

MEASURING INSTRUMENTS

CATALOGUE NO. CAN2019



QUALITY | INNOVATION | SERVICE | VALUE





The products with this mark are supplied with manufacturer inspection certificate. Some of them are traceable to NIST.



Sample for Electronic Caliper 817000 (Part No. 1108-150)

Inspection Certificate										
Product name		Digital Caliper		Traceable to	USA NIST No.					
Code No.		1108-150			Germany DKD No.D-K-15190-01-00					
Measuring rang	ge .	0-150mm / 0-6°		Inspector	Dariel					
Resolution		0.01mm / 0.000	15"		_					
Serial No.		0910120004		Judgement	t Passed					
Standard temp	erature	20°C / 68°F								
			Unit: inch				Unit: mm			
Measuring	Permissible	Er	ror	Measuring	Permissible	Error				
Length	Error	External	Internal	Length	Error	External	Internal			
0.4 DIA	+0.0005	1	0.0005	Ф10	+0.01	1	0.01			
2	+0.0010	-0.0005	/	50	+0.02	-0.01	1			
4	20.0010	-0.0005	/	100	20.02	-0.01	1			
6		-0.0010	/	150		-0.02	1			
8	+0.0015	1	1	200	+0.03	1	1			
10	±0.0015	1	/	250	±0.03	1	- /			
12	1	1	/	300	1	1	/			

Sample for Outside Micrometer 816564 (Part No. 3203-1A)

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

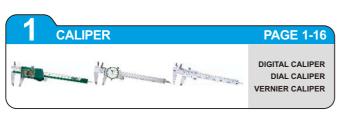
INSIZE provides one year manufacturer warranty for all products.

We reserve the right to change or modify the design and specification of products in this catalogue without prior notice.

Copyright © INSIZE CO., LTD. All Rights Reserved. INSIZE is the registered trademark of INSIZE CO., LTD.



PRODUCT INDEX



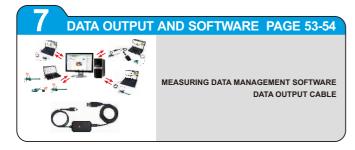








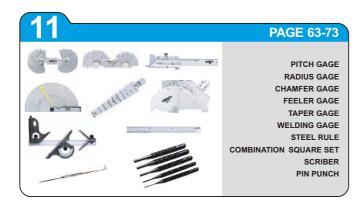


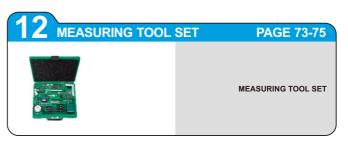












PRODUCT INDEX











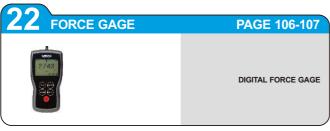














ELECTRONIC COOLANT PROOF CALIPERS



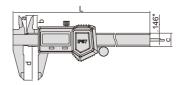




- IP67 dust/coolant proof
- Resolution .0005"/0.01mm
- Button function: zero, on/off, inch/mm, ABS/REL, hold
- Battery CR2032
- Made of stainless steel

1118-150B

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



ELECTRONIC CALIPERS



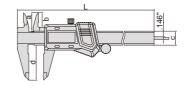
- Zinc alloy housing for electronic unitResolution .0005"/0.01mm
- Buttons: zero, on/off, inch/mm
- Automatic power off, move the digital unit to turn on power
- Battery CR2032
- Made of stainless steel





1114-150A

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



ELECTRONIC CALIPERS (FRACTION READING)





fraction reading

1102-150

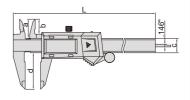
■ Resolution: 0.01mm, .0005", 1/128" ■ Buttons: unit (mm/in/fraction), ABS, on/off, zero

Absolute and incremental measurement

■ Battery CR2032, automatic power off

■ Made of stainless steel

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



ELECTRONIC CALIPERS (STANDARD MODEL)



S"SPC

- Resolution .0005"/0.01mm
- Buttons: on/off, zero, inch/mm
- Automatic power off, move the digital unit to turn on power
- Battery CR2032
- Data output
- Made of stainless steel
- Optional accessory: data output cable (part no. 7306-20, 7302-SPC5A/SPC5B, 7305-SPC2A, 7305-A01/A02)



1108-150

L	
	.146

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

HEAVY DUTY 12" ELECTRONIC CALIPERS





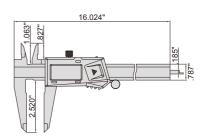
- Resolution .0005"/0.01mm
- Buttons: on/off, zero, inch/mm
- Automatic power off, move the digital unit to turn on power

 Battery CR2032
- Data output
- Made of stainless steel
- Optional accessory: data output cable (part no. 7306-20, 7302-SPC5A/SPC5B, 7305-SPC2A, 7305-A01/A02)

Part No.	EDP No.	Range	Accuracy
1196-300	877124	0-12"/0-300mm	±.0012"







ELECTRONIC CALIPER WITH ROUND DEPTH BAR



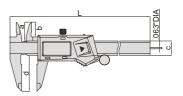
S"SPC

- Resolution .0005"/0.01mm
- Buttons: on/off, zero, inch/mm
- Automatic power off, move the digital unit to turn on power
- Battery CR2032
- Data output
- Made of stainless steel
- Optional accessory: data output cable (part no. 7306-20, 7302-SPC5A/SPC5B, 7305-SPC2A, 7305-A01/A02)



1119-150





Part No.	EDP No.	Range	Accuracy	L	а	b	С	d
1119-150	877109	0-6"/0-150mm	±.0012"	9.291"	.827"	.630"	.630"	1.575"

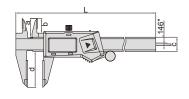
ELECTRONIC CALIPERS WITH CARBIDE TIPPED JAWS

- Carbide tipped jaws for inside and outside measurements
- Resolution .0005"/0.01mm
- Buttons: on/off, zero, inch/mm
- Automatic power off, move the digital unit to turn on power
- Battery CR2032
- Data output
- Made of stainless steel
- Optional accessory: data output cable (part no. 7306-20, 7302-SPC5A/SPC5B, 7305-SPC2A, 7305-A01/A02)









Part No.	EDP No.	Range	Accuracy	L	а	b	С	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"	.630"	2.362"

ELECTRONIC LEFT HAND CALIPERS



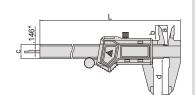
S"SPC

SPC

- Designed for left handed users
- Resolution .0005"/0.01mm
- Buttons: on/off, zero, inch/mm
- Automatic power off, move the digital unit to turn on power
- Battery CR2032, data output
 Made of stainless steel
- Optional accessory: data output cable (part no. 7306-20, 7302-SPC5A/SPC5B, 7305-SPC2A, 7305-A01/A02)



1130-150



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

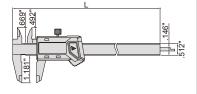
MINI ELECTRONIC CALIPERS

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



1111-100A

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

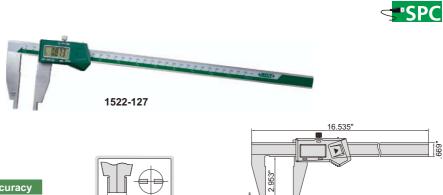


ELECTRONIC CALIPER

- Resolution .0005"/0.01mm
- Buttons: on/off, zero, inch/mm
- Automatic power off, move the digital unit to turn on power

 Battery CR2032
- Data output
- Made of stainless steel
- Optional accessory: data output cable (part no. 7306-20, 7302-SPC5A/SPC5B, 7305-SPC2A, 7305-A01/A02)

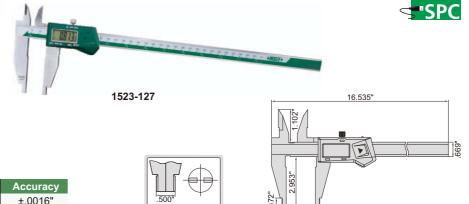
Part No.	EDP No.	Range	Accuracy
1522-127	816686	0-12"/0-300mm	±.0016"



ELECTRONIC CALIPER

- Resolution .0005"/0.01mm
- Buttons: on/off, zero, inch/mm
- Automatic power off, move the digital unit to turn on power
- Battery CR2032
- Data output
- Made of stainless steel
- Optional accessory: data output cable (part no. 7306-20, 7302-SPC5A/SPC5B, 7305-SPC2A, 7305-A01/A02)

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



ELECTRONIC PLASTIC CALIPER

- Made of hard plastic, non-magnetic and non electric conductive
- Prevent workpieces from scratching by calipers
- Resolution .0005"/0.01mm
- Buttons: on/off, zero, inch/mm
- Battery CR2032, automatic power off

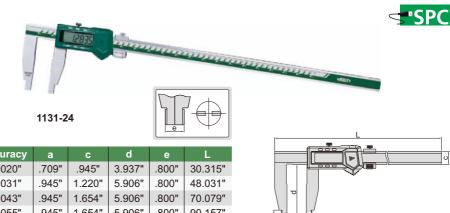


9.252"	
1575"	.630"

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

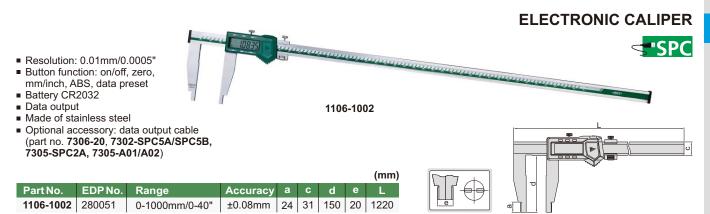
ELECTRONIC CALIPERS

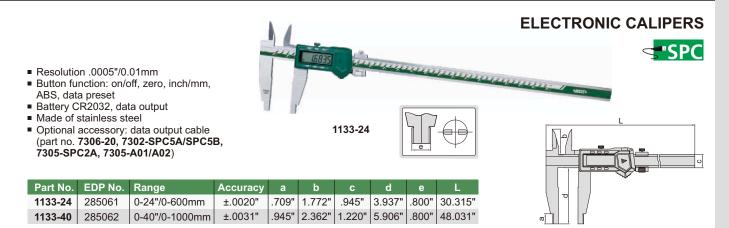
- Resolution .0005"/0.01mm
- Button function: on/off, zero, inch/mm, ABS, data preset
- Battery CR2032, data output
- Made of stainless steel
- Optional accessory: data output cable (part no. 7306-20, 7302-SPC5A/SPC5B, 7305-SPC2A, 7305-A01/A02)

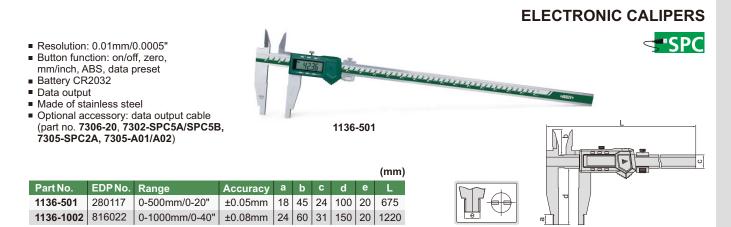


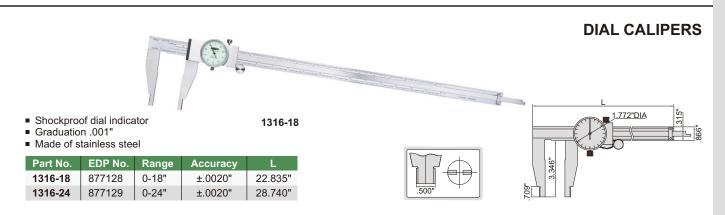
Part No.	EDP No.	Range	Accuracy	а	С	d	е	L
1131-24	876221	0-24"/0-600mm	±.0020"	.709"	.945"	3.937"	.800"	30.315"
1131-40	876222	0-40"/0-1000mm	±.0031"	.945"	1.220"	5.906"	.800"	48.031"
1131-60	816618	0-60"/0-1500mm	±.0043"	.945"	1.654"	5.906"	.800"	70.079"
1131-80	280063	0-80"/0-2000mm	±.0055"	.945"	1.654"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

+INSIZE-







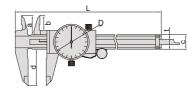


DIAL CALIPERS



- Shockproof dial indicator
- Made of stainless steel





Dial indicator graduation .001"

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

Dial indicator graduation 0.01mm

Part No.	EDP No.	Range	Accuracy	L	а	b	С	d	D	t
1311-150A	816034	0-150mm	±0.03mm	235mm	21mm	16.5mm	16mm	40mm	Ø39mm	6.5mm
1311-200A	816036	0-200mm	±0.03mm	288mm	24mm	19mm	16mm	48mm	Ø39mm	6.5mm
1311-300A	816038	0-300mm	±0.03mm	410mm	28mm	22mm	20mm	62mm	Ø44.5mm	7.5mm

VERNIER CALIPERS

- Made of stainless steel
- Satin chrome plated reading surface



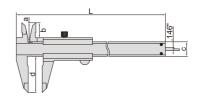
1205-1502E

Graduation .001"/0.02mm

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

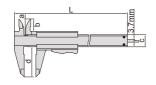
Graduation 0.05mm/1/128"

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



VERNIER CALIPER WITH THUMB CLAMP

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





1223-150

Graduation 0.05mm/1/128"

Graduation	0.0311111/1/12	o .						(,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
Part No.	EDP No.	Range	Accuracy	L	а	b	С	d
1223-150	280184	0-150mm/0-6"	±0.05mm	230	20.5	16.5	16	40

+INSIZE

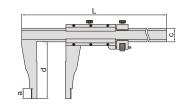
VERNIER CALIPERS



1211-24

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



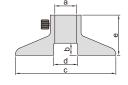


Part No.	EDP No.	Range	Graduation	Accuracy	Graduation on scale	а	С	d	е	L
1211-24	280408	0-24"/0-600mm	.001"/0.02mm	±.002"	inch on bottom, metric on top	.709"	.945"	3.937"	.800"	30.315"
1211-40	280409	0-40"/0-1000mm	.001"/0.02mm	±.0031"	inch on bottom, metric on top	.945"	1.26"	5.512"	.800"	47.874"

DEPTH BASE ATTACHMENT

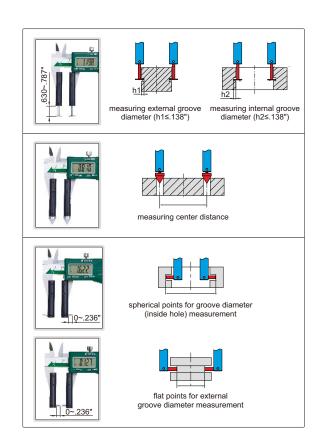
- To increase the stability of depth measurement
- Suitable for electronic calipers and dial calipers
- Made of stainless steel



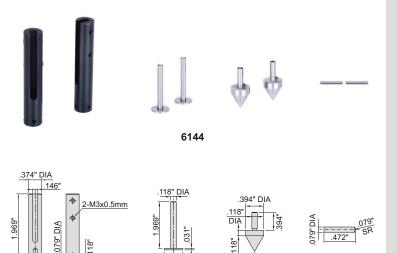




Part No.	EDP No.	а	b	С	d	е	Application
6140	816046	.650"	.354"	2.953"	.709"	1.181"	Suitable for calipers with beam width (w) .630"



ACCESSORY SET FOR ELECTRONIC CALIPERS PART NO. 6144



.394" DIA

disk points (stainless steel) conical points (stainless steel)

■ Suitable for 0-6"/0-150mm and 0-8"/0-200mm electronic calipers (thickness of lower jaws≤.146")

<u>M3.0x0.5mm</u>

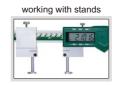
.118" DIA

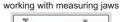
Part No.	EDP No.
6144	877188

spherical/flat points (stainless steel)

UNIVERSAL CALIPER PART NO. 1125-600





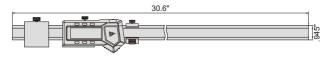






1125-600

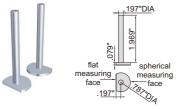
- Buttons: on/off, set, inch/mm, ABS, preset (+, -)
- Automatic power off, move the digital unit to turn on power
- Battery CR2032, data output
- Made of stainless steel
- Optional accessory: data output cable (part no. 7306-20, 7302-SPC5A/SPC5B, 7305-SPC2A, 7305-A01/A02)

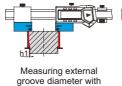


Part No.	EDP No.	Range*	Resolution	Accuracy
1125-600	877100	0-24"/0-600mm	.0005"/0.01mm	±.002"

The range changes according to different points

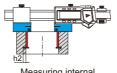
Half disk points (included)





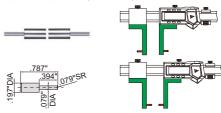
flat measuring face

(depth h1≤.098")



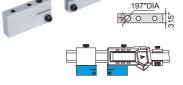
Measuring internal groove diameter with spherical measuring face (depth h2≤.295")

Spherical points (included)

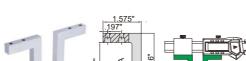


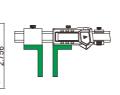
Stands (included)



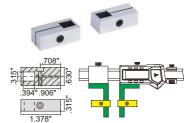




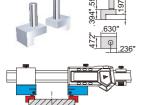




Depth stop (included)



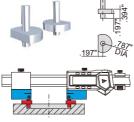
Flat shoulder points (optional)





Part No.	EDP No.
1125-T103	877112

Round shoulder points (optional)



Measuring	inside	diamete
-----------	--------	---------

Part No.	EDP No.
1125-T102	877111

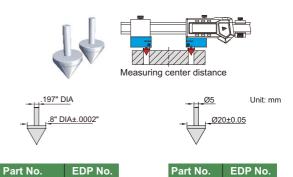
Point sleeve (optional)

Part No.	EDP No.
1125-T104	877113



Conical points (optional)

1125-T101-1 877110



	•	— •

Working with multifunctional points, ball points and screw thread points

Multifunctional points 7392 (optional, next page)



Ball points 7391 (optional, next page)



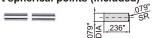
Screw thread points 7381, 7321 (optional, next page)





1125-T101 877101

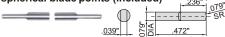
short spherical points (included)



long spherical/flat points (included)



spherical blade points (included)



- Supplied with 3 pairs of points and zero setting block for external measurement
- Resolution .0005"/0.01mm
- Accuracy ±.0012"
- Buttons: on/off, set, inch/mm, preset (+, -)
- Automatic power off, move the digital unit to turn on power
- Battery CR2032, data output
- Made of stainless steel

short spherical points

spherical blade points

long spherical/

flat points

Point

Optional accessory: points (part no. **1526-T101**, **7392**, **7391**, **7381**, **7321**), depth stop (part no. **6143**), data output cable (part no. 7306-20, 7302-SPC5A/SPC5B, 7305-SPC2A, 7305-A01/A02)

Range

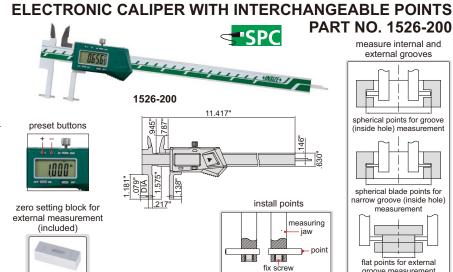
.5-8.5"/12-212mm (internal)

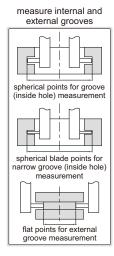
1-8.8"/24-224mm (internal)

0-7.5"/0-187mm (external)

1-8.8"/24-224mm (internal)

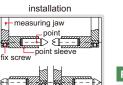
0-7.5"/0-187mm (external)





Part No.	EDP No.	
1526-200	816620	

Point sleeve (optional)

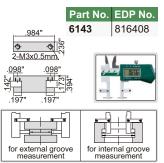




Depth stop (optional)







Multifunctional points (optional)

Application

for grooves inside small hole

for narrow grooves inside hole

spherical points for grooves inside

hole flat points for external grooves



816622

816623

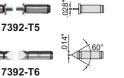
Part No. EDP No.

7392-T3* 816624

7392-T1*

7392-T2*







7392-T9



Part No.	EDP No.	Туре	Part No.		
	816625	disk	7392-T7*	816628	point
7392-T5 *		blade	7392-T8*	816629	knife-edge
7392-T6 *	816627	knife-edge	7392-T9*	816630	point

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

7

7

Ball points (optional)



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

Screw thread points (optional)



Internal thread (60° thread angle)

Part No.	EDP No.	Pitch
7321-T11 *	282160	64-48TPI/0.4-0.5mm
7321-T12 *	282161	44-28TPI/0.6-0.9mm
7321-T13 *	282162	24-14TPI/1-1.75mm
7321-T14 *	282163	13-9TPI/2-3mm
7321-T15 *	282164	8-5TPI/3.5-5mm
7321-T16 *	282165	4.5-3.5TPI/5.5-7mm
7321-T1S *	282159	6 pairs/set, including all above points

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

Type

spline

spherical

flat

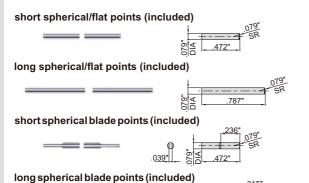


External thread (60° thread angle)

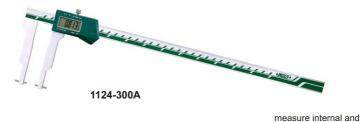
Part No.	EDP No.	Pitch	
7381-T11*	281671	64-48TPI/0.4-0.5mm	
7381-T12*	281672	44-28TPI/0.6-0.9mm	
7381-T13*	281673	24-14TPI/1-1.75mm	
7381-T14*	281674	13-9TPI/2-3mm	
7381-T15*	281675	8-5TPI/3.5-5mm	
7381-T16*	281676	4.5-3.5TPI/5.5-7mm	
7381-TS *	281670	6 pairs/set, including all above points	

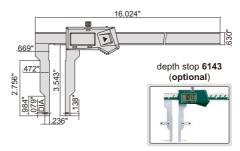
ELECTRONIC CALIPER WITH INTERCHANGEABLE POINTS PART NO. 1124-300A



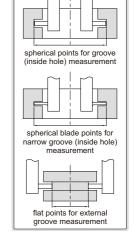


- Supplied with 4 pairs of points and zero setting block for external measurement
- Resolution .0005"/0.01mm
- Buttons: on/off, set, inch/mm, preset (+, -)
- Automatic power off, move the digital unit to turn on power
- Battery CR2032
- Data output
- Made of stainless steel
- Optional accessory: points (part no. 1526-T101, 7392, 7391, 7381, 7321), depth stop (part no. 6143), data output cable (part no. 7306-20, 7302-SPC5A/SPC5B, 7305-SPC2A, 7305-A01/A02)





preset buttons Part No. EDP No. **1124-300A** | 816619



external grooves

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

(included)



zero setting block for external measurement

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



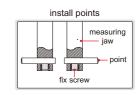


Ball points 7391 (optional, refer to 1526-200 for more details)



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





ELECTRONIC INSIDE GROOVE CALIPER

- Measure groove diameterResolution .0005"/0.01mm
- Buttons: on/off, set, inch/mm, preset (+, -)
- Automatic power off, move the digital unit to turn on power
- Battery CR2032, data output
- Made of stainless steel
- Optional accessory: depth stop (part no. 6143), data output cable (part no. 7306-20, 7302-SPC5A/SPC5B, 7305-SPC2A, 7305-A01/A02)

1120-150AE



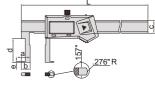
	Р
9"	(



depth stop 6143



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





ELECTRONIC INSIDE GROOVE CALIPER

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

7302-SPC5A/SPC5B, 7305-SPC2A, 7305-A01/A02)

EDP No. Range



.9-6"/24-150mm | ±.0016" | 9.843" |.197" |.4724" |.630" |1.181" |.079" DIA

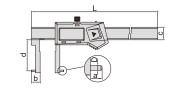




depth stop 6143



(use upper jaws)



10.236"

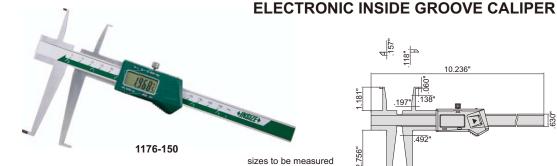
S"SPC

1121-150A

Part No.

depth stop 6143 (optional)





Accuracy

■ Measure diameter of grooves inside bores

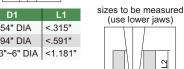
Resolution .0005"/0.01mm

■ Buttons: on/off, set, inch/mm, preset (+, -)

- Automatic power off, move the digital unit to turn on power
- Battery CR2032
- Data output
- Made of stainless steel
- Optional accessory: depth stop (part no. 6143), data output cable (part no. 7306-20,

7302-SPC5A/SPC5B, 7305-SPC2A, 7305-A01/A

	preset buttons	D1	Ī
	† - W	D1	L1
	6. 6. h m	.354" DIA	<.315
		.394" DIA	<.591
02)	orr Cox Cox	.433"~6" DIA	<1.18
,			



D2	L2
.590" DIA	<.394"
.630" DIA	<.709"
.669" DIA	<1.024"
.709" DIA	<1.339"
.748" DIA	<1.654"
.787" DIA	<1.969"
.827" DIA	<2.283"
.866"~6" DIA	<2.756"

Part No.	EDP No.	Range of upper jaw	Range of lower jaw	Accuracy
1176-150	817005	.35-6"/9-150mm	.59-6"/15-150mm	±.0016"

S"SPC

ELECTRONIC INSIDE GROOVE CALIPER

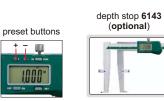
.197"

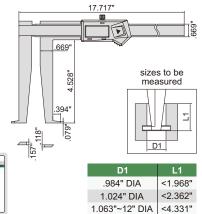
492

- Measure diameter of grooves inside bores
- Resolution .0005"/0.01mm
- Buttons: on/off, set, inch/mm, preset (+, -)
- Automatic power off, move the digital unit to turn on power
- Battery CR2032, data output
- Made of stainless steel
- Optional accessory: depth stop (part no. 6143), data output cable (part no. 7306-20, 7302-SPC5A/SPC5B, 7305-SPC2A, 7305-A01/A02)

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







ELECTRONIC INSIDE GROOVE CALIPER

- Measure diameter of grooves inside small bores
- Resolution .0005"/0.01mm
- Buttons: on/off, set, inch/mm, preset (+, -)
- Automatic power off, move the digital unit to turn on power
- Battery CR2032
- Data output
- Made of stainless steel
- Optional accessory: depth stop (part no. 6143), data output cable (part no. 7306-20, 7302-SPC5A/SPC5B, 7305-SPC2A, 7305-A01/A02)

Part No.	EDP No.	Range	Accuracy
1520-150	877105	.43-6"/11-150mm	±.0016"





S"SPC

9.291

ELECTRONIC OUTSIDE GROOVE CALIPER

- Measure grooves and recesses
- 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: depth stop (part no. 6143), data output cable (part no. 7306-20, 7302-SPC5A/SPC5B, 7305-SPC2A, 7305-A01/A02)

Part No.	EDP No.	Range	Accuracy
1187-150A	280505	0-6"/0-150mm	±.0016"



1187-150A

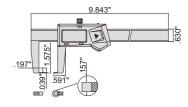
depth stop 6143 (optional)

depth stop 6143

(optional)







SPC

ELECTRONIC OUTSIDE POINT CALIPER

- Measure wall thickness inside bores and recesses
- 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: depth stop (part no. 6143), data output cable (part no. 7306-20, 7302-SPC5A/SPC5B, 7305-SPC2A, 7305-A01/A02)

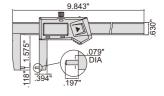
Part No.	EDP No.	Range	Accuracy
1185-150A	280514	0-6"/0-150mm	±.0016"



1185-150A







DEPTH STOP FOR CALIPERS

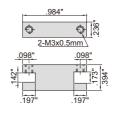


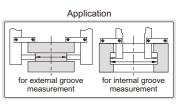
Part No.

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









SPC

ELECTRONIC BLADE CALIPER

- The blade jaws fit into small 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: data output cable (part no. 7306-20, 7302-SPC5A/SPC5B, 7305-SPC2A, 7305-A01/A02)





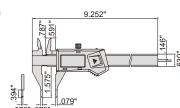
Part No.	EDP No.	Range	Accuracy	L	а	b	С	d	е	g
1188-150A	280580	0-6"/0-150mm	±.0012"	9.291"	.827"	.630"	.630"	1.575"	.030"	.669"

ELECTRONIC SMALL POINT CALIPER

- Small pointed jaws fit into small grooves and recesses
- Resolution .0005"/0.01mm
- Buttons: on/off, zero, inch/mm
 Automatic power off, move the digital unit to turn on power
- Battery CR2032, data output
- Made of stainless steel
- Optional accessory: data output cable (part no. 7306-20, 7302-SPC5A/SPC5B, 7305-SPC2A, 7305-A01/A02)

Part No.	EDP No.	Range	Accuracy
1169-150	877119	0-6"/0-150mm	+ 0012"





ELECTRONIC INSIDE KNIFE-EDGE CALIPER

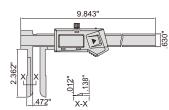
- Measure diameter of deep step holesResolution .0005"/0.01mm
- Buttons: on/off, zero, inch/mm
- Automatic power off, move the digital unit to turn on power
- Battery CR2032
- Data output
- Made of stainless steel
- Optional accessory: data output cable (part no. 7306-20, 7302-SPC5A/SPC5B, 7305-SPC2A, 7305-A01/A02)

Part No.	EDP No.	Range	Accuracy
1123-150A	280589	.6-6"/15-150mm	±.0020"



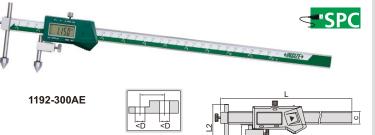
1123-150A





ELECTRONIC OFFSET CENTERLINE CALIPER

- Measure hole center distance in the same or offset planes
- Resolution .0005"/0.01mm
- Buttons: on/off, set, inch/mm, preset (+, -)
- Automatic power off, move the digital unit to turn on power
- Battery CR2032
- Data output
- Made of stainless steel
- Optional accessory: data output cable (part no. 7306-20, 7302-SPC5A/SPC5B, 7305-SPC2A, 7305-A01/A02)



Part No.	EDP No.	Range	Accuracy	С	D (DIA)	L1	L2	L
1192-300AE	877123	.4-12"/10.5-300mm	±.0035"	.630"	.4"	1.260"	2.559"	15.591"

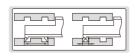
ELECTRONIC HOOK CALIPER

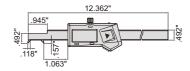
- Measure width of groove inside boresResolution .0005"/0.01mm
- Buttons: on/off, zero, inch/mm
- Automatic power off, move the digital unit to turn on power
- Battery CR2032, data output
- Made of stainless steel
- Optional accessory: data output cable (part no. 7306-20, 7302-SPC5A/SPC5B, 7305-SPC2A, 7305-A01/A02)

Part No.	EDP No.	Range	Accuracy
1122-200A	280644	.12-8"/3-200mm	±.0012"



1122-200A





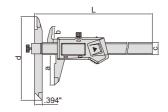
S"SPC

ELECTRONIC OFFSET CALIPER



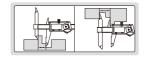
- The left jaw can slide up and down to facilitate measurement of stepped sections
- Resolution .0005"/0.01mm
- Buttons: on/off, zero, inch/mm
- Automatic power off, move the digital unit to turn on power
- Battery CR2032
- Data output
- Made of stainless steel
- Optional accessory: data output cable (part no. **7306-20**, **7302-SPC5A/SPC5B**, **7305-SPC2A**, **7305-A01/A02**)





1186-150A

Part No.	EDP No.	Range	Accuracy	L	а	b	С	d
1186-150A	280625	0-6"/0-150mm	±.0016"	9.409"	1.575"	.650"	.669"	4.331"



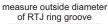
1179-300

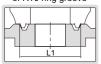
preset buttons

ELECTRONIC RTJ RING GROOVE CALIPERS

- Measure ring grooves of flangeResolution .0005"/0.01mm
- Button function: on/off, set, zero, inch/mm, data preset
- Battery CR2032
- Data output
- Made of stainless steel
- Optional accessory: data output cable (part no. 7306-20, 7302-SPC5A/SPC5B, 7305-SPC2A, 7305-A01/A02)

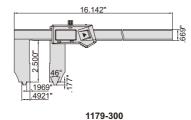


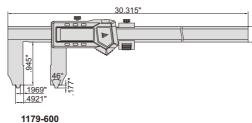




measure inside diameter of RTJ ring groove







applicable for RTJ ring grooves with angle 23°



10mm and 25mm need to be added on the reading

Part No.	EDP No.	Range (inside diameter of RTJ ring groove)	Range (outside diameter of RTJ ring groove)	Angle of RTJ ring groove	Accuracy
1179-300	877121	.4-12"/10-300mm	1-12"/25-300mm	23°	±.0024"
1179-600	877122	.4-24"/10-600mm	1-24"/25-600mm	23°	±.0028"



ELECTRONIC TUBE THICKNESS CALIPER

SPC

- Measure 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

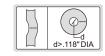
Part No.

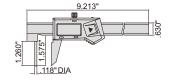
- Made of stainless steel
- Optional accessory: data output cable (part no. 7306-20, 7302-SPC5A/SPC5B, 7305-SPC2A, 7305-A01/A02)

EDP No.



1161-150A





1161-150A 280502 0-6"/0-150mm ±.0020"

Range

ELECTRONIC CALIPER WITH LARGE MEASURING FACE

11.811'



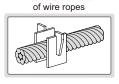
■ Measure diameter of wire ropes, and thickness of soft materials like rubber, sponge, etc.

- Resolution .0005"/0.01mm
- Buttons: on/off, zero, inch/mm
- Automatic power off, move the digital unit to turn on power
- Battery CR2032
- Data output
- Made of stainless steel
- Optional accessory: data output cable (part no. 7306-20, 7302-SPC5A/SPC5B, 7305-SPC2A, 7305-A01/A02)



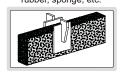
Accuracy

1172-200



measure diameter

measure thickness of rubber, sponge, etc.



Part No.	EDP No.	Range	Accuracy
1172-200	877104	0-8"/0-200mm	±.0028"

ELECTRONIC GEAR TOOTH CALIPERS

- Resolution .0005"/0.01mm
- Carbide tips

Part No.

1181-M25A

1181-M50A

- Buttons: zero, on/off, inch/mm
- Automatic power off, move the digital unit to turn on power

EDP No.

280658

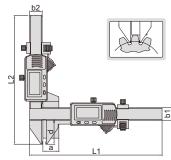
280659

Range

P1-P24

P1/2-P5

- Battery CR2032
- Made of stainless steel

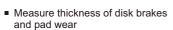


<u> </u>	a	<u>L1</u>				
Accuracy	L1	L2	а	b1	b2	d
±.0016"	6.693"	6.516"	.827"	.630"	.630"	1.201"
±.0016"	8.661"	7.480"	1.988"	.630"	.630"	2.165"

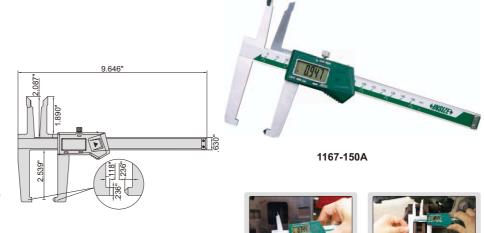


1181-M25A

ELECTRONIC DISK BRAKE AND PAD CALIPER



- Resolution .0005"/0.01mm
- Buttons: on/off, zero, inch/mm
- Automatic power off, move the digital unit to turn on power
- Battery CR2032
- Data output
- Made of stainless steel
- Optional accessory: data output cable (part no. 7306-20, 7302-SPC5A/SPC5B, 7305-SPC2A, 7305-A01/A02)



Part No.	EDP No.	Range	Accuracy
1167-150A	877118	0-6"/0-150mm	±.0028"

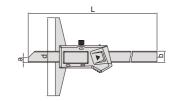
ELECTRONIC DEPTH GAGES

- Resolution .0005"/0.01mm
- Buttons: on/off, zero, inch/mm
- Automatic power off, move the digital unit to turn on power
- Battery CR2032, data output
- Made of stainless steel
- Optional accessory: data output cable (part no. 7306-20, 7302-SPC5A/SPC5B, 7305-SPC2A, 7305-A01/A02)



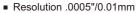
1141-150A

Part No.	EDP No.	Range	Accuracy	L	а	b	d
1141-150A	816040	0-6"/0-150mm	±.0012"	9.055"	.236"	.571"	3.937"
1141-200A	816042	0-8"/0-200mm	±.0012"	11.024"	.236"	.571"	3.937"
1141-300A	816044	0-12"/0-300mm	±.0012"	14.961"	.236"	.571"	5.906"
1141-500A	280676	0-20"/0-500mm	±.0020"	23.031"	.276"	.591"	5.906"



ELECTRONIC DEPTH GAGES WITH MOUNTING

HOLES FOR EXTENSION BASE



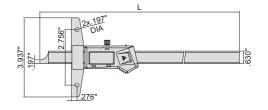
- Buttons: on/off, zero, inch/mm
- Automatic power off, move the digital unit to turn on power
- Battery CR2032
- Data output
- Made of stainless steel
- Optional accessory: data output cable (part no. 7306-20, 7302-SPC5A/SPC5B, 7305-SPC2A, 7305-A01/A02), extension base (part no. 6141)



extension base (optional)

	1000			ries	
1000	4	0	9	0	

Part No.	EDP No.	Range	Accuracy	L
1147-150	285130	0-6"/0-150mm	±.0012"	9.331"
1147-200	285131	0-8"/0-200mm	±.0012"	11.299"
1147-300	285132	0-12"/0-300mm	±.0012"	15.866"



<"SPC

S"SPC



ELECTRONIC POINT DEPTH GAGE



- Resolution .0005"/0.01mm
- Buttons: on/off, zero, inch/mm
- Automatic power off, move the digital unit to turn on power
- Battery CR2032
- Data output
- Made of stainless steel
- Optional accessory: data output cable (part no. 7306-20, 7302-SPC5A/SPC5B, 7305-SPC2A, 7305-A01/A02)



1143-200A



	11.457"	
AID.059	236"	.571"

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

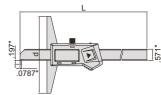
ELECTRONIC HOOK DEPTH GAGES



- Resolution .0005"/0.01mm
- Buttons: on/off, zero, inch/mm
- Automatic power off, move the digital unit to turn on power
- Battery CR2032
- Data output
- Made of stainless steel
- Optional accessory: data output cable (part no. 7306-20, 7302-SPC5A/SPC5B, 7305-SPC2A, 7305-A01/A02)



1142-150A



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







ELECTRONIC DOUBLE HOOK DEPTH GAGES

- Resolution .0005"/0.01mm
- Buttons: on/off, zero, inch/mm
- Automatic power off, move the digital unit to turn on power
- Battery CR2032
- Data output
- Made of stainless steel
- Optional accessory: data output cable (part no. 7306-20, 7302-SPC5A/SPC5B, 7305-SPC2A, 7305-A01/A02)



1144-150A

		L	
P	_	098"	571

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





ELECTRONIC DEPTH GAGE WITH ROUND DEPTH BAR < "SPC preset buttons ■ Resolution .0005"/0.01mm ■ Supplied with three interchangeable points (flat, spherical, disk) Buttons: on/off, set, inch/mm, preset (+, -) Automatic power off, move the digital unit to turn on power Battery CR2032, data output ■ Made of stainless steel 1858 Optional accessory: data output cable (part no. 7306-20, 7302-SPC5A/SPC5B, 7305-SPC2A, 7305-A01/A02), disk points (see below table), extension base (part no. 6141) 1148-200E measure depth measure depth measure depth measure width of small holes M2.5x0.45mm of grooves of grooves of arooves M2.5x0.45mm M2.5x0.45mm (>.157"DIA) inside bore inside bore inside bore .157 M2.5x0.45mm .157 DIA .236"R DIA .315"DIA .157"DIA spherical .04"±.0002 point point point .315"DIA Part No. EDP No. Range 1148-P103E Accuracy Remark with mounting holes for 1148-P103E (optional), measure width 1148-200E 877103 0-8"/0-200mm ±.0012" 11.811" 3.976 extension base of bottom grooves inside blind hole *When disk points are used, the range is reduced by .394" extension base (optional) **OPTIONAL DISK POINT**

EXTENSION BASES

Supplied with two screws

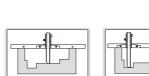
1148-P103E 877116

Made of stainless steel

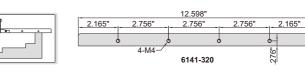
Part No.

Suitable for depth gages series 1147 and 1148





6141-320



2.165"

2.756

6141-180

2.165"

6141 series

+INSIZE+

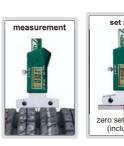
MINI ELECTRONIC DEPTH GAGE

EDP No. Description

.04" disk point | for grooves inside blind hole

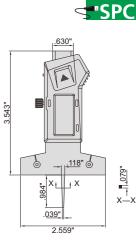
- Measure depth of small groove and hole, also measure depth of tire tread
- Resolution .0005"/0.01mm
- Buttons: on/off, zero, inch/mm
- Supplied with zero set surface
- Automatic power off, move the digital unit to turn on power
- Battery CR2032
- Data output
- Made of stainless steel
- Optional accessory: data output cable (part no. 7306-20, 7302-SPC5A/SPC5B, 7305-SPC2A, 7305-A01/A02)

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







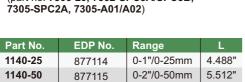




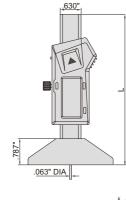
WITH ROUND BAR



- Measure depth of small groove and hole
- Resolution .0005"/0.01mm
- Accuracy ±.0008"
- Buttons: on/off, set, inch/mm, preset (+,-)
- Automatic power off, move the digital unit to turn on power
- Battery CR2032
- Data output
- Made of stainless steel
- Optional accessory: data output cable (part no. 7306-20, 7302-SPC5A/SPC5B, 7305-SPC2A, 7305-A01/A02)







MINI ELECTRONIC DEPTH GAGES

1140-25

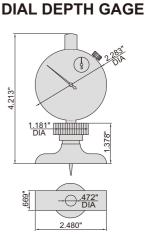
2.559"

- Accuracy ±.0012"
- Stainless steel base
- Supplied with pointed tip and ball tip

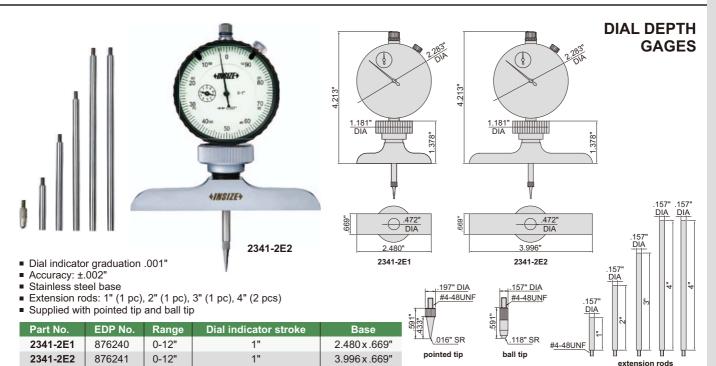








Part No.	EDP No.	Range	Dial indicator stroke	Dial indicator graduation
2341-E1	283207	0-1.2"	.5"	.001"

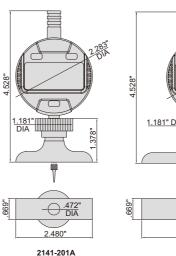


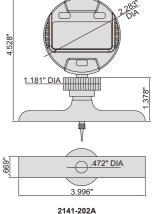
ELECTRONIC DEPTH GAGES





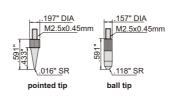


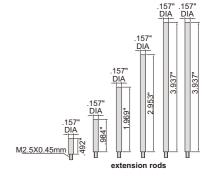




2141-202A

- Button function: on/off, zero, inch/mm, ABS, data preset, change measuring direction
- CR2032 battery, automatic power off
- Data ouput
- Stainless steel base
- Supplied with pointed tip and ball tip
- Optional accessory: data output cable (part no. 7306-40, 7302-SPC3A, 7305-SPC1A, 7305-C01)





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

ELECTRONIC DEPTH MICROMETERS

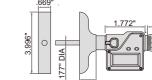
- Resolution .0005"/0.01mm
- Micrometer head accuracy: ±.00012"
- Rod accuracy: ±[.001+.0005(L/3)]",
 L is the measuring range in inch
 Button function: on/off, set, inch/mm, ABS/INC
- IP65 dust/coolant proof
- Data output
- LR44 battery, automatic power off
- Rods with flat end
- Ratchet stop
- Optional accessory: data output cable (part no. 7306-30A, 7302-SPC6, 7305-SPC3A, 7305-B01)

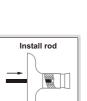
Part No.	EDP No.	Range	Rods
3540-150E	281945	0-6"/0-150mm	6 pcs
3540-300E	281947	0-12"/0-300mm	12 pcs

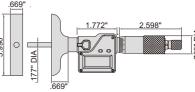




3540-150E

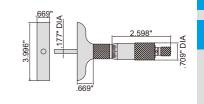






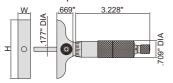
Graduation .001" Micrometer head accuracy: ±.00012" Rod accuracy: ±[.001+.0005(L/3)]", L is the measuring range in inch Rods with flat end Ratchet stop		3)]",		
Part No.	EDP No.	Range	Rods	945°
3240-6	281939	0-6"	6 pcs	3240-6

DEPTH MICROMETER



- Graduation .001"
 Micrometer head accuracy: ±.00012"
- Rod accuracy: ±[.001+.0005(L/3)]", L is the measuring range in inch

 Rods with flat end
- Ratchet stop



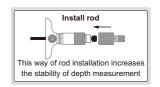
Base: HxW=2.480x.669"

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



3241-4

DEPTH MICROMETERS



Base: HxW=3.996x.669"

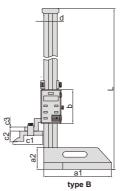
Install rod

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



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







3/8" DIA for **1150-300E** 2.559" 1.969" 3/8" DIA for 1150-500E/600E 3/8" DIA for 1150-1000E

ELECTRONIC

dial test indicator

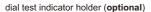
holder (included)

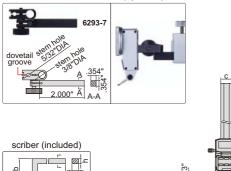
HEIGHT GAGES

Part No.	EDP No.	Range	Туре	Accuracy	L	a1	a2	b	c1	c2	с3	d	е	f
1150-300E	280756	0-12"/0-300mm	Α	±.0020"	18.504"	5.315"	1.772"	3.150"	2.992"	.984"	.394"	.906"	.236"	.315"
1150-500E	280757	0-20"/0-500mm	Α	±.0024"	28.346"	7.087"	2.165"	3.740"	4.055"	.984"	.472"	1.181"	.394"	.472"
1150-600E	280758	0-24"/0-600mm	В	±.0024"	32.283"	7.087"	2.165"	3.740"	4.055"	.984"	.472"	1.181"	.394"	.472"
1150-1000E	280759	0-40"/0-1000mm	В	±.0031"	50.197"	9.843"	3.150"	4.921"	4.331"	1.535"	.591"	1.969"	.394"	.591"

ELECTRONIC HEIGHT GAGES WITH DRIVING WHEEL







- Resolution .0005"/0.01mm
- Buttons: on/off, zero, inch/mm, preset (+, -), hold
- Automatic power off, move the digital unit to turn on power
- Carbide tipped scriber
- Made of stainless steel
 Battery CR2032, data output
- Supplied with dust cover
- Optional accessory: data output cable (part no. 7306-20, 7302-SPC5A/SPC5B, 7305-SPC2A, 7305-A01/A02),

dial test indicator holder (part no. 6293-7), clamp for protractors (part no. 2372-CLAMP)





2372-CLAMP



1156-1000

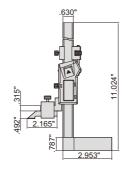
Part No.	EDP No.	Range	Accuracy	L	W	Н	a	b	С	h
1156-300	816634	0-12"/0-300mm	±.0012"	20.276"	7.087"	2.165"	3.150"	1.181"	1.378"	.354"
1156-600	816635	0-24"/0-600mm	±.0020"	32.087"	7.087"	2.165"	3.150"	1.181"	1.378"	.354"
1156-1000	877117	0-40"/0-1000mm	±.0028"	48.031"	10.433"	2.756"	3.622"	1.890"	1.575"	.472"

ELECTRONIC HEIGHT GAGE (LIGHT DUTY)



- Resolution .0005"/0.01mm
- Buttons: on/off, zero, inch/mm
- Automatic power off, move the digital unit to turn on power
- Carbide tipped scriber
- With fine adjustment
- Made of stainless steel
- Battery CR2032, data output
- Optional accessory: data output cable (part no. 7306-20, 7302-SPC5A/SPC5B, 7305-SPC2A, 7305-A01/A02), dial test indicator holder (part no. 7151-CL2)
- Can not use clamp for protractors
- (part no. 2372-CLAMP)

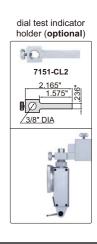
Part No.	EDP No.	Range	Accuracy
1154-150	877102	0-6"/0-150mm	±.0012"



scriber (included) 2.165"



1154-150



VERNIER HEIGHT GAGES

scriber (included) Z 2

- 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

Part No.

1250-300

1250-600

- Supplied with dust cover
- Optional accessory: dial test indicator holder (part no. 6293-7), clamp for protractors (part no. 2372-CLAMP)

EDP No.

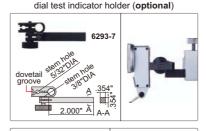
280780

280783

Range

0-12"/0-300mm

0-24"/0-600mm





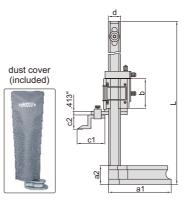
21.457"

34.252"

Accuracy

±.0016"

±.0020"

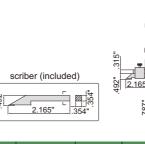


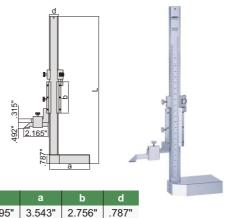


3.150"	1.181"	1.102"	4050.000
3.150"	1.614"	1.378"	1250-300

■ Graduation .001"/0.02mm

- Carbide tipped scriber
- Made of stainless steel (except the base)
- Satin chrome plated scale
- Optional accessory: dial test indicator holder (part no. 7151-CL2)
- Supplied in fitted storage case
- Can not use clamp for protractors (part no. 2372-CLAMP)





2.953"

3.346"

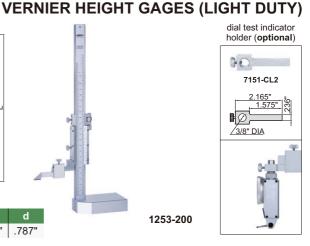
3.1

1.693"

2.126"

5.315"

7.087"



Part No.	EDP No.	Range	Accuracy	L	а	
1253-200	877126	0-8"/0-200mm	±.0012"	12.795"	3.543"	



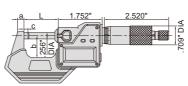
■ IP65 dust/coolant proof

- Resolution .00005"/0.001mm
- Button function: on/off, set, inch/mm, ABS/INC
- Data output
- LR44 battery, automatic power off
- Carbide measuring faces
- Supplied with spherical anvil
- Setting standards are included (except 0-1"/0-25mm)
- Optional accessory: data output cable (part no. 7306-30A, 7302-SPC6, 7305-SPC3A, 7305-B01)

ELECTRONIC OUTSIDE MICROMETER (WITH DATA OUTPUT)

1253-200





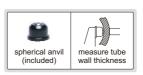


ratchet stop

friction thimble for one hand operation

Individual (ratchet stop type)

Part No.	EDP No.	Range	Accuracy	L	a	b	С
3101-25E	280838	0-1"/0-25mm	±.00008"	1.358"	.236"	.984"	.118"
3101-50E	280839	1-2"/25-50mm	±.00008"	2.343"	.315"	1.260"	.118"
3101-75E	280840	2-3"/50-75mm	±.00012"	3.327"	.315"	1.752"	.118"
3101-100E	280841	3-4"/75-100mm	±.00012"	4.311"	.315"	2.244"	.118"



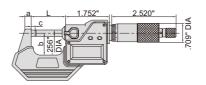
AMSIZE

ELECTRONIC OUTSIDE MICROMETERS (WITHOUT DATA OUTPUT)









spherical anvil

(included)







- Resolution .00005"/0.001mm
- IP65 dust/coolant proof
- Button function: on/off, set, inch/mm, ABS/INC
- Without data output
- LR44 battery, automatic power off
- Carbide measuring faces
- Supplied with spherical anvil
- Setting standards are included (except 0-1"/0-25mm)

Ratchet stop type

Part No.	EDP No.	Range	Accuracy	L	а	b	С
3108-1	280868	0-1"/0-25mm	±.00008"	1.358"	.236"	.984"	.118"
3108-2	280869	1-2"/25-50mm	±.00008"	2.343"	.315"	1.260"	.118"

measure tube

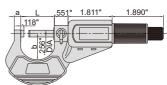
wall thickness

ELECTRONIC OUTSIDE MICROMETERS



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





3109-25E

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



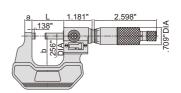


OUTSIDE MICROMETERS WITH COUNTER

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

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

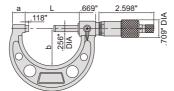






OUTSIDE MICROMETERS

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















3203-44A

3203-126A

Imperial (ratchet stop type)

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

Metric (ratchet stop type)

Part No.	EDP No.	Range	Accuracy	L	а	b
3203-25A*	816530	0-25mm	±2µm	32mm	9mm	28mm
3203-50A*	816532	25-50mm	±2µm	57mm	14mm	38mm
3203-75A*	816534	50-75mm	±2µm	82mm	15mm	49mm
3203-100A*	816536	75-100mm	±3µm	107mm	15mm	60mm
3203-125A	816538	100-125mm	±3µm	133mm	16.5mm	73mm
3203-150A	816540	125-150mm	±3µm	158mm	16.5mm	85mm
3203-175A	816542	150-175mm	±4µm	183mm	19.4mm	104mm
3203-200A	816544	175-200mm	±4µm	209mm	19.4mm	117mm
3203-225A	816546	200-225mm	±4µm	234mm	19.4mm	130mm
3203-250A	816548	225-250mm	±5µm	260mm	19.4mm	142mm
3203-275A	816550	250-275mm	±5µm	285mm	19.4mm	155mm
3203-300A	816552	275-300mm	±5µm	310mm	19.4mm	168mm

Imperial micrometer set (ratchet stop type)

			r · · /	
Part No.	EDP No.	Range	Micrometers included	Packaging
3203-33A*	816588	0-3"	3203-1A, 3203-2A, 3203-3A	blow mould case
3203-44A*	816590	0-4"	3203-1A, 3203-2A, 3203-3A, 3203-4A	blow mould case
3203-66A*	816592	0-6"	3203-1A, 3203-2A, 3203-3A, 3203-4A, 3203-5A, 3203-6A	blow mould case
3203-126A	816594	6-12"	3203-7A, 3203-8A, 3203-9A, 3203-10A, 3203-11A, 3203-12A	aluminum box
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	aluminum box

Metric micrometer set (ratchet stop type)

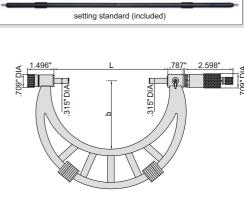
Part No.	EDP No.	Range	Micrometers included	Packaging
3203-753A*	816554	0-75mm	3203-25A, 3203-50A, 3203-75A	blow mould case
3203-1004A*	816556	0-100mm	3203-25A, 3203-50A, 3203-75A, 3203-100A	blow mould case
3203-1506A	816558	0-150mm	3203-25A, 3203-50A, 3203-75A, 3203-100A, 3203-125A, 3203-150A	blow mould case
3203-3006A	816560	150-300mm	3203-175A, 3203-200A, 3203-225A, 3203-250A, 3203-275A, 3203-300A	aluminum box
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	aluminum box

^{*}Supplied with manufacturer inspection certificate traceable to NIST or DKD Germany

ANSIZE+

OUTSIDE MICROMETERS WITH INTERCHANGEABLE ANVILS



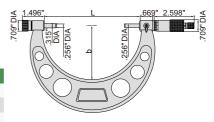


type B

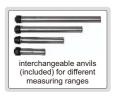
3206-16

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

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

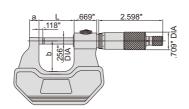


type A



OUTSIDE MICROMETERS FOR LEFT OR RIGHT HAND

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

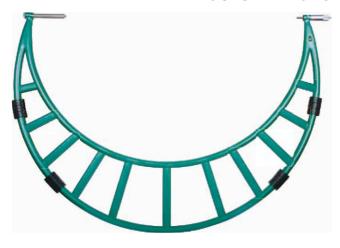


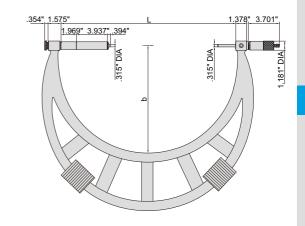
Part No.	EDP No.	Range	Accuracy	L	а	b
3236-1B	816636	0-1"	.00016"	1.260"	.236"	.945"
3236-2B	816637	1-2"	.00016"	2.244"	.315"	1.260"





OUTSIDE MICROMETERS WITH EXTENSION ANVIL COLLAR







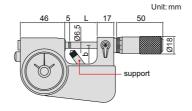
- 3205-56
- Graduation .0005"
- Adjust collars for different measuring ranges
 Ratchet stop
- Carbide measuring faces
- Supplied with setting standards

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



INDICATING MICROMETERS

- Meet DIN863-3
- Micrometer head graduation: 0.002mm
 Dial indicator: range ±0.04mm, graduation 0.001mm, accuracy 0.001mm
- Carbide measuring faces
- Supplied with setting standards (except 0-25mm)



(mm)

Part No.	EDP No.	Micrometer head range			b	Remark
3332-25	281840	0-25mm	4µm	28.5	19	with support
3332-50	281841	25-50mm	4µm	53.5	30	with support



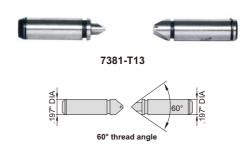
3332-25

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

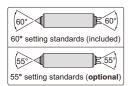
Unified and metric thread (60° thread angle)

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

MEASURING TIPS FOR SCREW THREAD MICROMETERS



SCREW THREAD MICROMETERS



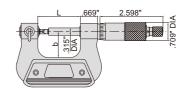


- Graduation .001"
- Non-rotating spindle
- Ratchet stop
- Supplied with 60° setting standards
 Optional accessory: 55° setting standards, measuring tips (part no. 7381)



3281-1





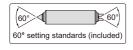
Part No.	EDP No.	Range	L	b	55° setting standard (optional)
3281-1	281696	0-1"	1.654"	1.024"	_
3281-2	281697	1-2"	2.638"	1.496"	3281-SPE1
3281-3	281698	2-3"	3.622"	1.969"	3281-SPE2
3281-4	281699	3-4"	4.630"	2.441"	3281-SPE3
3281-5	281700	4-5"	5.630"	2.756"	3281-SPE4
3281-6	281701	5-6"	6.622"	3.228"	3281-SPE5

accuracy of micrometers with tips

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

ELECTRONIC SCREW THREAD MICROMETER





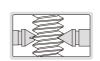


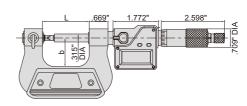


3581-25E



- Resolution .00005"/0.001mm
- Button function: on/off, set, inch/mm, ABS/INC
- Data output
- LR44 battery, automatic power off
- Non-rotating spindle
- Ratchet stop
- Supplied with 60° setting standards
- Optional accessary: data output cable (part no. 7306-30A, 7302-SPC6, 7305-SPC3A, 7305-B01)





accuracy of micrometers with tips

Pitch	Range
Pitch	0-1"
64~48TPI	±394µin
44~32TPI	±394µin
28~20TPI	±472µin
18~13TPI	±551µin
12~7TPI	±630µin
6~3.5TPI	-

Part No.	EDP No.	Range	L	b
3581-25E	877166	0-1"/0-25mm	1.654"	1.024"

POINT MICROMETER

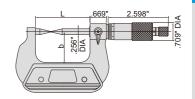


- Measure the web thickness of drills, small grooves and keyways
- Graduation .0001"
- Ratchet stop
- Carbide tips

Part No.	EDP No.	Range	Accuracy	L	b
3230-1	281345	0-1"	.00016"	2.244"	1.260"



3230-1



BLADE MICROMETERS

- Measure the groove diameter of shafts and keyways
- Graduation .0001"
- Non-rotating spindle
- Ratchet stop

3232-6

3232-7

■ Supplied with setting standards (except 0-1")





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

.00024"

.00028"

7.220"

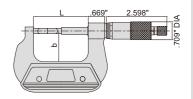
8.220"

3.720"

4.213"

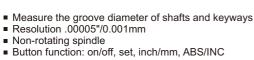






.<u>23</u>6

ELECTRONIC BLADE MICROMETER



5-6"

6-7"

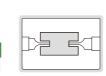
- Data output
- LR44 battery, automatic power off

281325

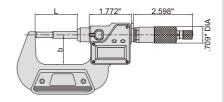
281326

- Ratchet stop
- Optional accessory: data output cable (part no. 7306-30A, 7302-SPC6, 7305-SPC3A, 7305-B01)





3532-50E



Part No.	EDP No.	Range	Accuracy	L	b
3532-50E	281328	2-3"/50-75mm	±.00016"	3.228"	1.752"

CRIMP HEIGHT MICROMETER



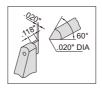
3266-1B

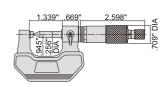
- Measure the height of crimp contactGraduation .0001"

- Ratchet stop
 Optional product: electronic crimp height caliper (part no. 1165-150A)

Part No.	EDP No.	Range	Accuracy
3266-1B	281395	0-1"	.00016"





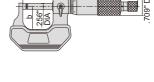


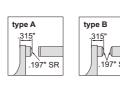
SPHERICAL ANVIL TUBE MICROMETERS



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

3260-1







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

DEEP THROAT MICROMETER

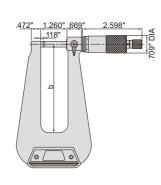
- Deep frame suitable for deep throat, paper and plastic
 Graduation .0001"
- Ratchet stop
- Carbide measuring faces



Part No.	EDP No.	Range	Accuracy	b
3239-13	281235	0-1"	.00028"	6.102"



3239-13





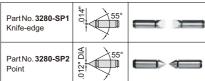
NON-ROTATING SPINDLE UNIVERSAL MICROMETER

- Graduation .0001"
- Non-rotating spindle
- Ratchet stop
- Supplied with 7 pairs of anvil/spindle tip
- Optional accessary: 55° anvil/spindle tip (part no. 3280-SP1 and 3280-SP2)

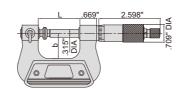


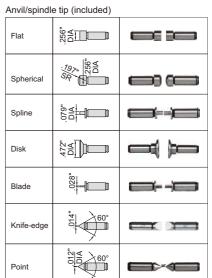
3280-1

55° anvil/spindle tip (optional)



			Accuracy		
3280-1	281607	0-1"	.00016"	1.654"	1.024"





MICROMETER STAND

■ Suitable for micrometers up to 4"

EDP No.

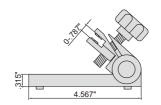
282455

Part No.

6300









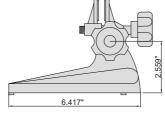
Suitable for micrometers

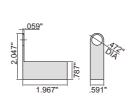
up to 4"	

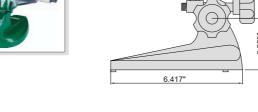
Part No.	EDP No.
6301	282456

 Suitable for inside micrometers











Part No.	EDP No.	Description	Applicable products
6301-1	877191	clamp for inside micrometers	all sizes of 3220 series

MICROMETER STAND





6301-1



MICROMETER SETTING STANDARDS

Part No.	EDP No.	Length	Accuracy	D (DIA)
6311-1	282508	1"	±.00006"	.276"
6311-2	282509	2"	±.00008"	.276"
6311-3	282510	3"	±.00010"	.276"
6311-4	282511	4"	±.00012"	.315"
6311-5	282512	5"	±.00014"	.315"
6311-6	282513	6"	±.00016"	.315"
6311-7	282514	7"	±.00018"	.315"
6311-9	282516	9"	±.00022"	.315"
6311-10	282517	10"	±.00024"	.315"

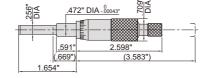


MICROMETER HEAD

5

■ Ratchet stop

6381-1W



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

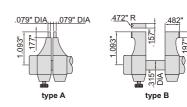
INSIDE MICROMETERS

- Graduation .001"
- Ratchet stop
- Carbide measuring faces
- Optional accessary: setting ring (part no. 6313), micrometer stand and clamp (part no. 6301 and 6301-1)

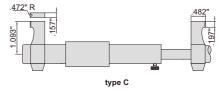


micrometer stand with





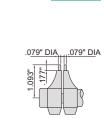
Part No.	EDP No.	Range	Type	Setting ring	Accuracy
3220-1	281962	.2-1.2"	Α	.2" DIA (included)	.00028"
3220-2	281963	1-2"	В	1" DIA (included)	.00032"
3220-3	281964	2-3"	В	2" DIA (optional)	.00036"
3220-4	281965	3-4"	С	3" DIA (optional)	.00040"



ELECTRONIC INSIDE MICROMETER

- Resolution .00005"/0.001mm
- Button function: on/off, set, inch/mm, ABS/INC
- Data output
- LR44 battery, automatic power off
- Ratchet stop
- Carbide measuring faces
- Optional accessory: data output cable (part no. 7306-30A, 7302-SPC6, 7305-SPC3A, 7305-B01), setting ring (part no. 6313)





"SPC

3520-30E

Part No.	EDP No.	Range	Setting ring	Accuracy
3520-30E	281970	.2-1.2"/5-30mm	.2" DIA (included)	±.00020"

INTERNAL MICROMETERS

- Graduation .001"
- Accuracy: [.0003+.00005(L/2)]"

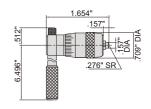
 L=maximum measuring length (inch)

■ Optional accessary: setting ring (part no. 6313)



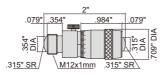
3221-8

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



INTERNAL MICROMETERS

- Graduation .001"
- Accuracy: [.00005(3+n+L/2)]" n=number of rods, L=maximum measuring length (inch)
- Supplied with setting standards
- Carbide measuring faces





3222-6

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





ELECTRONIC WIDE RANGE THREE POINTS INTERNAL MICROMETERS

- Resolution .00005"/0.001mm
- IP54 dust/coolant proof Buttons: on/off, set, inch/mm, ABS/INC
- Data output
- LR44 battery, automatic power off
 Carbide measuring faces
- Ratchet stop
- Supplied with extension rods
- Setting rings are included (except part no. 3128-12)
 Optional accessary: data output cable (part no. 7306-30A, 7302-SPC6, 7305-SPC3A, 7305-B01)

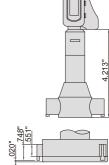




extension rod (included)

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





3128-28

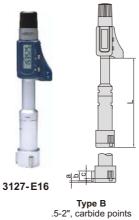
ELECTRONIC THREE POINTS INTERNAL MICROMETERS

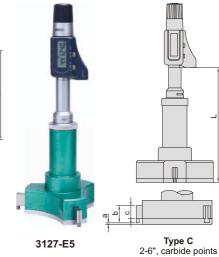




- Resolution .00005"/0.001mmIP54 dust/coolant proof
- Buttons: on/off, set, inch/mm, ABS/INC
- Data output
 LR44 battery, automatic power off
- Ratchet stop
- Optional accessary: data output cable (part no. **7306-30A**, **7302-SPC6**, **7305-SPC3A**, **7305-B01**), setting ring (part no. 6313), micrometer stand and clamp (part no. 6301 and 6301-2)









3127-E24

micrometer stand with clamp (optional)

Manufacturer Inspection Certificate





.35-4": included included

4-6": optional

extension rod

Individual

Part No.	EDP No.	Range	Туре	Accuracy	Setting ring	Extension rod (included)	L	a	b	С
3127-E0425	816638	.35425"/9-11mm	Α	.00016"	.35" DIA (included)	4"	2.18"	.059"	.098"	_
3127-E05	282305	.4255"/11-13mm	Α	.00016"	.5" DIA (included)	4"	2.18"	.059"	.098"	_
3127-E065	282317	.565"/13-17mm	В	.00016"	.65" DIA (included)	6"	3.2"	.020"	.236"	.177"
3127-E08	282318	.658"/17-20mm	В	.00016"	.65" DIA (included)	6"	3.2"	.020"	.236"	.177"
3127-E1	282319	.8-1"/20-25mm	В	.00016"	1" DIA (included)	6"	3.6"	.020"	.315"	.236"
3127-E112	282320	1-1.2"/25-30mm	В	.00016"	1" DIA (included)	6"	3.6"	.020"	.315"	.236"
3127-E16	282321	1.2-1.6"/30-40mm	В	.00016"	1.6" DIA (included)	6"	3.88"	.020"	.551"	.472"
3127-E2	282322	1.6-2"/40-51mm	В	.00020"	1.6" DIA (included)	6"	3.88"	.020"	.551"	.472"
3127-E25	282323	2-2.5"/51-63mm	С	.00020"	2.5" DIA (included)	6"	4.56"	.020"	.689"	.571"
3127-E3	282324	2.5-3"/63-76mm	С	.00020"	2.5" DIA (included)	6"	4.56"	.020"	.689"	.571"
3127-E35	282325	3-3.5"/76-89mm	С	.00020"	3.5" DIA (included)	6"	4.56"	.020"	.689"	.571"
3127-E4	282326	3.5-4"/89-101mm	С	.00020"	3.5" DIA (included)	6"	4.56"	.020"	.689"	.571"
3127-E5	282367	4-5"/101-127mm	С	.00024"	optional	6"	6"	.035"	1.142"	.984"
3127-E6	282368	5-6"/127-152mm	С	.00024"	optional	6"	6"	.035"	1.142"	.984"

Sat

Set						
Part No.	EDP No.	Range	Micrometers included	Setting ring (included)	Extension rod	
3127-E053	282306	.2755"/7-13mm	.27535"/7-9mm, .35425"/9-11mm .4255"/11-13mm	.275" DIA, .35" DIA, .5" DIA	4" (included)	
3127-E082	282330	.58"/13-20mm	.565"/13-17mm, .658"/17-20mm	.65" DIA	6" (included)	
3127-E24	282331	.8-2"/20-51mm	.8-1"/20-25mm, 1-1.2"/25-30mm 1.2-1.6"/30-40mm, 1.6-2"/40-51mm	1" DIA, 1.6" DIA	6" (included)	
3127-E44	282332	2-4"/51-101mm	2-2.5"/51-63mm, 2.5-3"/63-76mm 3-3.5"/76-89mm, 3.5-4"/89-101mm	2.5" DIA, 3.5" DIA	6" (included)	

THREE POINTS INTERNAL MICROMETERS

- .275-.5": graduation .0001".5-12": graduation .0002"
- Ratchet stopOptional accessory: setting rings (part no. 6313), micrometer stand and clamp (part no. 6301 and 6301-2)





3227-E24

micrometer stand with clamp (optional)



Manufacturer Inspection Certificate

+//\/ S	IZE+	Inspect	ion Certificat	е
Product name Code No.	Three Points Internal 3227-E112	Micrometer	Traceable to	Germany 10339/D-K-15015-01-02/2012-09 Germany 31-0830/DKD-K-06901/2012-09
Measuring range Graduation	1-1.2" .0002"		Inspector	Paulo
Serial No. Standard temperature	0910142544 68 °F		Judgement	Passed
				Unit: inch
Actual Ring S	Size(inch)	Perm	issible Error	Measured Deviation
1.023	60			0
1.10228			.00016	.00010
1.181	07			.00010





.275-4": included 4-6": optional



included

Individual

Part No.	EDP No.	Range	Type	Accuracy	Setting ring	Extension rod (included)	L	а	b	С
3227-E035	282196	.27535"	Α	.00016"	.275" DIA (included)	4"	2.146"	.059"	.098"	_
3227-E0425	877165	.35425"	Α	.00016"	.35" DIA (included)	4"	2.146"	.059"	.098"	_
3227-E05	282198	.4255"	Α	.00016"	.5" DIA (included)	4"	2.146"	.059"	.098"	_
3227-E065	282213	.565"	В	.00016"	.65" DIA (included)	6"	3.150"	.020"	.236"	.177"
3227-E08	282214	.658"	В	.00016"	.65" DIA (included)	6"	3.150"	.020"	.236"	.177"
3227-E1	282215	.8-1"	В	.00016"	1" DIA (included)	6"	3.543"	.020"	.315"	.236"
3227-E112	282216	1-1.2"	В	.00016"	1" DIA (included)	6"	3.543"	.020"	.315"	.236"
3227-E16	282217	1.2-1.6"	В	.00016"	1.6" DIA (included)	6"	3.819"	.020"	.551"	.472"
3227-E2	282218	1.6-2"	В	.00020"	1.6" DIA (included)	6"	3.819"	.020"	.551"	.472"
3227-E25	282219	2-2.5"	С	.00020"	2.5" DIA (included)	6"	4.488"	.020"	.689"	.571"
3227-E3	282220	2.5-3"	С	.00020"	2.5" DIA (included)	6"	4.488"	.020"	.689"	.571"
3227-E35	282221	3-3.5"	С	.00020"	3.5" DIA (included)	6"	4.488"	.020"	.689"	.571"
3227-E4	282222	3.5-4"	С	.00020"	3.5" DIA (included)	6"	4.488"	.020"	.689"	.571"

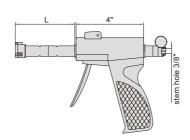
Set

Oct					
Part No.	EDP No.	Range	Micrometers included	Setting ring (included)	Extension rod (included)
3227-E053	282199	.2755"	.27535", .35425", .4255"	.275" DIA, .35" DIA, .5" DIA	4"
3227-E082	282223	.58"	.565", .658"	.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"

PISTOL GRIP THREE POINTS BORE GAGES



Optional accessory: electronic indicators (part no. 2103-10FE, resolution .00005"/0.001mm), setting rings (part no. 6313)











included



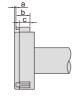




2124- E24

Manufacturer Inspection Certificate





Type C 2-6", carbide measuring points



Individual

Part No.	EDP No.	Range	Туре	Accuracy (without electronic indicator)	Setting ring	Extension rod	L	а	b	С
2124-E035	877133	.27535"	Α	.00016"	.275" DIA (included)	4" (included)	2"	.059"	.098"	_
2124-E0425	877134	.35425"	Α	.00016"	.35" DIA (included)	4" (included)	2"	.059"	.098"	_
2124-E05	877135	.4255"	Α	.00016"	.5" DIA (included)	4" (included)	2"	.059"	.098"	_
2124-E065	877137	.565"	В	.00016"	.65" DIA (included)	6" (included)	2.6"	.020"	.236"	.177"
2124-E08	877138	.658"	В	.00016"	.65" DIA (included)	6" (included)	2.6"	.020"	.236"	.177"
2124-E1	877140	.8-1"	В	.00016"	1" DIA (included)	6" (included)	3.64"	.020"	.315"	.236"
2124-E112	877141	1-1.2"	В	.00016"	1" DIA (included)	6" (included)	3.64"	.020"	.315"	.236"
2124-E16	877142	1.2-1.6"	В	.00016"	1.6" DIA (included)	6" (included)	3.88"	.020"	.551"	.472"
2124-E2	877143	1.6-2"	В	.00020"	1.6" DIA (included)	6" (included)	3.88"	.020"	.551"	.472"
2124-E25	877145	2-2.5"	С	.00020"	2.5" DIA (included)	6" (included)	4.48"	.020"	.689"	.571"
2124-E3	877146	2.5-3"	С	.00020"	2.5" DIA (included)	6" (included)	4.48"	.020"	.689"	.571"
2124-E35	877147	3-3.5"	С	.00020"	3.5" DIA (included)	6" (included)	4.48"	.020"	.689"	.571"
2124-E4	877148	3.5-4"	С	.00020"	3.5" DIA (included)	6" (included)	4.48"	.020"	.689"	.571"
2124-E5	877150	4-5"	С	.00024"	optional	6" (included)	5.51"	.035"	1.142"	.984"
2124-E6	877151	5-6"	С	.00024"	optional	6" (included)	5.51"	.035"	1.142"	.984"

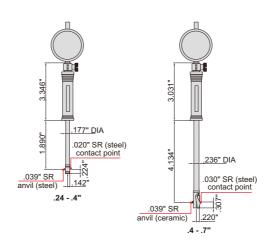
Set

Jei					
Part No.	EDP No.	Range	Probes included	Setting ring (included)	Extension rod (included)
2124-E053	877136	.2755"	.27535", .35425", .4255"	.275" DIA, .35" DIA, .5" DIA	4"
2124-E082	877139	.58"	.565", .658"	.65" DIA	6"
2124-E24	877144	.8-2"	.8-1", 1-1.2", 1.2-1.6", 1.6-2"	1" DIA, 1.6" DIA	6"
2124-E44	877149	2-4"	2-2.5", 2.5-3", 3-3.5", 3.5-4"	2.5" DIA, 3.5" DIA	6"



BORE GAGES FOR SMALL HOLES





2323-6



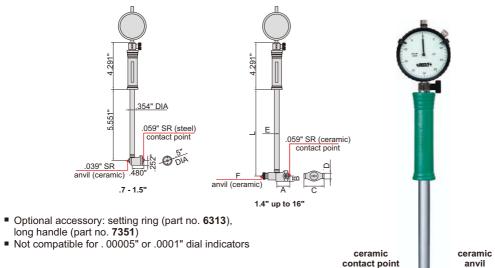
2323-04

- Optional accessory: setting ring (part no. 6313)
- Not compatible for . 00005" or .0001" dial indicators

With dial indicator

Part No.	EDP No.	Range	Indicator	Accuracy	Repeatability
2323-04	282928	.244"	dial indicator, range .25",	±.00075"	.00015"
2323-07	282929	.47"	graduation .0005"	±.00075"	.00015"

BORE GAGES





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

With dial indicator

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

BORE GAGE SETS

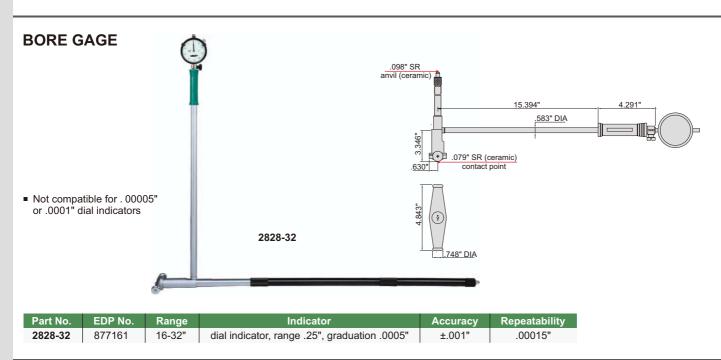
- Optional accessory:
- setting ring (part no. 6313)

 Not compatible for . 00005"
 or .0001" dial indicators

5



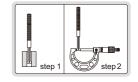
Part No.	EDP No.	Range	Indicator	Bore gages included	Acc	curacy	Repeatability
2824-S2E	877159	1.4-6"	dial indicator range .25", graduation .0005"	① 1.4-2" (dial indicator and handle are not included) ② 2-6"	1.4-2" 2-6"	±.0009" ±.0009"	.00015"
2824-S3E	877160	.7-6"	dial indicator range .25", graduation .0005"	① .7-1.5" ② 1.4-2.4" (dial indicator is not included) ③ 2-6" (dial indicator is not included)		±.00075" ±.0009" ±.0009"	.00015"



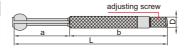
SMALL HOLE GAGE SET

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





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



Range	L	а	b	D
.125~.2"	2.992"	.945"	2.047"	.197" DIA
.2~.3"	3.110"	1.063"	2.047"	.197" DIA
.3~.4"	3.465"	1.181"	2.283"	.236" DIA
.4~.5"	3.583"	1.339"	2.283"	.236" DIA



BORE GAGE SETTER

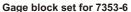
application





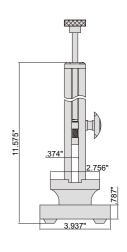
- Vertical and horizontal use
- To be used with gage blocks

Part No.	EDP No.	Range	Repeatability	Remark
7353-6	877262	0-6"	.00005"	with gage block set
7353-160W	877213	0-6"	.00005"	without gage block set



Blocks per set	Size (inch)	Step (inch)	Quantity (pcs)	Remark
	.05		1	
	.10011009	.0001	9	
	.101109	.001	9	
36	.1119	.01	9	grade AS-2
	.15	.1	5	(ASME B89.1.9)
	1		1	
	2		1	
	4		1	





7353-6



TELESCOPING GAGE SET

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

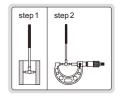
Range	L	a (DIA)	b (DIA)	c (DIA)
5/16~1/2"	4.528"	.154"	.114"	.244"
1/2~3/4"	4.528"	.209"	.150"	.244"
3/4~1-1/4"	4.528"	.209"	.150"	.244"
1-1/4~2-1/8"	5.394"	.299"	.240"	.283"
2-1/8~3-1/2"	5.394"	.299"	.240"	.283"
3-1/2~6"	5.394"	.299"	.240"	.283"



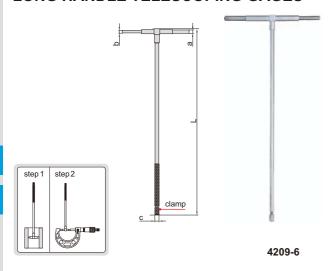
4206-1

۔	clamp ⊭
,	





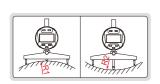
LONG HANDLE TELESCOPING GAGES



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

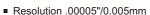
Part No.	EDP No.	Range	L	a (DIA)	b (DIA)	c (DIA)
4209-1	283589	5/16~1/2"	9.843"	.154"	.114"	.244"
4209-2	283590	1/2~3/4"	9.843"	.209"	.150"	.244"
4209-3	283591	3/4~1-1/4"	9.843"	.209"	.150"	.244"
4209-4	283592	1-1/4~2-1/8"	11.811"	.299"	.240"	.283"
4209-5	283593	2-1/8~3-1/2"	11.811"	.299"	.240"	.283"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

ELECTRONIC RADIUS GAGE



5

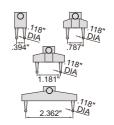
6

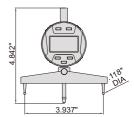


- Buttons: on/off, hold, inch/mm, s (select jaws), zero
- Measure radius of internal or external arcs
- Display can be rotated by 320°
- Supplied with 5 jaws for different sizes of arc
- Battery CR2032, automatic power off



2183





Part No.	EDP No.	Range of external radius (R1)	Range of internal radius (R2)	Accuracy (inch)
2183	283213	.2-35.83"/5-910mm	.3-35.83"/7-910mm	±0.01R*

^{*}R is the radius to be measured

COMPACT ELECTRONIC INDICATORS

- Meet ASME B89.1.10M-2001
- Button function:

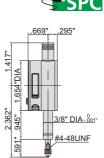
in/mm: short press for inch/metric conversion long press to change measuring direction

ABS: short press for absolute/incremental measurement long press to preset data

0/ON: short press to turn on when power is off short press to set zero when power is on long press to turn off

- Keep preset data in memory after restart
- CR1632 battery, automatic power off
- Data output
- With flat back
- Optional accessory: data output cable (part no. 7306-40, 7302-SPC3A, 7305-SPC1A, 7305-C01), contact points (page 45)





	2.362" 945" 1.654"DIA 946" 3/9" DIA 970" 970"
14-51FE	#4-48UNF

Part No.	EDP No.	Range	Resolution	Accuracy	Hysteresis
2114-5FE	877131	.2"/5mm	.0005"/0.01mm	±.0015"	.0005"
2114-51FE	877130	.2"/5mm	.00005"/0.001mm	±.00015"	.00005"

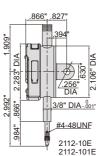
6

2112-501E



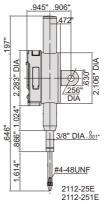








2112-10E







PRECISION ELECTRONIC INDICATORS



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

Resolution .00005"/0.001mm

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

■ Meet ASME B89.1.10M-2001

- Button function: on/off, inch/mm, zero
- CR2032 battery, automatic power off

2112-251E

- Data output
- With lug back
- Optional accessory: data output cable (part no. 7306-40, 7302-SPC3A, 7305-SPC1A, 7305-C01),

backs (page 46), contact points (page 45)









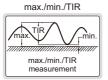
- Meet ASME B89.1.10M-2001
- Reading in digit and analog
 Display can be rotated by 320°
- Button function: tolerance Go and No-Go display, data preset, measuring direction change, max./min./TIR measurement, inch/metric conversion, absolute/incremental measurement
- Keep preset data and tolerance data in memory after restart
- CR2032 battery, automatic power off
- Data output
- Optional accessory: data output cable (part no. **7306-40**, **7302-SPC3A**, 7305-SPC1A, 7305-C01), backs (page 46), contact points (page 45)





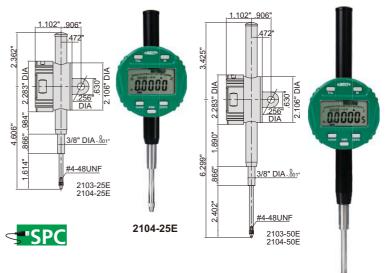


spindle lift knob





PRECISION ELECTRONIC INDICATORS



Resolution .00005"/0.001mm

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

2103-50E

Resolution .0005"/0.01mm

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

BACK PLUNGER TYPE ELECTRONIC INDICATOR





analog pointer



warning when over tolerance



spindle lift knob is included



2.283" DIA .696 2.087" 3/8" DIA -.001" .177" DIA 2.953" #4-48UNF

- Display can rotate 320°, display direction is changeable
- Reading in digit and analog
 Meet ASME B89.1.10-2001
- Button function: tolerance Go and No-Go display, data preset, measuring direction change, max./min./TIR measurement, inch/metric conversion, absolute/incremental measurement
- Keep preset data and tolerance data in memory after restart
- CR2032 battery, automatic power off
- Data output

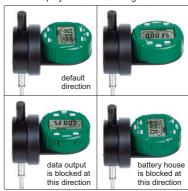
6

Optional accessory: data output cable (part no. 7306-40, 7302-SPC3A, 7305-SPC1A, 7305-C01), backs (page 46), contact points (page 45)

max./min./TIR



display direction is changeable



Remark: To change above direction, 4 fixing screws on the back of display need to be removed first.

display can rotate 320°



Part No.	EDP No.	Range	Resolution	Accuracy	Hysteresis	Remark
2118-10E	877132	.5"/12.7mm	.0005"/0.01mm	±.0015"	.0005"	flat back

PRECISION DIAL INDICATOR

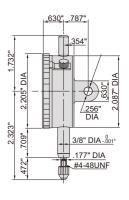


- Meet ASME B89.1.10M-2001
- Shockproof
- Jeweled bearing
- With lug back
- Supplied with limit pointers and bezel clamp
- Optional accessory: backs (page 46), contact points (page 45)



2315-05

Part No.	o. EDP No. Range Gr		Graduation	Accura	Accuracy		Dial
Fait No.	EDF NO.	ixange	Graduation	First 2.5 rev	Overall	Range/rev	reading
2315-05	282719	.05"	.0001"	±.0001"	±.0003"	.01"	0-100



6

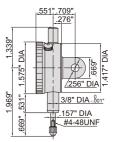


- Meet ASME B89.1.10M-2001
- With lug back
 Supplied with limit pointers and bezel clamp
- Optional accessory: backs (page 46), contact points (page 45)



2304-01

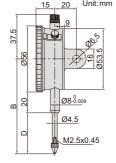
EDP No. Rang		Craduation	Accura	су	Pango/roy	Dial reading	
EDF NO.	ixaliye	Graduation	First 2.5 rev	Overall	Rangenev	Dialifeauling	
282699	.1"	.001"	_	±.001"	.1"	0-100	
282700	.2"	.001"	_	±.001"	.1"	0-100	
282701	.25"	.001"	±.001"	±.001"	.1"	0-100	
282702	.1"	.0005"	_	±.0005"	.05"	0-50	
282703	.2"	.0005"	±.0005"	±.0015"	.05"	0-50	
282704	.25"	.0005"	±.0005"	±.0015"	.05"	0-50	
	282700 282701 282702 282703	282699 .1" 282700 .2" 282701 .25" 282702 .1" 282703 .2"	282699 .1" .001" 282700 .2" .001" 282701 .25" .001" 282702 .1" .0005" 282703 .2" .0005"	EDP No. Range Graduation First 2.5 rev 282699	282699 .1" .001" — ±.001" 282700 .2" .001" — ±.001" 282701 .25" .001" ±.001" ±.001" 282702 .1" .0005" — ±.0005" 282703 .2" .0005" ±.0005" ±.0015"	EDP No. Range Graduation First 2.5 rev Overall Range/rev 282699 .1" .001" — ±.001" .1" 282700 .2" .001" — ±.001" .1" 282701 .25" .001" ±.001" ±.001" .1" 282702 .1" .0005" — ±.0005" .05" 282703 .2" .0005" ±.0005" ±.0015" .05"	



METRIC DIAL INDICATORS (LONG STROKE)



2310-30A

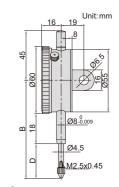


Part No.	EDP No.	Range	Graduation	Accuracy	Hysteresis	Range/rev	Dial reading	Remark	В	D
2310-30FA	282664	30mm	0.01mm	35µm	7µm	1mm	0-100	flat back	88	40
2310-30A	282665	30mm	0.01mm	35µm	7µm	1mm	0-100	lug back	88	40

METRIC DIAL INDICATOR (GRADUATION 0.1mm)



2318-25



										(,,,,,,,
Part No.	EDP No.	Range	Graduation	Accuracy	Hysteresis	Range/rev	Dial reading	Remark	В	D
2318-25	816164	25mm	0.1mm	60µm	20µm	10mm	0-10	lug back	85	35

DIAL INDICATORS

- Meet ASME B89.1.10M-2001
- Optional accessory: backs (page 46),



<	2.362" DIA	
ω	O	
-		

3/8" DIA -.801 177" DIA #4-48UNF

Range	Α	В	С	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"

-	IVICCE	/ CIVIL	D00.	1.10111	200
_	\\/ith	ua bac	al-		

With lug back

6

- Supplied with limit pointers and bezel clamp
- contact points (page 45)

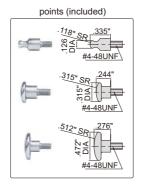
				Accuracy			Dial
DP No.	Range	Graduation	First 2.5 rev	Overall	Range/rev	reading	
82705	.25"	.001"	±.001"	±.001"	.1"	0-100	
16156	.5"	.001"	±.001"	±.002"	.1"	0-100	
16158	1"	.001"	±.001"	±.002"	.1"	0-100	
16160	2"	.001"	±.001"	±.004"	.1"	0-100	
82707	.25"	.0005"	±.0005"	±.0015"	.05"	0-50	
82708	.5"	.0005"	±.0005"	±.0015"	.05"	0-50	
82709	1"	.0005"	±.0005"	±.002"	.05"	0-50	
82710	2"	.0005"	±.0005"	±.002"	.05"	0-50	
3 1 1 3 3	2705 6156 6158 6160 2707 2708 2709	2705 .25" 6156 .5" 6158 1" 6160 2" 2707 .25" 2708 .5" 2709 1"	2705 .25" .001" 6156 .5" .001" 6158 1" .001" 6160 2" .001" 2707 .25" .0005" 2708 .5" .0005" 2709 1" .0005"	First 2.5 rev	First 2.5 rev Overall 2705 .25" .001" ±.001" ±.001" 6156 .5" .001" ±.001" ±.002" 6158 1" .001" ±.001" ±.002" 6160 2" .001" ±.001" ±.004" 2707 .25" .0005" ±.0005" ±.0015" 2708 .5" .0005" ±.0005" ±.0015" 2709 1" .0005" ±.0005" ±.002"	First 2.5 rev Overall	

BACK PLUNGER TYPE DIAL INDICATOR

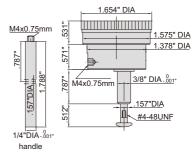
handle can be removed



- Supplied with handle
- Optional accessory: contact points (page 45)







Part No.	EDP No.	Range	Graduation	Accuracy	Hysteresis	Range/rev	Dial reading
2220 02	916271	2 "	001"	± 001"	00033"	4"	0.100

LARGE FACE DIAL INDICATORS

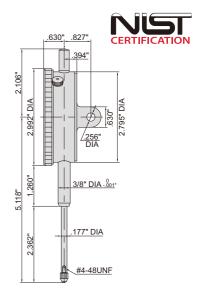
- Meet ASME B89.1.10M-2001
- With lug back
- Supplied with limit pointers and bezel clamp
- Optional accessory: contact points (page 45)



2312-15

Part No.	EDP No.	Range	Graduation	Accura	су	Range/rev	Dial
Fait No.	EDF NO.	Kange	Graduation	First 2.5 rev	Overall	Kangenev	reading
2312-15 *	282711	1.5"	.001"	±.001"	±.004"	.1"	0-100
2312-2	282712	2"	.001"	±.001"	±.004"	.1"	0-100

^{*}Supplied with manufacturer inspection certificate traceable to NIST



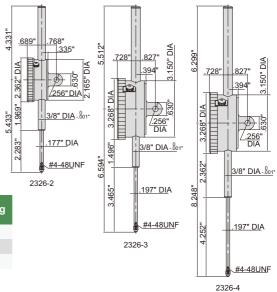
2326-2

- Graduation .001" With lug back
- Supplied with limit pointers and bezel clamp
- Optional accessory: backs (page 46), contact points (page 45)

Part No.	EDP No.	Range	Accu	racy	Range/rev	Dial reading
rait No.	EDF NO.	ixange	First 2.5 rev	Overall	Rangenev	Dialifeauling
2326-2	282715	2"	±.001"	±.004"	.1"	0-100
2326-3 *	282717	3"	±.001"	±.005"	.1"	0-100
2326-4 *	282718	4"	±.001"	±.005"	.1"	0-100

^{*2326-3} and 2326-4 can only be used vertically

LONG STROKE DIAL INDICATORS



DIAL INDICATOR ACCESSORIES

BALL POINT

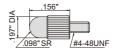


Part No.	EDP No.	Material of measuring face
6282-0102	282737	carbide
6282-0304	282769	carbide

SHELL TYPE POINT







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

FLAT POINT



6282-1207

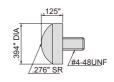


Part No.	EDP No.	Material of measuring face
6282-1207	282795	steel

SPHERICAL POINT



6282-0402

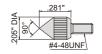


Part No.	EDP No.	Material of measuring face
6282-0402	282764	steel

CONICAL POINT



6282-0702

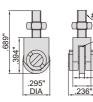


Part No.	EDP No.	Material of measuring face
6282-0702	282778	steel

ROLLER POINT



6282-1902



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

EXTENSION RODS

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

⋖	#4-48UNF	#4-48UNF
ā		
157	<i>uuunih</i>	.197"
•	1-4	-1



MAGNETIC BACKS

Part No.	EDP No.	D (DIA)	For electronic/ dial indicators
			2103
			2104
	877211	2.028"	2109
7331-M1			2112
7331-WH			2113
			2115
			2117
			2118
7331-M2	877212	2.126"	2307

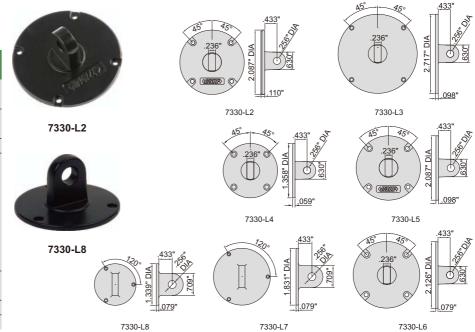




6

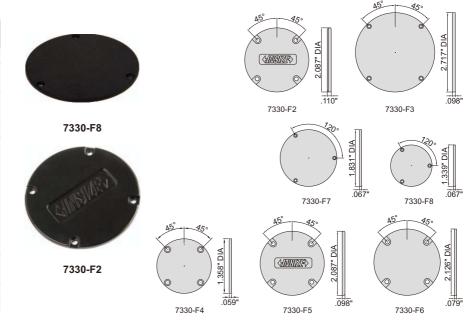
LUG BACKS

Part No.	EDP No.	For electronic/ dial indicators
7330-L2	282850	2324
7330-LZ	202030	2315
7330-L3	282851	2326-3
7330-L3	202031	2326-4
7330-L4	816645	2304
		2103
	816431	2104
		2109
7330-L5		2112
7330-L3		2113
		2115
		2117
		2118
7330-L6	877058	2307
/ 330-L0	011000	2326-2
7330-L7	816646	2837
7330-L8	816647	2832



FLAT BACKS

Part No.	EDP No.	For electronic/ dial indicators
7330-F1	282852	2311
7330-F2	282853	2324
7330-F2	202033	2315
7330-F3	282854	2326-3
	202034	2326-4
7330-F4	889333	2304
		2103
	877054	2104
		2109
7330-F5		2112
7330-13		2113
		2115
		2117
		2118
7330-F6	877056	2307
1330-го	077050	2326-2
7330-F7	816648	2837
7330-F8	816649	2832



6

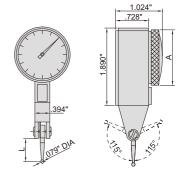




2380-31

DIAL TEST INDICATORS





Jeweled bearing

- Carbide contact point

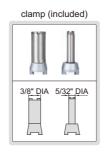
- Two measuring directions
 Anti magnetic body
 Supplied with two clamps: 5/32" DIA and 3/8" DIA
- Optional accessory: styli (page 49)

Part No.	EDP No.	Range	Graduation	Accuracy	Dial reading	Α	L
2380-31	282858	.03"	.001"	±.001"	0-15-0	1.181" DIA	.50"
2380-35	816170	.03"	.0005"	±.0005"	0-15-0	1.181" DIA	.50"
2380-301	816172	.008"	.0001"	±.0001"	0-40-0	1.181" DIA	.563"
2381-31	282859	.03"	.001"	±.001"	0-15-0	1.457" DIA	.50"
2381-35	282860	.03"	.0005"	±.0005"	0-15-0	1.457" DIA	.50"
2381-301	282861	.008"	.0001"	±.0001"	0-40-0	1.457" DIA	.563"

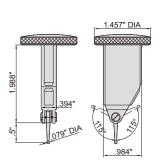
BACK PLUNGER TYPE DIAL TEST INDICATOR



- Carbide contact point
- Two measuring directions
- Anti magnetic body
 Supplied with two clamps: 5/32" DIA and 3/8" DIA
- Optional accessory: styli (page 49)







Part No.	EDP No.	Range	Graduation	Accuracy	Dial reading
2398-03	877156	.03"	.0005"	±.0005"	0-15-0

TILTED FACE TYPE DIAL TEST INDICATOR



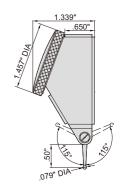
- Carbide contact point
- Two measuring directions
- Anti magnetic body
- Supplied with two clamps: 5/32" DIA and 3/8" DIA
- Optional accessory: styli (page 49)



2399-03

Part No.	EDP No.	Range	Graduation	Accuracy	Dial reading
2399-03	877157	.03"	.0005"	±.0005"	0-15-0





LONG STYLI DIAL TEST INDICATOR



2383-35A

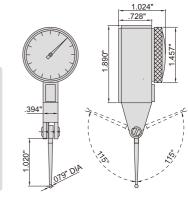


- Jeweled bearing
- Carbide contact point
- Two measuring directions
 Anti magnetic body

6

- Supplied with two clamps: 5/32" DIA and 3/8" DIA
- Optional accessory: styli (page 49)

clamp (included) 3/8" DIA 5/32" DIA



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

LONG RANGE DIAL TEST INDICATOR





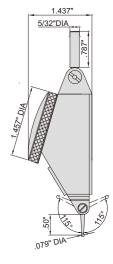


- Jeweled bearing
- Carbide contact point
 Two measuring directions
- Anti magnetic body
- Supplied with two clamps:
- 5/32" DIA and 3/8" DIA
 Optional accessory: styli (page 49)



2386-006A





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

LARGE RANGE BACK PLUNGER **TYPE DIAL TEST INDICATOR**

- Jeweled bearing
- Carbide contact point
- Two measuring directions
 Anti magnetic body
- Supplied with two clamps: 5/32" DIA and 3/8" DIA
- Optional accessory: styli (page 49)





Part No.	EDP No.	Range	Graduation	Accuracy	Dial reading
2480-06	877158	.06"	.0005"	±.0008"	0-15-0



CONTACT POINTS FOR DIAL TEST INDICATORS

Part No.	EDP No.	For dial test indicator	Material of contact point	L	D
6284-9	876268	2380-31,2380-35,	steel	.50"	.039" DIA
6284-10	285265	2381-31, 2381-35,	carbide	.50"	.079" DIA
6284-11	816409	2398-03,	ruby	.50"	.079" DIA
6284-12	816410	2399-03	carbide	.50"	.118" DIA
6284-13	816411		steel	.563"	.039" DIA
6284-14	816412	2380-301,	carbide	.563"	.079" DIA
6284-15	816413	2381-301	ruby	.563"	.079" DIA
6284-16	816414		carbide	.563"	.118" DIA
6284-17	816373		steel	1.020"	.039" DIA
6284-18	816374	2383-35A	carbide	1.020"	.079" DIA
6284-19	816375	2303-33A	ruby	1.020"	.079" DIA
6284-20	816376		carbide	1.020"	.118" DIA
6284-65	816377		steel	.50"	.039" DIA
6284-66	816378	2386-006A,	carbide	.50"	.079" DIA
6284-67	816379	2480-06	ruby	.50"	.079" DIA
6284-68	816380		carbide	.50"	.118" DIA





DIAL TEST INDICATOR HOLDERS



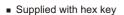


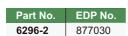




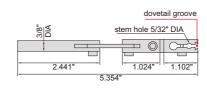
Part No.	EDP No.	Stem section (BxC)	Stem length (L)
6293-7	816416	.354x.354"	2"
6293-3	282878	.25x.5"	4"

DIAL TEST INDICATOR HOLDER





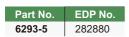






DIAL TEST INDICATOR UNIVERSAL HOLDER

 Set the indicators at the desired attitude to the workpiece





6293-5

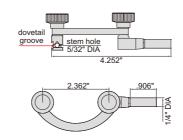
dovetail groove



DIAL TEST INDICATOR CENTERING HOLDER

 Center cylinders or holes on machine tools







Part No. EDP No. 6291-2 282875

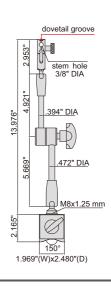
6

UNIVERSAL MAGNETIC STAND (LIGHT DUTY)

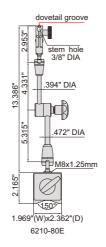
■ For electronic/dial indicators and dial test indicators

Part No.	EDP No.	Magnetic force	Applicable holding stem	Remark
6208-80E	816256	176lbf	3/8" DIA	with fine adjustment and dovetail groove





UNIVERSAL MAGNETIC STAND





6210-80E

■ For electronic/dial indicators and dial test indicators

Part No.	EDP No.	Magnetic force	Applicable holding stem	Remark
6210-80E	877028	176lbf	3/8" DIA	with fine adjustment and dovetail groove



MAGNETIC STANDS



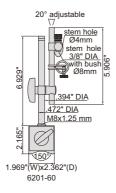


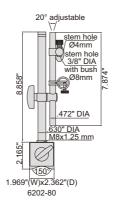


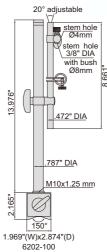


6202-100

6202-80







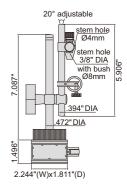
■ For electronic/dial indicators and dial test indicators

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

MAGNETIC STAND FOR UNEVEN SURFACE

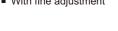


OMBITES .
6215-60



For electronic/dial indicators
and dial test indicators

With fine adjustment



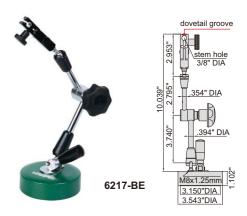
Part No.	EDP No.	Magnetic force	Applicable holding stem
6215-60	282893	132lbf	3/8" DIA, Ø8mm, Ø4mm

shape or contour

VACUUM STAND

- Suitable for granite surface plates or cast iron surface plates
- For electronic/dial indicators and dial test indicators

Part No.	EDP No.	Diameter of vacuum disc	Vacuum force	Applicable holding stem	Remark
6217-BE	877190	3.150" DIA	176lbf	3/8" DIA	with fine adjustment and dovetail groove

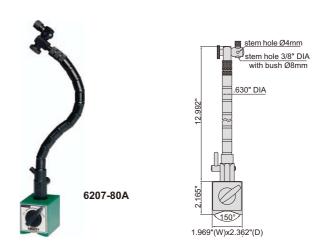


FLEX ARM MAGNETIC STAND

■ For dial test indicators

6

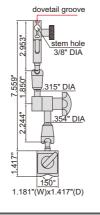
Part No.	EDP No.	Magnetic force	Applicable holding stem
6207-80A	282892	176lbf	3/8" DIA, Ø8mm, Ø4mm



MINI MAGNETIC STAND

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

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

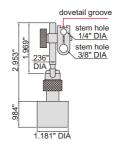




MINI MAGNETIC STAND

- For dial test indicators
- With dovetail groove

Part No.	EDP No.	Magnetic force	Applicable holding stem
6211-10E	877189	22lbf	1/4" DIA, 3/8" DIA

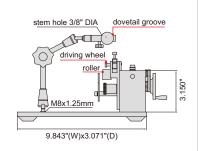




6211-10E

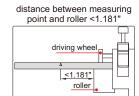
CONCENTRICITY GAGE





- Accuracy .00008"
 Optional accessory: dial test indicator, mini magnetic stand (part no. 6224-40E)

Part No.	EDP No.	Applicable diameter
4789-1E	877169	.138" DIA~.984" DIA





SPC KEYBOARD OUTPUT CABLES





7302-SPC3A





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



Part No.	EDP No.	Description	Plug to product	Socket on product	Plug to computer	Applicable products		
7302-SPC5A	816385	cable for electronic calipers (length 100")				for electronic calipers for electronic height gages depth gages		
7302-SPC6	877207	cable for electronic micrometers (length 100")			USB	for electronic micrometers for electronic three points internal micrometers		
7302-SPC3A	877042	cable for electronic indicators (length 100")				for electronic indicators for electronic protractors		
7304-2	877046	foot switch with cab	le (length 60	")	1			
7302-HUB	877261	HUB converter (leng	gth 12", four	USB ports to c	computer)			

* AINSIZE

MEASURING DATA MANAGEMENT SOFTWARE

INSPECTION

COMPUTER

DATABASE COMPUTER

Make measurement program of inspection computers (set the dimension and tolerance to be measured of each inspection computer)









INSPECTION





INSPECTION COMPUTER

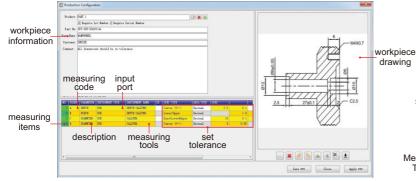
- Inspection computers are connected with database computer by wire or wireless LAN (Local Area Network). Maximum 128 inspection computers can be connected with one database computer.
- Measuring tools are connected by data output cable or wireless data transfer system to USB port of inspection computers. Several measuring tools can be connected to one inspection computer.



SOFTWARE FOR DATABASE COMPUTER PART NO. 7311-1

Part No. EDP No. 877209

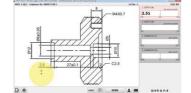
make measurement program



Make measurement program for each one inspection computer. Maximum 200 dimensions can be measured by one inspection computer.

SOFTWARE FOR INSPECTION COMPUTER PART NO. 7311-2

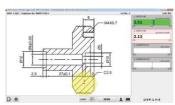
Part No.	EDP No.
7311-2	877210



step 1

step 2

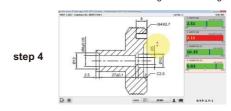
Measure the 1st dimension by following the yellow position indication.



Measure the 2nd dimension by following the yellow position indication. The 1st data will be shown in red or green according its tolerance.

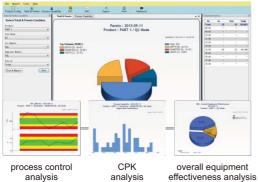
step 3

Measure the 3rd dimension by following the yellow position indication. The 2nd data will be shown in red or green according its tolerance.



Measure the 4th dimension by following the yellow position indication. The 3rd data will be shown in red or green according its tolerance. The data of four measurements will be sent to the database computer.

make data statistics



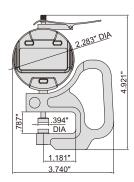
| Marriary | Marriary

report

ELECTRONIC THICKNESS GAGES



- Ceramic spindle tip and anvil
- Buttons: on/off, zero, inch/mm
- Battery CR2032, automatic power off
- Data output
- Optional accessory: data output cable (part no. 7306-40, 7302-SPC3A, 7305-SPC1A, 7305-C01)

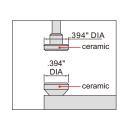


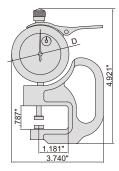


2871-101

Part No.	EDP No.	Range	Resolution	Accuracy
2871-10	877162	04"/0-10mm	.0005"/0.01mm	±.0008"
2871-101	877163	04"/0-10mm	.00005"/0.001mm	±.0002"

THICKNESS GAGE





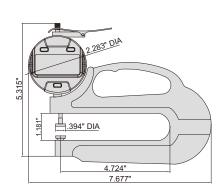


Part No.	EDP No.	Range	Graduation	Accuracy	D
2364-055	876312	05"	.0005"	±.0008"	2.283" DIA

2364-055

ELECTRONIC THICKNESS GAGE

- Ceramic spindle tip and anvil
- Buttons: on/off, zero, inch/mm
- Battery CR2032
 Automatic power off
- Data output
- Optional accessory: data output cable (part no. 7306-40, 7302-SPC3A, 7305-SPC1A, 7305-C01)





2872-1	0
--------	---

Part No.	EDP No.	Range	Resolution	Accuracy
2872-10	877164	04"/0-10mm	.0005"/0.01mm	±.0008"

DIAL SNAP GAGE

- Go/No-Go judgement for mass production
- Dial indicator: range ±.0015", graduation .00005", accuracy .00004"
- IP54 dust/coolant proof
- Measuring force: 1.125-2.25lbf
- Carbide measuring facesSupplied with setting standard



Part No.	EDP No.	Range	L	D
3334-4	281839	3-4"	4.075"	2.362"

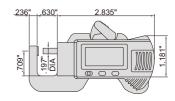
ELECTRONIC SNAP GAGE



(IP54)

Optional accessory: data output cable (part no. 7306-20, 7302-SPC1A/SPC1B, 7305-SPC2)





394" DIA

2166-12

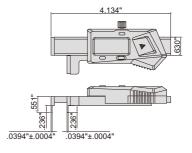
Part No.	EDP No.	Range	Resolution	Accuracy
2166-12	283197	05"/0-12mm	.0005"/0.01mm	±.0012"

STEP AND GAP GAGE









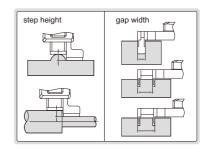
2168-12

- Measure step height and gap width
- 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
- Supplied with zero setting block
- Optional accessory: data output cable (part no. 7306-20, 7302-SPC5A/SPC5B, 7305-SPC2A, 7305-A01/A02)

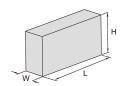
Part No.	EDP No.	Range	Accuracy
2168-12	877152	05"/0-12.7mm	±.0012"

zero setting block (included)





STEEL GAGE BLOCK SETS



Dimension:						
Size (L)	W	Н				
.02≤L≤.394"	.354"	1.181"				
L>.394"	.354"	1.378"				

Blocks	Gage blo	ocks included	Gra	de 0	Grade AS-2		
per set	Size (inch)	Step (inch)	Quantity	Part No.	EDP No.	Part No.	EDP No.
	.05		1				
	.10011009	.0001	9				
	.101109	.001	9				
36	.1119	.01	9	4102-36	283257	4102-236	283259
30	.15	.1	5	4102-30			
	1		1				
	2		1				
	4		1				
	.10011009	.0001	9				
81	.101149	.101149 .001		4102-81	283260	4102-281	283262
01	.0595	.05	19	-+102-01	203200	4102-201	203202
	1-4	1	4				



4102-81

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

METRIC THREAD PLUG GAGES



■ Class 6H

■ Standard ISO1502



4130-10

		(mm)		
Part No.	EDP No.	Size	Part No.	EDP
4130-2	284053	M2x0.4	4130-7	8166
4130-2D2	284054	M2.2x0.45	4130-8	2840
4130-2D5	284055	M2.5x0.45	4130-9	8166
4130-3	284056	M3x0.5	4130-10	2840
4130-3D5	284057	M3.5x0.6	4130-11	8166
4130-4	284058	M4x0.7	4130-12	2840
4130-5	284059	M5x0.8	4130-14	2840
4130-6	284060	M6x1	4130-16	2840

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

(mm)

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

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

AMERICAN STANDARD THREAD PLUG GAGES



4131-102

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

Part No.	EDP No.	Size
4131-41	816651	4-40UNC
4131-61	816652	6-32UNC
4131-81	816653	8-32UNC
4131-102	816654	10-32UNF
4131-1B1	816655	1/4-20UNC
4131-1B2	816656	1/4-28UNF
4131-5D1	816657	5/16-18UNC
4131-5D2	816658	5/16-24UNF
4131-3C1	816659	3/8-16UNC

Part No.	EDP No.	Size
4131-1A2	816663	1/2-20UNF
4131-9D2	816664	9/16-18UNF
4131-5C1	816665	5/8-11UNC
4131-5C2	816666	5/8-18UNF
4131-3B1	816667	3/4-10UNC
4131-3B2	816668	3/4-16UNF
4131-3C2	816660	3/8-24UNF
4131-7D2	816661	7/16-20UNF
4131-1A1	816662	1/2-13UNC

NPT THREAD PLUG GAGES





4644-1B18

- American tapered pipe thread for threads with sealant
- Standard ANSI/ASME B1.20.1
- Taper 1:16

9

10

- Material: OHNS (Oil Hardened Non-shrinking Steel), stable dimension and wear resistance

 Hardness HRC60-62

Part No.	EDP No.	Size
4644-3B14	816674	3/4-14NPT
4644-112	816675	1-11.5NPT
4644-1G12	816676	11/4-11.5NPT
4644-1H12	816677	1½-11.5NPT
4644-212	816678	2-11.5NPT
4644-1J8	816679	21/2-8NPT

Part No.	EDP No.	Size
4644-1D27	816669	1/16-27NPT
4644-1C27	816670	1/ ₈ -27NPT
4644-1B18	816671	1⁄4-18NPT
4644-3C18	816672	%-18NPT
4644-1A14	816673	½-14NPT

AMERICAN STANDARD THREAD RING GAGES



Part No. (GO)	EDP No.	Part No. (NOGO)	EDP No.	Size
Fait No. (GO)	EDP NO.	Part No. (NOGO)	EDP NO.	Size
4121-41	284272	4121-41N	284340	4-40UNC
4121-61	284276	4121-61N	284344	6-32UNC
4121-81	284278	4121-81N	284346	8-32UNC
4121-102	284281	4121-102N	284349	10-32UNF
4121-1B1	284285	4121-1B1N	284353	1/4-20UNC
4121-1B2	284286	4121-1B2N	284354	1/4-28UNF
4121-5D1	284288	4121-5D1N	284356	5/16-18UNC
4121-5D2	284289	4121-5D2N	284357	5/16-24UNF
4121-3C1	284291	4121-3C1N	284359	3/8-16UNC

Part No. (GO)	EDP No.	Part No. (NOGO)	EDP No.	Size
4121-3C2	284292	4121-3C2N	284360	3/8-24UNF
4121-7D2	284295	4121-7D2N	284363	7/16-20UNF
4121-1A1	284297	4121-1A1N	284365	1/2-13UNC
4121-1A2	284298	4121-1A2N	284366	1/2-20UNF
4121-9D2	284301	4121-9D2N	284369	9/16-18UNF
4121-5C1	284303	4121-5C1N	284371	5/8-11UNC
4121-5C2	284304	4121-5C2N	284372	5/8-18UNF
4121-3B1	284307	4121-3B1N	284375	3/4-10UNC
4121-3B2	284308	4121-3B2N	284376	3/4-16UNF



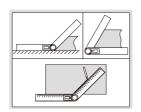




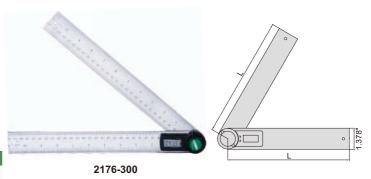
- Class 2A
- Standard ANSI B1.2

ELECTRONIC PROTRACTORS

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

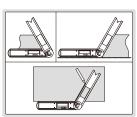


Part No.	EDP No.	Size (L)	Range	Resolution	Accuracy
2176-200	877018	8"	0-360°	0.1°	±0.3°
2176-300	877107	12"	0-360°	0.1°	±0.3°

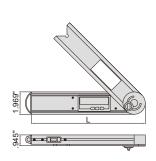


ELECTRONIC PROTRACTOR









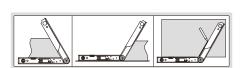
2171-250

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

Part No.	EDP No.	Size (L)	Range	Resolution	Accuracy
2171-250	877106	10"	0-360°	0.05°	±0.15°

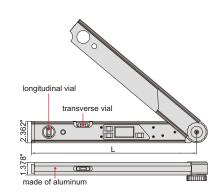


COOLANT PROOF ELECTRONIC PROTRACTOR (HEAVY DUTY)



- Suitable for setting horizontal and vertical
- mitre angles of cutting machine ■ Buttons: ON/OFF, HOLD/SUP, SPR/CNR/MTR/BVL
- IP54 dust/coolant proof
- With transverse and longitudinal vials
- 2xAAA batteries
- Automatic backlight
- Absolute level, zero setting is not needed when batteries are replaced
- Backlight turns off in one minute after no data changing, automatic power off in 5 minutes





Part No.	EDP No.	Size (L)	Range	Resolution	Accuracy
2174-225	877153	18.11"	0-225°	0.05°	±0.10°

PROTRACTOR



4780-85

5.906 7.835"

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

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

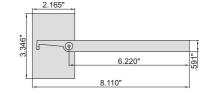
PROTRACTOR

4 working edges



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



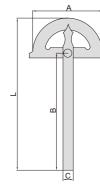


Part No.	EDP No.	Range	Graduation	Accuracy
4781-85	877168	0-180°	1°	±0.3°

PROTRACTORS

- Graduation: 1°
- Made of stainless steel (4799-1300 is made of carbon steel)
- Satin chrome plated scale
 With clamping screw

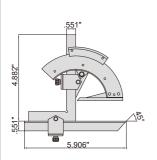




Part No.	EDP No.	Size (AxB)	Range	Accuracy	L	С
4799-180	283329	3.1x4.7"	0-180°	±0.3°	6.614"	. 433"
4799-1120	283330	4.7x5.9"	0-180°	±0.3°	8.661"	.551"
4799-1150	283331	5.9x7.9"	0-180°	±0.3°	11.220"	.630"
4799-1200	283332	7.9x11.8"	0-180°	±0.3°	16.260"	.787"
4799-1300	283333	11.8x19.7"	0-180°	±0.3°	26.575"	1.181"

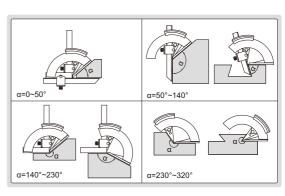
PROTRACTOR

10



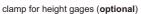
- Made of stainless steel
- Satin chrome plated scale





Range Graduation Part No. EDP No. Accuracy 2374-320 283340 0-320°

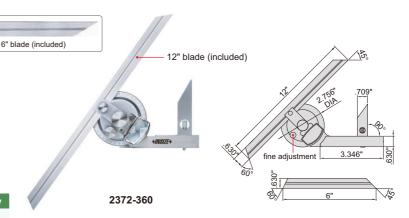
UNIVERSAL PROTRACTOR



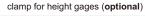


- Parallax-free reading
- Made of stainless steel
 Optional accessory: clamp (part no. 2372-CLAMP), suitable for height gages 1156, 1351 and 1250

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



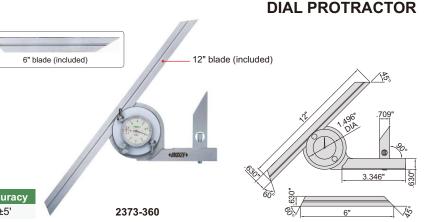




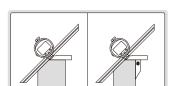


- Made of stainless steel
- Optional accessory: clamp (part no. 2372-CLAMP), suitable for height gages 1156, 1351 and 1250

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







- Display in degree (for example 32.655°) and degree/minute/second (for example 32°39'30")
- SET button: preset the reading, change measuring direction
 MODE button: choose 0~90°, 0~180° or 0~360° display
 ZERO/ON/OFF button: zero and power on/off

- Battery CR2032, automatic power off
- Data output
- Supplied with square to set 90°
 Made of stainless steel
- Optional accessory: data output cable (part no. 7306-40, 7302-SPC3A, 7305-SPC1A, 7305-C01), clamp (part no. 2372-CLAMP), suitable for height gages 1156, 1351 and 1250

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

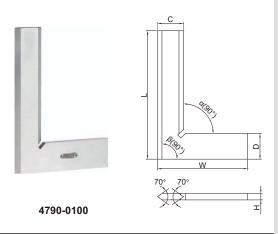
6" blade (included) 12" blade (included) square (included) 2172-360A clamp for height gages (optional) 2372-CLAMP

90° BEVELED EDGE SQUARES

ELECTRONIC PROTRACTOR

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

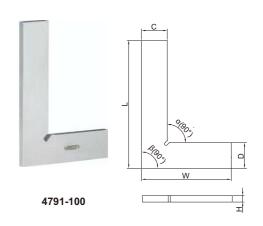
Part No.	EDP No.	Size	Size Squareness		С	D	н
Part NO.	EDP NO.	(LxW)	Inside (α)	Outside (β)		, D	-
4790-050	816300	2.0x1.6"	94µin	98µin	. 512"	. 512"	. 157"
4790-075	816302	3.0x2.0"	102µin	110µin	.591"	.591"	.157"
4790-0100	816304	3.9x2.8"	110µin	118µin	.787"	.787"	.197"
4790-0150	816306	5.9x3.9"	126µin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



90° FLAT EDGE SQUARES

- DIN875 grade 0Made of hardened stainless steel

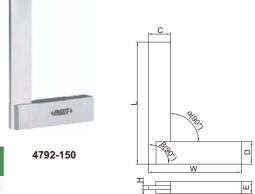
Part No.	lo. EDP No. S	Size (LxW)	Squa	reness	С	D	Н
Part No.		SIZE (LXVV)	Inside (α)	Outside (β)		, D	- "
4791-50	816312	2.0x1.6"	236µin	236µin	.591"	.591"	.157"
4791-75	816314	3.0x2.0"	236µin	276µin	.591"	.591"	.157"
4791-100	816316	3.9x2.8"	276µin	276µin	.787"	.787"	.197"
4791-150	816318	5.9x3.9"	276µin	315µin	1.181"	1.181"	.236"
4791-200	816320	7.9x5.1"	315µin	354µin	1.181"	1.181"	.276"
4791-250	283375	9.8x6.5"	354µin	394µin	1.378"	1.378"	.276"
4791-300	816322	11.8x7.9"	394µin	433µin	1.575"	1.575"	.315"



90° FLAT EDGE SQUARES WITH WIDE BASE

■ DIN875 grade 0

■ Made of hardened stainless steel

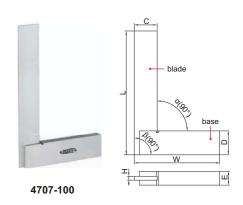


Dort No.	EDD No	Size (Lv/M)	Squareness			_	н	_
Part No.	EDP NO.	Size (LxW)	Inside (α)	Outside (β)		D	П	
4792-150	283391	5.9x3.9"	315µin	315µin	.866"	.866"	.157"	.472"

MACHINIST SQUARES WITH WIDE BASE

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

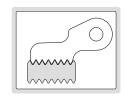
Part No.	EDP No.	Size (LxW)	Squa	reness	С	D	н	Е
Part No.	EDP NO.	Size (LXVV)	Inside (α)	Outside (β)	١	D		-
4707-50	283490	2.0x1.6"	.95mil	.98mil	.630"	.472"	.118"	.354"
4707-75	283491	3.0x2.0"	1.02mil	1.10mil	.630"	.630"	.118"	.354"
4707-100	283492	3.9x2.8"	1.10mil	1.18mil	.748"	.748"	.118"	.472"
4707-150	283493	6x4"	1.30mil	1.38mil	.984"	.984"	.118"	.630"
4707-200	283494	8x5"	1.46mil	1.58mil	1.181"	1.260"	.157"	.630"
4707-250	283495	10x6"	1.65mil	1.77mil	1.181"	1.260"	.157"	.748"
4707-300	283496	12x8"	1.85mil	1.97mil	1.260"	1.260"	.157"	.748"
4707-400	283497	16x10"	2.21mil	2.36mil	1.496"	1.496"	.197"	.866"
4707-500	283498	20x12"	2.56mil	2.76mil	1.772"	1.969"	.236"	.984"
4707-600	877026	24x14"	2.95mil	3.15mil	1.969"	1.969"	.236"	1.181"



PITCH GAGES

- Check the pitch of screw threadAccuracy: ±0.07mm
- Made of medium carbon steel





4820-122

Metric 60° and Whitworth 55° screw

Part No.	EDP No.	Range	Pitch of leaves included	Quantity of leaves
4820-452	283556	0.25-6.0mm	0.25, 0.3, 0.35, 0.4, 0.45, 0.5, 0.6, 0.7, 0.75, 0.8, 0.9, 1, 1.25, 1.5, 1.75, 2, 2.5, 3, 3.5, 4, 4.5, 5, 5.5, 6mm	52
4620-432	203330	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	52

Metric 60° and Unified 60° screw

Part No.	EDP No.	Range	Pitch of leaves included	Quantity of leaves
4820-552	816695	0.4-7.0mm	0.4, 0.5, 0.6, 0.7, 0.75, 0.8, 0.9, 1, 1.25, 1.5, 1.75, 2, 2.5, 3, 3.5, 4, 4.5, 5, 5.5, 6, 6.5, 7mm	52
4020-332		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	

Unified 60° screw

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

Metric 60° screw

Part No.	EDP No.	Range	Pitch of leaves included	Quantity of leaves
4820-122	283550	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

Part 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



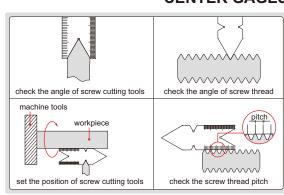
4810-602

- To check and set screw cutting tools, and check the angle and pitch of screw thread

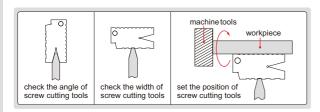
 Angle accuracy: ±30min.

Made of stain				
Part No.	EDP No.	Thread type	Angle (α)	Graduation
4810-602	283560	UNIFIED 60°	60°	14ths and 20ths on front side, 24ths and 32ths on back side
4810-601	283559	METRIC 60°	60°	0.5mm and 1mm
4810-55	283561	WHITWORTH 55°	55°	14ths and 20ths on front side, 24ths and 32ths on back side

CENTER GAGES



THREAD GAGE

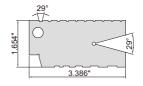


- To check and set screw cutting tools
- Angle accuracy: ±10min.
 Made of medium carbon steel

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



4812-E

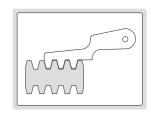


PITCH GAGES

- Check the pitch of screw thread
- Accuracy: ±.0028"
- Made of medium carbon steel

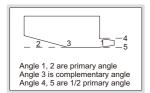


4824-12

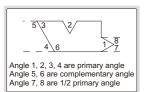


Part No.	EDP No.	Range	Thread type	Pitch of leaves included	Quantity of leaves
4824-16	283549	1-12TPI	ACME 29°	1, 1-1/3, 1-1/2, 1-3/4, 2, 2-1/2, 3, 3-1/2, 4, 5, 6, 7, 8, 9, 10, 12TPI	16
4824-12	283548	2-20mm	Tr30°	2, 3, 4, 5, 6, 7, 8, 9, 10, 12, 16, 20mm	12

ANGLE GAGE SET



type A



type B

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

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



4807

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



RADIUS GAGES

■ Made of medium carbon steel



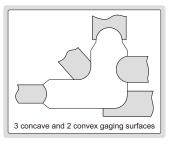
4801-15E

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

RADIUS GAGE SETS

- Each piece has 3 concave and 2 convex gauging surfaces
 Made of medium carbon steel



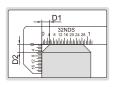


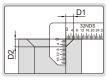
Part No.	EDP No.	Range	Radius of leaves included	Quantity of leaves	Accuracy	Handle
4804-25E	816198	1/64"~1/2"	1/64", 1/32", 3/64", 1/16", 5/64", 3/32", 7/64", 1/8", 9/64", 5/32", 11/64", 3/16", 13/64", 7/32", 15/64", 1/4", 17/64", 9/32", 5/16", 11/32", 3/8", 13/32", 7/16", 15/32", 1/2"	25	±.002"	with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



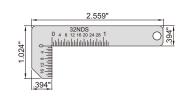
4804-26

CHAMFER GAGE









■ To measure internal and external chamfers

■ Made of stainless steel

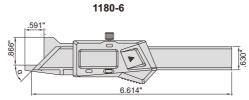
Part No.	EDP No.	Graduation	Accuracy
4844-1E	877174	1/32"	±.01"

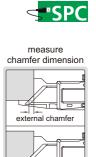
ELECTRONIC CHAMFER GAGE

- Measure 45° chamfer dimension
- Resolution .0005"/0.01mm
- Buttons: on/off, zero, inch/mm
- Automatic power off, move the digital unit to turn on power
- Battery CR2032, data output
- Made of stainless steel
- Optional accessory: data output cable (part no. 7306-20, 7302-SPC5A/SPC5B, 7305-SPC2A, 7305-A01/A02)

Part No. EDP No.		Range	Accuracy	Chamfer (α)	
1180-6	816370	039"/0-10mm	±.0025"	45°	





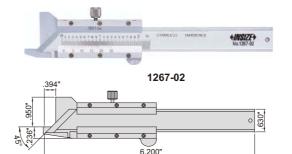


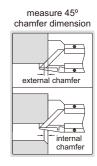
internal chamfer

CHAMFER GAGE

- Measure 45° chamfer dimension
- Graduation .001"
- Made of stainless steel
- Satin chrome plated reading surface

	Part No.	EDP No.	Range	Accuracy
i	1267-02	877127	02"	±.003"





3.780

2.953

44

FEELER GAGE

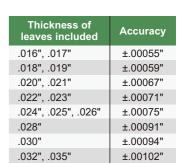


4608-31

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

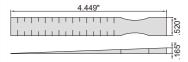
Part No.	EDP No.	Range	Quantity of Leaves
4608-31	283543	.0015"~.035"	32

Thickness of leaves included	Accuracy
.010" (brass)	±.00039"
.0015", .002"	±.0002"
.0025", .003", .004", .005", .006", .007"	±.00028"
.008", .009"	±.00035"
.010", .011"	±.00039"
.012", .013"	±.00047"
.014", .015"	±.00051"



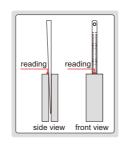
6.772'

TAPER GAGE



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

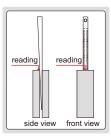
Part No.	EDP No.	Range	Graduation	Accuracy
4630-1E	283577	.0115"	.001"	±.003"







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

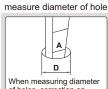


							(mm)
			Graduation				
4630-1	283576	0.5-10mm	0.05mm	±0.07mm	220	10	10.5

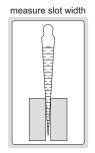
TAPER GAGE 4630-1

■ Measure opening, slot width, hole diameter, etc.

- Diameter correction table on the back
- Made of stainless steel

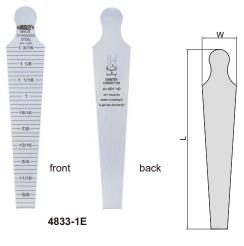


When measuring diameter of holes, correction on reading is needed due to the thickness of taper gage. For example, when reading A is 5/8", diameter D is 5/8" + .001".

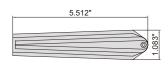


Part No.	EDP No.	Range	Graduation	Accuracy	L	W
4833-1E	877263	1/32~5/8"	1/64"	±.004"	5.748"	.669"
						(mm)
Part No.	EDP No.	Range	Graduation	Accuracy	L	W
4833-1	285112	0.8-15mm	0.1mm	±0.1mm	146	17

TAPER GAGES



- Graduation: 1/64"
- Include 4 pcs (1/16~5/16", 21/64~9/16", 37/64~13/16", 53/64~1-1/16")
- Measure opening, slot width, hole diameter, etc.
- Diameter correction table on the back
- Made of stainless steel



Part No.	EDP No.	Range	Accuracy
4837-1E	877172	1/16~1-1/16"	±.004"



front 4837-1E



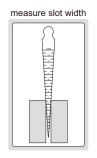
back

TAPER GAGE SET

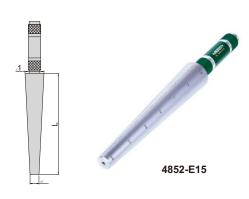
measure diameter of hole



When measuring diameter of holes, correction on reading is needed due to the thickness of taper gage. For example, when reading A is 1/16", diameter D is 1/16" + .014".



TAPER BORE GAGES

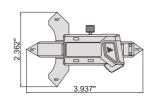


- Quick measurement of bore diameter
- Hardened steel, HRC50-58
- Satin chrome plated surface
- Aluminium oxided handle

Part No.	EDP No.	Range	Graduation	Accuracy	L	d1	d2
4852-E15	877175	.6-1.2"	.005"	±.0025"	6.496"	1.220" DIA	.579" DIA
4852-E30	877176	1.2-1.8"	.005"	±.0025"	6.496"	1.811" DIA	1.165" DIA

ELECTRONIC WELDING GAGE

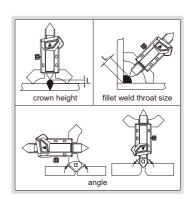
- Buttons: zero, inch/mm, on/off
- Battery LR44
 Made of stainless steel





4831-20A

Part No.	EDP No.	Measurement	Range	Resolution	Accuracy
	877170	crown height	04"/0-7mm	.0005"/0.01mm	±.0012"
4831-20A		fillet weld throat size	08"/0-20mm	.0005"/0.01mm	±.0039"
		angle	60°, 70°, 80°, 90°	_	±1°



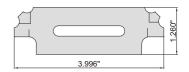
FILLET WELDING GAGES

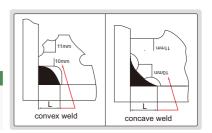
- Measure concave and convex weld sizes
- 7 blades are included
- Made of stainless steel



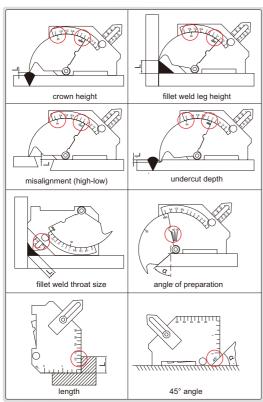


Part No.	EDP No.	Size	Accuracy
4836-2	877171	1/8" (3.2mm), 3/16" (4.8mm), 1/4" (6.4mm), 5/16" (7.9mm), 3/8" (9.5mm), 7/16" (11.1mm), 1/2" (12.7mm), 5/8" (15.9mm), 3/4" (19.1mm), 7/8" (22.2mm), 1" (25.4mm)	±.02" (0.5mm)





WELDING GAGE







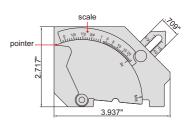
front

4835-1

back

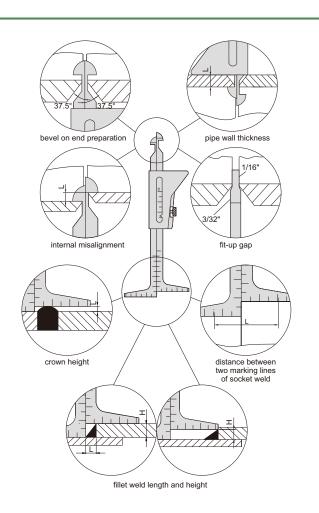
- Adjustable scale to compensate pointer wear

 Made of stainless steel



	Part No.	EDP No.	Measurement	Range	Graduation	Accuracy
$\left\{ \right.$			crown height	0-1" (0-25mm)	1/16" (1mm)	±.02"
			fillet weld leg height	0-1" (0-25mm)	1/16" (1mm)	±.02"
	4835-1 877031		misalignment (high-low)	0-1" (0-25mm)	1/16" (1mm)	±.02"
		877031	undercut depth	0-1/8" (0-2mm)	1/16" (1mm)	±.02"
	4033-1	011031	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"
J			45° angle	_	_	±1°

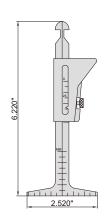




PIPE WELDING GAGE



4839-1

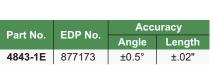




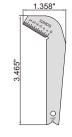
Part No.	EDP No.	Measurement	Range	Graduation	Accuracy
		bevel on end preparation	37.5°	_	±1°
		pipe wall thickness	0~1-3/4" (0-45mm)	1/16" (1mm)	±.02"
		internal misalignment	0~1-3/8" (0-35mm)	1/32" (1mm)	±.02"
		fit-up gap	1/16", 3/32"		±.004"
4839-1	877032	crown height	0~1-3/8" (0-35mm)	1/32" (1mm)	±.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"

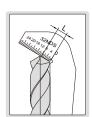
DRILL POINT GAGE

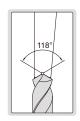
- For twist drills with 118° angle, to check if the center of tip is concentric with the drill body
- Made of stainless steel







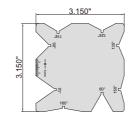


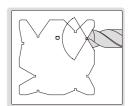


DRILL ANGLE GAGE

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



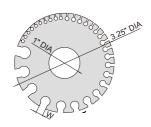




Part No.	EDP No.	Accuracy
4842-1	816683	±0.5°

4842-1

AMERICAN STANDARD WIRE GAGE





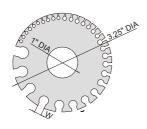
4808

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

Part No.	EDP No.	Range
4808	283574	0-36 (.32490050")

No.	w	No.	w	No.	W
0	.3249"	13	.0720"	26	.0159"
1	.2893"	14	.0641"	27	.0142"
2	.2576"	15	.0571"	28	.0126"
3	.2294"	16	.0508"	29	.0113"
4	.2043"	17	.0453"	30	.0100"
5	.1819"	18	.0403"	31	.0089"
6	.1620"	19	.0359"	32	.0080"
7	.1443"	20	.0320"	33	.0071"
8	.1285"	21	.0285"	34	.0063"
9	.1144"	22	.0253"	35	.0056"
10	.1019"	23	.0226"	36	.0050"
11	.0907"	24	.0201"		
12	.0808"	25	.0179"		

AMERICAN STANDARD SHEET METAL GAGE





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

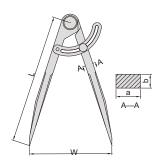
Part No.	EDP No.	Range
4809	283575	0-36 (.31250070")

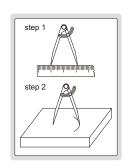
W	No.	W
.3125"	13	.0938"
.2813"	14	.0781"
.2656"	15	.0703"
.2500"	16	.0625"
.2344"	17	.0563"
.2188"	18	.0500"
.2031"	19	.0438"
.1875"	20	.0375"
.1719"	21	.0344"
.1563"	22	.0313"
.1406"	23	.0281"
.1250"	24	.0250"
.1094"	25	.0219"
	.3125" .2813" .2656" .2500" .2344" .2188" .2031" .1875" .1719" .1563" .1406" .1250"	.3125" 13 .2813" 14 .2656" 15 .2500" 16 .2344" 17 .2188" 18 .2031" 19 .1875" 20 .1719" 21 .1563" 22 .1406" 23 .1250" 24

No.	w
26	.0188"
27	.0172"
28	.0156"
29	.0141"
30	.0125"
31	.0109"
32	.0102"
33	.0094"
34	.0086"
35	.0078"
36	.0070"

DIVIDERS







■ Made of carbon steel Hardened points

7247-150

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

RIGID RULES



back

4R graduationMade of stainless steel ■ Non-glare surface

7126-6

Part No.	EDP No.	Range (L)	Graduation	Accuracy	W	Т
7126-6	877203	6"	1/64" and 1/32" on front face, 1/16" and 1/8" on back face	±.003"	.748"	.039"
7126-12	877201	12"	1/64" and 1/32" on front face, 1/16" and 1/8" on back face	±.004"	.984"	.039"
7126-24	877202	24"	1/64" and 1/32" on front face, 1/16" and 1/8" on back face	±.006"	1.102"	.047"
7 120-24	011202	24	1704 and 1702 off front face, 1710 and 170 off back face	±.000	1.102	.047

RIGID RULE



7113-300A

- Rigid rules
- With groove on the back, suitable for combination square set (2278 series)
 Satin chrome plated

	<u> </u>	087"
984"		.079"
<u></u>))	



groove on the back

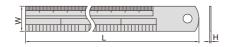
Part No.	EDP No.	Pango	Graduation		Accuracy	
Part No. EDF	EDF NO.	No. Range	front	back	Accuracy	_
7113-300A	283606	12"/300mm	1/32" and 0.5mm	1/64" and 1mm	±.006"	12"

STEEL RULES

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

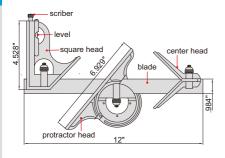


7110-300



Part No.	EDP No.	Range	Accuracy	L	W	Н	Remark
7110-150	283596	6"/150mm	±.006"	6.693"	.709"	.039"	graduation on front and back
7110-200	283597	8"/200mm	±.006"	8.661"	.709"	.039"	graduation on front and back
7110-300	283598	12"/300mm	±.006"	12.992"	.984"	.039"	graduation on front and back
7110-3001	816384	12"/300mm	±.006"	12.795"	1.181"	.039"	graduation on front and back
7110-500	283599	20"/500mm	±.006"	20.866"	1.181"	.047"	graduation on front and back
7110-600	283600	24"/600mm	±.008"	24.803"	1.181"	.047"	graduation on front and back
7110-1000	283601	40"/1000mm	±.008"	40.945"	1.260"	.059"	graduation on front and back
7110-1200	283603	48"/1200mm	±.009"	48.819"	1.378"	.071"	graduation on front
7110-1500	283604	60"/1500mm	±.010"	61.024"	1.496"	.071"	graduation on front
7110-2000	283605	80"/2000mm	±.012"	81.299"	1. 575"	.079"	graduation on front

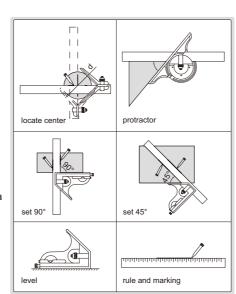
COMBINATION SQUARE SETS

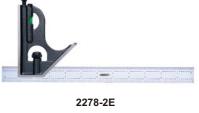


- Center head (made of cast iron): To locate center of cylinder with diameter (d): 1.181" DIA-3.937" DIA Accuracy: ±.006"
- Protractor head (made of cast iron):
 To set the blade at desired angle to an edge of a workpiece, and can be used to measure angles Range: 0-180°, accuracy: ±7min.
- Square head (made of cast iron):
 To set the blade at 90° or 45° to an edge of a workpiece

Accuracy: ±8min for 90° square, ±10min for 45° square

■ Optional accessory: rigid rule (part no. 7113)









2278-180

Part No.	EDP No.	Remark	Blade range	Blade graduation
2278-2E	877154	2-piece set	12"	1/8" and 1/16" on front face, 1/32" and 1/64" on back face
2278-3E	877155	3-piece set	12"	1/8" and 1/16" on front face, 1/32" and 1/64" on back face
2278-180	816324	4-piece set	12"/300mm	1/32" and 0.5mm on front face, 1/64" and 1mm on back face
2278-180E	283344	4-piece set	12"	1/8" and 1/16" on front face, 1/32" and 1/64" on back face

12

DOUBLE SQUARE

■ Accuracy: ±2min for 90° square

■ Hardened and chrome plated blade





■ Made of tool steel, black oxide finish

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



EDD No	Doint size (DIA)	

LONG DRIVE PIN PUNCH

283975 1/8", 3/16", 1/4", 5/16", 3/8"

■ Made of tool steel, black oxide finish

- Hardened and tempered both ends
- Knurled finger grip for ease of use
- 8 pcs set
- 4" length



7252

DRIVE PIN PUNCH

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

2-PIECE MEASURING TOOL SET



5022

Includes:

- 1) Digital caliper, range 0-150mm/0-6", resolution 0.01mm/0.0005" (part no. **1108-150**)
- 2) Digital outside micrometer, range 0-25mm/0-1 resolution 0.001mm/0.00005" (part no. 3109-25A)

Part No.	EDP No.
5022	816345



2-PIECE MEASURING TOOL SET

- Includes:
 - 1) Dial test indicator, range .03", graduation .0005" (part no. 2380-35)
 - 2) Magnetic stand

Part No.	EDP No.
5023-E	284501



5023-E

2-PIECE MEASURING TOOL SET

Includes:

12

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



5002-4E

EDP No. Part No. 5002-4E 284505

3-PIECE MEASURING TOOL SET

- Includes:

 - 1) Dial caliper, range 0-6", graduation .001" (part no. **1311-6**)
 2) Outside micrometer, range 0-1",
 graduation .0001" (part no. **3202-1**)
 3) Steel rule, 6"/150mm (part no. **7110-150**)

Part No.	EDP No.
5003-1	284512



5003-1

3-PIECE MEASURING TOOL SET

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

Part No.	EDP No.
5003-1E	284514



5003-1E

13-PIECE MEASURING TOOL SET

- Includes:
 - 1) Electronic caliper, range 0-6"/0-150mm, resolution .0005"/0.01mm, (part no. **1108-150**)
 - 2) Outside micrometer, range 0-1", graduation .0001" (part no. 3202-1)

 - 2) Outside micrometer, range 0-1", graduation .0001" (part no. 3202-1)
 3) Dial indicator, range 1", graduation .001" (part no. 2307-1)
 4) Magnetic stand (part no. 6201-60)
 5) Protractor, range 0-180°, graduation 1° (part no. 4799-180)
 6) Pitch gauge, range 4-42TPI, 30 pcs, unified 60° thread (part no. 4820-230)
 7) Radius gauge, range 1/32"-1/4" (part no. 4801-15E)
 8) Feeler gauge, range .0015-.035", 31 pcs (part no. 4608-31)
 9) 90° beveled edge square, 3.937x2.756", grade 0 (part no. 4790-1000)
 10) Scriber (part no. 7230)
 - 10) Scriber (part no. **7230**)

 - 11) Steel rule, 6"/150mm (part no. **7110-150**)
 12) Depth base attachment (part no. **6140**)
 13) Zero setting bar for depth base attachment

Part No.	EDP No.
5013-E	816407

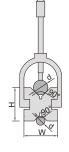


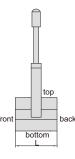
5013-E

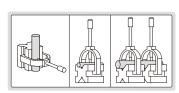
V-BLOCK SET

- Hold cylindrical workpieces for inspection and machining
- Two V-blocks per set
- Made of alloy steel
- Hardened to HRC60±2
- V groove on the top for large shafts
- V groove on the bottom for small shafts









6896-11

Part 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	889455	2.0x1.6x1.6"	.20-1.18" DIA	197µin	197µin	197µin
6896-12	889456	3.1x2.5x2.5"	.28-2.48" DIA	197µin	197µin	197µin
6896-13	889457	3.9x3.1x3.1"	.28-3.15" DIA	197µin	197µin	197µin

ROLLER BEARING V-BLOCK SETS

- Runout accuracy: 197µin
- Parallelism of bearings to bottom: 472µin
- Two V-blocks per set
- Workpieces don't get damaged due to bearings
- Suitable for heavy workpieces

Part No.	W1	W2	h1	h2	h3	L1	L2	S
6888-1	.87"	1.73"	.79"	3.35"	.47"	3.94"	-	2.36"
6888-2								1.97"
6888-3	2.36"	3.15"	1.18"	4.88"	.79"	7.09"	3.54"	4.72"





6888-1

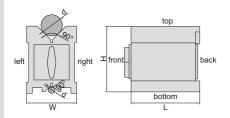
|--|

39"DIA

Part No.	EDP No.	Size (LxWxH)	Part No. of bearings	Diameter of bearings (D)	Range of shafts (d)	Load capacity
6888-1	877034	5.9x2.4x3.9"	6303 ZZ	1.65" DIA	.98-2.76" DIA	1100lb
6888-2	877198	5.9x3.1x3.9"	16004 ZZ	1.85" DIA	.20-2.17" DIA	2200lb
6888-3	877199	9.1x3.9x5.9"	6306 ZZ	2.83" DIA	2.76-7.87" DIA	2200lb



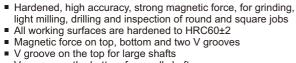
MAGNETIC V-BLOCK



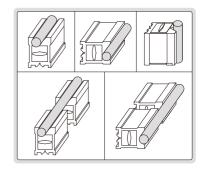




6889-1



- V groove on the bottom for small shafts
- Suitable for cast iron surface plates and granite surface plates

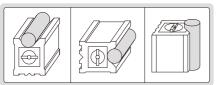


Matched pair

Part No.	EDP No.	Size (LxWxH)	Range of shafts (d)		Parallelism of V grooves to top, bottom, left, right sides		Height difference of a matched pair
6889-1	877036	3.0x2.2x3.0"	.20-1.57"DIA	165lbf	197µin	197µin	197µin

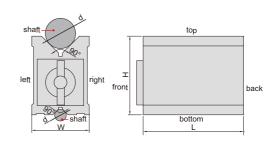
MAGNETIC V-BLOCK

- Hold cylindrical workpieces for inspection and machining
- Supplied in single piece
- Not hardened
- V groove on the top for large shafts
- V groove on the bottom for small shafts ■ Not suitable for steel or iron surface





6801-1201

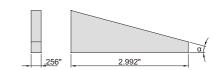


Part No.	EDP No.	Size (LxWxH)	Range of shafts (d)	Magnetic force	Parallelism of V grooves to top, bottom, left, right side	Squareness of V grooves to back side
6801-1201	877035	3.1x2.8x3.7"	.24-2.64" DIA	141lbf	394µin	394µin

ANGLE PLATE SET

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



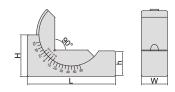


4003-12

Part No.	EDP No.	Angle plates included	Angle α	Accuracy
4003-12	877167	12 pcs	1/4°, 1/2°, 1°, 2°, 3°, 4°, 5°, 10°, 15°, 20°, 25°, 30°	±9"

ADJUSTABLE ANGLE BLOCKS

- Made of hardened tool steel
- With locking screw
 Accuracy of angle: 10'





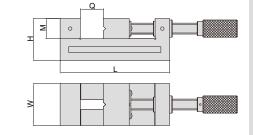
6535-30

Part No.	EDP No.	Size (LxWxH)	h	Adjustable angle	Graduation of angle
6535-25	877195	3.0x1.0x1.4"	.98"	30°~0°~60°	10'
6535-30	877196	4.0x1.2x1.9"	1.18"	30°~0°~60°	10'

PRECISION VISES

- Parallelism: 40µin/per inch■ Squareness: 60µin/per inch
- Made of alloy steel
 Hardness HRC56-58

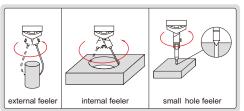




Part No.	EDP No.	Jaw opening (Q)	Jaw width (W)	L	Н	M
6525-73	877193	0-2.9"	2.480"	6.929"	2.480"	1.181"
6525-76	877194	0-3.0"	2.874"	7.480"	2.874"	1.378"
6525-120	877192	0-4.7"	3.858"	10.039"	3.228"	1.575"

CENTERING INDICATOR



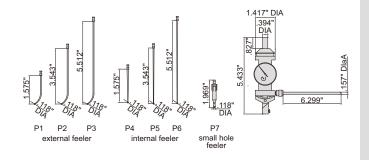




■ Provides quick and accurate centering in boring and milling set-up

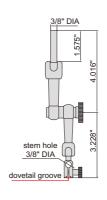
Part No.	EDP No.
2385-3	284450

Feeler	Feeler Measuring diameter	
P1	0-2.362" DIA	±.0015"
P2	0-6.299" DIA	±.0023"
P3	0-9.843" DIA	±.0031"
P4	.126-3.150" DIA	±.0015"
P5	.126-7.087" DIA	±.0023"
P6	.126-11.024" DIA	±.0031"
P7	0110" DIA	±.0015"



DIAL TEST INDICATOR CENTERING HOLDER

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

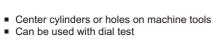


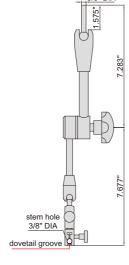




Part No.	EDP No.
6295-1AE	284452

INDICATOR CENTERING HOLDER







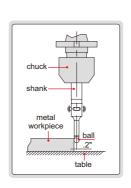


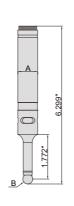
Part No.	EDP No.
6294-1AE	284453

indicators or dial indicators

ELECTRONIC EDGE FINDERS

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







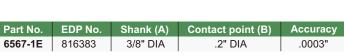
6566-2E

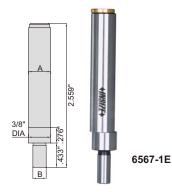
6566-3E

Part No.	EDP No.	Shank (A)	Contact ball (B)	Accuracy	Beeper	Battery
6566-2E	816381	3/4" DIA	.4" DIA	.0002"	without	23AE, 12Vx1 pc
6566-3E	816382	3/4" DIA	.4" DIA	.0002"	with	23AE, 12Vx1 pc

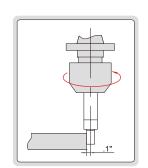
13

■ Hardened shank and contact point





EDGE FINDER

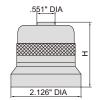


- The base is electrically conducted to the cutting tools through the table and chuck, the LED lights up when the cutting tool touches the anvil
- Magnetic base
- Battery Lr44
- High test force



6550-2A

chuck	
	2"±.0004"



Part No.	EDP No.	Height (H)	Accuracy	Test force
6550-2A	816684	2"	±.0004"	6lbf (at 2")
6550-50A	876730	50mm	±10µm	27N (at 49mm)

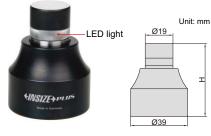
ELECTRONIC ZERO SETTER

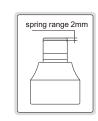
ELECTRONIC ZERO SETTER

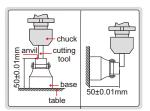
- The base is electrically conducted to the cutting tools through the table and chuck, the LED lights up when the cutting tool touches the anvil
- Magnetic base
- Two batteries Lr44
- Low test force

■ Magnetic base

6553-50

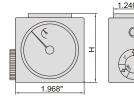


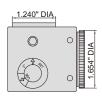


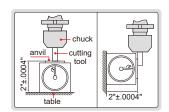


Part No.	EDP No.	Height (H)	Accuracy	Test force
6553-50	877197	50mm	±10µm	7N (at 49mm)

ZERO SETTER







2397-25A

Part No.	EDP No.	Height (H)	Accuracy	Test force
2397-25A	284447	2"	±.0004"	2lbf (at 2")

ELECTRONIC HORIZONTAL SCALES

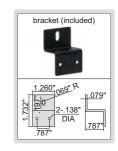




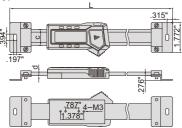
type A

7101-400A

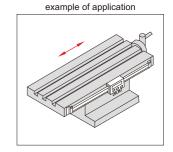
- Resolution .0005"/0.01mm
- Buttons: on/off, zero, inch/mm
- Automatic power off, move the digital unit to turn on power
- Battery CR2032, data output
- Made of stainless steel
- Supplied with bracket to be mounted on the back
- Optional accessory: data output cable (part no. 7306-20, 7302-SPC5A/SPC5B, 7305-SPC2A, 7305-A01/A02)







- Resolution .0005"/0.01mm
- Button function: on/off, zero, inch/mm, ABS, data preset
- Absolute and incremental measurement
- Battery CR2032, data output
- Made of stainless steel
- Supplied with bracket to be mounted on the back
- Optional accessory: data output cable (part no. 7306-20, 7302-SPC5A/SPC5B, 7305-SPC2A, 7305-A01/A02)



Part No.	EDP No.	Range	Type	Accuracy	L	С	d
7101-200A	284456	8"/200mm	Α	±.0012"	12.402"	.630"	.157"
7101-400A	284458	16"/400mm	В	±.0020"	23.228"	.945"	.217"
7101-800A	284462	32"/800mm	В	±.0039"	38.976"	.945"	.217"
7101-1000A	877200	40"/1000mm	В	±.0039"	46.850"	1.220"	.413"

ELECTRONIC VERTICAL SCALES







- 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
- Battery LR44
- Made of stainless steel
- Data output

Part No.

7102-200

7102-400

7102-800

7102-1000 284478

Supplied with bracket to be mounted on the back

Range

8"/200mm

16"/400mm

32"/800mm

40"/1000mm

Accuracy

±.0012"

±.0020"

±.0039"

±.0039"

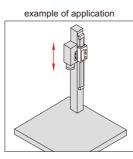
 Optional accessory: data output cable (part no. **7301-SPC5**)

EDP No.

284470

284472

284476



В	С	D	Е	F	L
.157"	.787"	.236"	.945"	1.575"	13.583"
.157"	.787"	.236"	.945"	1.575"	21.457"
.217"	.945"	.315"	1.260"	1.772"	38.780"
.413"	1.220"	.984"	1.575"	2.362"	49.016"

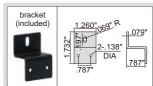


7102-200





SPC





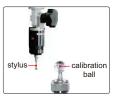
VISION MEASURING SYSTEM



X/Y/Z axis display measuring tools zoom in

-graphic

(optional, must be installed in factory)



probe (**optional**), includes Ø2mm/.079" DIA and Ø3mm/.118" DIA styli, Ø25mm/.984" calibration ball, measuring accuracy is .0004"

Main unit	1 pc
Video card with dongle	1 pc
Software disc	1 pc
Calibration glass chart	1 pc
Laser positioner	1 pc
Clay	1 pc
Foot switch	1 pc
Anti-dust cover	1 pc

OPTIONAL ACCESSORY

STANDARD DELIVERY

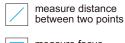
0.5X auxiliary objective	Part No. ISD-V-OB05X Working distance: 6.89" Magnification: 16.5~97.5X (on 19" monitor)	
2X auxiliary objective	Part No. ISD-V-OB2X Working distance: 1.42" Magnification: 66~390X (on 19" monitor)	
Probe	Part No. ISD-V-PROBE includes Ø2mm/.079" DIA and Ø3mm/.118" DIA styli, Ø25mm/.984" calibration ball	
Lens with coaxial light	Part No. ISD-V-LENS (must be installed in factory)	
Vision measuring system with computer	Part No. ISD-V150A , ISD-V250A , ISD-V300A	

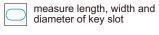
SPECIFICATION

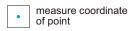
Part No.	ISD-V150	ISD-V250	ISD-V300		
EDP No.	219183	219184	219185		
Measuring range (X×Y×Z)	6×4×8"	10×6×8"	12×8×8"		
Stage size	13.94×8.98"	17.72×11.02"	19.69×12.99"		
Glass stage size	8.27×6.30"	12.05×7.72"	13.78×9.84"		
Resolutionof X/Y/Z axis	.00002"				
Accuracy of X/Y axis	≤(98.4+10L)µin	L is the measuring le	ength in inch		
Repeatability of X/Y axis	.00008"				
Objective	0.7X~4.5X (zoom)				
Working distance	3.62"				
Magnification	33X~195X (on 19" monitor)				
Camera	1/3" color CCD, 0.3M pixel				
Illumination	surface and contour with adjustable LED				
Max. height of workpiece	6.30"				
Max. weight of workpiece	44lb				
Operation system	Windows 7/8/10				
Drive method	manual				
Power supply	110/220V, 50/60Hz				
Dimension (L×W×H)	22.05×21.26×33.46"	29.92×23.62×35.43"	29.92×23.62×35.43"		
Weight	220lb	264lb	308lb		

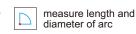
SOFTWARE

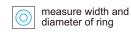
- Operation system: Windows 7/8/10
- Language: English
- Single measuring tools:

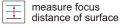


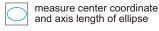


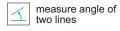


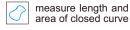


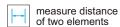


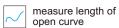


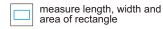


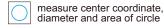




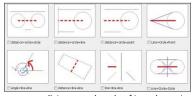






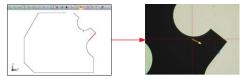


Combined measuring tools:



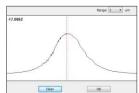
measure distance and angle of two elements

CAD measuring:



Input CAD drawing and set reference, move the stage to make the target box in the center of crosshair, then the software will do automatic measurement

Focus indicator:



To be continued

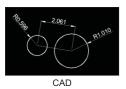


Continued from previous page

Coordinate transfer:



■ Data export to CAD, EXCEL and WORD:







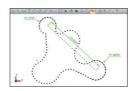
Edge-detection:







■ Contour scanning:



■ Profile detection:



DIGITAL MEASURING MICROSCOPE (WITH DISPLAY)



ISM-DL301-U (with contour illumination)

- 1080P high-definition imageBuilt-in software without computer,





calibration plate (included)



0.5X camera adapter (included)



16G USB flash disk (included)



1X camera adapter (optional)



1X auxiliary objective (included)



2X auxiliary objective (optional)



ISM-DL300 (without contour illumination)



To be continued

15

INSIZE

Continued from previous page

SPECIFICATION

Part No.	ISM-DL300 (without contour illumination) ISM-DL301-U (with			
EDP No.	877229	877230		
Magnification	15X~100X			
Sensor	1/2" CMOS			
Pixel	2M			
Resolution	1920×1080			
Frame rate	60fps			
Output	HDMI			
Power supply	power adapter power adapter and 110V, 50/60Hz			
Dimension (L×W×H)	22.44×11.81×16.93"			
Weight	14.44lb			

MAGNIFICATION, FOCUS DISTANCE AND VIEW FIELD

Auxiliary Objective Specification		Camera adapter		
		0.5X (included)	1X (optional)	
4٧	Magnification	15~100X	30~200X	
1X (included)	Focus distance	2.76±.08"	2.76±.08"	
	View field	.63×.43~.1×.06"	.31×.21~.05×.03"	
27	Magnification	30~200X	60~400X	
2X (optional)	Focus distance	1.14±.08"	1.14±.08"	
(Spironal)	View field	.31×.21~.05×.03"	.15×.11~.024×.016"	

OPTIONAL ACCESSORY

1X camera adapter	ISM-DL-CA1X
2X auxiliary objective	ISM-DL-OB2X
X-Y glass stage (travel: 2.91×2.36")	ISM-DL-STAGE

STANDARD DELIVERY

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

MEASURING ACCURACY

Magnification	Measuring accuracy*
15X	±.00031"
30X	±.00024"
50X	±.00024"
80X	±.00016"
100X	±.00016"
>100X	±.00016"

^{*}When measuring the contour of workpieces, please select ISM-DL301-U to ensure accuracy.

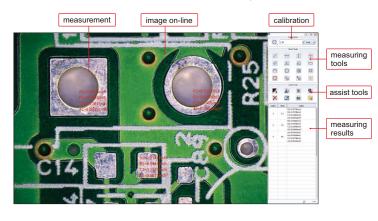
SOFTWARE

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









Measurement tools:

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

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

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

+INSIZE+

DIGITAL MICROSCOPE (WITH DISPLAY) PART NO. ISM-DL200



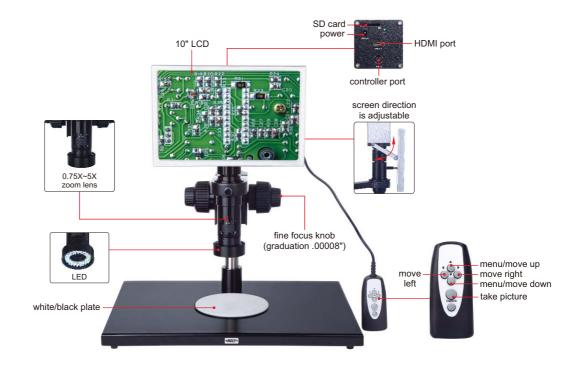
0.5X camera adapter (included)



1X auxiliary objective (included)



4G memory card and holder (included)



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

SPECIFICATION

Part No.	ISM-DL200
EDP No.	877228
Magnification	18X~112X
Sensor	1/3" CMOS
Pixel	1.3M
Resolution	1280×800
Frame rate	60fps
Output	HDMI
Power supply	power adapter
Dimension (L×W×H)	15.75×11.81×16.93"
Weight	13.33lb

STANDARD DELIVERY

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

OPTIONAL ACCESSORY

OF HONAL ACCESSORY	
1X camera adapter	ISM-DL-CA1X
2X auxiliary objective	ISM-DL-OB2X
X-Y glass stage (travel: 2.91×2.36")	ISM-DL-STAGE

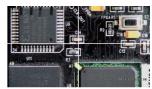




1X camera adapter (optional)



2X auxiliary objective (optional)



crosshair (white/black)

MAGNIFICATION. FOCUS DISTANCE AND VIEW FIELD

MAGNIFICATION, FOCUS DISTANCE AND VIEW FIELD				
Auxiliary	Charification	Camera adapter		
Objective Specification		0.5X (included)	1X (optional)	
47	Magnification	18~112X	36~224X	
1X (included) Focus distance		2.76±.08"	2.76±.08"	
(moraded)	View field	.5×.33~.08×.05"	.25×.17~.04×.03"	
2X	Magnification	36~224X	72~448X	
(optional)	Focus distance	1.14±.08"	1.14±.08"	
(Sp. Silai)	View field	.25×.17~.04×.03"	.13×.08~.02×.01"	

+INSIZE

DIGITAL MEASURING MICROSCOPE PART NO. ISM-DM40





- Connected to TV and computer
- Take pictures and videos, saved to memory card
- Measurement on computer with accuracy ±.0004"
- Large working distance because focus distance of camera is adjustable
- Automatic white balance and exposure, white-black display mode
- Automatic power off



SPECIFICATION

SPECIFICATION			
Part No.		ISM-DM40	
EDP No.		877231	
Magnification)	15X~205X (on 19" monitor)	
Pixel		1.3M	
Sensor		1/3" CMOS	
	HDMI output	1920×1080, 1280×720, 640×480	
Resolution	picture	2304×1536, 2304×1296, 1920×1080, 1280×720, 800×480	
	video	1920×1080, 1280×720, 800×480	
Output		USB/HDMI	
Power supply	Power supply 5V (>500mA)		
Dimension (L	Dimension (L×W×H) 10.75×8.07×12.2"		
Weight		7.78lb	

STANDARD DELIVERY

Main unit	1 pc
8G memory card and holder	1 pc
HDMI cable (for TV)	1 pc
USB cable and software (for computer)	1 pc
Plastic calibration rule (graduation 1mm/.039")	1 pc
Glass calibration rule (graduation 0.1mm/.004")	1 pc

OPTIONAL ACCESSORY

Measuring stage	ISM-DM40-STAGE



glass calibration rule (included, graduation 0.1mm/.004")



plastic calibration rule (included, graduation 1mm/.039")



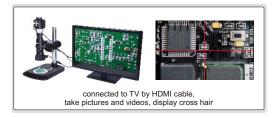
8G memory card and holder (included)

LENS SCALE, MAGNIFICATION AND FOCUS DISTANCE

Lens scale	Magnification (on 19" monitor)	Focus distance
0.7X	15~40X	.94~9.92"
1X	30~50X	1.06~6.1"
2X	70~80X	3.19~4.61"
3X	110~120X	3.7~4.37"
4X	140~160X	3.97~4.33"
5X	180~205X	4.05~4.29"

MAGNIFICATION, VIEW FIELD AND FOCUS DISTANCE

Magnification (on 19" monitor)	View field	Focus distance
15X	1.1×.63"	9.92"
30X	.53×.32"	6.1"
50X	.31×.19"	4.88"
100X	.16×.09"	4.33"
150X	.11×.06"	4.25"
200X	.08×.05"	4.13"





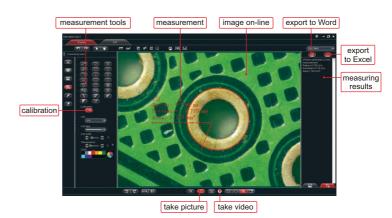


To be continued

Continued from previous page

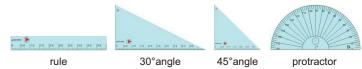
SOFTWARE FOR COMPUTER

- Language: Chinese, English, Japanese, German, French
- Operation system: Windows XP/7/8/10
- Measurement tools:
 - measure length of continuous line
 - measure radius, length and angle of arc
 - measure angle with three points
 - measure distance between two circles
 - measure distance between point and line
 - measure angle with two lines
 - measure radius, girth and area of circle
 - measure length of line or distance between two points
 - measure distance between two parallel lines
 - measure length, width, girth and area of rectangle
 - measure center distance between parallel lines
 - measure axis lengths, girth and area of ellipse
 - measure circumference and area of polygon



■ Comparison tools:

Create rule, angle or protractor, to compare with workpieces.



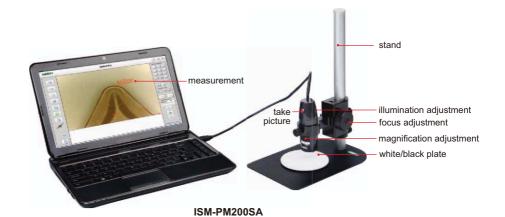
Data export to Word or Excel:



DIGITAL MEASURING MICROSCOPES



- Can take pictures and videos
- Supplied with software



computer is not included

SPECIFICATION

3F LOII ICATION			
Part No.	ISM-PM200SA	ISM-PM200SB	
EDP No.	285000	285007	
Magnification	10X~200X	10X~200X	
Focus distance	short focus distance	short focus distance	
Stand	standard	universal	
Focus support	included	included	
Calibration rule	graduation 0.1mm/.004" and 1mm/.039"	graduation 0.1mm/.004" and 1mm/.039"	
Pixel	2M (resolution: 1600×1200)		
llumination	built-in adjustable LED		
Power supply	USB 2.0 cable (voltage required: 5±0.1V)		

To be continued

-INSIZE

Continued from previous page

universal stand (included in ISM-PM200SB)



filter (optional)





MAGNIFICATION, FOCUS DISTANCE, VIEW FIELD AND ACCURACY

ISM-PM200SA/ISM-PM200SB					
Magnification Focus distance View field Accuracy					
50X	.83"	.32×.25"	1.2mil		
100X	.51"	.15×.12"	0.6mil		
150X .63" .10×.08" 0.4mil					
200X	.75"	.07×.06"	0.3mil		

OPTIONAL ACCESSORY

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

SOFTWARE

- Language: English, Japanese, Korean, German, Turkey, Portuguese, Chinese
- Operation system: Windows XP/7/8/10/Vista
- Measuring tools:

measure length of line or distance between two points
measure radius, length and angle of arc

measure distance between two parallel lines

measure distance between two circles

measure distance between point and line

measure length of continuous line

measure angle with three points

measure radius, girth and area of circle

measure area of rectangle

measure angle with two lines

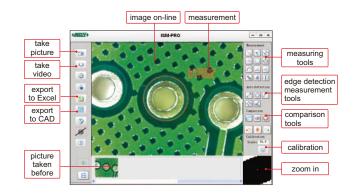
add number with circle

A add text

■ Data export to CAD or Excel:







■ Edge detection measurement tools:

detect two parallel lines automatically and calculate distance

detect circle automatically, and calculate radius, girth and area

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

detect line automatically, and calculate length

detect two lines automatically, and calculate angle

Comparison tools:

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







create circle



WIFI DIGITAL MEASURING MICROSCOPE PART NO. ISM-WF200

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

SPECIFICATION

5. 25h 167 ti 161t	
Part No.	ISM-WF200
EDP No.	816685
Magnification	10X~200X
Pixel	1.3M (resolution: 1280×1024)
Illumination	built-in adjustable LED
Power supply	built-in rechargeable battery

STANDARD DELIVERY

Microscope	1 pc
Base support	1 pc
Focus support ring for 80X/150X	1 pc
Focus support ring for 60X/200X	1 pc
Glass calibration rule (graduation 0.1mm/.004")	1 pc
Plastic calibration rule (graduation 1mm/.039")	1 pc
USB cable and software	1 pc
AC/DC adapter	1 pc

OPTIONAL ACCESSORY

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

1 Software ISM-PAD (for iPad by WiFi)

measure length of line or distance between two points

measure radius, girth and area of circle with three points image on-line

measure angle

resolution setting









plastic calibration rule (included, graduation 1mm/.039")



glass calibration rule (included, graduation 0.1mm/.004")









MAGNIFICATION, FOCUS DISTANCE, VIEW FIELD AND ACCURACY

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



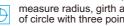
software CD (included)

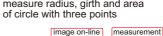
2 Software ISM-APK (for Android devices by WiFi)

measure length of line or distance between two points

measure radius, girth and area

measure angle









move measuring piont take picture/video switch picture taken before measuring tools and calibration

measurement

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

measure length of line or distance between two points

measure area of polygon

measure angle with three points

measure radius, girth and area of circle with center point

measure length of continuous line

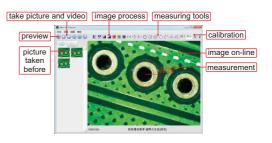
measure radius, girth and area of circle with three points measure angle with two lines

measure radius, girth and area of circle with two points

measure distance between point and line

measure radius, length and angle of arc

measure area of rectangle



To be continued

Continued from previous page

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

Measuring tools:

measure length of line or distance between two points

measure length of continuous line

measure radius, length and angle of arc

measure distance between two circles

measure distance between two parallel lines

measure radius, girth and area of circle

■ Edge detection measurement tools:

detect line automatically, and calculate length

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

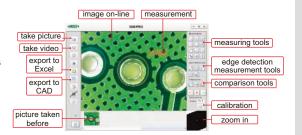
measure distance between point and line

measure area of rectangle

measure angle with three points

measure angle with two lines

add number with circle



detect circle automatically, and calculate radius, girth and area



detect two parallel lines automatically

and calculate distance

detect two lines automatically, and calculate angle

Comparison tools:

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







■ Data export to CAD or Excel:





ZOOM STEREO MICROSCOPE

SPECIFICATION

Part No.	ISM-ZS50
EDP No.	877232
Optical tube	binocular
Eyepiece (wide field)	10X (view field .87" DIA)
Objective	0.8X~5X (zoom)
Zoom ratio	1:6.3
Pupil distance	2.17~2.95" (adjustable)
Diopter adjustment	±5 diopter (two eyepieces)
Working distance of objective	4.53"
Max. workpiece height	8.46"
Illumination	adjustable reflected and transmitted LED light
Power supply	110/220V, 50/60Hz
Dimension (L×W×H)	11.42×10.24×18.90"
Weight	10.80lb



STANDARD DELIVERY

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



LED ring light (optional)

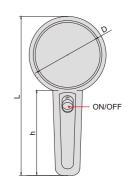
OPTIONAL ACCESSORY

Auxiliary	0.5X	ISM-ZS50-OB05X
objective	2X	ISM-ZS50-OB2X
Eyepiece	10X dividing eyepiece (graduation 0.1mm/.004")	ISM-ZS50-EPD10X
	WF15X (view field .63" DIA)	ISM-ZS50-EP15X
	WF20X (view field .47" DIA)	ISM-ZS50-EP20X
Digital camera		ISM-D500
LED ring light		ISM-ZS-RL



MAGNIFIERS WITH ILLUMINATION





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



THREE WAYS MAGNIFIER WITH ILLUMINATION

■ Plastic lens

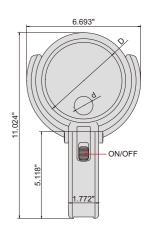
Glass lens

 Powered by 3xAAA batteries (included)

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

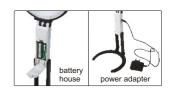






1





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

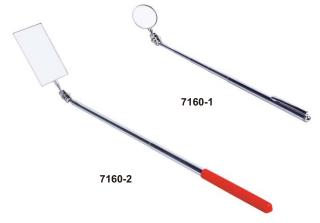
■ LED illumination, working life 20000h

SPECIFICATION

5. 2011 107 111011	
Part No.	7516-5D-U
EDP No.	877214
Magnification	2.25X
Diopter	5D
Lens diameter	4.803" DIA
Illumination	power: 7W, illuminance: 420lm
Power supply	100~240V, 50~60Hz



TELESCOPING INSPECTION MIRRORS



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

Pick up metal parts from hidden areas
 Rotation of the magnetic head: 360°
 Length of the handle is adjustable,

the handle is made of brass and chrome plated

Part No.	EDP No.	Size of mirror	Length
7160-1	877204	1.260" DIA	7.008"~19.882"
7160-2	877205	1.969"x3.543"	12.992"~19.291"

1.969" 2.295" DIA 394" DIA 7160-2

TELESCOPING MAGNETIC PICK-UP



Part No.	EDP No.	Size of magnetic tip	Magnetic force	Length
7161-1	877206	.236" DIA	0.99lbf	7.008"~22.913"



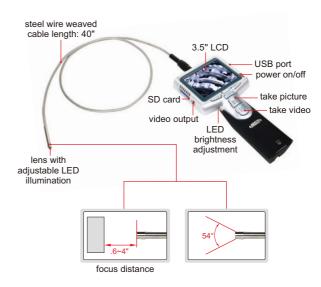
VIDEOSCOPE

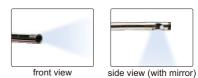
(IP65)

- IP65 dust/coolant proof
- Optional cable length 3m, 5m and 10m
- The cable can be bent but can't be set at a fixed shape

SPECIFICATION

SPECIFICATION		
Part No.		ISV-E10
EDP No.		816397
	diameter	.22"
Lens	pixel	0.3M
Lens	resolution	640×480
	frame rate	30fps
Cable	length	40"
Cable	type	steel wire weaved cable
	function	take picture, take video
	file format	picture: JPG, video: AVI
Main	image process	brightness, contrast, color saturation
unit	memory	2G SD card
	output	TV, USB
	power supply	rechargeable battery (for 3 hours working)
Weight .9		.99lb





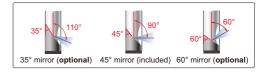


STANDARD DELIVERY

517 (1157 (115 DEE1VEIX)		
Main unit	1 pc	
Cable with lens	1 pc	
2G SD card	1 pc	
45° mirror	1 pc	
AC/DC adapter	1 pc	
Video output cable	1 pc	
USB cable	1 pc	
Lens cleaning kit	1 pc	

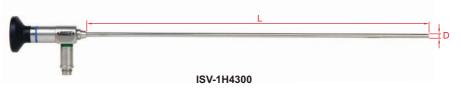
OPTIONAL ACCESSORY

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

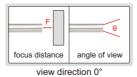


RIGID BORESCOPE





- Focus distance .08", depth of view .2~4"
- IP67 dust/coolant proof
- Can be used in the liquid with temperature: 14°F~185°F







(optional)



camera (optional)

SPECIFICATION

Part No.	EDP No.	Length (L)	View direction (α)	Diameter (D)	Angle of view (θ)
ISV-1H4300	877260	11.89"	0°	.16"	≥60°

OPTIONAL ACCESSORY

LED light handle	ISV-1HLED
Adjustable LED light source	ISV-1LED1
Camera	ISV-2CAM

ROUGHNESS TESTER

extension rod (optional), Part No. ISR-C002-ER

transverse rod (optional), Part No. ISR-C002-TR

small hole probe (optional),

Part No. ISR-C002-SBP

.433"

- 21 roughness parameters
- Display roughness values, profile and curve
- Memory of maximum 100 results
- Automatic power off
- Can be controlled by computer
- Data output





software CD (included)

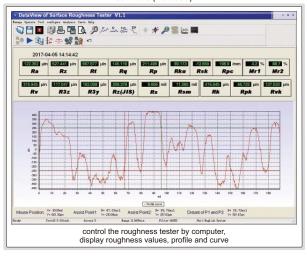
printer (optional)

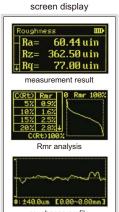


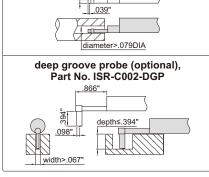




software (included)







roughness profile

SPECIFICATION

Part No.		ISR-C002
EDP No.		219180
Parameters		Ra, Rz, Rq, Rv, Rp, RS, R3z, R3y, Rt, Rz (JIS), Rk, Rku, Rsm, Rpc, Rpk, Rvk, Rsk, Mr1, Mr2, Ry (JIS), Rmax
Range		6299µin
Accuracy		±10%
Resolution (Ra)		0.01µin
	type	inductive
Probe	stylus radius/angle	196µin/90°
	stylus material	diamond
Measuring force		.01ozf
Measur	ing unit	μm/μin
Cut off		.01/.03/.1"
Numbe	r of cut-offs	1 to 5
Travers	se speed	.02"/s, .04"/s
Memory		100 measurement results
Output		USB
Power		built-in rechargeable battery
Dimension (L×W×H)		5.55×2.16×1.57"
Weight		.89lb

STANDARD DELIVERY

Main unit	1 pc
Standard probe	1 pc
Calibration block and support	1 pc of each
Adjustable stand	1 pc
Probe cover	1 pc
Software	1 pc
AC/DC adapter	1 pc

OPTIONAL ACCESSORY

5. Hell/12/166266611		
Extension rod	ISR-C002-ER	
Transverse rod	ISR-C002-TR	
Deep groove probe	ISR-C002-DGP	
Small hole probe	ISR-C002-SBP	
Light duty test stand	ISR-C002-STAND1	
Heavy duty test stand	ISR-C002-STAND	
Printer	ISR-C002-PRINTER	

light duty test stand (optional)



heavy duty test stand (optional)



ROUGHNESS TESTER (SEPARABLE TYPE) PART NO. ISR-C300

CAN BE OPERATED BY COMPUTER OR MOBILE PHONE



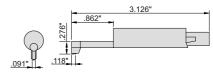


software CD (included)

- Roughness tester can be operated by mobile phone (only android system) or computer
- Data can be output to Excel by connecting with computer via bluetooth or USB cable

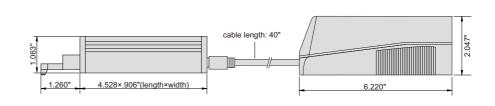
- Support bluetooth printer
 22 roughness parameters
 Meet ISO, DIN, ANSI, JIS standards
- Display roughness values, profile and curve Memory of maximum 100 data and waveform
- Built-in lithium battery, working time more than 50 hours
- Automatic power off





probe and main unit can be combined together





SPECIFICATION

Part No.			ISR-C300	
EDP No.			877234	
Parameters			Ra, Rz, Rq, Rv, Rp, Rs, R3z, R3y, Rt, Rc Rz (JIS), Rk, Rku, Rsm, Rpc, Rpk, Rvk, Rsk, Mr1, Mr2, Ry, Rmax	
Dongo		X axis	.689"	
Range		Z axis	12598µin(-6299µin~6299µin)	
Accura	су		±10%	
Resolu	tion (Ra)	0.01µin	
	type		inductive	
Probe	stylu	s radius/angle	196µin/90°	
stylus material		s material	diamond	
Measuring force		orce	.01ozf	
Measuring unit		nit	μm/μin	
Cut off			.01/.03/.1"	
Numbe	r of c	ut-offs	1 to 5	
Travers	se spe	eed	.005"/s, .02"/s, .04"/s	
Memory			100 measurement results	
Output			USB and bluetooth	
Power			built-in rechargeable battery	
Dimension (L×W×H)		L×W×H)	6.22×2.52×2.05"	
Weight			.89lb	

STANDARD DELIVERY

Main unit	1pc
Standard probe	1pc
Calibration block and support	1pc of each
Connecting cable (long and short)	1pc of each
Magnetic stand adapter	1pc
Adjustable stand	1pc
Touch pen	1pc
USB cable and software	1pc
AC/DC adapter	1pc

OPTIONAL ACCESSORY

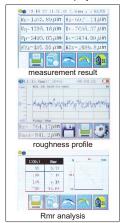
Extension rod	ISR-C002-ER
Small hole probe	ISR-C002-PROBE
Tiny hole probe	ISR-C002-SBP
Deep groove probe	ISR-C002-DGP
Bluetooth printer	ISR-C002-PRINTER
Height gage adapter	ISR-C300-LB1
Bluetooth receiver	ISR-C300-RECEIVER
Support for flat surface	ISR-C300-COVER1
Support for cylindrical surface	ISR-C300-COVER2

To be continued

+INSIZE+

Continued from pevious page

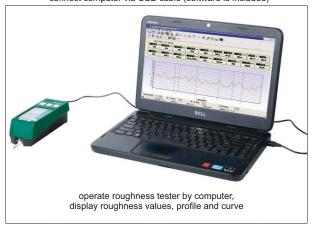
roughness tester screen display



connect mobile phone via bluetooth (only android system)



connect computer via USB cable (software is included)



data can be output to Excel by connecting computer via bluetooth or USB cable





adjustable stand (included)



bluetooth printer (optional)



magnetic stand adapter (included)



height gage adapter (optional)

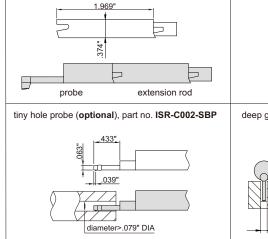


NOTE: Please confirm whether the adapter can fit your height gages. When using INSIZE height gages, please use the dial test indicator holder of height gages

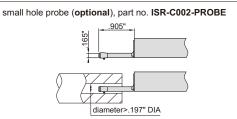


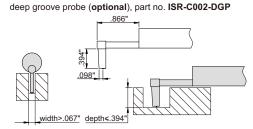


optional probes



extension rod (optional), part no. ISR-C002-ER





ROUGHNESS TESTER PART NO. ISR-S400



- Automatic probe leveling
- Language: English, French, German, Italian, Spanish, Portuguese
- 12 roughness parameters
- Can set tolerance
- Measuring range up to 15748µin, can measure grit and shot blasting Traverse length up to .63"
- The probe can be set at 90° or 270°, for transverse measurement .
- Memory of maximum 100 results
- Data output
- Probe can be replaced



measuring software (optional), can control the roughness tester, display roughness values, profile and curve, data statistics

SPECIFICATION

Part No	Part No. ISR-S400	
EDP No.		877235
Parameters		Ra, Rq, Rt, Rz, Rc, Rmax, Rsm, Rpc, Rmr, R, AR, Rx
Range		Ra: 0~3937µin, Rt: 1.97~15748µin
Accura	су	±3%
Resolut	ion (Ra)	.01µin
	type	inductive
Probe	stylus radius/angle	196µin/90°
	stylus material	diamond
Measuring force		.003ozf
Measur	ing unit	μin/μm
Cut off		.01/.03/.1"
Number	r of cut-offs	1 to 5
Travers	e speed	.04"/s
Memory		100 measurement results
Output		USB
Power		built-in rechargeable battery
Dimension (L×W×H) 4.80		4.80×2.05×2.68"
Weight 1.43lb		1.43lb

CUSTOM-MADE PROBES ARE AVAILABLE



software CD (included)





adjustable stand (included)



transverse measurement



probe cover (included), can put the small workpieces directly on the probe for measurement



output software (included), output data and graphic to Excel, make report, print



heavy duty test stand (optional)



light duty test stand (optional)

STANDARD DELIVERY

Main unit	1 pc
Standard probe	1 pc
Calibration block	1 pc
Adjustable stand	1 pc
AC/DC adapter	1 pc
Probe cover	1 pc
USB cable and output software	1 pc

OPTIONAL ACCESSORY

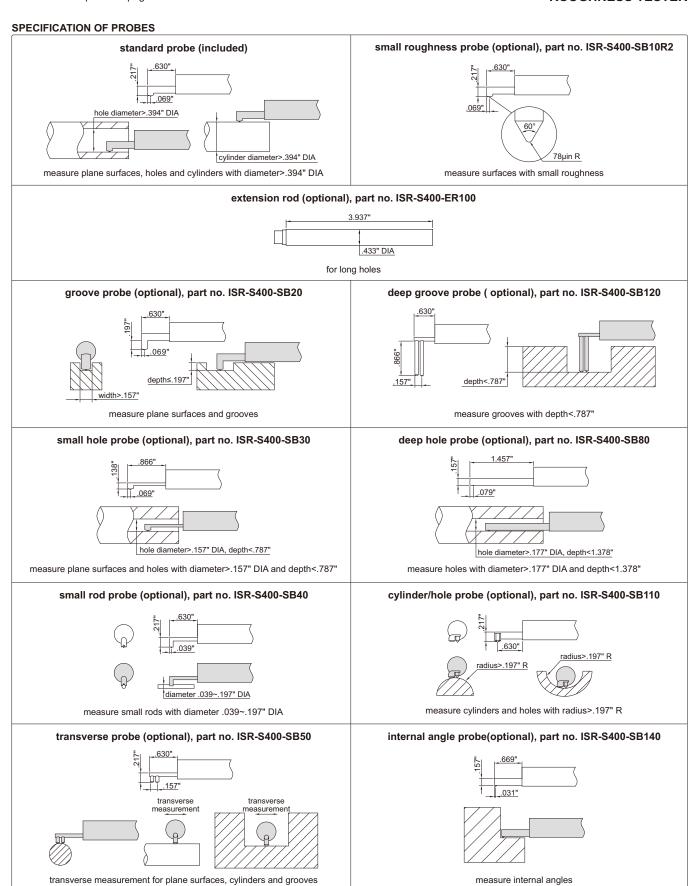
Extension rod	ISR-S400-ER100
Probe	see details
Measuring software	ISR-S-SOFTWARE
Heavy duty test stand	ISR-S400-DK
Light duty test stand	ISR-S400-STAND

To be continued



Continued from previous page

ROUGHNESS TESTER





ROUGHNESS TESTER

- Unit: μm, μinAutomatic power off

SPECIFICATION

SPECIFICATION		
	ISR-C003	
	219181	
ters	Ra, Rz, Rq, Rt	
	Ra, Rq: 2~590µin Rz, Rt: 4~1968µin	
y	±10%	
ion (Ra)	0.01µin	
type	piezoelectric	
stylus radius/angle	393µin/90°	
stylus material	diamond	
ng force	.012ozf	
ng unit	μm/μin	
	.01/.03/.1"	
on length	.05" for cut off .01" .15" for cut off .03" .2" for cut off .1"	
speed	.03"/s	
	built-in rechargeable battery	
on (L×W×H)	4.17×2.75×.94"	
	.44lb	
	y on (Ra) type stylus radius/angle stylus material ng force ng unit on length	





calibration block (included)

STANDARD DELIVERY

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

SURFACE ROUGHNESS SPECIMEN SET

- For checking, identifying and specifying the roughness by symbol
 Made of carbon steel
- For mantenace apply anti-rust oil after use



Part No.	EDP No.	Machining method	Roughness (Ra)	Roughness (Rz)	Quantity	
		Horizontal milling	16, 32, 63, 125, 250, 500µin	100, 160, 320, 640, 1280, 2000µin	6 200	
			0.4, 0.8, 1.6, 3.2, 6.3, 12.5µm	1.6, 3.2, 6.3, 12.5, 25, 50µm	6 pcs	
		Vertical milling	16, 32, 63, 125, 250, 500µin	100, 160, 320, 640, 1280, 2000µin	6 pcs	
		vertical milling	0.4, 0.8, 1.6, 3.2, 6.3, 12.5µm	1.6, 3.2, 6.3, 12.5, 25, 50µm	0 pcs	
		Turning	16, 32, 63, 125, 250, 500µin	100, 160, 320, 640, 1280, 2000µln	6 pcs	
ISR-CS2E 877233	877233		0.4, 0.8, 1.6, 3.2, 6.3, 12.5µm	1.6, 3.2, 6.3, 12.5, 25, 50µm	o pes	
	077233	Plain grinding	2, 4, 8, 16, 32, 63µin	22.1, 40, 63, 120, 240, 400µin	6 pcs	
	r fairi gririding	0.05, 0.1, 0.2, 0.4, 0.8, 1.6μm	0.2, 0.4, 0.8, 1.6, 3.2, 6.3µm	Орсз		
		Flat lapping	2, 4µin	22.1, 40µin	2 pcs	
			0.05, 0.1μm	0.2, 0.4μm	2 pos	
		External grinding	8, 16, 32, 63µin	63, 120, 240, 400µin	4 pcs	
		External grinding	0.2, 0.4, 0.8, 1.6µm	0.8, 1.6, 3.2, 6.3µm	7 , 600	

COATING THICKNESS GAGE



calibration foils (included)



(included)



eddy current probe NFe (optional) with zero calibration block



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



magnetic induction probe (Fe10) for large range (optional)





- Magnetic induction probe (Fe) is to measure the thickness of non-magnetic coating on magnetic substrate Substrate: iron, steel, magnetic stainless steel (does not include non-magnetic stainless steel)
- Coating: zinc, copper, chrome, tin, plastic, powder, paint (nickel is not included)

 Eddy current probe (NFe) is to measure the thickness of non-conductive coating on non-magnetic substrate Substrate: copper, aluminum, zinc, non-magnetic stainless steel Coating: plastic, powder, paint, anodizing

 Low and high limits with judgement

 Automatic power off

- For magnetic and non-magnetic substrates
- Data output

SPECIFICATION

Part No.	9501-1200			
EDP No.	877217			
Probe type	FE (included) magnetic induction probe	NFE (optional) eddy current probe	FE90 (optional) magnetic induction probe for bores and grooves	FE10 (optional) magnetic induction probe with big range
Measuring range	0~50mils 0~50mils 0~50mils 20~400mils			
Accuracy	±(3%L+.04)mils (range≤50mils) ±(3%L+.4)mils (range>50mils) L is measuring thickness in mils			
Resolution	.01mils .1mils			.1mils
Measuring mode	continuous and si	ingle		
Minimum substrate thickness	.02"	.012"	.02"	.08"
Minimum measuring area	.28" DIA	.2" DIA	.28" DIA	1.57" DIA
Minimum curvature radius of convex workpiece	.06"4"		.4"	
Memory	500			
Power supply	2×1.5V AA batteries			
Dimension	5.04×2.68×1.26"			
Weight	.75lb			

STANDARD DELIVERY

Main unit	1 pc
Magnetic induction probe (Fe)	1 pc
Zero calibration block for Fe probe	1 pc
Calibration foils (50µm/2mils, 100µm/4mils, 250µm/10mils, 500µm/20mils, 1000µm/40mils)	1 set
1.5V AA battery	2 pcs
USB cable and software	1 pc

OPTIONAL ACCESSORY

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

ULTRASONIC THICKNESS GAGE



- Measure the thickness from one side of object, suitable for pipe, tank, etc.
- Applicable material: metal, plastic, glass, nylon, resin, ceramic, ice
- Not recomended for casting workpieces

SPECIFICATION

Part No.		ISU-100D	
EDP No.		816694	
Measuring ran	ige	.03~11.81"	
Resolution		.001" (range<10")	
Resolution		.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	
T	frequency	5MHz	
Transducer	diameter (d)	.43" DIA	
Minimum size	of pipe for measurement	.79×.05" (diameter × wall thickness)	
Applicable ten	nperature	<140°F	
Velocity		.039~.394 inch/µs	
Power supply		2×AAA batteries	
Dimension		4.49×2.52×1.1"	
Weight		.49lb	

ULTRASONIC THICKNESS GAGE (THROUGH COATING) Echo-Echo mode (E-E) coating substrate Transmit-Echo mode (T-E) substrate LCD with backlight USB port transducer ISU-T07

STANDARD DELIVERY

Main unit	1 pc
Transducer ISU-T07	1 pc
Battery (AAA)	2 pcs
Couplant (for ISU-T04, ISU-T06, ISU-T07, ISU-T12)	1 bottle
USB cable	1 pc

OPTIONAL ACCESSARY

Transducer	ISU-T04, ISU-T06, ISU-T12, ISU-T13
Couplant (for ISU-T13)	ISU-HT5-COUPLANT

- Two measuring modes, Echo-Echo (E-E) and Transmit-Echo (T-E):
- E-E is applicable for non-metallic coating (such as paint, plastic resin, etc.) on metal substrate, can penetrate coating and measure the thickness of substrate
- T-E is to measure the thickness of material without coating, such as metal, plastic, glass, nylon, resin, ceramics, ice, etc.
- Low and high limits with judgment
- Average calculation of maximum 9 readings
- Memory of maximum 500 readings
- Data output

SPECIFICATION

SPECIFICATION			
Part No.	ISU-300D		
EDP No.	877259		
Measuring range	E-E mode: coating thickness 0~.04", substrate thickness .16~.98"		
95	T-E mode: substrate thickness .06~7.87"		
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~.394inch/µs		
Power supply	2×1.5V AAA batteries		
Dimension	4.57×2.52×1.06"		
Weight	.49lb		



couplant (included)



transducer ISU-T04 (optional)



transducer ISU-T06 (optional)



transducer ISU-T12 (optional)



transducer ISU-T13 (optional)



SPECIFICATION OF TRANSDUCERS

SPECIFICATION OF TRANSDUCERS							
Part No.	Mode	Frenquency	Diameter (d)	Measuring range	Minimum size of pipe for measurement (diameter × wall thickness)	Applicable temperature	Application
ISU-T07	T-E E-E	5.0MHz	.43" DIA	T-E mode .06~7.87" E-E mode .16~.98"	T-E mode .79×.05" E-E mode .79×.16"	<140°F	general use
ISU-T04	T-E	10.0MHz	.24" DIA	.03~0.79"	.39×.04"	<140°F	for small tube
ISU-T06	T-E	7.5MHz	.33" DIA	.03~1.97"	.59×.05"	<140°F	for thin material
ISU-T12	T-E	2.0MHz	.64" DIA	.08~15.75"	1.18×.16"	<140°F	for casting iron
ISU-T13	T-E	5.0MHz	.51" DIA	.08~7.87"	.98×.12"	<662°F	for high temperature

19



INFRARED THERMOMETER

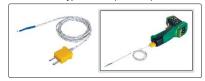
- Fast measurement with infrared or k-type sensor
 Maximum, minimum, average and difference modes
 Low and high limits with judgement
 Automatic power off

SPECIFICATION

of Editionion			
Part No.		9110-500	
EDP No.		877215	
Measuring infrared		-76~932°F	
range	k-type sensor	-40~1976°F	
Accuracy	infrared	±(1.5%+4)°F	
Accuracy	k-type sensor	±(1%+4)°F	
Resolution		.1°F (range<199.9°F), 1°F (range>199.9°F)	
Distance to spot ratio (D:S)		12:1	
Emissivity		0.1~1 (adjustable)	
Laser type		630~670nm, Class II, <1mW	
Response time		<500ms	
Power supply		9V battery	
Dimension		6.93×5.19×1.93"	
Weight		.5lb	



k-type sensor (included)



STANDARD DELIVERY

* · · · · · · · · · · · · · · · · · · ·			
Main unit	1pc		
K-type sensor	1 pc		
9V battery	1pc		

NON-CONTACT DIGITAL TACHOMETER

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

SPECIFICATION

SPECIFICATION	
Part No.	9221-999
EDP No.	877216
Measuring range	50~99999RPM
Accuracy	±(.03%+2)RPM
	.01RPM (range 50~99.99RPM)
Resolution	.1RPM (range 100~9999.9RPM)
	1RPM (range 10000~99999RPM)
Measuring distance	2~10"
Power supply	4×AAA batteries
Dimension	6.1×2.36×1.06"
Weight	.26lb







STANDARD DELIVERY

Main unit	1 pc
Reflection sticker	1 roll
Battery (AAA)	4 pcs



PORTABLE REFRACTOMETER

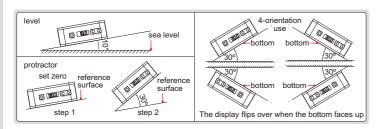
- Quickly measure the concentration of coolant
- Refer to the refraction factor of coolant, for example: the refraction factor of grinding emulsion is 2.1, the reading value is 6%, so the actual concentration is (2.1×6%)=12.6%
- Suitable for water based coolant

SPECIFICATION		
Part No.	ISQ-RM30	
EDP No.	219182	
Measuring range	0~32%	
Graduation	0.2%	
Dimension	1.06×1.57×6.3"	
Weight	.39lb	



ELECTRONIC LEVEL AND PROTRACTOR

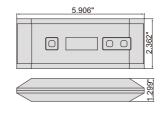
- Aluminum frame
- Magnetic bottom with V-groove for shafts
- Zero setting can be made on any plain surfaces
- Buttons: ON/OFF, ZERO, HOLD (keep the reading)
- CR2032 battery
- Automatic power off



Part No.	EDP No.	Range	Resolution	Accuracy
2173-360	816340	0-360° (90°x4)	0.1° (= 1.745 mm/m)	at 0° and 90°: ±0.1°; others: ±0.2°



2173-360



ELECTRONIC LEVEL AND PROTRACTOR



- IP54 dust/coolant proof
- Aluminum frame

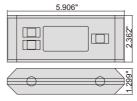
19

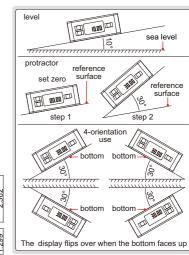
- Magnetic bottom with V-groove for shafts
- The sea level is permanently set inside the chip, zero setting is not needed when batteries are replaced
- Buttons: ON/OFF, absolute and incremental measurement, keep the reading, buzzer alarm (at 0° and 90°), unit (in/ft, %, mm/m), backlight
- Two AAA batteries
- Automatic power off
- Absolute level



2179-360

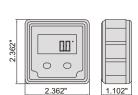






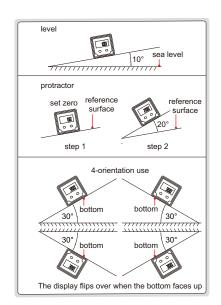
ELECTRONIC LEVEL AND PROTRACTOR

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

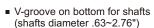


2170-1

Part No.	EDP No.	Range	Resolution	Accuracy
2170-1	816396	4x90°	0.1°(=.021in/ft)	at 0°and 90°: ±0.1°; others: ±0.2°



BLOCK LEVELS



- With transverse vial
- Supplied with adjusting wrench





Part No.	EDP No.	Length (L)	В	С	Sensitivity
4901-6	816326	6"	1.575"	1.772"	.00024in/ft (=0.001°)
4901-8	816328	8"	1.654"	1.850"	.00024in/ft (=0.001°)
4901-12	816330	12"	1.772"	1.969"	.00024in/ft (=0.001°)

- With transverse and longitudinal vials
- V-groove on bottom for shafts (shafts dia. 15-60mm for 4904-150, and 15-70mm for 4904-200/300)
 ■ Supplied with adjust wrench

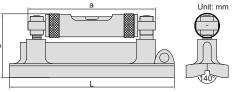


	(m	m
ī		

					(mm)
Part No.	EDP No.	Sensitivity	Size (L)	а	b
4904-150	877177	0.3mm/m(=0.017°)	150mm	150	58
4904-200	877178	0.3mm/m(=0.017°)	200mm	135	73
4904-300	877179	0.3mm/m(=0.017°)	300mm	216	73

MACHINISTS' LEVELS

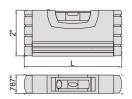
rotate cover to protect vials







PORTABLE LEVEL





4912-100

- Shockproof vials
- Magnetic base
- Shock absorbing rubber end caps
 Working temperature: 5°F~131°F
- Vials made in israel lifetime warranty

Part No. EDP No. Size (L) Accuracy 4912-100 877180 4" .006in/ft

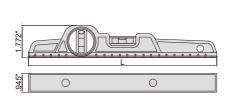
packaging

CAST ALUMINUM LEVEL

- Shockproof horizontal and vertical vials
- Magnetic base
- Working temperature: 5°F~131°F
- Cast aluminum body
 Vials made in israel lifetime warranty



4913-250





Part No.	EDP No.	Size (L)	Accuracy
4913-250	877182	10"	.006in/ft

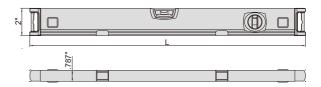
ALUMINUM LEVELS

- Shockproof horizontal and vertical vials
- Magnetic base
- Shock absorbing rubber end caps
 Working temperature: 5°F~131°F
- Vials made in israel lifetime warranty

Part No.	EDP No.	Size (L)	Accuracy
4914-600	877185	24"	.006in/ft
4914-800	877186	32"	.006in/ft
4914-1000	877183	40"	.006in/ft
4914-1200	877184	48"	.006in/ft



4914-600







AUTOMATIC ELECTRONIC ROCKWELL HARDNESS TESTER (DOLPHIN-NOSE MODEL) PART NO. ISHR-T100-U**







hardness scale

2.48" DIA flat anvil (included)



5.91" DIA flat anvil (included)



level (included)



touch pen (included)



V-type anvil (included) for cylinders with diameter .16~2.36" DIA



small V-type anvil (optional) for cylinders with diameter .08~.16" DIA

SPECIFICATION

Part No.	ISHR-T100-U		
EDP No.	877227		
	HRA, HRB, HRC, HRD, HRF, HRG (with standard indenters)		
Hardness scale	HRE, HRH, HRK, HRL, HRM, HRP, HRR, HRS, HRV (with optional indenter)		
Preliminary test force	98N/10kgf		
Test force	588N/60kgf, 980N/100kgf, 1471N/150kgf		
Stage elevation	manual		
Load control	automatic (load/dwell/unload)		
Load dwell time	0~60 second		
Resolution	.1HR		
Output	USB		
Max. workpiece height	11.81"		
Max. workpiece depth	9.84" (from the center of indenter)		
Power supply	110V, 50/60Hz **		
Dimension	27.95×10.24×33.07"		
Weight	177lb		

STANDARD DELIVERY

Main unit	1 pc
2.48" DIA flat anvil	1 pc
5.91" DIA flat anvil	1 pc
V-type anvil	1 pc
Diamond indenter	1 pc
1/16" carbide ball indenter	1 pc
Hardness test block HRB88~95	1 pc
Hardness test block HRC60~65	1 pc
Hardness test block HRC20~30	1 pc
USB flash disk (8G)	1 pc
Level	1 pc
Touch pen	1 pc
Anti-dust cover	1 pc

OPTIONAL ACCESSORY

Hardness test block HRB88~95	ISH-BHRB
Hardness test block HRC60~65	ISH-BHRC3
Hardness test block HRC20~30	ISH-BHRC1
Small V-type anvil	ISH-SMALL ANVIL



PORTABLE LEEB HARDNESS TESTER



wireless printer (optional)





hardness test block D (included) ring (included)





- Accuracy: ±6HLD (when HLD=800)
- Based on Leeb (HLD), converted to Vickers (HV), Brinell (HB), Rockwell (HRC and HRB), Shore (HS) and tensile strength (MPa)
- Memory of 99 measurement values for browsing
- Set measurement times (1~9) to have average value
- Connected with printer via bluetooth
- Automatic power off, according to ASTM A 956

STANDARD DELIVERY

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

OPTIONAL ACCESSORY

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



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

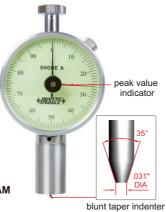
APPLICABLE MATERIAL AND HARDNESS RANGE FOR IMPACT DEVICE D

Material	HLD	HV	НВ	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				

SHORE DUROMETERS

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

ISH-SAM



SPECIFICATION

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

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

TEST STAND FOR DIGITAL FORCE GAGES

- For digital force gages (part no. ISF-1DFxx and ISF-DFxx)
- To be used in vertical and horizontal orientation



horizontal orientation test



digital scale (optional)

force gages are not

included

OPTIONAL ACCESSORY

Digital scale (range: 8", resolution .0005"/0.01mm)

ISF-MT1K-SCALE

SPECIFICATION

of Edit IdaTion				
Part No.	ISF-MT1K			
EDP No.	877226			
Load capacity	220lbf			
Travel	7.87" (.12" vertical movement per revolution of handwheel)			
Dimension	7.72×9.84×17.56"			
Weight	28.67lb			



ELECTRONIC FORCE GAGES

- Push and pull test
- Peak (max.) and tracking mode
- Units: lbf, ozf, mN, N, gf, kgf, Low and high limits with judgement
- 1000 memories
- Automatic power off
- Metal case, touch buttons
- LCD display with backlight
- The display flips over when the bottom faces up
- Overload alarm
- Data output **SPECIFICATION**



ISF-DF100A







(HIGH ACCURACY)

Part No.	ISF-DF50A	ISF-DF100A	ISF-DF200A	ISF-DF500A	ISF-DF1KA		
EDP No. 877225 87722		877221	877223	877224	877222		
Load capacity (lbf)	11	22	44	110	220		
Resolution (lbf)	0.001 0.005 0.01 0.01 0.05						
Accuracy	±0.2% (of load capacity)						
Power supply	built-in rechargeable battery						

STANDARD DELIVERY

OTANDAND DELIVER								
Part No.	ISF-DF50A	ISF-DF100A	ISF-DF200A	ISF-DF500A	ISF-DF1KA			
Main unit	1 pc							
AC/DC adapter	1 pc							
USB cable and software	1 pc							
Push/pull accessory	6 pcs (flat push tip, V push tip, knife-edge push tip, point push tip, pull clamp, extension rod)							

accessory (included) flat push tip V push tip knife-edge point push tip pull clamp extension

OPTIONAL ACCESSORY

Printer	ISF-DF-PRINTER
Test stand	ISF-MT1K

ELECTRONIC TORQUE TESTERS

- With external sensor, to test torque wrenches, torque screwdrivers and other torque tools
- Clockwise and counter-clockwise operation
- Peak, track and first peak working modes
- Unit: N.m, in.lb, ft.lb, kg.cm
- Low and high limits with judgement
- Target torque value can be set, with audible and visible alarm:
 - Green LED light on and buzzer sounds when the value is 80%~100% of target torque
 - Both green and red LED light on and buzzer sounds when the target torque value is reached
- Automatic power off
- Not recommended for electric wrenches, impact wrenches or pneumatic wrenches

green red alarm alarm LED LED connection cable LCD display. transducer reset powerbuttons buzzer IST-TT550

SDECIFICATION

SPECIFICATION							
Part No.	IST-TT5 IST-TT50		IST-TT220	IST-TT550	IST-TT2200		
EDP No.	877256	877257	877254	877258	877255		
Range	4.42~44.24in.lb	44.2~442.4in.lb	195~1946in.lb	487~4867in.lb	_		
rtango	0.369~3.687ft.lb	3.69~36.87ft.lb	16.2~162.2ft.lb	40.6~405.6ft.lb	162~1622ft.lb		
Accuracy	±1% (clockwise and counter-clockwise)						
Resolution	0.01in.lb	0.1in.lb	1in.lb	1in.lb	_		
Resolution	0.001ft.lb	0.01ft.lb	0.1ft.lb	0.1ft.lb	1ft.lb		
Square socket (L) 1/4" 3/8"		3/8"	1/2" 3/4"		1"		
Power supply	DC						
Adaptor	no	3/8" to 1/4"	1/2" to 3/8" 3/8" to 1/4"	3/4" to 1/2" 1/2" to 3/8"	1" to 3/4" 3/4" to 1/2"		
Transducer dimension	2.36×2.36×1.85"	3.50×3.50×2.56"	4.29×4.29×2.87"	5.51×5.51×3.82"	6.30×6.30×4.57"		
Weight	1.54lb	2.43lb	3.09lb	6.17lb	10.36lb		

STANDARD DELIVERY

017111271112 222112111	
Main unit	1 pc
Transducer with 40" cable	1 pc

AC/DC adapter	1 pc
Adaptor	refer to the left



adaptor (included)





TORQUE WRENCH TEST STAND

Work with digital torque testers (IST-TT5, IST-TT50, IST-TT220, IST-TT550)



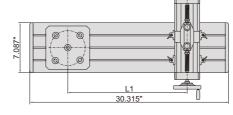


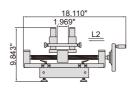
digital torque tester (optional)



adaptor (**optional**, for digital torque tester **IST-TT5**, IST-TT50, IST-TT220)







Part No.	EDP No.
IST-TS500	877253

SPECIFICATION

Digital torque tester	IST-TT5 (optional)	IST-TT50 (optional)	IST-TT220 (optional)	IST-TT550 (optional)		
Applicable torque	4.42~44.24in.lb	44.2~442.4in.lb	195~1946in.lb	487~4867in.lb		
wrenches	0.369~3.687ft.lb	3.69~36.87ft.lb	16.2~162.2ft.lb	40.6~405.6ft.lb		
Arm length (L1)	5.91~24.41", adjustable					
Maximum travel (L2)	7.87"					
Weight	28.17lb					

OPTIONAL ACCESSORY

Digital torque tester	IST-TT5, IST-TT50, IST-TT220, IST-TT550						
Adaptor	IST-TS500-BLOCK (necessary for IST-TT5, IST-TT50 and IST-TT220, not needed for IST-TT550)						

ELECTRONIC TORQUE SCREWDRIVERS



- Clockwise and counter-clockwise operation
- Unit: in.lb, cN.m, kg.cm
- Peak and track working mode
- Target torque value can be set, with audible and visible alarm:
 Green LED light on and buzzer sounds when target torque value is 90%~100% of target torque
 - Red LED light on and buzzer sounds when target torque value is reached
- Power off automatically in 5 minutes without any operations



SPECIFICATION

SPECIFICAL	ION					
Part No.		IST-SD50	IST-SD200	IST-SD400		
EDP No.		877252	877252 877250 8			
Range	Range 0.88~4.42in.lb 3.54~17.7in.lb 7.08~35.3					
Accuracy	clockwise	±3%	±2.5%	±2.5%		
Accuracy	counter-clockwise	±4%	±3.5%	±3.5%		
Resolution	1	0.01in.lb				
Size of hea	k socket (L)	1/4"				
Power supply 1×AAA battery						
Length	Length 7.60" 7.99" 7.99"					
Weight		0.42lb	0.44lb	0.44lb		

IST-SD200

	OP	Ш	O	NA	۱L	Α	C	CE	:5	S	U	K	Y
п													_

OI HOMAL AGGLOGORI	_
Calibration cable	IST-SD-CABLE



INSPECTION CERTIFICATE

CLASSIC TORQUE WRENCHES

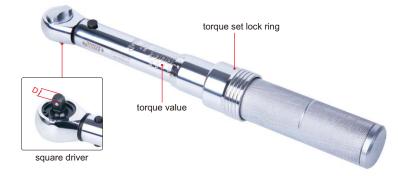


- Accuracy ±4%
- Clockwise and counter-clockwise operation
- Unit: Ibf.in, Ibf.ft, N.m, kgf.m
- Loud click sound when target torque value is reached
 According to DIN ISO 6789, ASME B107.300-2010

SPECIFICATION

Part No.		IST-7WM33	IST-7WM68	IST-7WM135	IST-7WM225	IST-7WM330	IST-7WM560	IST-7WM800	IST-7WM1000
EDP No.		877245	877248	877243	877244	877246	877247	877249	877242
	lbf.in	40~300	100~600	200~1200	400~2000	60~3000	120~5000	1800~7200	1800~8850
Range	lbf.ft	4~24	10~50	20~100	40~160	50~250	100~410	140~600	140~740
runge	N.m	5~33	12~68	25~135	50~225	70~330	140~560	200~800	200~1000
	kgf.m	.5~3.4	1.2~7	3~14	5~23	7~35	14~57	22~82	22~100
Accuracy	Accuracy		±4%						
	lbf.in	10	20	50	50	100	100	200	200
Cuaduatian	lbf.ft	1	2	2	5	10	10	20	20
Graduation	N.m	1	2	5	5	10	10	20	20
	kgf.m	.1	.2	1	1	1	1	2	2
Square drive	r (D)	1/4"	3/8"	1/2"	1/2"	1/2"	3/4"	3/4"	1"
Length		16.73"	19.68"	21.89"	23.62"	31.69"	39.21"	42.12"	55.12"
Weight		1.6lb	2.33lb	3.55lb	5.11lb	5.77lb	16.46lb	16.84lb	28.44lb

TORQUE WRENCHES



- According to DIN ISO 6789, ASME B107.300-2010
- All-metal construction
- Clockwise operation only

IST-10WM200

SPECIFICATION

	_					
Part No.	IST-10WM200	IST-10WM250	IST-10WM100	IST-10WM150	IST-10WM250A	IST-10WM600
EDP No.	877238	877239	877236	877237	877240	877241
Range (clockwise)	40~200lb.in	50~250lb.in	20~100lb.ft	30~150lb.ft	50~250lb.ft	100~600lb.ft
Accuracy	±6% (<89lb.in) ±4% (≥89lb.in)	±6% (<89lb.in) ±4% (≥89lb.in)	±4%	±4%	±4%	±4%
Graduation	1lb.in	1lb.in	0.5lb.ft	0.5lb.ft	1lb.ft	2.5lb.ft
Square driver (D)	1/4"	3/8"	3/8"	1/2"	1/2"	3/4"
Length	11.02"	12.40"	16.73"	19.88"	20.67"	41.54"
Weight	1.50lb	1.81lb	2.29lb	2.56lb	2.87lb	13.01lb

PART NO. INDEX



PART NO. PAGE
11
1102 1
11065
11082
1110 3
1111 3
1114 1
1118 1
1119 2
1120 10
1121 11
1122 14
1123 13
1124
1125
11314
11335
11365
11394
1140 19
1141 16
1142 17
1143 17
1144 17
1145 18
1147 16
1148 18
115021
115422
115622
1161 15
1167 16
1169 13
1172 15
1176 11
1178 11
1179 14
1180
1181 15

PART NO. PAGE
118512
118614
118712
118813
119213
11962
12
12056
12117
12236
125023
125323
126766
13
13116
13165
15
152012
15224
15234
15269
21
210341
210441
211241
211440
211842
212436
214120
216656
216856
2170103
217159
217261
2173102
217459
217658
2179102
218340 22

PART	r NO. PAG	Ε
2277	7	73
2278	7	72
23		
2304		13
2307		14
2310		13
2312		14
2315		12
2318		13
2320		14
2323	3	37
2326		15
2341	1	19
2364	5	55
2372	6	30
2373	6	31
2374	6	30
2380	2	17
2381	2	17
2383	2	18
2385	7	77
2386		18
2397	7	79
2398		17
2399		17
24		
2480	2	18
28		
2824		38
2828		38
2871		55
2872		55
31		
3101	2	23
3108	2	24
3109	2	24
3127	3	34
3128	3	33
32		

PARI	NO.	PAGE
3205		27
3206		26
3220		32
3221		33
3222		33
3227		35
3230		29
3232		29
3236		26
3239		30
3240		21
3241		21
3260		30
3266		30
3280		31
3281		28
33		
3332		27
3334		56
34		
3400		24
35	i	
3520		32
3532		29
3540		20
		28
40		
		76
41		
4102		57
4121		58
4130		57
		57
42		
		39
		38
		40
46		
4608		66
4630		66~67

PART NO. INDEX



PART NO. PAGE
464458
47
470762
478059
478160
478953
479061
479162
479262
479960
48
480165
480465
480764
480870
480970
481063
481264
482063
482464
483168
483367
483568
483668
483767
483969
484270
484369
484465
485267
49
4901103
4904103
4912104
4913104
4914104
50
500274
500374
501375

PAR1	NO. PAGE
5022	73
5023	74
61	
6140	7
6141	18
6143	12
6144	7
62	
6200	51
6201	51
6202	51
6207	52
6208	50
6210	50
6211	52
6215	51
6217	52
6224	52
6282	45
6284	49
6291	50
6293	49
6294	78
6295	78
6296	49
63	
6300	31
6301	31
6311	32
6381	32
65	
6525	77
6535	77
6550	79
6553	79
6566	78
6567	79
68	
6801	76

PART NO.	PAGE
6889	76
6896	75
71	
7101	80
7102	80
7110	72
7113	71
7126	71
7160	91
7161	91
72	
7230	73
7231	73
7232	73
7247	71
7252	73
7253	73
73	
7302	53
7304	53
7311	54
7330	46
7331	46
7353	39
7381	27
75	
7512	90
7513	90
7516	91
91	
9110	101
92	
9221	101
95	
9501	99
ISD	
ISD-V150	81~82
ISD-V250	81~82
ISD-V300	81~82
ISF	

PART NO. PAGE
ISF-DFxxx107
ISF-MT1K 106
ISH
ISH-PHB106
ISH-SAM106
ISHR
ISHR-T100-U105
ISM
ISM-DL20084
ISM-DL300 82~83
ISM-DL301-U 82~83
ISM-DM40 85~86
ISM-PM200SA86~87
ISM-PM200SB 86~87
ISM-WF200 88~89
ISM-ZS50 89
ISQ
ISQ-RM30102
ISR
ISR-C00293
ISR-C00398
ISR-C30094~95
ISR-CS2E98
ISR-S400 96~97
IST
IST-10WMxxx 109
IST-7WMxxx 109
IST-SD200108
IST-SD400108
IST-SD50108
IST-TS500108
IST-TTxxx107
ISU
ISU-100D100
ISU-300D100
ISV
ISV-1H430092
ISV-E10 92



CONTACT YOUR LOCAL KAR DISTRIBUTOR TODAY!

YOUR AUTHORIZED KAR DISTRIBUTOR:





EXCLUSIVELY AVAILABLE AT KAR IN CANADA

TORONTO • MONTRÉAL • EDMONTON

WWW.KAR.CA