both V Grooves to Top, Bottom, Left, Right Side	Squareness of Both V Grooves to Back Side
6801-1201	877032	3.15x2.76x3.74"	.24 - 2.64" DIA	627N	.00039"	.00039"

MAGNETIC V-BLOCK SET

NEW ITEM!



6889-1



- Hold cylindrical workpieces for inspection and machining
- Two V-blocks per set
- Surface A, B, C, D are hardened to HRC60±2
- Magnetic force on top, bottom and two V grooves
- V groove on the top for large shafts
- V groove on the bottom for small shafts
- Suitable for cast iron surface plates and granite surface plates
- Supplied in fitted storage case

Order No.	EDP No.	Size (LxWxH)	Range of Shafts (d)	Magnetic Force	Parallelism of Both V Grooves to Top, Bottom, Left, Right Sides	Squareness of Both V Grooves to Back Side	Height Difference of A Matched Pair
6889-1	877036	2.95x2.20x2.95"	.20 - 1.57" DIA	735N	.0002"	.0002"	.0002"

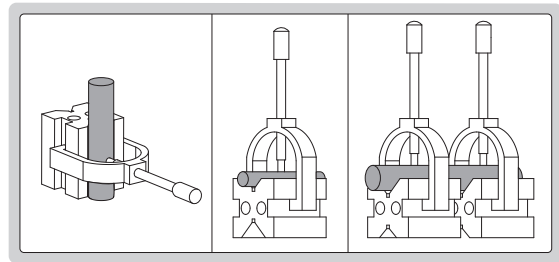
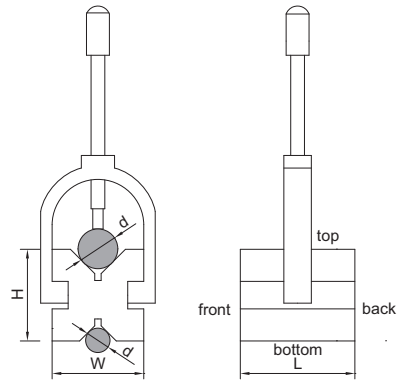
V-BLOCK SET



6896-11

NEW SIZES!

- Hold cylindrical workpieces for inspection and machining
- Two V-blocks per set
- Hardened to HRC60±2
- V groove on the top for large shafts
- V groove on the bottom for small shafts
- Supplied in fitted storage case



Order No.	EDP No.	Size (LxWxH)	Range of Shafts (d)	Parallelism of Both V Grooves to Top and Bottom Sides	Squareness of Both V Grooves to Front and Back Sides	Height Difference of A Matched Pair
6896-11	6896-11	1.97x1.57x1.57"	.20 - 1.18" DIA	.0002"	.0002"	.0002"
6896-12	6896-12	3.15x2.48x2.48"	.28 - 2.48" DIA	.0002"	.0002"	.0002"
6896-13	6896-13	3.94x3.15x3.15"	.28 - 3.15" DIA	.0002"	.0002"	.0002"

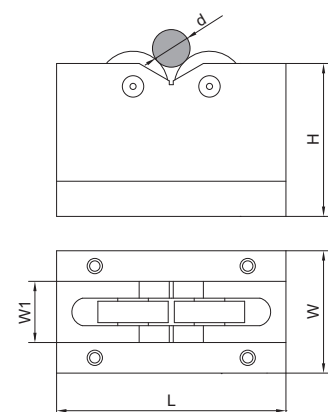
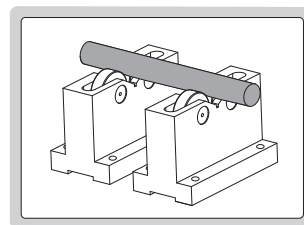
ROLLER BEARING V-BLOCK SET

NEW ITEM!



6888-1

- Two V-blocks per set
- Workpieces don't get damaged due to bearings
- Suitable for heavy workpieces
- Supplied in fitted storage case

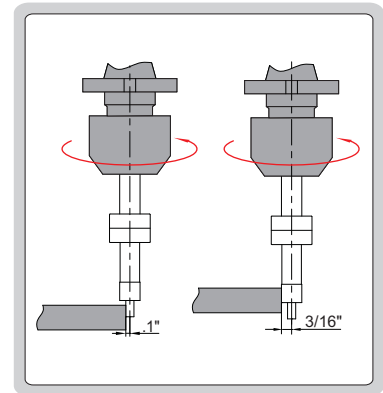
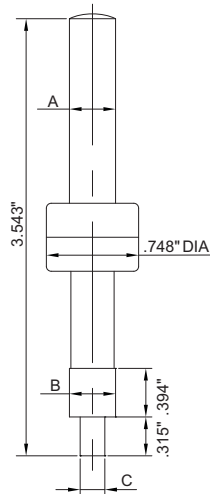


Order No.	EDP No.	Size (LxWxH)	Range of Shafts (d)	Parallelism of Bearings to Bottom (When Two V-blocks are Closed)	Load Capacity	W1
6888-1	877034	5.91x2.36x3.94"	.98 - 2.76" DIA	.0002"	1100lb	.87"

EDGE FINDER



6562-E1



- Hardened shank and contact point
- Supplied in fitted storage case

Order No.	EDP No.	Shank (A)	Contact Point (B)	Contact Point (C)	Accuracy
6562-E1	284431	3/8" DIA	3/8" DIA	.2"	.0003"

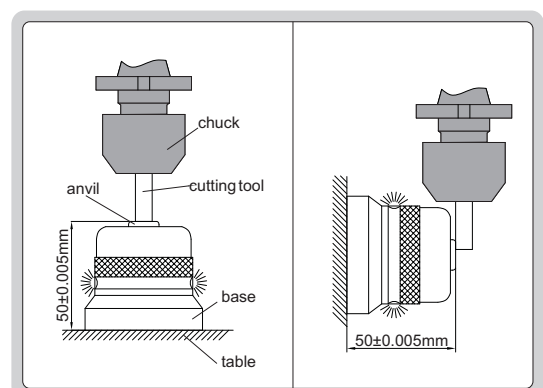
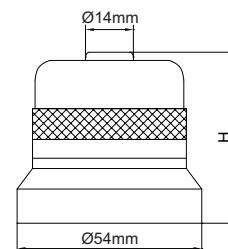
ELECTRONIC ZERO SETTER

NEW ITEM!



6550-50A

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

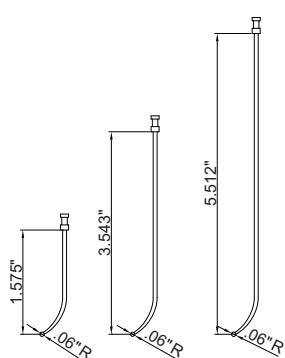
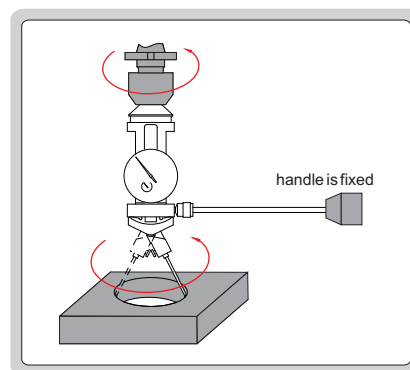


Order No.	EDP No.	Height (H)	Accuracy
6550-50A	876730	50mm	±5µm

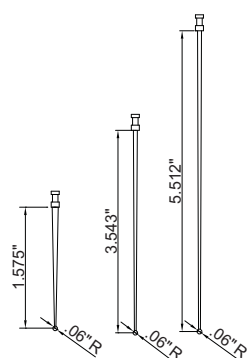
CENTERING INDICATOR



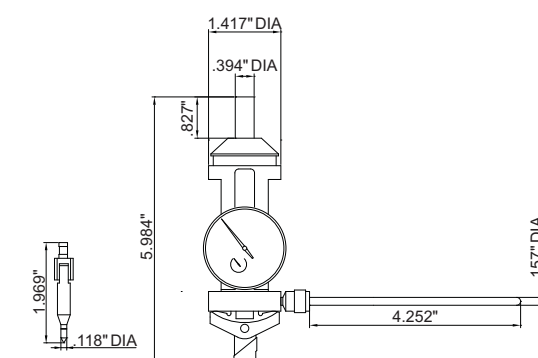
2385-3



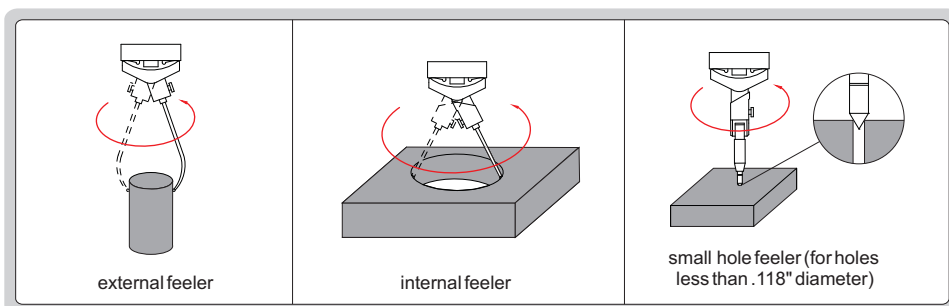
external feeler



internal feeler



small hole feeler



external feeler

internal feeler

small hole feeler (for holes less than .118" diameter)

Order No.	EDP No.
2385-3	284450

- Provides quick and accurate centering in boring and milling set-up
- Supplied in fitted storage case

POSITIONING BLOCKS



6531-7

Order No.	EDP No.	Size	Squareness	Parallelism	Thread Size
6531-7	283773	2x3x4"	.0003"	.0002"	3/8-16UNC

- Pairs of matched blocks for positioning and set-up
- Screws and wrench are included
- Supplied in fitted storage case

WIRE GAGE



4808

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

Order No.	EDP No.	Range
4808	283574	0-36

SHEET METAL GAGE



4809

- For gaging sheet metal, plate iron and steel
- Hardened and satin chrome finish
- Supplied in storage pouch

Order No.	EDP No.	Range
4809	283575	0-36

LONG DRIVE PIN PUNCH

- Made of tools 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
- Supplied in storage pouch



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

7253

DRIVE PIN PUNCH

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



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

7252

CENTER PUNCH

- Made of tools steel, black oxide finish
- Hardened and tempered both ends
- Knurled finger grip for ease of use
- 5pcs set
- 4" length, 1/16" diameter
- Supplied in storage pouch



Order No.	EDP No.	Point Size (DIA)
7251	283977	1/16", 5/64", 3/32", 9/64", 5/32"

7251

2-PIECE MEASURING TOOL SET

- Includes:

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

- Supplied in fitted storage case

Order No.	EDP No.
5022	816345



2-PIECE MEASURING TOOL SET

- Includes:

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

- Supplied in fitted storage case

Order No.	EDP No.
5002-4E	284505



3-PIECE MEASURING TOOL SET

- Includes:
 - 1) Dial caliper, range 0-6", graduation .001" (order no. **1311-6**)
 - 2) Outside micrometer, range 0-1", graduation .0001" (order no. **3202-1**)
 - 3) Steel rule, 6"/150mm (order no. **7110-150**)
- Supplied in fitted storage case



Order No.	EDP No.
5003-1	284512

3-PIECE MEASURING TOOL SET

- Includes:
 - 1) Electronic caliper, range 0-6"/0-150mm, resolution .0005"/0.01mm (order no. **1108-150**)
 - 2) Outside micrometer, range 0-1", graduation .0001" (order no. **3202-1**)
 - 3) Steel rule, 6"/150mm (order no. **7110-150**)
- Supplied in fitted storage case



Order No.	EDP No.
5003-1E	284514

3-PIECE MEASURING TOOL SET

NEW ITEM!



- Includes:
 - 1) Electronic indicator, range .5"/12.7mm, resolution .0005"/0.01mm (order no. **2112-10E**)
 - 2) Flex arm
 - 3) Locking pliers, adjustable jaw opening from 0 to 1"
- Supplied in fitted storage case

Order No.	EDP No.
5031-E	877000



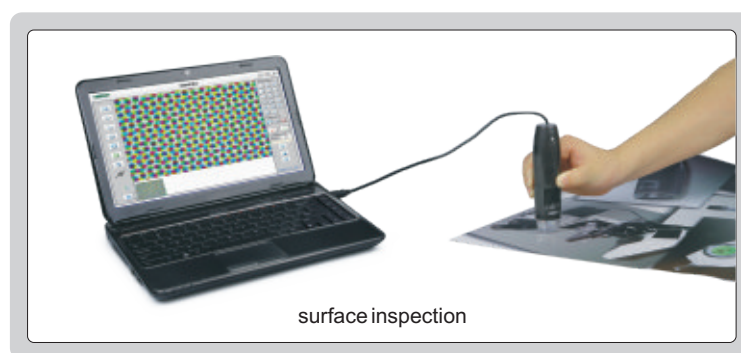
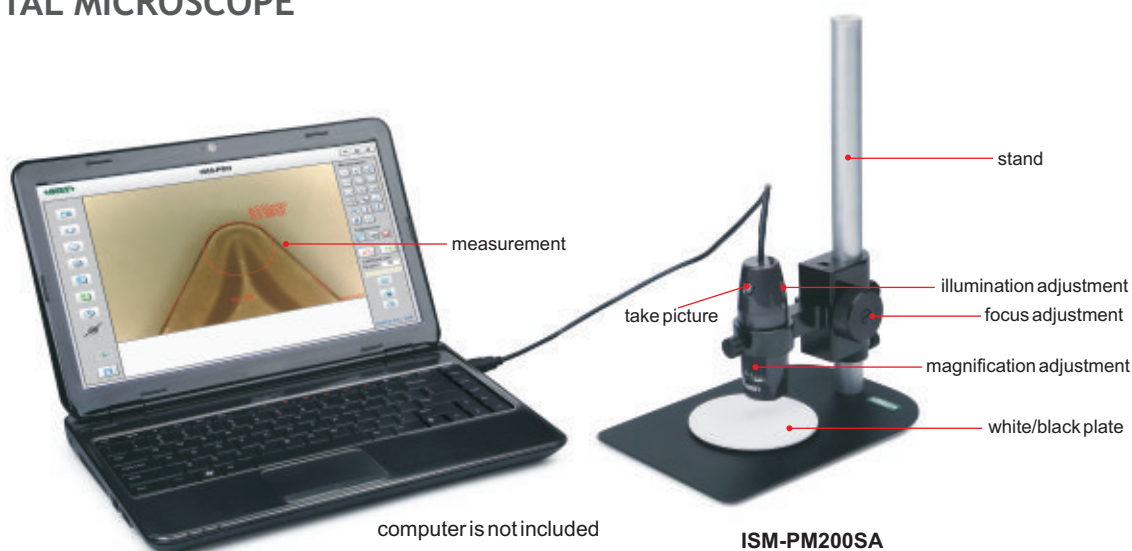
5-PIECE MEASURING TOOL SET

- Includes:
 - 1) Electronic caliper, range 0-6"/0-150mm, resolution .0005"/0.01mm (order no. **1108-150**)
 - 2) Electronic outside micrometer, range 0-1"/0-25mm, resolution .00005"/0.001mm (order no. **3109-25A**)
 - 3) Electronic indicator, range .5"/12.7mm, resolution .0005"/0.01mm (order no. **2112-10E**)
 - 4) Magnetic stand (order no. **6201-60**)
 - 5) Micrometer stand (order no. **6300**)
- Supplied in fitted storage case

Order No.	EDP No.
5052-E	816350



DIGITAL MICROSCOPE

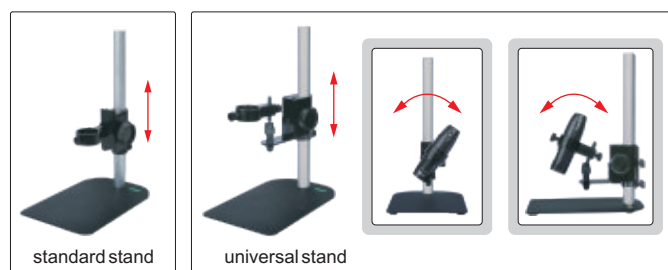


NEW SIZES!

- Can take pictures and videos
- Supplied with measuring software (order no. **ISM-PRO**, page 109-110)

SPECIFICATIONS

Order No.	ISM-PM200SA	ISM-PM200SB
EDP No.	285000	285007
Stand Type	standard stand	universal stand
Magnification	10X - 200X	
Pixel	1.3M (resolution: 1280x1024)	
Illumination	built-in adjustable LED	
Power Supply	USB 2.0 cable (voltage required: 5±0.1V)	



INCLUDES

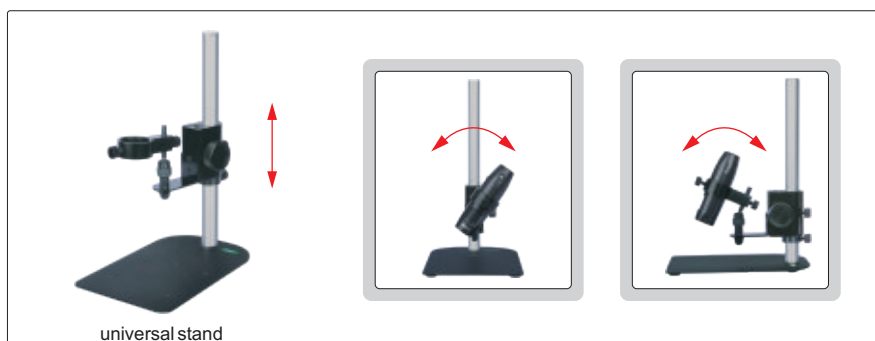
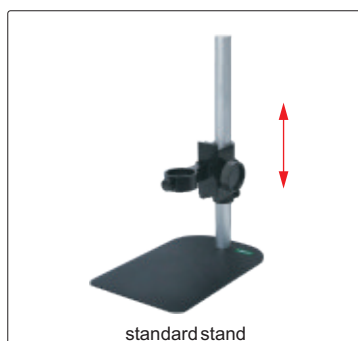
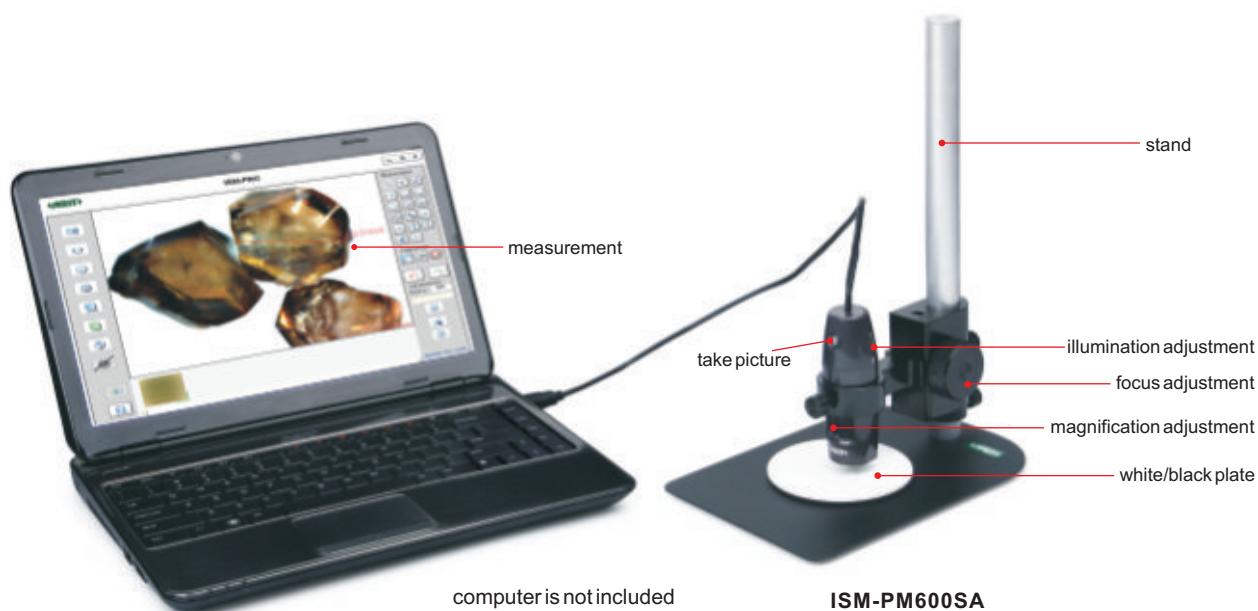
Digital Microscope	1pc
Stand	1pc
White/Black Plate	1pc
Focus Support Ring for 80X/150X	1pc
Focus Support Ring for 60X/200X	1pc
Calibration Rule (Graduation 0.1mm)	1pc
Calibration Rule (Graduation 1mm)	1pc
ISM-PRO Software Disc	1pc

MAGNIFICATION, FOCUS DISTANCE, VIEW FIELD AND ACCURACY

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

HIGH MAGNIFICATION DIGITAL MICROSCOPE

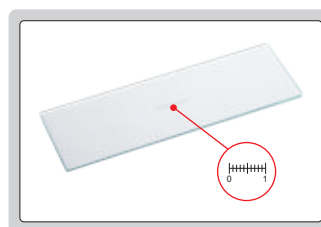
NEW ITEM!



- Can take pictures and videos
- Supplied with measuring software (order no. **ISM-PRO**, page 109-110)

SPECIFICATIONS

Order No.	ISM-PM600SA	ISM-PM600SB
EDP No.	285005	889453
Stand Type	standard stand	universal stand
Magnification	450X - 600X	
Pixel	1.3M (resolution: 1280x1024)	
Illumination	built-in adjustable LED	
Power Supply	USB 2.0 cable (voltage required: 5±0.1V)	



calibration rule (graduation 0.1mm)

INCLUDES

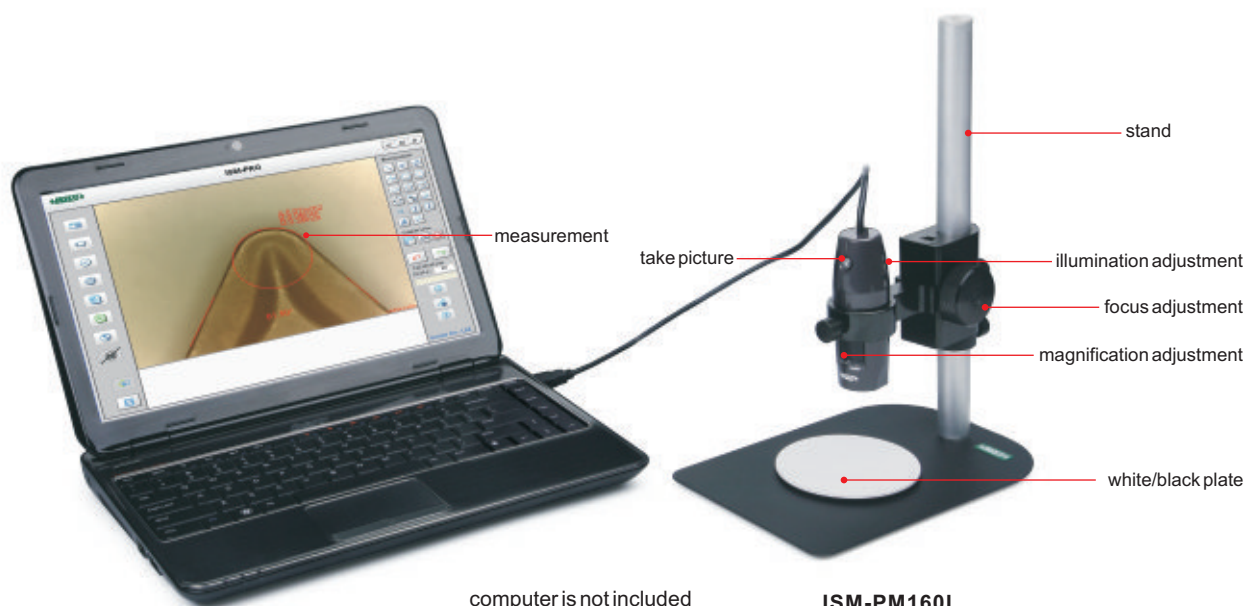
Digital Microscope	1pc
Stand	1pc
White/Black Plate	1pc
Calibration Rule (Graduation 0.1mm)	1pc
ISM-PRO Software Disc	1pc

MAGNIFICATION, FOCUS DISTANCE, VIEW FIELD AND ACCURACY

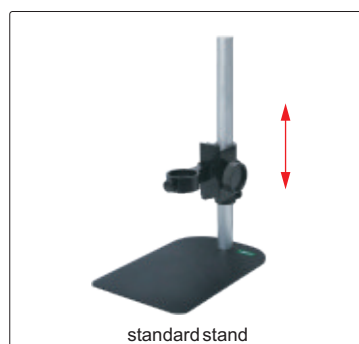
Magnification	Focus Distance	View Field	Accuracy
450X	.06"	.03 x .03"	0.24mil
500X	.22"	.03 x .02"	0.24mil
550X	.34"	.03 x .02"	0.2mil
600X	.45"	.02 x .02"	0.2mil

LONG FOCUS DISTANCE DIGITAL MICROSCOPE

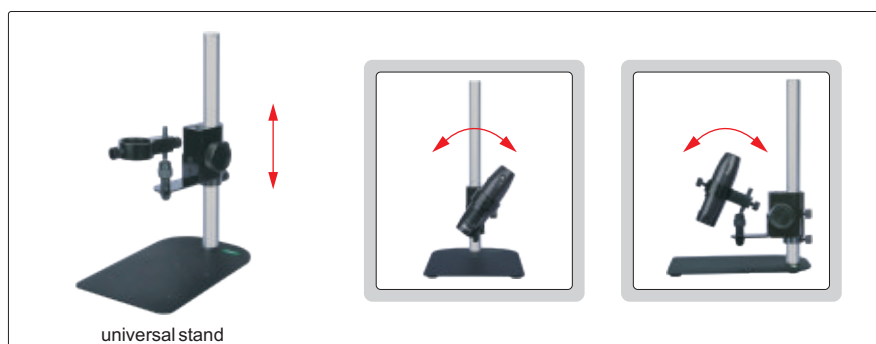
NEW ITEM!



ISM-PM160L



standard stand



universal stand

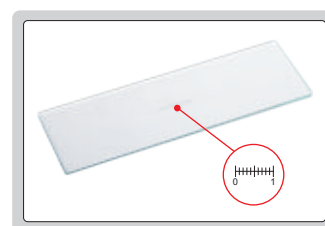
- Can take pictures and videos
- Supplied with measuring software (order no. **ISM-PRO**, page 109-110)

SPECIFICATIONS

Order No.	ISM-PM160L	ISM-PM160LA
EDP No.	889450	889452
Stand Type	standard stand	universal stand
Magnification	35X - 160X	
Pixel	1.3M (resolution: 1280x1024)	
Illumination	built-in adjustable LED	
Power Supply	USB 2.0 cable (voltage required: 5±0.1V)	



calibration rule (graduation 1mm)



calibration rule (graduation 0.1mm)

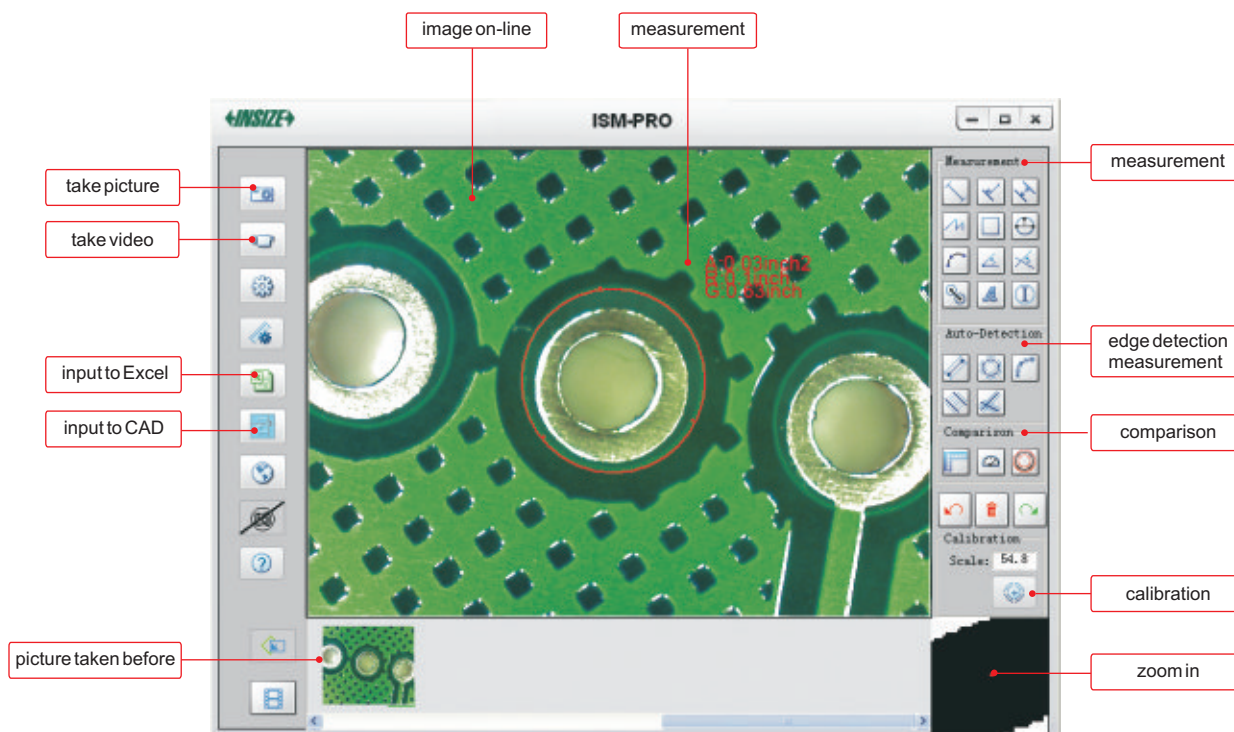
INCLUDES

Digital Microscope	1pc
Stand	1pc
White/Black Plate	1pc
Calibration Rule (Graduation 1mm)	1pc
Calibration Rule (Graduation 0.1mm)	1pc
ISM-PRO Software Disc	1pc

MAGNIFICATION, FOCUS DISTANCE, VIEW FIELD AND ACCURACY

Magnification	Focus Distance	View Field	Accuracy
50X	2.44"	.32 x .25"	1.2mil
100X	1.77"	.15 x .12"	0.6mil
160X	1.97"	.09 x .07"	0.4mil

SOFTWARE FOR DIGITAL MICROSCOPE ORDER NO. ISM-PRO



- **Applicable digital microscope:** ISM-PM200SA, ISM-PM200SB, ISM-PM600SA, ISM-PM600SB, ISM-PM160L, ISM-PM160LA
- **Language:** English, Japanese, Korean, German, Turkey, Portuguese, Chinese
- **Operation system:** Windows 7/XP/Vista
- **Measurement:**

- measure length of line or distance between two points
- measure distance between point and line
- measure distance between two parallel lines
- measure 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 arc automatically, and calculate radius, angle and arc length
- detect two lines automatically, and calculate angle
- detect circle automatically, and calculate radius, girth and area
- detect two parallel lines automatically, and calculate distance

■ **Calibration:**

- calibration is needed when magnification is changed

■ Comparison:

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



create line



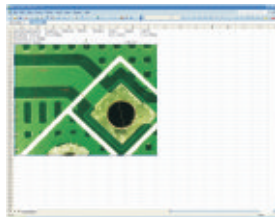
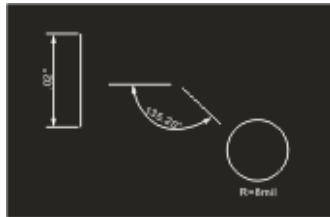
create angle



create circle with tolerance



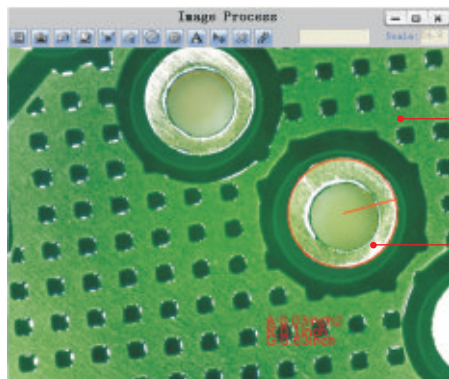
■ Data input to CAD or Excel:



■ Zoom in :

Zoom in the area where the mouse arrow is positioned

■ Picture measurement:



picture taken before

measurement



measurement: measure the picture taken before



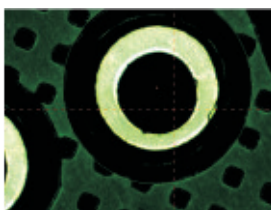
edge detection measurement



image process: image mirror, image negative, adjust brightness, filter



edge detection



WIRELESS DIGITAL MICROSCOPE



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

SPECIFICATIONS

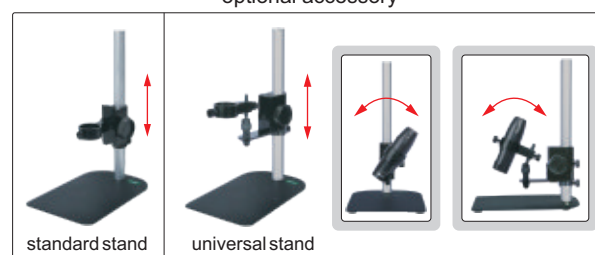
Order No.	ISM-WM200-U*
EDP No.	889015
Magnification	10X - 200X
Pixel	0.35M (resolution: 720x480)
Illumination	built-in adjustable LED
Max. Transmission Distance (Between Digital Microscope and Receiver)	16.5ft
Power Supply	built-in rechargeable battery

INCLUDES

Digital Microscope	1pc
Receiver	1pc
Focus Support Ring for 80X/150X	1pc
Focus Support Ring for 60X/200X	1pc
Calibration Rule Graduation 0.1mm	1pc
Calibration Rule Graduation 1mm	1pc
Software Disc (Simple Version)	1pc
AC/DC Adapter	1pc

*Power supply: AC 110V

optional accessory



OPTIONAL ACCESSORY

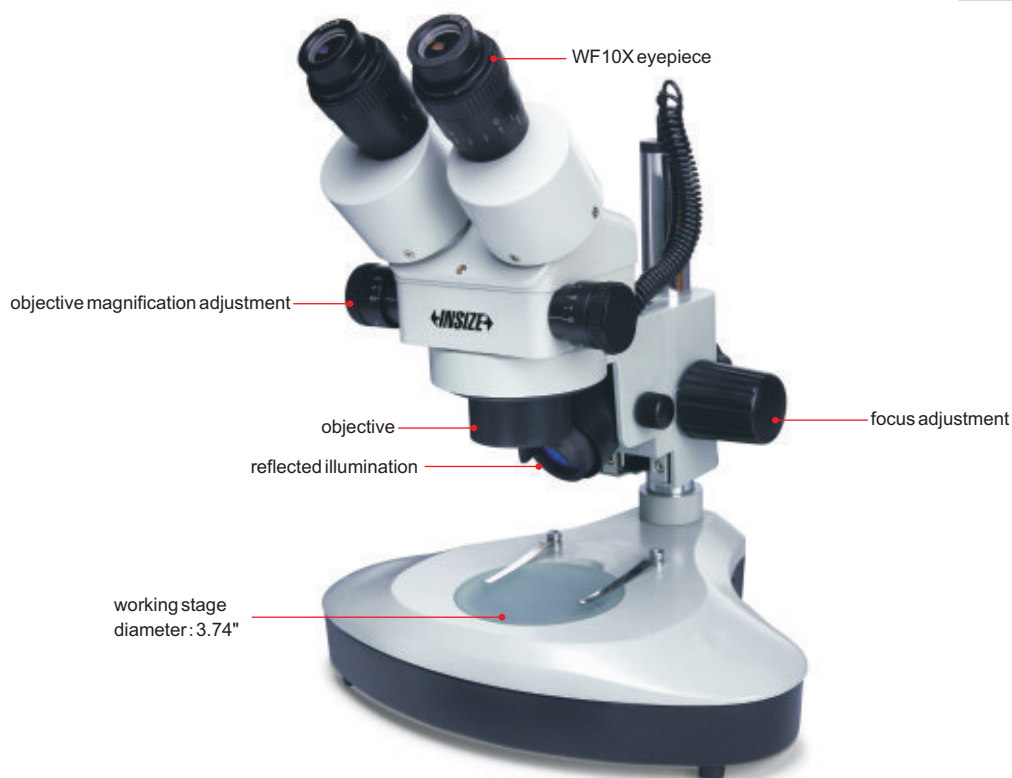
Standard Stand	ISM-WM200-STAND
Universal Stand	ISM-WSTD

MAGNIFICATION, FOCUS DISTANCE, VIEW FIELD AND ACCURACY

Magnification	Focus Distance	View Field	Accuracy
60X	.75"	.27 x .20"	1.6mil
80X	.63"	.20 x .15"	1.2mil
150X	.63"	.10 x .08"	0.8mil
200X	.75"	.07 x .06"	0.6mil

ZOOM STEREO MICROSCOPE

NEW ITEM!



SPECIFICATIONS

Order No.	ISM-ZS45-U*
EDP No.	889026
Optical Tube	binocular
Eyepiece (Wide Field)	10X (view field: .8" DIA)
Objective	0.7X-4.5X (zoom)
Pupil Distance	2.17-2.95" (adjustable)
Diopter Adjustment	±5 diopter (two eyepieces)
Working Distance of Objective	2.17"
Max. Workpiece Height	5.71"
Illumination	selectable reflected and transmitted illumination (brightness is adjustable)
Dimension (L×W×H)	12.2 x 9.84 x 16.54"
Weight	13.23lb

INCLUDES

Main Unit	1pc
WF10X Eyepiece	2pcs
Eyepiece Patch	2pcs
3.74" DIA Frosted Glass Plate	1pc
1.65" DIA Frosted Glass Plate	1pc
3.15" DIA Steel Support Ring	1pc
3.74" DIA White/Black Plate	1pc
Spare Transmitted Lamp (6V, 20W)	1pc
Spare Reflected Lamp (6V, 15W)	1pc
Anti-dust Cover	1pc

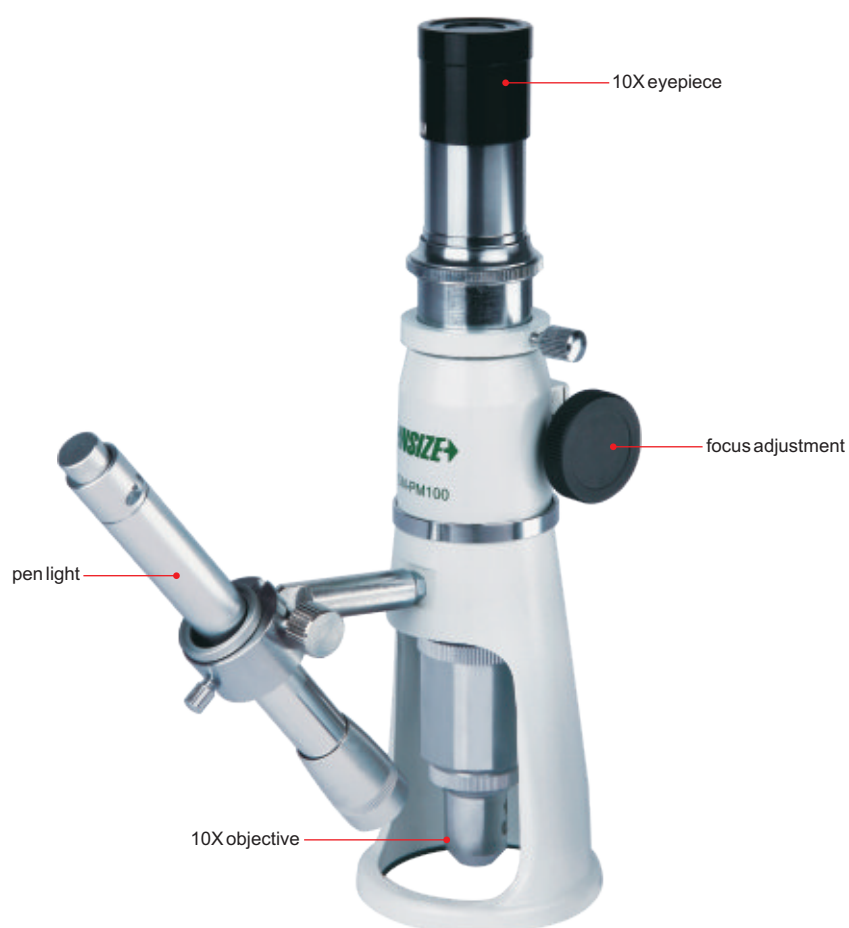
OPTIONAL ACCESSORY

Auxiliary Objective	0.5X	ISM-ZS45-OB05X
	0.75X	ISM-ZS45-OB075X
	1.5X	ISM-ZS45-OB1D5X
	2X	ISM-ZS45-OB2X
Eyepiece	WF5X (View Field: .87" DIA)	ISM-ZS45-EP5X
	WF15X (View Field: .63" DIA)	ISM-ZS45-EP15X
	WF20X (View Field: .47" DIA)	ISM-ZS45-EP20X
	WF25X (View Field: .35" DIA)	ISM-ZS45-EP25X
Digital Camera		ISM-D300B
		ISM-D500

*Power supply: AC 110V

PORTABLE MEASURING MICROSCOPE

NEW ITEM!



SPECIFICATIONS

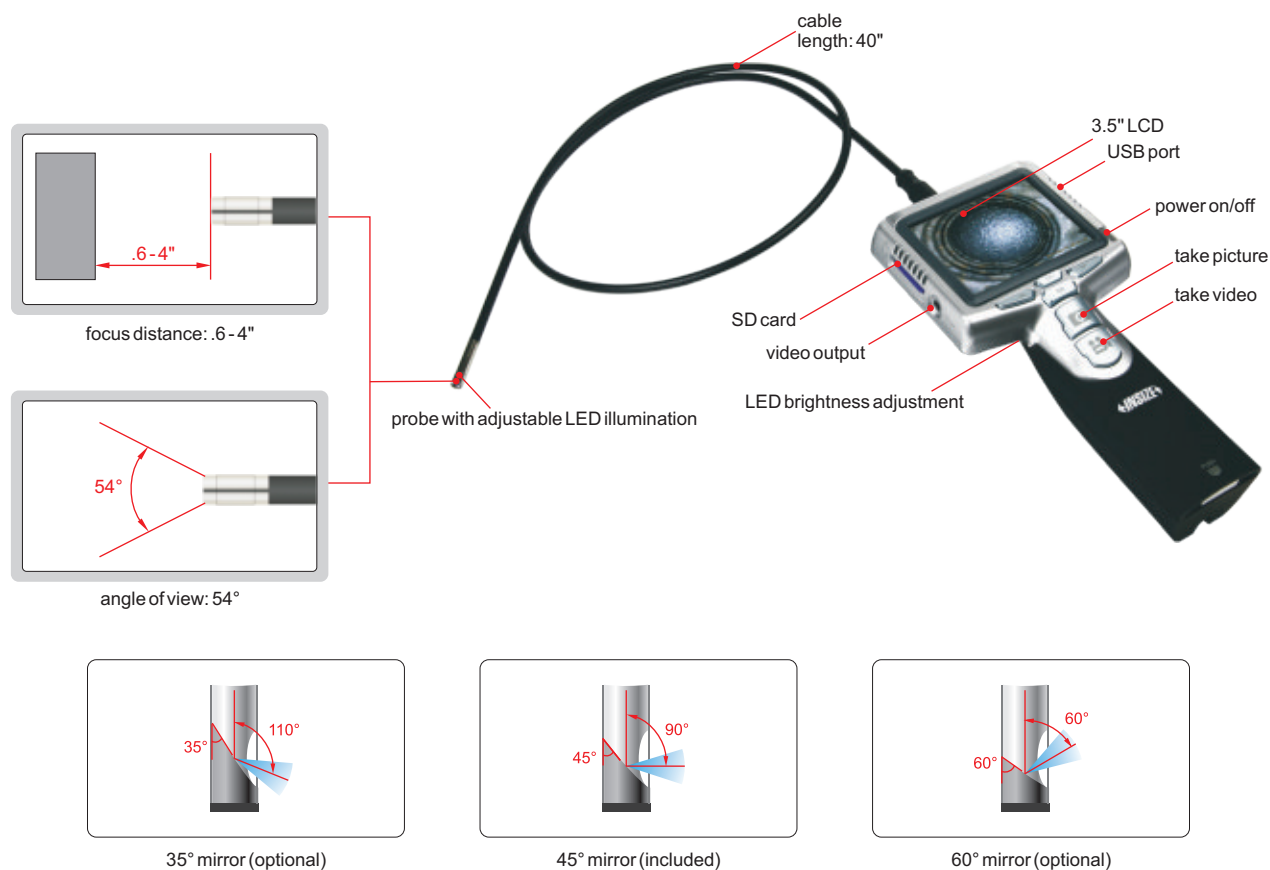
Order No.	ISM-PM100
EDP No.	889021
Total Magnification	100X
Eyepiece	10X with graduation
Objective (Achromatic)	10X (numerical aperture: 0.25)
Working Distance	.28"
Focus Range	1.18"
Viewing Field	.07" DIA
Graduation	0.01mm
Illumination	LED light
Diameter of Base	2.48" DIA
Height	8.27"
Weight	1.43lb

INCLUDES

Main Unit	1pc
Pen Light	1pc
Battery (AAA)	2pcs

ENDOSCOPE

NEW ITEM!



SPECIFICATIONS

Order No.	ISV-E55-U*
EDP No.	876760
Probe Diameter	.22"
Dust/Waterproof Probe	IP57
Pixel	0.3M
Resolution	640x480
Frame Rate	30fps
Video Format	PAL or NTSC
Memory	2G SD card (store 6000 pictures or 15 minutes video)
Power Supply	rechargeable battery (for 3 hours working)
Weight	0.99lb

INCLUDES

Main Unit	1pc	Spare Battery	1pc
Cable with Probe	1pc	AC/DC Adapter	1pc
SD Card 2G	1pc	Video Output Cable	1pc
45° Mirror	1pc	USB Cable	1pc

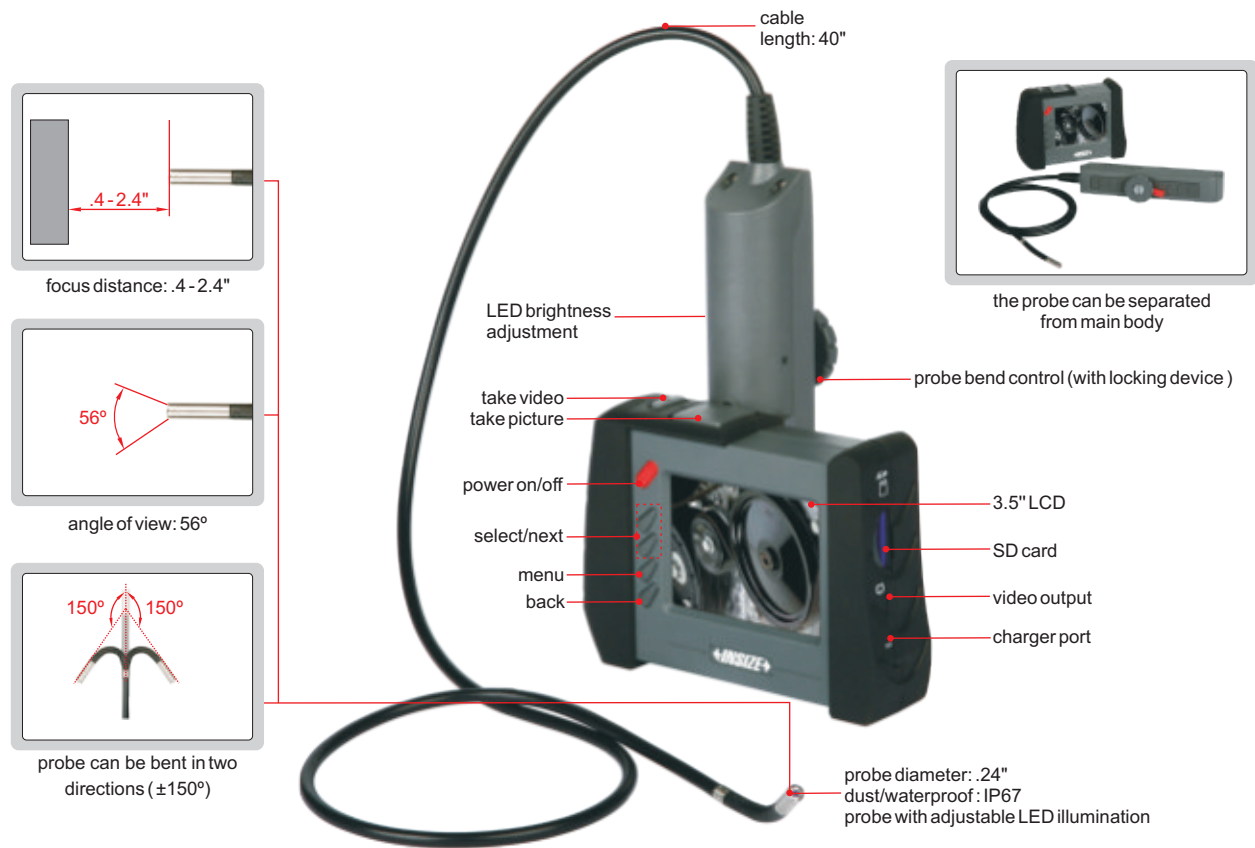
OPTIONAL ACCESSORY

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

*Power supply: AC 110V

ENDOSCOPE

NEW ITEM!



- The probe can be separated from main body (2.4G WiFi), the maximum distance is 33ft

SPECIFICATIONS

Order No.	ISV-WE60-U*
EDP No.	889454
Probe Diameter	.24"
Dust/Waterproof Probe	IP67
Pixel	0.1M
Resolution	325x250
Frame Rate	30fps
Image Process	mirror, zoom (1.5X)
File Format	picture: JPG , video: ASF
Memory	2G SD card
Power Supply of Probe	rechargeable battery (charged through main body or USB port)
Power Supply of Main Body	rechargeable battery (for 4 hours working)
Weight	1.43lb

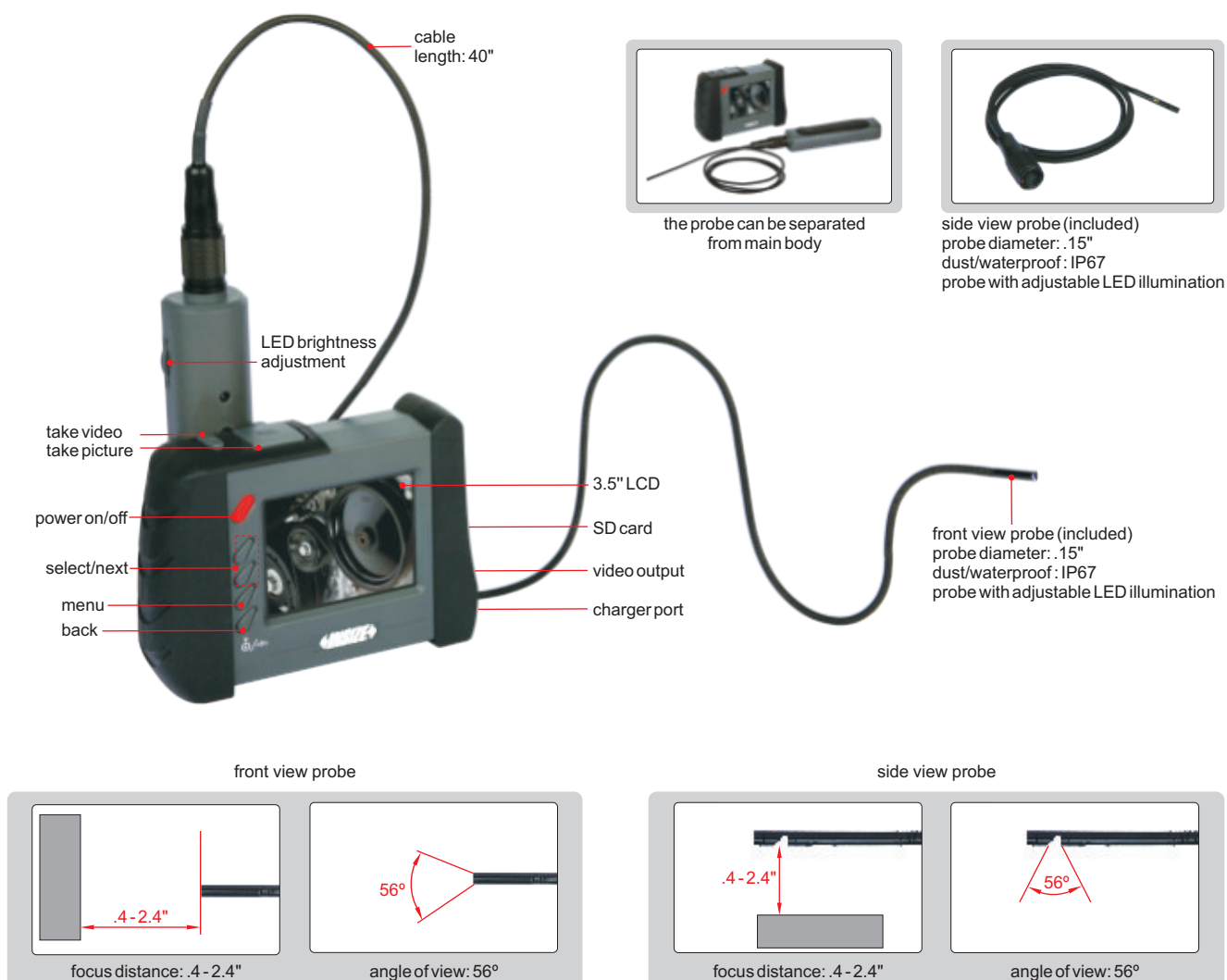
INCLUDES

Main Body	1pc
Probe	1pc
SD Card (2G)	1pc
AC/DC Adapter	1pc
Video Output Cable	1pc
USB Cable	1pc

*Power supply: AC 110V

ENDOSCOPE

NEW ITEM!



SPECIFICATIONS

Order No.	ISV-WE39-U*
EDP No.	889453
Probe Diameter	.15"
Dust/Waterproof Probe	IP67
Pixel	0.1M
Resolution	325 x 250
Frame Rate	30fps
Image Process	mirror, zoom (1.5X)
File Format	picture: JPG , video: ASF
Memory	2GSD card
Power Supply of Probe	rechargeable battery (charged through main body or USB port)
Power Supply of Main Body	rechargeable battery (for 4 hours working)
Weight	1.43lb

- Supplied with front view probe and side view probe
- The probe can be separated from main body (2.4G WiFi), the maximum distance is 33ft

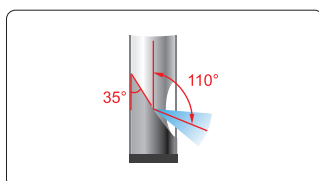
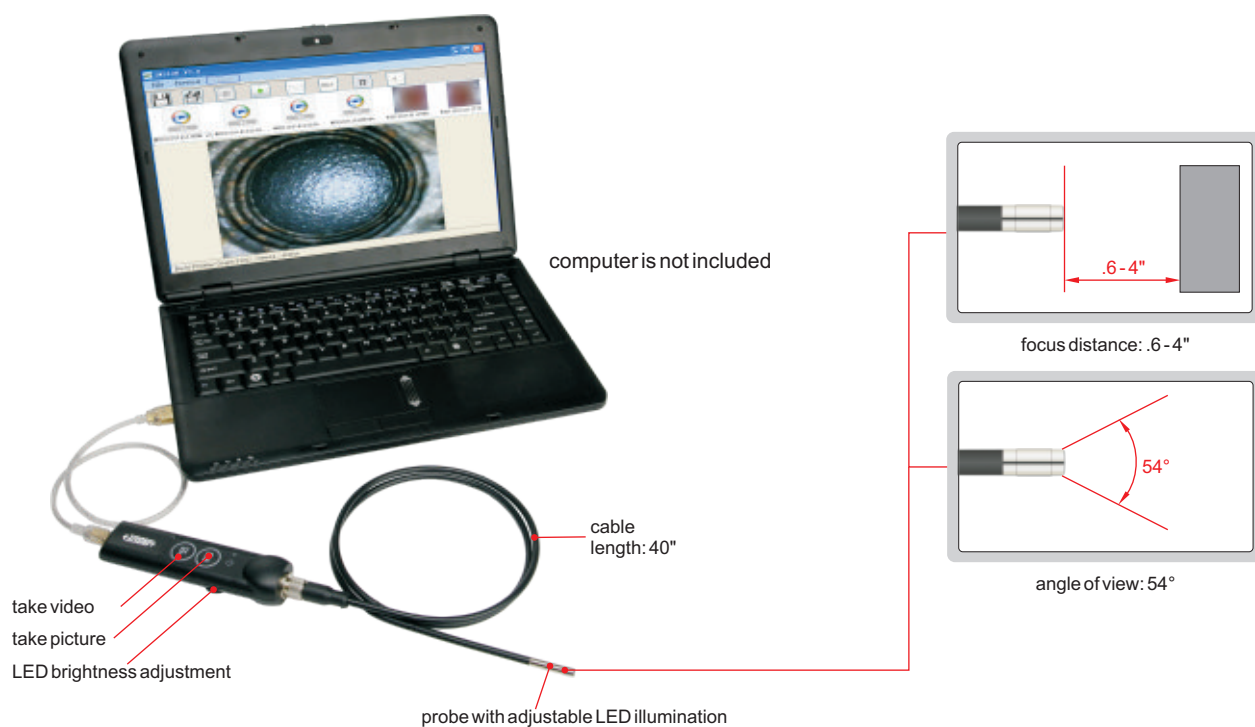
INCLUDES

Main Body	1pc
Front View Probe	1pc
Side View Probe	1pc
SD Card (2G)	1pc
AC/DC Adapter	1pc
Video Output Cable	1pc
USB Cable	1pc

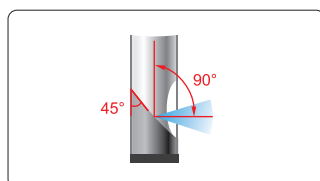
*Power supply: AC 110V

ENDOSCOPE

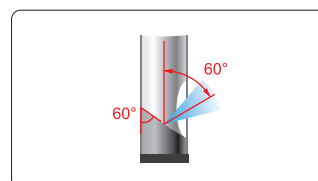
NEW ITEM!



35° mirror (optional)



45° mirror (optional)



60° mirror (optional)

SPECIFICATIONS

Order No.	ISV-E55C
EDP No.	876760
Probe Diameter	.22"
Dust/Waterproof Probe	IP57
Pixel	0.3M
Resolution	640 x 480
Frame Rate	30fps
Power Supply	USB
Weight	0.33lb

INCLUDES

Main Unit	1pc
Cable With Probe	1pc
Software CD	1pc
USB Cable	1pc

OPTIONAL ACCESSORY

35° Mirror	ISV-E55-M35
45° Mirror	ISV-E55-M45
60° Mirror	ISV-E55-M60

COATING THICKNESS GAGE



- Integrated with magnetic-induction probe (Fe) and eddy current probe (NFe), switch to the suitable probe automatically according to the material to be measured
- Magnetic-induction probe (Fe) is used to measure the thickness of any non-magnetic coating such as copper, zinc, chrome, paint, enamel, plastic on steel or iron
- Eddy current probe (NFe) is used to measure the thickness of any insulating coating such as paint, enamel, anodizing, paper, plastic, rubber, glass on non-ferrous metal like copper, zinc, aluminum
- Power off automatically (40 seconds without operation)

SPECIFICATIONS

Order No.		ISO-3500FN-P	
EDP No.		889003	
Measuring Range		0~140mils	
Accuracy		±(2%L+0.04)mils (range<40mils)	L is measuring thickness in mils
		±(3.5%L)mils (range≥40mils)	
Resolution		0.01mils (range<10mils)	
		0.1mils (range10~100mils)	
		1mils (range≥100mils)	
Repeatability		0.06mils (range<10mils)	
		0.1mils (range10~100mils)	
		1mils (range≥100mils)	
Measuring Mode		continuous and single	
Calibration Mode		zero calibration	
Minimum Substrate Thickness		magnetic-induction: 8mils, eddy current: 2mils	
Minimum Measuring Area		.4 x .4"	
Minimum Curvature Radius of Workpiece	Concave	1"	
	Convex	.02"	
Power Supply		9V battery	
Dimension		4.65x2.28x1.50"	
Weight		.33lb	

INCLUDES

Main Unit	1pc
Zero Calibration Block for Fe Probe	1pc
Zero Calibration Block for NFe Probe	1pc
9V Battery	1pc

OPTIONAL ACCESSORY

Calibration Foil	1set
------------------	------

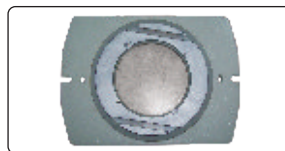
PROFILE PROJECTOR



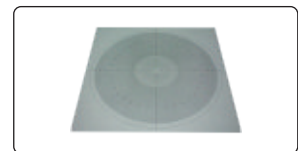
optional accessory



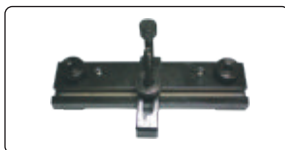
lens



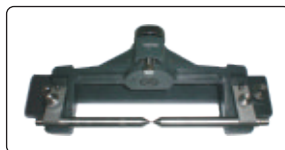
rotary table
(glass diameter 4")



overlay chart
(protractor: graduation 1°, radius: 1mm increment)



holder with clamp



swivel center support



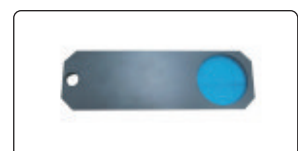
V-block with clamp



edge detector











reading scale/standard scale
(check magnification accuracy)



blue filter

SPECIFICATIONS

Order No.		ISP-Z3015			
EDP No.		889016			
Lens	Magnification	10X (standard)	20X (optional)	50X (optional)	100X (optional)
	View Field	1.2" DIA	.6" DIA	.24" DIA	.12" DIA
	Working Distance	3.06"	1.74"	1.51"	1"
Max. Workpiece Height		3.54"	3.54"	3.54"	3.54"
Magnification Accuracy		±0.08%			
Image		inverted			
Projector Screen		diameter: 12" DIA			
		rotation range: 0°~360°, resolution: 1' or 0.01°			
		reference lines: cross-hairs			
Stage	Metal Stage Size	13.39 x 6"			
	Glass Stage Size	7.72 x 3.78"			
	X-Y Stage Travel	range: 6 x 2"			
		resolution: .00002"			
		accuracy: (.00016+L/25000)", L is the measuring length in inch			
	Z (Focus) Travel Range	3.54"			
Max. Load Capacity	8.82lb				
Illumination		contour illumination: 24V/150W halogen lamp, brightness is adjustable			
		surface illumination: 24V/150W halogen lamp			
Data Processing Unit	Display	X-Y stage travel, screen rotation			
	Output	RS232C			
	Function		measure coordinate of point		measure angle with four points or two lines
			measure coordinate of line		set origin of coordinate
			measure center coordinate, radius of circle with three points		coordinate transform
			measure distance between two objects		set midpoint of coordinate
Dimension (L×W×H)		21.65 x 30.31 x 43.31"			
Weight		297lb			

INCLUDES

Main Unit	1pc
10X Lens with Half-reflection Mirror and Oblique Illuminator Mirror	1pc
Overlay Chart Clip	4pcs
Foot - switch	1pc
Anti - dust Cover	1pc

OPTIONAL ACCESSORY

20X Lens with Half-reflection Mirror and Oblique Illuminator Mirror	ISP-Z3015-LENS20X
50X Lens with Half-reflection Mirror	ISP-Z3015-LENS50X
100X Lens with Half-reflection Mirror	ISP-Z3015-LENS100X
Rotary Table	ISP-Z3015-TABLE
Overlay Chart	ISP-Z3015-CHART
Holder with Clamp	ISP-Z3015-HOLDER
Swivel Center Support	ISP-Z3015-SUPPORT
V-block with Clamp	ISP-Z3015-VBLOCK
Edge Detector	ISP-Z3015-EDGE
50mm Standard Scale	ISP-Z3015-SCALE50
200mm Reading Scale	ISP-Z3015-SCALE200
Blue Filter	ISP-Z3015-FILTER
Printer	ISP-Z3015-PRINTER

ULTRASONIC THICKNESS GAGE

NEW ITEM!



- Measure the thickness from one side of object, suitable for pipe, tank, etc.
- Applicable material: metal, plastic, glass, nylon, resin, ceramic, rubber, ice
- Low and high limits with judgement
- Average calculation of maximum 9 readings
- Memory of maximum 5000 readings with location number



couplant



transducer ISU-T06 (optional)



transducer ISU-T12 (optional)



transducer ISU-T13 (optional)

SPECIFICATIONS

Order No.	ISU-250C
EDP No.	889012
Resolution	.001" (range<10") .01" (range≥10")
Repeatability	.001" (range<4") .004" (range 4 - 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
Velocity	.039 - .394"/μs
Power Supply	2 x 1.5V AAA batteries
Dimension	2.52 x 4.57 x 1.06"
Weight	0.49lb



INCLUDES

Main Unit	1pc
Transducer ISU-T08	1pc
Battery (AAA)	2pcs
Couplant (for ISU-T06, ISU-T08, ISU-T12)	1bottle
USB Cable and Software	1pc of each

OPTIONAL ACCESSORY

Transducer	ISU-T06, ISU-T12, ISU-T13
Couplant (for ISU-T13)	ISU-HT5-COUPPLANT

SPECIFICATION OF TRANSDUCERS

Order No.	Frequency	Diameter (d)	Measuring Range	Minimum Size of Pipe for Measurement (Diameter x Wall Thickness)	Applicable Temperature	Application
ISU-T08	5.0MHz	.43" DIA	.03 - 11.81"	.79 x .05"	<140F	general use
ISU-T06	7.5MHz	.33" DIA	.03 - 1.97"	.59 x .05"	<140F	for thin material
ISU-T12	2.0MHz	.64" DIA	.12 - 13.78"	1.18 x .16"	<140F	for casting steel
ISU-T13	5.0MHz	.51" DIA	.12 - 3.94"	.98 x .12"	<662F	for high temperature

MANUAL ROCKWELL HARDNESS TESTER

NEW ITEM!



2.36" DIA flat anvil



5.91" DIA flat anvil



V-type anvil

SPECIFICATIONS

Order No.	ISH-R150
EDP No.	889193
Hardness Scale	HRA, HRB, HRC, HRD, HRF, HRG
Preliminary Test Force	98N
Test Force	588N, 980N, 1471N
Display	analogue
Stage Elevation	manual
Load Control	manual
Min. Reading	0.5HR
Max. Workpiece Height	6.69"
Max. Workpiece Depth	6.5" (from the center of indenter)
Dimension	20.47 x 6.30 x 27.56"
Weight	132lb

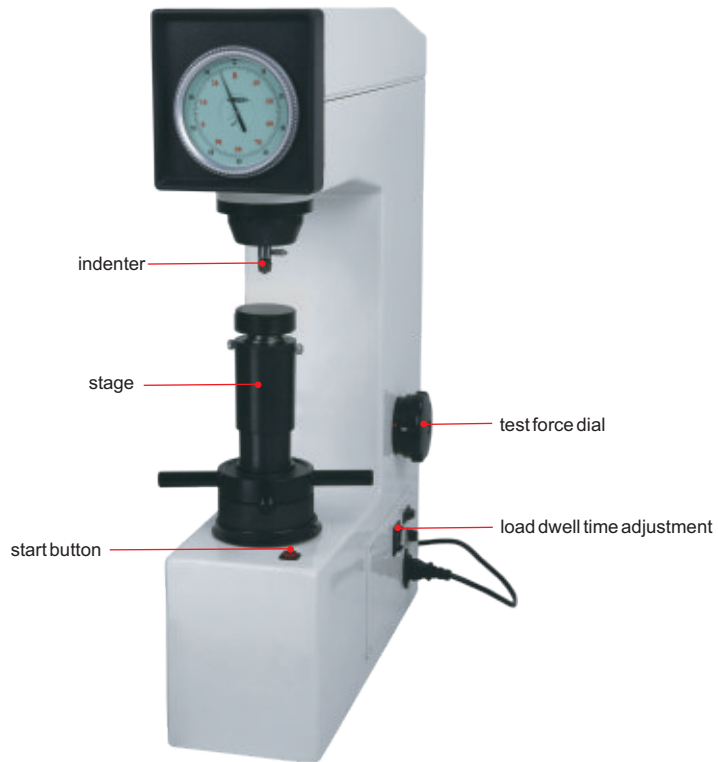
INCLUDES

Main Unit	1pc
2.36" DIA Flat Anvil	1pc
5.91" DIA Flat Anvil	1pc
V-type Anvil	1pc
Diamond Indenter	1pc

1/16" DIA Carbide Ball Indenter	1pc
Hardness Test Block HRB85-95	1pc
Hardness Test Block HRC60-70	1pc
Hardness Test Block HRC20-30	1pc

AUTOMATIC ROCKWELL HARDNESS TESTER

NEW ITEM!



2.36" DIA flat anvil



5.91" DIA flat anvil



V-type anvil

SPECIFICATIONS

Order No.	ISH-MR150-U*
EDP No.	889194
Hardness Scale	HRA, HRB, HRC, HRD, HRF, HRG
Preliminary Test Force	98N
Test Force	588N, 980N, 1471N
Display	analogue
Stage Elevation	manual
Load Control	automatic (load/dwell/unload)
Load Dwell Time	1-99 second
Min. Reading	0.5HR
Max. Workpiece Height	6.69"
Max. Workpiece Depth	6.5" (from the center of indenter)
Dimension	20.47 x 6.30 x 27.56"
Weight	132lb

INCLUDES

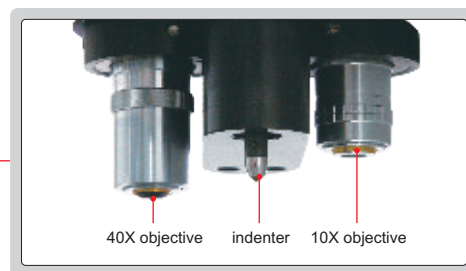
Main Unit	1pc
2.36" DIA Flat Anvil	1pc
5.91" DIA Flat Anvil	1pc
V-type Anvil	1pc
Diamond Indenter	1pc

1/16" DIA Carbide Ball Indenter	1pc
Hardness Test Block HRB85-95	1pc
Hardness Test Block HRC60-70	1pc
Hardness Test Block HRC20-30	1pc

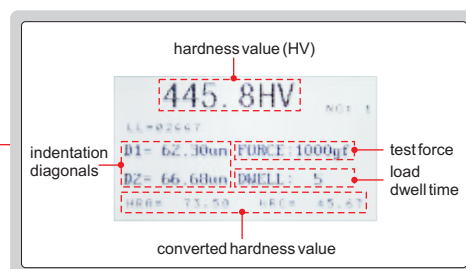
*Power supply: AC 110V

DIGITAL MICRO-VICKERS HARDNESS TESTER

NEW ITEM!



motor driven turret



- Measure hardness of thin or small workpieces
- Based on Vickers (HV), can be converted to Rockwell (HRA, HRB and HRC)

SPECIFICATIONS

Order No.	ISH-TDV1000A-U*
EDP No.	889199
Test Force	0.01, 0.025, 0.05, 0.1, 0.2, 0.3, 0.5, 1kgf
Vickers Scales	HV0.01, HV0.025, HV0.05, HV0.1, HV0.2, HV0.3, HV0.5, HV1
Stage Elevation	manual
Load Control	automatic (load/dwell/unload)
Load Dwell Time	5-60second (5 second increment)
Objective	10X, 40X
Eyepiece	15X
Total Magnification	150X (for observation) 600X (for measurement)
Max. Workpiece Height	3.35"
Max. Workpiece Depth	3.35" (from the center of indenter)
X-Y Stage	dimensions: 4 x 4"
	travel range: 1 x 1"
	graduation: 0.01mm
Data Output	RS232C
Dimension	21.26 x 19.69 x 25.20"
Weight	110lb

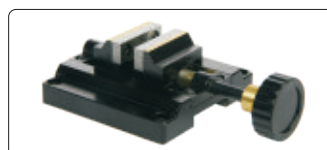
*Power supply: AC 110V



slice holder



cylinder holder



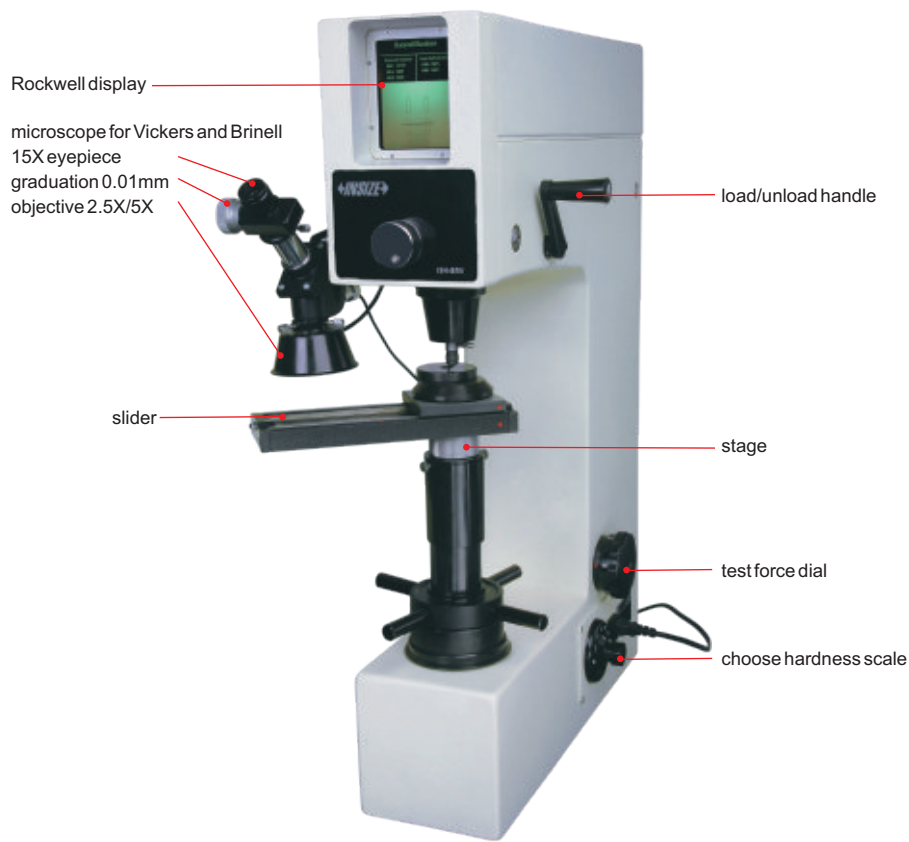
vice

INCLUDES

Main Unit	1pc
10X, 40X Objective	1pc of each
Micro Vickers Indenter	1pc
Micro Vickers Test Block (700HV1, 400HV0.2)	1pc of each
Slice Holder	1pc
Vice	1pc
Cylinder Holder	1pc
Level	1pc

BRINELL/ROCKWELL/VICKERS HARDNESS TESTER

NEW ITEM!



2.36" DIA flat anvil for Rockwell



5.91" DIA flat anvil for Rockwell



V-type anvil for Rockwell



2.36" DIA flat anvil for Vickers and Brinell



V-type anvil for Vickers and Brinell

SPECIFICATIONS

Order No.	ISH-BRV-U*
EDP No.	889206
Rockwell Test Load	98N preload, 588, 980, 1471N total load
Min. Rockwell Reading	0.5HR
Brinell Test Load	306, 613, 1839N
Vickers Test Load	294N
Stage Elevation	manual
Load Control	manual
Magnification of Microscope	37.5X/75X (selectable)
Max. Workpiece Height	7.09"
Max. Workpiece Depth	7.87" (from the center of indenter)
Dimension	21.50 x 11.81 x 30.20"
Weight	198lb

INCLUDES

Main Unit	1pc
1/16" DIA Carbide Ball Indenter	1pc
Diamond Rockwell Indenter	1pc
Ø5mm Brinell Indenter	1pc
Ø2.5mm Brinell Indenter	1pc
Vickers Indenter	1pc
2.36" DIA Flat Anvil for Rockwell	1pc
5.91" DIA Flat Anvil for Rockwell	1pc

V-anvil for Rockwell	1pc
Flat Anvil for Vickers and Brinell	1pc
V-anvil for Vickers and Brinell	1pc
Rockwell Test Block HRC (High, Low)	1pc of each
Rockwell Test Block HRB	1pc
Brinell Test Block	1pc
Vickers Test Block	1pc
Anti-dust Cover	1pc

*Power supply: AC 110V

PORTABLE HARDNESS TESTER

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



SPECIFICATIONS

Order No.	ISH-PHA-U*	
EDP No.	889207	
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: .2"	
	minimum radius of curved surface: .43"	
	maximum roughness (Ra): 64µin	
Power Supply	3 × AAA batteries	
Dimension	5.91 x 3.15 x .94"	
Weight	0.44lb	



INCLUDES

Main Unit	1pc
Impact Device D	1pc
Printer	1pc
Hardness Test Block	1pc
Small Support Ring	1pc
Cleaning Brush	1pc
AC/DC Adapter	1pc

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				

*Power supply: AC 110V

PORTABLE HARDNESS TESTER

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



SPECIFICATIONS

Order No.	ISH-SPHA-U*	
EDP No.	889208	
Min. Reading	1HL, 1HV, 1HB, 0.1HRC, 0.1HRB, 1HS, 1MPa	
Accuracy	±6HL (when HL=800)	
Display	Leeb (HL), converted hardness, material, impact direction, test times, average value, deviation, time	
Output	bluetooth and USB	
Applicable Workpiece	minimum weight	11.02lb
		4.41lb (on solid support)
		0.22lb (coupled on plate)
	minimum thickness: .2"	
	minimum radius of curved surface: .43"	
	maximum roughness (Ra): 64µin	
Power Supply	built-in rechargeable battery	
Dimension	5.31 x 3.27 x .94"	
Weight	0.77lb	



INCLUDES

Main Unit	1pc
Impact Device D	1pc
Printer	1pc
Hardness Test Block	1pc
Small Support Ring	1pc
Cleaning Brush	1pc
AC/DC Adapter	1pc
USB Cable and Software	1pc of each
Pen for Touch Screen	1pc

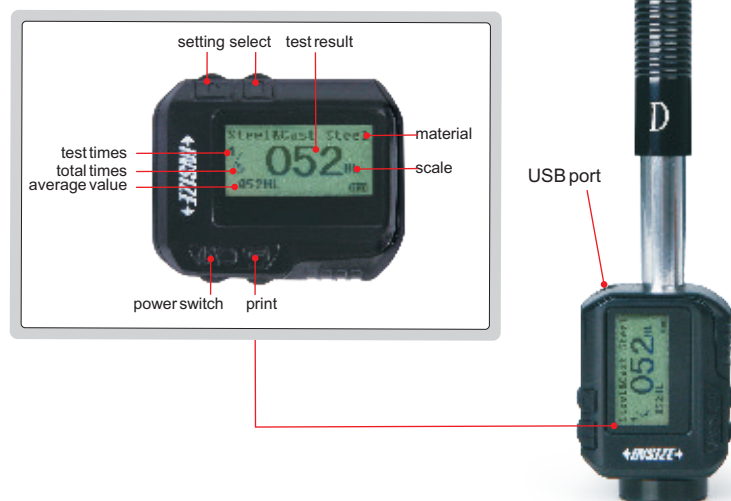
APPLICABLE MATERIAL AND HARDNESS RANGE FOR IMPACT DEVICE D

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				

*Power supply: AC 110V

PORTABLE HARDNESS TESTER

NEW ITEM!



- Impact device D
- Based on Leeb (HLD), converted to Vickers (HV), Brinell (HB), Rockwell (HRC and HRB), Shore (HS) and tensile strength (MPa)
- Automatic direction correction
- Connected with printer via bluetooth
- Connected with computer via USB port
- Up to 500 test results can be saved
- According to ASTM A956

SPECIFICATIONS

Order No.	ISH-SPHD-U*	
EDP No.	889304	
Min. Reading	1HLD, 1HV, 1HB, 0.1HRC, 0.1HRB, 1HS	
Accuracy	±6HLD (when HLD=800)	
Output	USB and bluetooth	
Applicable Workpiece	minimum weight	11.02lb
		4.41lb (on solid support)
		0.22lb (coupled on plate)
	minimum thickness: .2"	
	minimum radius of curved surface: .43"	
	maximum roughness (Ra): 64µin	
Power Supply	built-in rechargeable battery	
Dimension	5.79 x 1.38 x .87"	
Weight	0.14lb	



INCLUDES

Main Unit	1pc
Printer	1pc
Hardness Test Block	1pc
Small Support Ring	1pc
Cleaning Brush	1pc
AC/DC Adapter	1pc
USB Cable and Software	1pc of each

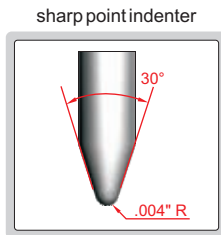
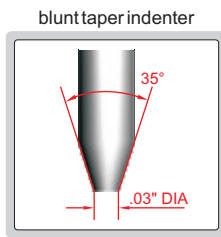
APPLICABLE MATERIAL AND HARDNESS RANGE

Material	HLD	HV	HB	HRC	HRB	HS
Steel & cast steel	300-900	81-955	81-654	20-68	38-100	32-100
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			

*Power supply: AC 110V

SHORE DUROMETER

NEW ITEM!



- According to ISO868, ISO7619, ASTM D 2240
- Optional accessory: testing stand

SPECIFICATIONS

Order No.	ISH-SA	ISH-SD
EDP No.	889222	889223
Scale	Shore A	Shore D
Application	natural rubber, soft elastomer, etc.	hard elastomer, plastic, hard rubber, etc.
Measuring Range	HA: 10-90	HD: 20-90
Resolution	1HA	1HD
Indenter Protrusion	.1"	.1"
Dimension	4.53 x 2.36 x .98"	
Net Weight	1.1lb	

TESTING STAND FOR SHORE DUROMETER

- Can perform repeatable hardness measurement due to fewer possibilities of human error or measurement variations

SPECIFICATIONS

Order No.	ISH-STAC
EDP No.	889225
Applicable Durometer	ISH-SA
Stage Diameter	3.94" DIA
Maximum Workpiece Height	2.95"
Mass of Weight	2.2lb

Durometer is not included



FORCE GAGE

NEW ITEM!

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



flat push tip



V type push tip



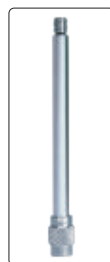
knife-edge push tip



point push tip



pull clamp



extension rod

SPECIFICATIONS

Order No.		ISF-FL2	ISF-FL5	ISF-FL10	ISF-FL20	ISF-FL30	ISF-FL50	ISF-FL100
EDP No.		889238	889239	889240	889241	889242	889243	889244
Capacity	lbf	2	5	10	20	30	50	100
	N	9	22	44	88	100	220	440
Graduation	lbf	0.01	0.02	0.05	0.1	0.2	0.2	0.5
	N	0.05	0.1	0.2	0.5	0.5	1	2
Accuracy		±1% full scale						



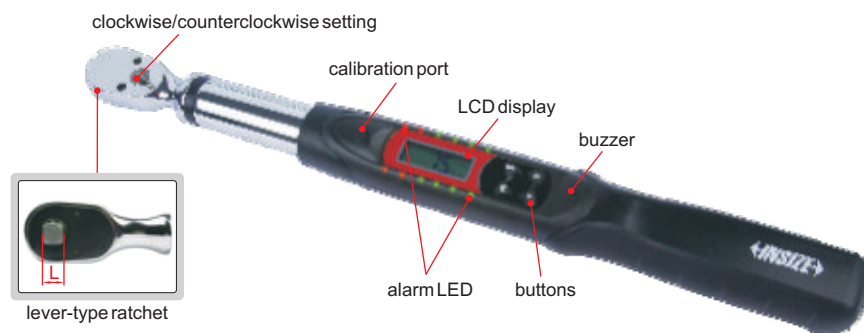
ISF-FL2

INCLUDES

Main Unit	1pc
Push Tip	4pcs (flat, V type, knife-edge, point)
Pull Clamp	1pc
Extension Rod	1pc

DIGITAL TORQUE WRENCH

NEW ITEM!



IST-W135A

SPECIFICATIONS

Order No.		IST-W30A	IST-W135A	IST-W200A
EDP No.		889315	889316	889317
Range		4.42ft.lb - 22.12ft.lb	19.9ft.lb - 99.5ft.lb	29.5ft.lb - 147.5ft.lb
Accuracy	Clockwise	±2%	±2%	±2%
	Counterclockwise	±3%	±3%	±3%
Resolution		0.01ft.lb	0.1ft.lb	0.1ft.lb
Lever-type Ratchet (L)		1/4"	3/8"	1/2"
Ratchet Tooth Number		36		
Power Supply		2xAA batteries, for 110 hours working		
Length		15.35"	16.34"	20.87"
Weight		1.83lb	2.09lb	3.09lb

- Clockwise and counterclockwise operation
- Unit: N.m, in.lb, ft.lb, kg.cm
- Peak and track working mode
- Target torque value can be set, with audible and visible alarm: 8 green LED light on and buzzer sounds when target torque value is approached 4 red LED light on and buzzer sounds when target torque value is reached
- Power off automatically in 5 minutes without any operations
- Non-slip grip handle
- With overload record (once the torque reaches 110% of the maximum range)

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