

INDUSTRY NEWS



Your Measuring Instrument Source!



SPRING 2024

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PORTABLE LEEB HARDNESS TESTER (BASIC TYPE)

NEW

- Can change probes
- Dual-coil probes for high accuracy
- Universal testing angle, no need to set impact direction
- Based on Leeb (HLD), converted to Vickers (HV), Brinell (HB), Rockwell (HRC, HRB), Shore (HSD) and tensile strength (σb)
- Dual value display, shows both Leeb and converted hardness
- Large LCD display with backlight
- Can choose large font display and statistics display
- Automatically calculate maximum, minimum and average value
- Save 300 data
- Operation temperature: 14°F-113°F
- According to ASTM A956, GB/T 17394

SPECIFICATION

Part No.	HDT-LP200
List price	\$ 590.00
Resolution	1HLD/1HV/1HB/0.1HRC/0.1HRB/0.1HSD/1σb
Accuracy	±6HLD (when HLD=800)
Measuring range	HL 170-960/HRC 17-70/HRB 13-109/HB 20-656/HV 80-940/HSD 32-99.5/σb(mm) 255-2639/N/mm ²
Power supply	2xAA battery
Dimension	5.31×3.03×1.26"
Weight	.53lb



Impact devices (optional)



DIGITAL CALIPERS (STANDARD TYPE)

DATA OUTPUT

- Non waterproof
- 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. 7315-21, 7302-21)



1108-150

Part No.	Range	Accuracy	List price
1108-150	0-6"/0-150mm	±.0010"	\$ 69.70
1108-200	0-8"/0-200mm	±.0015"	\$ 103.00
1108-300	0-12"/0-300mm	±.0015"	\$ 155.00

Starting At \$ 69.70

DIAL CALIPERS

SHOCK PROOF

- Dial indicator graduation .001"
- Shockproof dial indicator
- Made of stainless steel

Part No.	Range	Accuracy	List price
1311-4	0-4"	±.0012"	\$ 88.00
1311-6	0-6"	±.0015"	\$ 72.80
1311-8	0-8"	±.0020"	\$ 96.70
1311-12	0-12"	±.0020"	\$ 162.00



1311-6

Starting At \$ 72.80

LEFT HAND DIGITAL CALIPERS

- Non waterproof
- 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. 7315-22, 7302-22)

Part No.	Range	Accuracy	List price
1130-150	0-6"/0-150mm	±.0015"	\$ 168.00
1130-200	0-8"/0-200mm	±.0015"	\$ 198.00
1130-300	0-12"/0-300mm	±.0015"	\$ 286.00



1130-150

Starting At \$ 168.00

DIGITAL HEIGHT GAUGES WITH DRIVING WHEEL

DATA OUTPUT

- Non waterproof
- Resolution .0005"/0.01mm
- Buttons: on/off, zero, inch/mm, preset +, preset -, ABS/INC
- 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
- With dial test indicator holder
- Optional accessory: data output cable (part no. 7315-22, 7302-22) clamp for protractors (part no. 2372-CLAMP)

Part No.	Range	Accuracy	List price
1156-300E	0-12"/0-300mm	±.0015"	\$ 734.00
1156-600E	0-24"/0-600mm	±.0020"	\$ 1075.00



1156-300E

Starting At \$ 734.00

OUTSIDE MICROMETERS

INSIZE CERTIFICATE



Starting At \$ 45.90

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

Part No.	Range	Accuracy	List price
3203-1A*	0-1"	.00015"	\$ 45.90
3203-2A*	1-2"	.00015"	\$ 51.30
3203-3A*	2-3"	.00020"	\$ 57.00
3203-4A*	3-4"	.00020"	\$ 64.20
3203-5A*	4-5"	.00025"	\$ 81.10
3203-6A*	5-6"	.00025"	\$ 81.90
3203-7A	6-7"	.00030"	\$ 109.00
3203-8A	7-8"	.00030"	\$ 117.00
3203-9A	8-9"	.00030"	\$ 130.00
3203-10A	9-10"	.00030"	\$ 137.00
3203-11A	10-11"	.00035"	\$ 158.00
3203-12A	11-12"	.00035"	\$ 169.00

Part No.	Range	Micrometers included	Packaging	List price
3203-33A*	0-3"	3203-1A, 3203-2A, 3203-3A	blow mould case	\$ 138.00
3203-44A*	0-4"	3203-1A, 3203-2A, 3203-3A, 3203-4A	blow mould case	\$ 199.00
3203-66A*	0-6"	3203-1A, 3203-2A, 3203-3A, 3203-4A, 3203-5A, 3203-6A	blow mould case	\$ 351.00
3203-126A	6-12"	3203-7A, 3203-8A, 3203-9A, 3203-10A, 3203-11A, 3203-12A	aluminum box	\$ 704.00
3203-1212A	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	\$ 1024.00

*Supplied with manufacturer inspection certificate

DIGITAL OUTSIDE MICROMETERS (BASIC TYPE, WITHOUT DATA OUTPUT)

ATTENTION: NO DATA OUTPUT

Starting At \$ 128.00



3109-25E

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

Part No.	Range	Accuracy	List price
3109-25E*	0-1"/0-25mm	±.00010"	\$ 128.00
3109-50E*	1-2"/25-50mm	±.00015"	\$ 154.00
3109-75E*	2-3"/50-75mm	±.00015"	\$ 205.00
3109-100E*	3-4"/75-100mm	±.00015"	\$ 216.00
3109-125E*	4-5"/100-125mm	±.00015"	\$ 216.00
3109-150E*	5-6"/125-150mm	±.00015"	\$ 237.00

*Supplied with manufacturer inspection certificate

Part No.	Range	Micrometers included	Packaging	List price
3109-33E*	0-3"/0-75mm	3109-25E, 3109-50E, 3109-75E	blow mould case	\$ 369.00
3109-44E*	0-4"/0-100mm	3109-25E, 3109-50E, 3109-75E, 3109-100E	blow mould case	\$ 537.00
3109-66E	0-6"/0-150mm	3109-25E, 3109-50E, 3109-75E, 3109-100E, 3109-125E, 3109-150E	aluminum box	\$ 968.00

INDUSTRY NEWS

INSIZE PRECISION MEASUREMENT

DIAL DEPTH GAUGE

\$ 106.00

- Dial indicator stroke .5"
- Dial indicator graduation .001"
- Stainless steel base
- Supplied with pointed tip and ball tip

Part No.	Range	Accuracy	List price
2341-E1	0-1.2"	±.0012"	\$ 106.00



DIGITAL INDICATORS (STANDARD TYPE)



Starting At \$ 152.00

- Meet ASME B89.1.10M-2001
- Button function: on/off, inch/mm, zero, data preset, change measuring direction, absolute/incremental measurement
- Switchable high/low frequency measurement mode, high frequency mode is suitable for high speed moving of spindle and has large power consumption, low power consumption in low frequency mode
- Keep preset data in memory after restart
- CR2032 battery
- Automatic power off (time is adjustable)
- Data output, with lug back
- Optional accessory: data output cable (part no. 7315-50M, 7302-40M, 7305-40M), backs, contact points



2112-10E

BORE GAUGES

ATTENTION: NOT SUITABLE FOR .0005" OR .001" DIAL INDICATORS

Starting At \$ 218.00

- Repeatability .00015"
- Optional accessory: setting ring (part no. 6313), long handle (part no. 7351), bore gauge setter

With dial indicator

Part No.	Range	Indicator	Accuracy	List price
2323-15	7-1.5"	dial indicator, range .25", graduation .0005"	±.00075"	\$ 239.00
2323-24	1.4-2.4"		±.0009"	\$ 218.00
2323-6	2-6"		±.0009"	\$ 230.00
2323-10	6-10"		±.0009"	\$ 278.00
2323-16	10-16"		±.0009"	\$ 325.00



2323-6

Resolution .00005"/0.001mm

Part No.	Range	Accuracy	Hysteresis	Maximum measuring force	List price
2112-101E	5"/12.7mm	±.00015"	.00005"	337lbf	\$ 359.00
2112-251E	1"/25.4mm	±.00015"	.00005"	495lbf	\$ 340.00
2112-501E	2"/50.8mm	±.00015"	.00005"	562lbf	\$ 613.00

Resolution .0005"/0.01mm

Part No.	Range	Accuracy	Hysteresis	Maximum measuring force	List price
2112-10E	5"/12.7mm	±.0015"	.0005"	337lbf	\$ 152.00
2112-25E	1"/25.4mm	±.0015"	.0005"	495lbf	\$ 166.00
2112-50E	2"/50.8mm	±.0015"	.0005"	562lbf	\$ 411.00

DIAL TEST INDICATORS



Starting At \$ 91.20

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



2380-31

Part No.	Range	Graduation	Accuracy	Dial reading	List price
2380-31	.03"	.001"	±.001"	0-15-0	\$ 91.20
2380-35	.03"	.0005"	±.0005"	0-15-0	\$ 110.00
2380-301	.008"	.0001"	±.0001"	0-40-0	\$ 137.00

DIAL INDICATORS



Starting At \$ 42.40

- Meet ASME B89.1.10M-2001
- With lug back
- Supplied with limit pointers and bezel clamp

2307-1

Part No.	Range	Graduation	Accuracy		Range/rev	Dial reading	List price
			First 2.5 rev	Overall			
2307-025	.25"	.001"	±.001"	±.001"	.1"	0-100	\$ 43.70
2307-05	.5"	.001"	±.001"	±.002"	.1"	0-100	\$ 45.50
2307-1	1"	.001"	±.001"	±.002"	.1"	0-100	\$ 42.40
2307-2	2"	.001"	±.001"	±.004"	.1"	0-100	\$ 101.00
2307-0255	.25"	.0005"	±.0005"	±.0015"	.05"	0-50	\$ 49.50
2307-055	.5"	.0005"	±.0005"	±.0015"	.05"	0-50	\$ 49.50
2307-105	1"	.0005"	±.0005"	±.002"	.05"	0-50	\$ 50.90

UNIVERSAL MAGNETIC STANDS

Starting At \$ 149.00

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



6210-80E

Part No.	Magnetic force	Applicable holding stem	List price
6210-81E	176lbf	3/8" DIA	\$ 149.00
6210-80E	176lbf	3/8" DIA	\$ 190.00
6210-100E	220lbf	3/8" DIA	\$ 227.00

FEELER GAUGE

\$ 12.40



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
4608-31	.0015"- .035"	32	\$ 12.40

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"

DIGITAL LEVEL AND SLOPE METER

DISPLAY FLIPS OVER WHEN THE BOTTOM FACES UP

WORKING TEMPERATURE 23°F-122°F

BACKLIGHT MAGNETIC BOTTOM ABSOLUTE LEVEL

\$ 111.00

- Used as level and slope meter
- 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 seconds 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

2170-1



Part No.	Range	Resolution	Accuracy	List price
2170-1	4x90°	0.1" (= .021in/ft)	at 0° and 90°: ±0.1"; at others: ±0.2"	\$ 111.00

INDUSTRY NEWS

PRECISION MEASUREMENT



METALLURGICAL MICROSCOPES (PROFESSIONAL TYPE)

NEW
Starting At
\$ 15489.00

- Infinite chromatic aberration correction optical system
- Three way observation tube with infinite hinge
- Translucent and reflective frame, front low-hand position coarse and fine coaxial focus adjustment mechanism, with adjustment elastic device to prevent sliding and random upper limit device
- Bright and dark field five-hole converter with DIC slot
- Adopt digital dimming, with light intensity reset and setting function
- With polarizer insert plate and 360° rotating analyzer insert slot

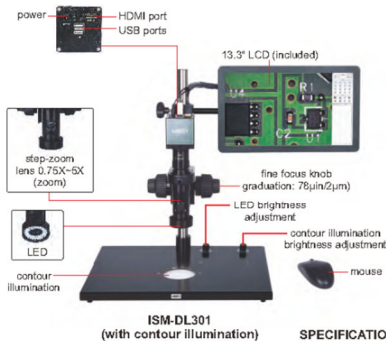


5108-M3000

SPECIFICATION

Part No.	5108-M3000 (standard type)	5108-M3000H (high-definition type)						
List price	\$ 15489.00	\$ 17265.00						
Eyepiece	high eye point large field SWH10X-H (view field: 98° DIA/Ø25mm, adjustable visibility)							
Objective (infinite long working distance bright and dark field semi achromatic)	5X	10X	20X	50X	5X	10X	20X	50X
Working distance	.59"	.33"	.41"	.12"	.79"	.43"	.12"	.04"
Numerical aperture	0.15	0.30	0.40	0.75	0.15	0.30	0.45	0.80
Optical magnification	50X-500X (up to 1000X with optional 100X objective)							
Digital magnification	170X-1700X (on 21.5" monitor), up to 3400X with optional 100X objective							
Stage	double layer size: 12.20"×9.45" travel: 5.90"×3.94"							
Condenser	roll-out achromatic condenser (numerical aperture 0.9)							
Illumination	5W LED, transmitted and reflected							
Observation Tube	inverse image, distance adjustment: 1.96-2.99" two grade spectral ratio binocular: trinocular=100: 0							
Diopter adjustment	±5 diopter (two eyepieces)							
Power Supply	AC 100-240V							
Dimension (L×W×H)	12.20×23.62×19.69"							
Weight	59.52lb							

DIGITAL MEASURING MICROSCOPE PART NO. ISM-DL301



ISM-DL301 (with contour illumination)

\$ 3825.00

BUILT-IN SOFTWARE WITHOUT COMPUTER

MEASUREMENT

TAKE PICTURES

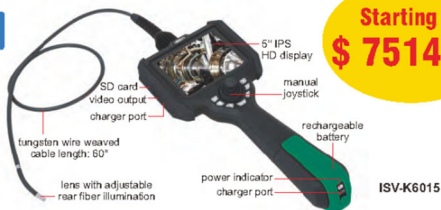
- 1080P high-definition image
- Built-in software without computer, operated by mouse
- Take pictures, saved to USB flash disk
- Measurement results can be sent to Excel
- Automatic white balance and exposure
- Brightness, contrast ratio, gain are adjustable

SPECIFICATION

List price	\$ 3825.00
Magnification	15X-100X
Sensor	1/2" CMOS
Pixel	2M
Resolution	1920×1080
Frame rate	60fps
Output	HDMI
Power supply	power adapter
Dimension (L×W×H)	22.44×11.81×16.93"
Weight	14.44lb

VIDEOSCOPIES

REAR FIBER ILLUMINATION



Starting At
\$ 7514.00

ISV-K6015

SPECIFICATION

Part No.	ISV-K3915	ISV-K6015	
List price	\$ 9410.00	\$ 7514.00	
Lens	diameter (D)	.154" DIA	.236" DIA
	pixel	0.92M	
	resolution	1280×720	
	depth of field	.315-5.906"	.472-7.874"
	bending direction	four directions	
	bending range (α)	±160°	
	angle of view (θ)	120°	
	illumination	rear fiber	
Cable	lens	sapphire glass lens	
	dust/waterproof	IP67	
	bend control	manual joystick	
	length	60"	
Main unit	type	tungsten wire weaved cable	
	display	5" high definition LCD	
	function	take pictures, take videos	
	file format	picture: JPG, video: MP4	
	image process	image zoom (1X, 2X, 3X, 4X)	
	image control	freeze, flip over, playback and analog ruler	
	memory	memory card	
	output	USB, HDMI	
power supply	rechargeable lithium battery (working time ≥ 4hours), AC/DC adapter (for continuous working)		
Weight	2.205lb		

QUICK MEASUREMENT SYSTEM (WITHOUT STITCHING)

\$ 29250.00



- One or more workpieces can be measured by one step operation
- Place workpieces at any position
- Focus and measure automatically

SPECIFICATION

Part No.	QMS-A110-U	
List price	\$ 29250.00	
Optical lens	low-distortion lens, single-field telecentric 3.94" DIA	
View field range	3.94×3.15"	
Measurement range (X×Y)	3.86×3.07"	
Measurement accuracy	±.00012"	
Repeatability	±.00004"	
Max. weight of workpiece	11lb	
Measurement time	<2s	
Measurement data	2D measurement	
Power supply	110V, 50Hz, 600W	
Illumination system	back light	telecentric illuminator, green light
	ring light	4-zone circular white high light circular (directional) low-angle green light (electric)
	coaxial light (optional)	vertical illuminator, white light
Environmental requirement	temperature: 69°F±3.6°F, relative humidity: 30%-80%, vibration: <.00007oz, less than 15Hz	
Dimension (L×W×H)	22.93×9.25×31.10"	
Weight	88lb	

* The optimum temperature is 69°F±1.8°F
Within 3.15×2.52", on focal position and environment temperature at 69°F±1.8°F

INDUSTRY NEWS



DIGITAL MICRO-VICKERS HARDNESS TESTER



NEW



- Measure hardness of thin or small workpieces
- Converted to HRA, HRB, HRC, HRD, HRF, HV, HK, HBW, HR15N, HR30N, HR45N, HR15T, HR30T, HR45T
- Motor driven turret to switch between indenter and objective lens automatically
- Calibrated according to standard hardness blocks or length scales
- Test result can be sent to Word or Excel
- According to ISO 6507

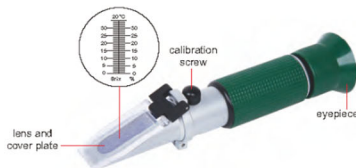
SPECIFICATION

Part No.	HDT-MV290-U (manual switch of test force)
List price	\$ 13766.00
Test force	0.098N (0.01kgf), 0.245N (0.025kgf), 0.49N (0.05kgf), 0.98N (0.1kgf), 1.96N (0.2kgf), 2.94N (0.3kgf), 4.9N (0.5kgf), 9.8N (1kgf)
Vickers scales	HV0.01, HV0.025, HV0.05, HV0.1, HV0.2, HV0.3, HV0.5, HV1
Range	8HV-2900HV
Length measurement resolution	.394µm/0.01µm
Objective/indenter switch	motor driven turret
Stage lifting	manual
Load control	automatic (load/dwell/unload)
Load dwell time	1-99 second
Objective	10X, 40X
Eyepiece	10X
Total magnification	100X (for measurement or observation), 400X (for measurement)
Max. workpiece height	3.94"
Max. testing width	5.12" (from the center of indenter to the wall of main body)
X-Y stage	dimensions: 3.94x3.94", travel range 98x98"
Data output	built-in printer, RS232
Power supply	110V, 50/60Hz
Dimension	21.26x10.24x25.59"
Weight	110lb

PORTABLE REFRACTOMETER PART NO. ISQ-RM30

SUITABLE FOR WATER BASED COOLANT

\$ 124.00



SPECIFICATION

List price	\$ 124.00
Measuring range	0-32%
Graduation	0.2%
Dimension	1.06x1.57x6.3"
Weight	.39lb

- 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 (2.1x6%)=12.6%

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

BLUETOOTH DATA OUTPUT TOUCH SCREEN

CAN BE OPERATED BY MOBILE PHONES OR COMPUTERS

\$ 2679.00



SPECIFICATION

List price	\$ 2679.00
Parameters	Ra, Rz, Rq, Rv, Rp, Rs, R3z, R3y, Rt, Rc, Rz (JIS), Rk, Rku, Rsm, Rpc, Rpk, Rvk, Rsk, Mr1, Mr2, Ry, Rmax
Range	X axis .699" Z axis 12599µin (-6299µin-6299µin)
Accuracy	±10%
Resolution (Ra)	0.1µin
Probe type	inductive
stylus radius/angle	196µm/90°
stylus material	diamond
Measuring force	0.1ozf
Measuring unit	µm/µin
Cut off	0.1/0.3/1"
Number of cut-offs	1-5
Moving speed	.005"/s, .02"/s, .04"/s
Memory	100 measurement results
Output	bluetooth and USB
Power	built-in rechargeable battery
Dimension (LxWxH)	6.22x2.52x2.05"
Weight	.89lb

TESLAMETERS (GAUSSMETERS)

DATA OUTPUT

NEW
Starting At
\$ 246.00

- Measure magnetic induction of DC magnetic field
- Directly display the NS polarity of the measured magnetic field
- One-key zero function: eliminate the influence of zero drift before measurement
- Maximum value hold: record the maximum value of the changing magnetic field
- Unit switch between mT or G (1mT=10G)
- Auto ranging, auto power off
- Built-in USB interface for data transmission
- Display with backlight

SPECIFICATION

Part No.	0501-MA01	0501-MA05
List price	\$ 592.00	\$ 246.00
Range	2000mT	
Resolution	0.1mT (0-200mT) .1mT (200-2000mT)	
Accuracy	±1.0%	±2.0% (≤1000mT) ±5.0% (1000mT-2000mT)
Temperature coefficient	±1%/K	
Zero drift	±.5mT/h	
Interface	USB	
Power supply	3x1.5V AA batteries or USB	
Dimension (LxWxH)	6.50x3.54x1.57"	
Weight	.77lb	



0501-MA01



INSIZE USA

Add: 2230 Commerce Drive
Loganville, GA 30052
Tel: 470-240-2520
Fax: 470-448-4771
E-mail: sales@insizeus.com
Website: www.insizeus.com