



SAVE 15% ON ALL ITEMS



ELECTRONIC CALIPERS



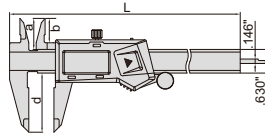
1108-150



DATA OUTPUT



- ▶ 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.	Range	Accuracy	L	a	b	d	List Price (\$)	Sale Price (\$)
1108-150*	0-6"/0-150mm	±.0008"	9.291"	.827"	.630"	1.575"	54.10	46.00
1108-200*	0-8"/0-200mm	±.0012"	11.260"	.945"	.748"	1.969"	80.00	68.00
1108-300*	0-12"/0-300mm	±.0012"	15.748"	.984"	.807"	2.362"	119.90	102.00

*Supplied with manufacturer inspection certificate traceable to NIST USA

ELECTRONIC WATERPROOF CALIPERS



1118-150B

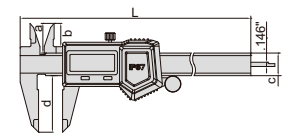


ATTENTION: NO DATA OUTPUT

ATTENTION: IT IS NECESSARY TO SET ZERO AFTER POWER ON EACH TIME

IP67 WATERPROOF

- ▶ Accuracy: ±.0012"
- ▶ IP67 dust/waterproof
- ▶ Resolution: .0005"/0.01mm
- ▶ Button function: zero, on/off, inch/mm, ABS/REL, hold
- ▶ Battery CR2032
- ▶ Made of stainless steel



Part No.	Range	L	a	b	c	d	List Price (\$)	Sale Price (\$)
1118-150B*	0-6"/0-150mm	9.291"	.827"	.630"	.630"	1.575"	164.70	140.00
1118-200B*	0-8"/0-200mm	11.260"	.945"	.748"	.630"	1.969"	252.40	214.60
1118-300B*	0-12"/0-300mm	15.748"	.984"	.807"	.669"	2.362"	303.90	258.30

*Supplied with manufacturer inspection certificate traceable to NIST USA

DIAL CALIPERS

- ▶ Shockproof dial indicator
- ▶ Made of stainless steel



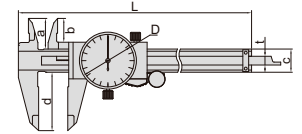
1311-6

SHOCK PROOF



Dial indicator graduation .001"

Part No.	Range	Accuracy	L	a	b	c	d	D	t	List Price (\$)	Sale Price (\$)
1311-6*	0-6"	±.0015"	9.252"	.827"	.650"	.630"	1.575"	1.535" DIA	.256"	53.50	45.50
1311-8*	0-8"	±.0020"	11.339"	.945"	.748"	.630"	1.890"	1.535" DIA	.256"	71.00	60.40
1311-12*	0-12"	±.0020"	16.142"	1.102"	.866"	.787"	2.441"	1.752" DIA	.295"	124.50	105.80

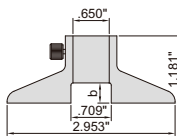


*Supplied with manufacturer inspection certificate traceable to NIST USA

DEPTH BASE ATTACHMENT



6140



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

Part No.	Application	b	List Price (\$)	Sale Price (\$)
6140	suitable for calipers with beam width (w) .630"	.354"	20.50	17.40

ELECTRONIC CALIPER WITH INTERCHANGEABLE POINTS PART NO. 1526-200

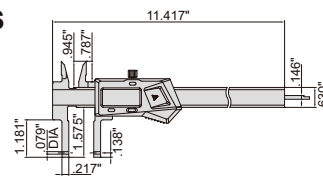


1526-200

DATA OUTPUT

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

depth stop 6143 (optional)



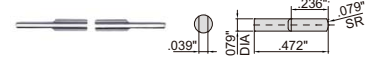
short spherical points (included)



long spherical/flat points (included)



spherical blade points (included)



Part No.	List Price (\$)	Sale Price (\$)
1526-200	367.20	312.00

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

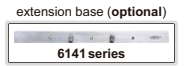
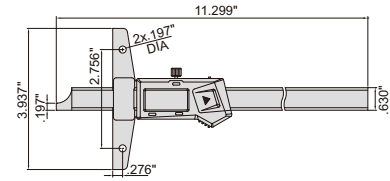
ELECTRONIC DEPTH GAGE WITH MOUNTING HOLES FOR EXTENSION BASE

DATA OUTPUT

- ▶ 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, extension base

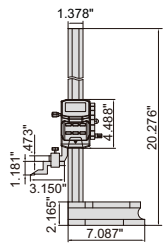
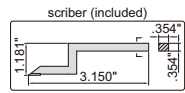


1147-200



Part No.	Range	Accuracy	List Price (\$)	Sale Price (\$)
1147-200	0-8"/0-200mm	±.0012"	156.80	133.20

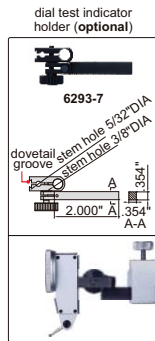
ELECTRONIC HEIGHT GAGE WITH DRIVING WHEEL



1156-300

METAL RACK

DATA OUTPUT



- ▶ Resolution: .0005"/0.01mm
- ▶ Buttons: on/off, zero, inch/mm, preset +, preset -, hold
- ▶ Automatic power off, move the digital unit to turn on power
- ▶ Carbide tipped scribe
- ▶ Made of stainless steel
- ▶ Battery CR2032, data output
- ▶ Supplied with dust cover
- ▶ Optional accessory: data output cable, dial test indicator holder (part no. 6293-7), clamp for protractors (part no. 2372-CLAMP)



Part No.	Range	Accuracy	List Price (\$)	Sale Price (\$)
1156-300	0-12"/0-300mm	±.0012"	532.00	452.00

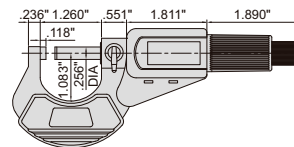
ELECTRONIC OUTSIDE MICROMETER

INSPECTION CERTIFICATE TRACEABLE TO NIST

ATTENTION: NO DATA OUTPUT



3109-25E



spherical anvil is included



- ▶ Resolution: .00005"/0.001mm
- ▶ Button functions: on/off, set, inch/mm, ABS/INC
- ▶ No data output, friction thimble
- ▶ LR44 battery, automatic power off
- ▶ Carbide measuring faces
- ▶ Supplied with spherical anvil

Part No.	Range	Accuracy	List Price (\$)	Sale Price (\$)
3109-25E*	0-1"/0-25mm	±.00010"	99.90	84.90

*Supplied with manufacturer inspection certificate traceable to NIST USA

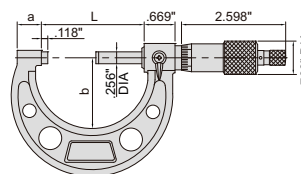
OUTSIDE MICROMETERS

INSPECTION CERTIFICATE TRACEABLE TO NIST

INSIZE ISO17025 CERTIFICATE AVAILABLE AT EXTRA CHARGE



3203-2A



3203-4A

Individual

Part No.	Range	Accuracy	L	a	b	List Price (\$)	Sale Price (\$)
3203-1A*	0-1"	.00016"	1.260"	.354"	1.102"	34.70	29.50
3203-2A*	1-2"	.00016"	2.244"	.551"	1.496"	38.70	32.90
3203-3A*	2-3"	.00020"	3.228"	.591"	1.929"	43.10	36.60
3203-4A*	3-4"	.00020"	4.213"	.591"	2.362"	48.70	41.40

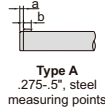
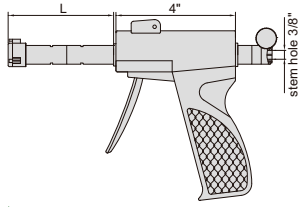
Set

Part No.	Range	Micrometers included	Packaging	List Price (\$)	Sale Price (\$)
3203-33A*	0-3"	3203-1A, 3203-2A, 3203-3A	blow mould case	101.80	86.70
3203-44A*	0-4"	3203-1A, 3203-2A, 3203-3A, 3203-4	blow mould case	149.50	128.00
3203-66A*	0-6"	3203-1A, 3203-2A, 3203-3A, 3203-4A, 3203-5A, 3203-6A	blow mould case	263.70	224.00

*Supplied with manufacturer inspection certificate traceable to NIST USA

- ▶ Graduation: .0001"
- ▶ Ratchet stop
- ▶ Carbide measuring faces
- ▶ Supplied with setting standards (except 0-1")

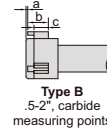
PISTOL GRIP THREE POINTS BORE GAGES



Type A
.275-.5", steel measuring points



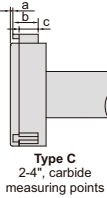
2124-E035
electronic indicator is not included



Type B
.5-2", carbide measuring points



2124-E1
electronic indicator is not included



Type C
2-4", carbide measuring points



2124-E4
electronic indicator is not included

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



Individual

Part No.	Range	Type	Accuracy	Setting ring (included)	Extension rod (included)	L	a	b	c	List Price (\$)	Sale Price (\$)
2124-E035*	.275-.35"	A	.00016"	.275" DIA	4"	2"	.059"	.098"	—	472.90	402.00
2124-E0425*	.35-.425"	A	.00016"	.35" DIA	4"	2"	.059"	.098"	—	463.30	394.00
2124-E05*	.425-.5"	A	.00016"	.5" DIA	4"	2"	.059"	.098"	—	491.30	418.00
2124-E065*	.5-.65"	B	.00016"	.65" DIA	6"	2.6"	.020"	.236"	.177"	497.10	423.00
2124-E08*	.65-.8"	B	.00016"	.65" DIA	6"	2.6"	.020"	.236"	.177"	527.00	448.00
2124-E1*	.8-1"	B	.00016"	1" DIA	6"	3.64"	.020"	.315"	.236"	561.40	477.00
2124-E112*	1-1.2"	B	.00016"	1" DIA	6"	3.64"	.020"	.315"	.236"	598.30	509.00
2124-E16*	1.2-1.6"	B	.00016"	1.6" DIA	6"	3.88"	.020"	.551"	.472"	643.00	547.00
2124-E2*	1.6-2"	B	.00020"	1.6" DIA	6"	3.88"	.020"	.551"	.472"	685.00	582.00
2124-E25*	2-2.5"	C	.00020"	2.5" DIA	6"	4.48"	.020"	.689"	.571"	742.30	631.00
2124-E3*	2.5-3"	C	.00020"	2.5" DIA	6"	4.48"	.020"	.689"	.571"	790.30	672.00
2124-E35*	3-3.5"	C	.00020"	3.5" DIA	6"	4.48"	.020"	.689"	.571"	841.30	715.00
2124-E4*	3.5-4"	C	.00020"	3.5" DIA	6"	4.48"	.020"	.689"	.571"	895.40	761.00

setting rings are included



extension rods are included



*Supplied with manufacturer inspection certificate

THREE POINTS INTERNAL MICROMETERS



micrometer stand with clamp (optional)

- .275-.5": graduation .0001"
- .5-4": graduation .0002"
- Ratchet stop
- Optional accessory: setting rings (part no. 6313), micrometer stand and clamp (part no. 6301 and 6301-2)



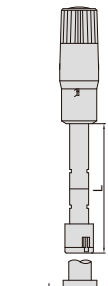
3227-E035



Type A
.275-.5", steel points



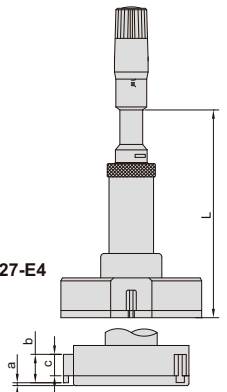
3227-E065



Type B
.5-2", carbide points



3227-E4



Type C
2-4", carbide points

setting rings are included



extension rods are included



Individual

Part No.	Range	Type	Accuracy	Setting ring (included)	Extension rod (included)	L	a	b	c	List Price (\$)	Sale Price (\$)
3227-E035*	.275-.35"	A	.00016"	.275" DIA	4"	2.146"	.059"	.098"	—	431.10	366.00
3227-E0425*	.35-.425"	A	.00016"	.35" DIA	4"	2.146"	.059"	.098"	—	431.10	366.00
3227-E05*	.425-.5"	A	.00016"	.5" DIA	4"	2.146"	.059"	.098"	—	431.10	366.00
3227-E065*	.5-.65"	B	.00016"	.65" DIA	6"	3.150"	.020"	.236"	.177"	325.80	277.00
3227-E08*	.65-.8"	B	.00016"	.65" DIA	6"	3.150"	.020"	.236"	.177"	325.80	277.00
3227-E1*	.8-1"	B	.00016"	1" DIA	6"	3.543"	.020"	.315"	.236"	457.70	389.00
3227-E112*	1-1.2"	B	.00016"	1" DIA	6"	3.543"	.020"	.315"	.236"	457.70	389.00
3227-E16*	1.2-1.6"	B	.00016"	1.6" DIA	6"	3.819"	.020"	.551"	.472"	492.50	419.00
3227-E2*	1.6-2"	B	.00020"	1.6" DIA	6"	3.819"	.020"	.551"	.472"	571.90	486.00
3227-E25*	2-2.5"	C	.00020"	2.5" DIA	6"	4.488"	.020"	.689"	.571"	619.90	527.00
3227-E3*	2.5-3"	C	.00020"	2.5" DIA	6"	4.488"	.020"	.689"	.571"	664.80	565.00
3227-E35*	3-3.5"	C	.00020"	3.5" DIA	6"	4.488"	.020"	.689"	.571"	694.80	591.00
3227-E4*	3.5-4"	C	.00020"	3.5" DIA	6"	4.488"	.020"	.689"	.571"	722.50	615.00

Set

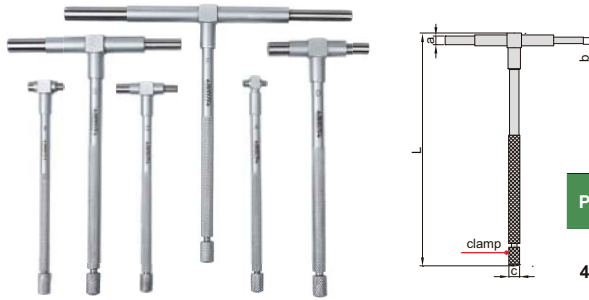
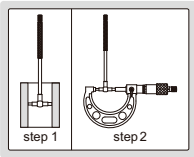
Part No.	Range	Micrometers included	Setting ring (included)	Extension rod (included)	List Price (\$)	Sale Price (\$)
3227-E053*	.275-.5"	.275-.35", .35-.425", .425-.5"	.275" DIA, .35" DIA, .5" DIA	4"	1205.00	1025.00
3227-E082*	.5-.8"	.5-.65", .65-.8"	.65" DIA	6"	606.10	515.00
3227-E24*	.8-2"	.8-1", 1-1.2", 1.2-1.6", 1.6-2"	1" DIA, 1.6" DIA	6"	1730.00	1471.00
3227-E44*	2-4"	2-2.5", 2.5-3", 3-3.5", 3.5-4"	2.5" DIA, 3.5" DIA	6"	2307.00	1961.00



3227-E24

*Supplied with manufacturer inspection certificate

TELESCOPING GAGE SET



4206-1

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

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

Part No.	Total range	Gages included	List Price (\$)	Sale Price (\$)
4206-1	5/16~6"	5/16~1/2", 1/2~3/4", 3/4~1-1/4", 1-1/4~2-1/8", 2-1/8~3-1/2", 3-1/2~6"	40.60	34.50

BORE GAGES

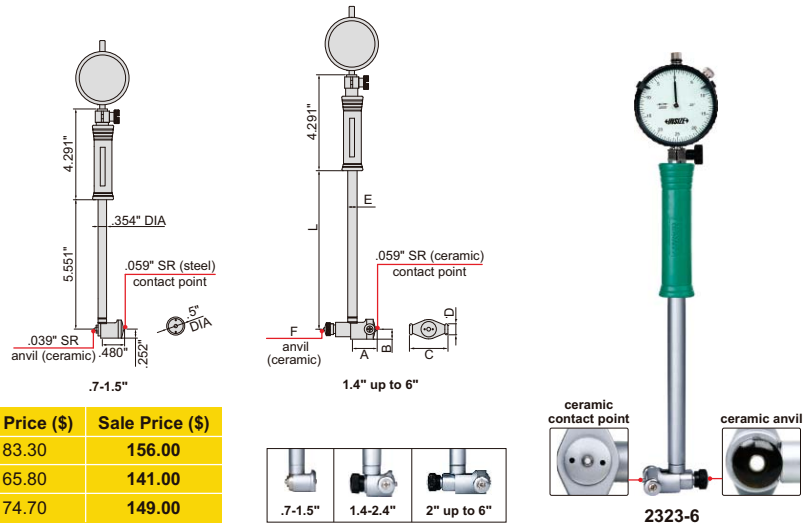
ATTENTION: NOT SUITABLE FOR .00005" OR .0001" DIAL INDICATORS

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

Range	A	B	C	D	E	F	L
1.4-2.4"	.866"	.354"	1.063"	.512" DIA	.504" DIA	.079" R	5.551"
2-6"	1.024"	.354"	1.378"	.512" DIA	.504" DIA	.079" R	5.551"

With dial indicator

Part No.	Range	Indicator	Accuracy	Repeatability	List Price (\$)	Sale Price (\$)
2323-15	.7-1.5"	dial indicator, range .25", graduation .0005"	±.00075"	.00015"	183.30	156.00
2323-24	1.4-2.4"	dial indicator, range .25", graduation .0005"	±.0009"	.00015"	165.80	141.00
2323-6	2-6"	dial indicator, range .25", graduation .0005"	±.0009"	.00015"	174.70	149.00



BORE GAGE SETS

packaging (part no. 2824-S3E)



- ▶ Repeatability: .00015"
- ▶ Dial indicator: range .25", graduation .0005"
- ▶ Optional accessory: setting ring (part no. 6313)

ATTENTION: NOT SUITABLE FOR .00005" OR .0001" DIAL INDICATORS

Part No.	Range	Bore gages included	Accuracy	List Price (\$)	Sale Price (\$)
2824-S2E	1.4-6"	① 1.4-2" (dial indicator and handle are not included) ② 2-6"	1.4-2" ±.0009" 2-6" ±.0009"	198.00	168.00
2824-S3E	.7-6"	① .7-1.5" ② 1.4-2.4" (dial indicator is not included) ③ 2-6" (dial indicator is not included)	.7-1.5" ±.00075" 1.4-2.4" ±.0009" 2-6" ±.0009"	457.00	388.00

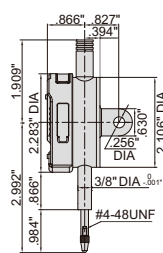


ELECTRONIC INDICATOR (STANDARD MODEL)

INSPECTION CERTIFICATE TRACEABLE TO NIST

DATA OUTPUT

2112-10E



- ▶ Accuracy: ±.0015"
- ▶ Hysteresis: .0005"
- ▶ Meet ASME B89.1.10M-2001
- ▶ Button function: on/off, inch/mm, zero
- ▶ CR2032 battery, automatic power off
- ▶ Data output
- ▶ Lug back
- ▶ Optional accessory: data output cable, backs, contact points



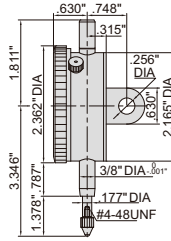
Part No.	Range	Resolution	List Price (\$)	Sale Price (\$)
2112-10E *	.5"/12.7mm	.0005"/0.01mm	122.20	104.00

* Supplied with manufacturer inspection certificate traceable to NIST USA

DIAL INDICATOR



2307-1



- ▶ Graduation: .001"
- ▶ Meet ASME B89.1.10M-2001
- ▶ Lug back
- ▶ Supplied with limit pointers and bezel clamp
- ▶ Optional accessory: backs, contact points

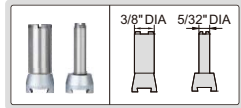
Part No.	Range	Accuracy		Range /rev	Dial reading	List Price (\$)	Sale Price (\$)
		First 2.5 rev	Overall				
2307-1*	1"	±.001"	±.002"	.1"	0-100	32.10	27.30

*Supplied with manufacturer inspection certificate traceable to NIST USA

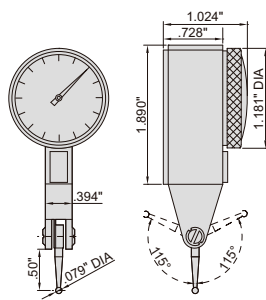
DIAL TEST INDICATORS



clamps are included



2380-31



- ▶ Dial reading: 0-15-0
- ▶ Jeweled bearing
- ▶ Carbide contact point
- ▶ Two measuring directions
- ▶ Anti magnetic body
- ▶ Supplied with two clamps: 5/32" DIA and 3/8" DIA
- ▶ Optional accessory: styli

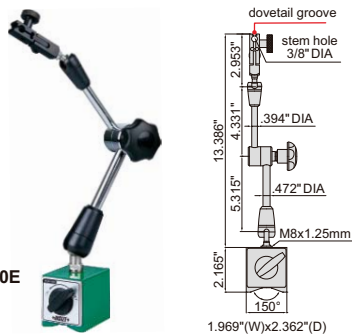
Part No.	Range	Graduation	Accuracy	List Price (\$)	Sale Price (\$)
2380-31*	.03"	.001"	±.001"	68.60	58.30
2380-35*	.03"	.0005"	±.0005"	86.20	73.30

*Supplied with manufacturer inspection certificate traceable to NIST USA

UNIVERSAL MAGNETIC STAND

- ▶ For digital/dial indicators and dial test indicator
- ▶ With fine adjustment and dovetail grooves

6210-80E

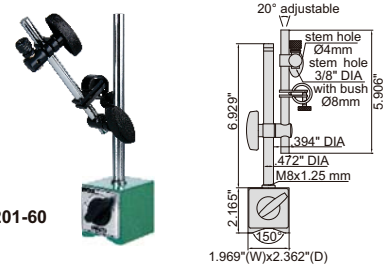


Part No.	Magnetic force	Applicable holding stem	List Price (\$)	Sale Price (\$)
6210-80E	176lbf	3/8" DIA	144.60	123.00

MAGNETIC STAND

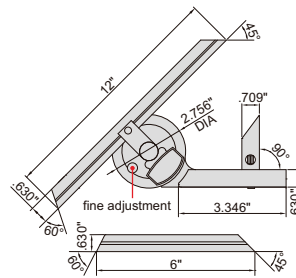
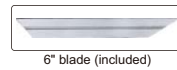
- ▶ Applicable holding stem: 3/8" DIA, Ø8mm, Ø4mm
- ▶ For electronic/dial indicators and dial test indicators

6201-60



Part No.	Magnetic force	Remark	List Price (\$)	Sale Price (\$)
6201-60	132lbf	with fine adjustment	26.20	22.30

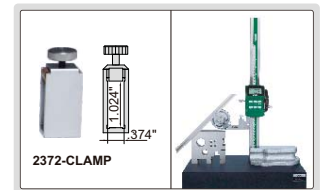
UNIVERSAL PROTRACTOR



2372-360

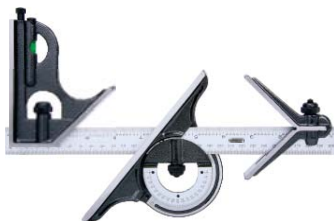
- ▶ Parallax-free reading
- ▶ Made of stainless steel
- ▶ Optional accessory: clamp (part no. 2372-CLAMP), suitable for height gages 1156, 1351 and 1250

clamp for height gages (optional)

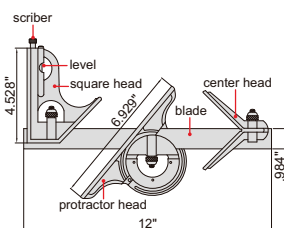


Part No.	Range	Graduation	Accuracy	List Price (\$)	Sale Price (\$)
2372-360	0-360°	5'	±5'	97.30	82.70

COMBINATION SQUARE SET

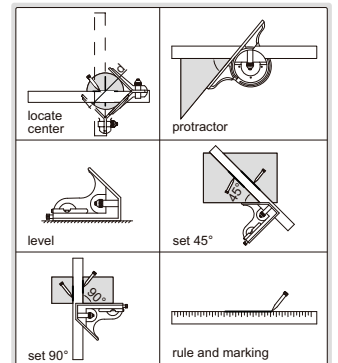


2278-180E



- ▶ 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)

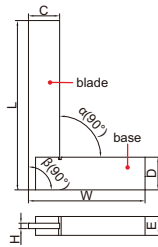
Part No.	Remark	Blade Range	Blade Graduation	List Price (\$)	Sale Price (\$)
2278-180E	4 piece set	12"	1/8" and 1/16" on front face, 1/32" and 1/64" on back face	141.20	120.00



MACHINIST SQUARES WITH WIDE BASE



4707-100



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

ATTENTION: NO ANTI-RUST TREATMENT, NOT HARDENED

ATTENTION: LOW ACCURACY

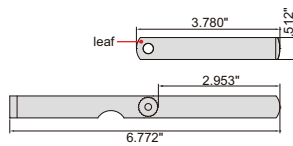
Part No.	Size (LxW)	Squareness		C	D	H	E	List Price (\$)	Sale Price (\$)
		Inside (α)	Outside (β)						
4707-100	3.9x2.8"	1.10mil	1.18mil	.748"	.748"	.118"	.472"	19.20	16.30
4707-150	6x4"	1.30mil	1.38mil	.984"	.984"	.118"	.630"	27.20	23.10
4707-200	8x5"	1.46mil	1.58mil	1.181"	1.260"	.157"	.630"	49.60	42.20
4707-300	12x8"	1.85mil	1.97mil	1.260"	1.260"	.157"	.748"	72.00	61.20

FEELER GAGE

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



4608-31



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

Part No.	Range	Quantity of Leaves	List Price (\$)	Sale Price (\$)
4608-31	.0015"-.035"	32	9.40	8.00

2-PIECE MEASURING TOOL SET

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



5022

Part No.	List Price (\$)	Sale Price (\$)
5022	169.00	144.00

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)



5003-1

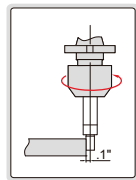
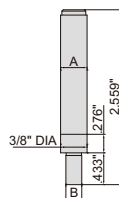
Part No.	List Price (\$)	Sale Price (\$)
5003-1	99.90	84.90

EDGE FINDER

- ▶ Hardened shank and contact point



6567-1E



Part No.	Shank (A)	Contact point (B)	Accuracy	List Price (\$)	Sale Price (\$)
6567-1E	3/8" DIA	.2" DIA	.0003"	34.70	29.50

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)



5003-1E

Part No.	List Price (\$)	Sale Price (\$)
5003-1E	93.80	79.70

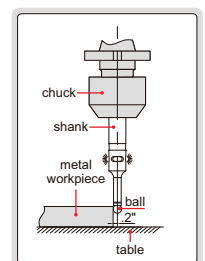
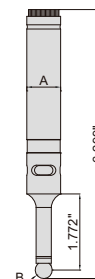
ELECTRONIC EDGE FINDER

- ▶ Battery: 23AE, 12Vx1pc
- ▶ The shank is electrically conducted to the metal workpiece through the chuck and table, the LED lights up when the ball touches the workpiece
- ▶ Not suitable for rotary use
- ▶ Hardened shank and contact ball

Part No.	Shank (A)	Contact ball (B)	Accuracy	List Price (\$)	Sale Price (\$)
6566-2E	3/4" DIA	.4" DIA	.0002"	118.00	100.00



6566-2E



VISION MEASURING SYSTEM



SPECIFICATION

Part No.	ISD-V150	ISD-V250	ISD-V300
List Price (\$)	9577.00	10807.00	11922.00
Sale Price (\$)	8140.00	9186.00	10134.00
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"
Stage glass size	8.27*6.30"	12.05*7.72"	13.78*9.84"
Resolution of X/Y/Z axis	.00002"		
Accuracy of X/Y axis	≤(98.4+10L)µin (L is the measuring length 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, 1.5M 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

OPTIONAL ACCESSORY

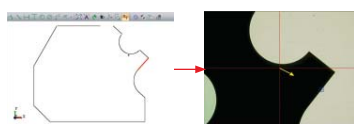
0.5X auxiliary objective	Part No. ISD-V-OB05X Working distance: 6.89" Magnification: 16.5~97.5X (on 19" monitor)
2X auxiliary objective	Part No. ISD-V-OB2X Working distance: 1.42" Magnification: 66~390X (on 19" monitor)
Probe	Part No. ISD-V-PROBE includes Ø2mm/.079" DIA and Ø3mm/.118" DIA styli, Ø25mm/.984"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

SOFTWARE

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

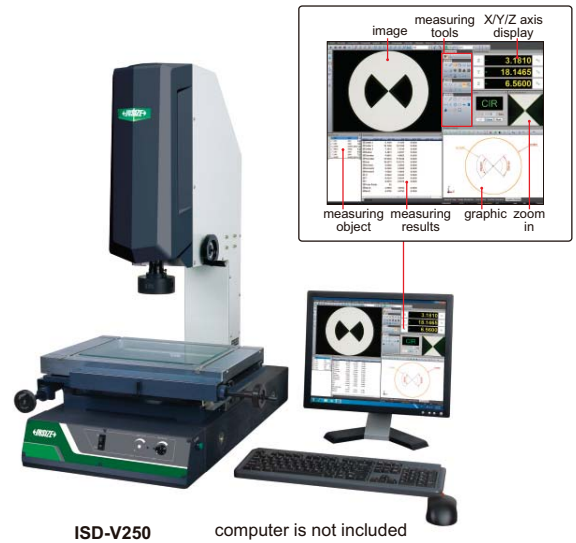
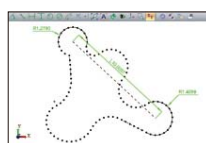
- measure coordinate of point
- measure distance between two points
- measure center coordinate and axis length of ellipse
- measure length, width and diameter of key slot
- measure length of open curve
- measure focus distance of surface
- measure angle of two lines
- measure center coordinate, diameter and area of circle
- measure length and diameter of arc
- measure length, width and area of rectangle
- measure width and diameter of ring
- measure length and area of close curve
- measure distance of two elements

CAD measuring:



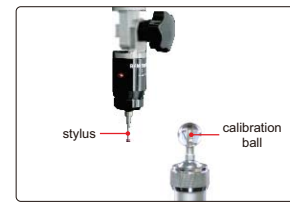
Input CAD drawing and set reference, then move the stage to make the target box in the center of crosshair, the software will do automatic measurement

Contour scanning:



ISD-V250

computer is not included



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



software CD (included)

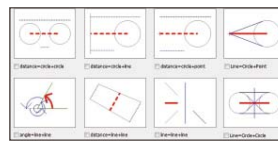


lens with coaxial light (optional, must be installed in factory)

STANDARD DELIVERY

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

Combined measuring tools:



measure distance and angle of two elements

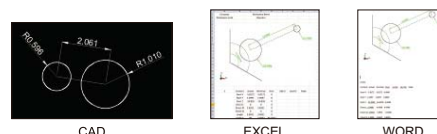
Profile detection:



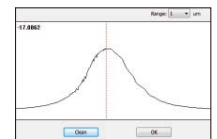
Coordinate transfer:



Data export to CAD, EXCEL and WORD



Focus indicator:



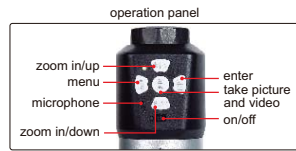
Edge-detection:



DIGITAL MEASURING MICROSCOPE PART NO. ISM-DM40

TAKE PICTURES
AND VIDEOS

MEASUREMENT
(ON COMPUTER)



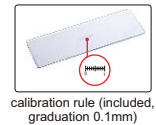
- ▶ Connected to TV and computer
- ▶ Take pictures and videos, saved to memory card
- ▶ Measurement on computer with accuracy $\pm 0.0004''$
- ▶ Large working distance because focus distance of camera is adjustable
- ▶ Automatic white balance and exposure, white-black display mode
- ▶ Automatic power off

SPECIFICATION

List Price (\$)	1188.00	
Sale Price (\$)	1010.00	
Magnification	15X~205X (on 19" monitor)	
Pixel	3.5M	
Sensor	1/3" CMOS	
Resolution	HDMI output	1920×1080, 1280×720, 640×480
	picture	2304×1536, 2304×1296, 1920×1080, 1280×720, 800×480
	video	1920×1080, 1280×720, 800×480
Output	USB/HDMI	
Power supply	5V (>500mA)	
Dimension (L×W×H)	10.75×8.07×12.2"	
Weight	7.78lb	

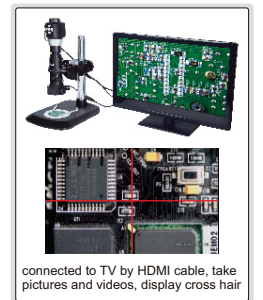


FOCUS DISTANCE OF
CAMERA IS ADJUSTABLE



STANDARD DELIVERY

Main unit	1pc
8G memory card and holder	1pc
HDMI cable (for TV)	1pc
USB cable and software (for computer)	1pc
Calibration rule (graduation 0.1mm)	1pc
Calibration rule (graduation 1mm)	1pc



OPTIONAL ACCESSORY

Measuring stage	ISM-DM40-STAGE
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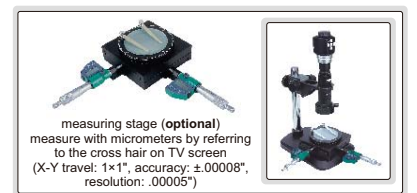


LENS SCALE, MAGNIFICATION AND FOCUS DISTANCE

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 filed	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"



SOFTWARE FOR COMPUTER

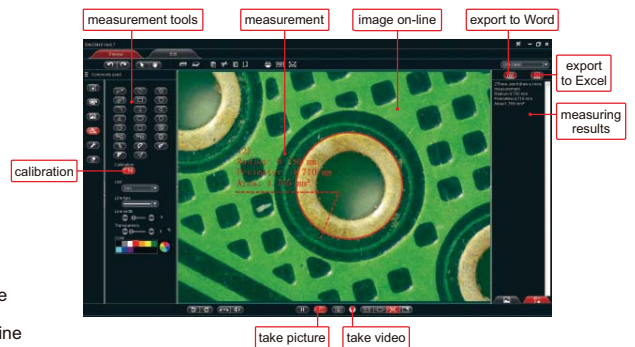
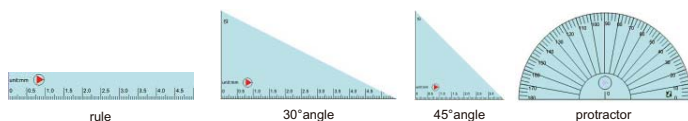
- ▶ **Language:** Chinese, English, Japanese, German, French
- ▶ **Operation system:** Windows XP/7/8/10

▶ Measurement tools:

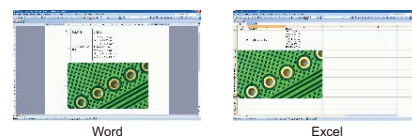
- measure radius, length and angle of arc
- measure length of continuous line
- measure distance between two parallel lines
- measure angle with three points
- measure length, width, girth and area of rectangle
- measure angle with two lines
- measure axis lengths, girth and area of ellipse
- measure distance between two circles
- measure center distance between parallel lines
- measure radius, girth and area of circle
- measure circumference and area of polygon
- measure distance between point and line
- measure length of line or distance between two points

▶ Comparison tools:

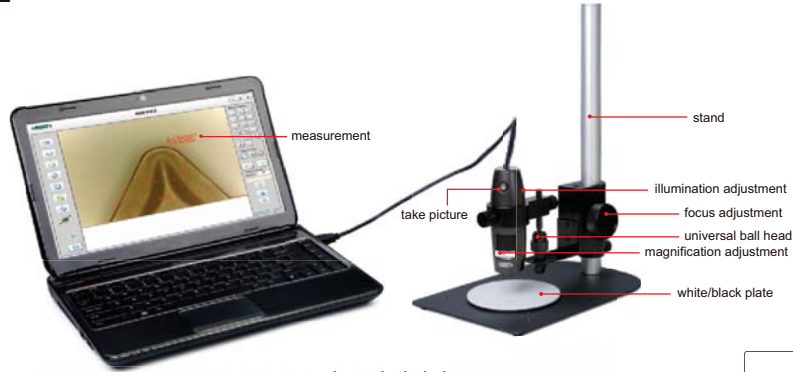
Create rule, angle or protractor, to compare with workpieces.



▶ Data export to Word or Excel:

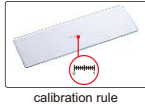


DIGITAL MEASURING MICROSCOPE
PART NO. ISM-PM200SB



computer is not included

- ▶ Can take pictures and videos
- ▶ Supplied with software



SPECIFICATION

List Price (\$)	401.70
Sale Price (\$)	342.00
Magnification	10X~200X
Type	short focus distance
Focus support	included
Calibration rule	graduation 0.1 and 1mm
Pixel	2M (resolution: 1600x1200)
Illumination	built-in adjustable LED
Power supply	USB 2.0 cable (voltage required: 5±0.1V)

OPTIONAL ACCESSORY

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

MAGNIFICATION, FOCUS DISTANCE, VIEW FIELD AND ACCURACY

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

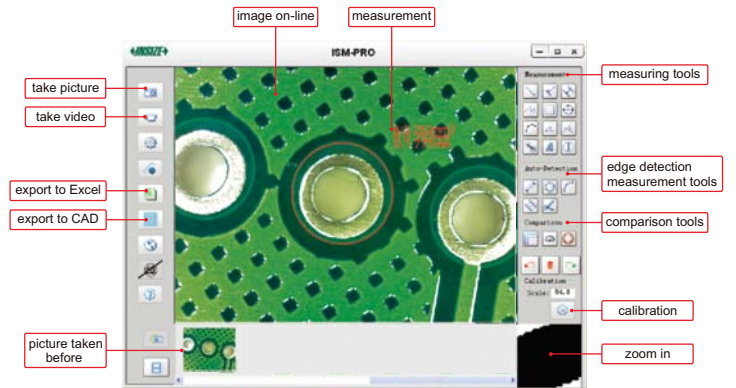
SOFTWARE

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

▶ **Edge detection measurement tools:**

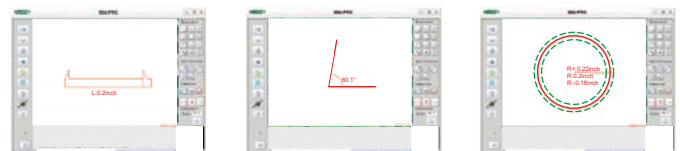
- detect line automatically, and calculate length
- detect arc automatically, and calculate radius, angle and arc length
- detect two lines automatically, and calculate angle
- detect circle automatically, and calculate radius, girth and area
- detect two parallel lines automatically, and calculate distance



▶ **Comparison tools:**

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

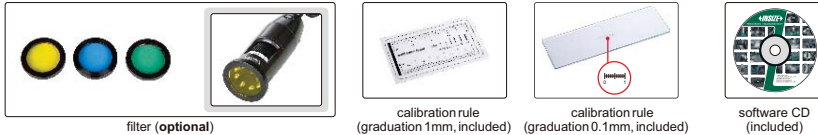
- create line
- create angle
- create circle with tolerance



▶ **Data export to CAD or Excel:**



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

List Price (\$)	368.20
Sale Price (\$)	313.00
Magnification	10X~200X
Pixel	1.3M (resolution: 1280x1024)
Illumination	built-in adjustable LED
Power supply	built-in rechargeable battery

STAND

Part No.	List Price (\$)	Sale Price (\$)
ISM-WSTD	120.80	103.00

STANDARD DELIVERY

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



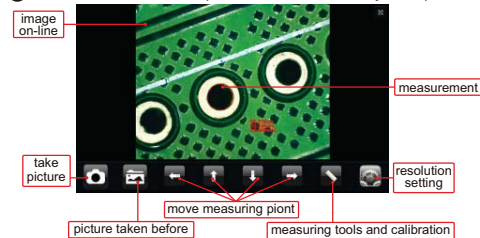
MAGNIFICATION, FOCUS DISTANCE, VIEW FIELD AND ACCURACY

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

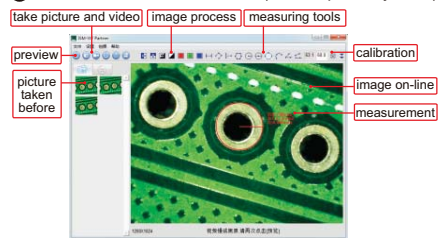
OPTIONAL ACCESSORY

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

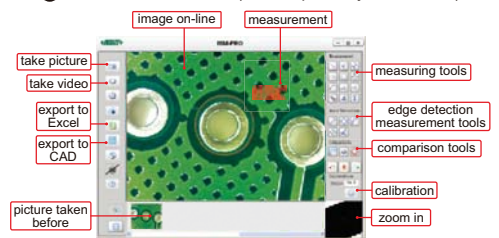
2 Software ISM-APK (for Android devices by WiFi)



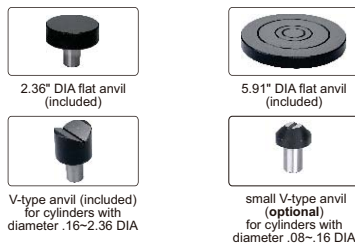
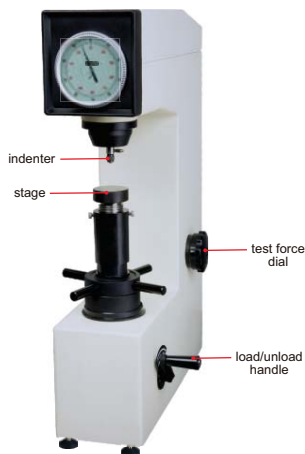
3 Software ISM-WF Partner (for computer by WiFi)



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



MANUAL ROCKWELL HARDNESS TESTER PART NO. ISH-R150



STANDARD DELIVERY

Main unit	1pc
2.36" DIA flat anvil	1pc
5.91" DIA flat anvil	1pc
V-type anvil	1pc
Diamond indenter	1pc
1/16" DIA carbide ball indenter	1pc
Hardness test block HRB88-95	1pc
Hardness test block HRC60-65	1pc
Hardness test block HRC20-30	1pc
Anti-dust cover	1pc

SPECIFICATION

List Price (\$)	2605.00
Sale Price (\$)	2215.00
Hardness scale	HRA, HRB, HRC, HRD, HRF, HRG
Preliminary test force	98N/10kgf
Test force	588N/60kgf, 980N/100kgf, 1471N/150kgf
Display	analogue
Stage elevation	manual
Load control	manual
Min. reading	0.5HR
Max. workpiece height	6.69"
Max. workpiece depth	6.50" (from the center of indenter)
Dimension	20.47×6.30×27.56"
Weight	132lb

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
PART NO. ISH-PHB**



- ▶ 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



SPECIFICATION

List Price (\$)	1278.00	
Sale Price (\$)	1086.00	
Min. reading	1HLD, 1HV, 1HB, 0.1HRC, 0.1HRB, 1HS, 1MPa	
Accuracy	±6HLD (when HLD=800)	
Display	Leeb (HLD), converted hardness, material, impact direction, test times, average value, date	
Output	bluetooth	
Applicable workpiece	minimum weight	11.02lb
		4.41lb (on solid support)
		0.22lb (coupled on plate)
	minimum thickness: .20"	
	minimum radius of curved surface: 1.18"	
	maximum roughness (Ra): 63µin	
Power supply	3×AAA batteries	
Dimension	5.91×3.31×1.10"	
Weight	0.44lb	



hardness test block D (included)



small support ring (included)



wireless printer (optional)

STANDARD DELIVERY

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

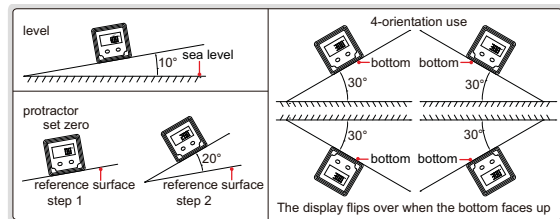
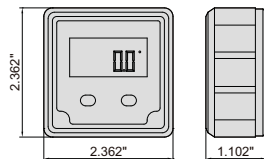
OPTIONAL ACCESSORY

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

ELECTRONIC LEVEL AND PROTRACTOR



2170-1



MAGNETIC BOTTOM

ABSOLUTE LEVEL

BACKLIGHT

- ▶ 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

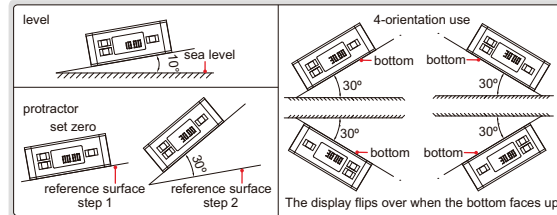
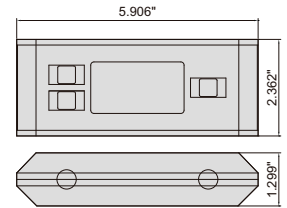
DISPLAY FLIPS OVER WHEN THE BOTTOM FACES UP

Part No.	Range	Resolution	Accuracy	List Price (\$)	Sale Price (\$)
2170-1	4×90°	0.1° (=0.021in/ft)	0° and 90°: ±0.1°; others: ±0.2°	89.50	76.10

ELECTRONIC LEVEL AND PROTRACTOR



2179-360



IP54 WATERPROOF

ABSOLUTE LEVEL

BACKLIGHT

BUZZER ALARM AT 0° AND 90°

- ▶ IP54 dust/waterproof
- ▶ Aluminum frame
- ▶ 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, unit (in/ft, %, mm/m), backlight
- ▶ Two AAA batteries, automatic power off

Part No.	Range	Resolution	Accuracy	List Price (\$)	Sale Price (\$)
2179-360	0-360° (90°×4)	0.05° / .125in/ft	0° and 90°: ±0.1°; others: ±0.2°	147.30	125.00

**ROUGHNESS TESTER
PART NO. ISR-C003**



calibration block and support (included)



STANDARD DELIVERY

Main unit	1pc
Calibration block and support	1pc of each
AC/DC adapter	1pc

- ▶ Unit: µm, µin
- ▶ Automatic power off

SPECIFICATION

List Price (\$)	1575.00	
Sale Price (\$)	1339.00	
Parameters	Ra, Rz, Rq, Rt	
Range	Ra, Rq: 2-590µin Rz, Rt: 4-1968µin	
Accuracy	±10%	
Resolution (Ra)	0.01µin	
Probe	type	piezoelectric
	stylus radius/angle	393µin/90°
	stylus material	diamond
Measuring force	.012ozf	
Measuring unit	µm/µin	
Cut off	.01/.03/.1"	
Evaluation length	.05" for cut off .01"	
	.15" for cut off .03"	
	.2" for cut off .1"	
Traverse speed	.03"/s	
Power	built-in rechargeable battery	
Dimension (L×W×H)	4.17×2.75×.94"	
Weight	.44lb	

ROUGHNESS TESTER
PART NO. ISR-C002

CAN BE CONTROLLED
BY COMPUTER

DATA
OUTPUT

- ▶ 21 roughness parameters
- ▶ Display roughness values, profile and curve
- ▶ Memory of maximum 100 results
- ▶ Automatic power off



software CD (included)



adjustable stand (included)



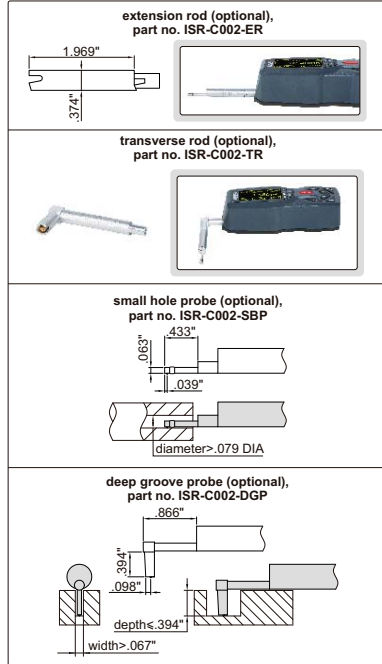
printer (optional)



probe cover (included)



put the small workpieces directly
under the probe for measurement



light duty test stand (optional)



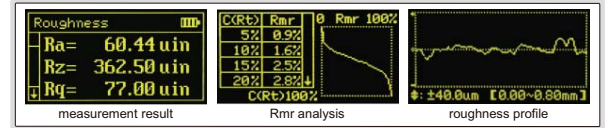
the maximum workpiece
height is 8.66"

heavy duty test stand (optional)

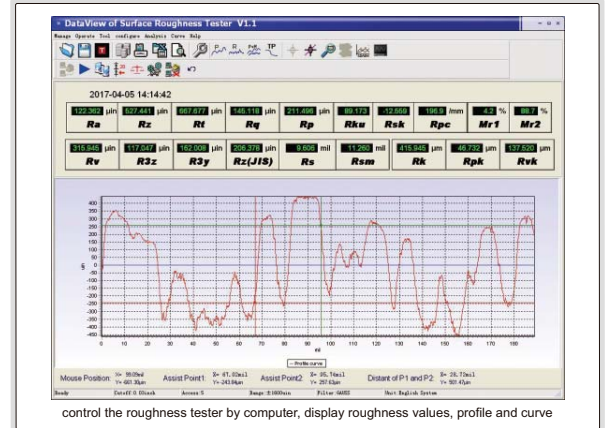


the maximum workpiece
height is 12.20"

screen display



measuring software for PC (included)



SPECIFICATION

List Price (\$)	2090.00
Sale Price (\$)	1777.00
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	6299µm
Accuracy	±10%
Resolution (Ra)	0.01µm
Probe	type: inductive stylus radius/angle: 196µm/90° stylus material: diamond
Measuring force	.01ozf
Measuring unit	µm/µin
Cut off	.01/.03/.1"
Number of cut-offs	1 to 5
Traverse 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	1pc
Standard probe	1pc
Calibration block and support	1pc of each
Adjustable stand	1pc
Probe cover	1pc
USB cable and software for PC	1pc
AC/DC adapter	1pc

OPTIONAL ACCESSORY

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

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