

DIGITAL CALIPERS (STANDARD TYPE)



Starting At
\$ 68.30

- 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"	\$ 68.30
1108-200	0-8"/0-200mm	±.0015"	\$ 101.00
1108-300	0-12"/0-300mm	±.0015"	\$ 152.00

VISION MEASURING SYSTEMS

Starting At
\$ 13951.00



ISD-V250A

computer is included

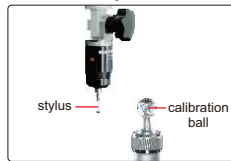


probe (optional), includes Ø2mm/.079" DIA and Ø3mm/.118" DIA styli, Ø25mm/.984" calibration ball, measuring accuracy is .0004"

STANDARD DELIVERY

Main unit	1 pc
Computer	1 pc
Calibration glass chart	1 pc
Clay	1 pc
Foot switch	1 pc
Anti-dust cover	1 pc

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



stylus calibration ball

SPECIFICATION

Part No.	ISD-V150A	ISD-V250A	ISD-V300A
List price	\$ 13951.00	\$ 14330.00	\$ 16763.00
Measuring range (X×Y×Z)	6×4×6"	10×6×6"	12×8×6"
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"
Resolution of X/Y/Z axis	.00002"		
Accuracy of X/Y axis	≤(137.8+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, 0.3M pixel		
Illumination	surface and contour with adjustable LED		
Max. height of workpiece	6"		
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

2-PIECE MEASURING TOOL SET

\$ 94.40

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



5002-4E

Part No.	List price
5002-4E	\$ 94.40

GRANITE SURFACE PLATES

ADDITIONAL CUSTOM SIZES UP TO 6.5' AVAILABLE ON REQUEST



Starting At
\$ 384.00



6900-A11

- Made of granite, free from deterioration or dimensional change over time, minimal changes in dimension due to temperature changes
- Meet GGG-P-463C
- Optional accessory: stand for granite surface plate (part no. 6902), jack for granite surface plate (part no. 6903)

Grade A

Part No.	Size (WxLxH)	Flatness	Weight (lb)	Max. load (lb)	List price
6900-A11	12x18x3"	.00012"	32	110	\$ 384.00
6900-A12	18x24x3"	.00013"	64	143	\$ 689.00
6900-A23	24x36x4"	.00015"	170	440	\$ 1483.00
6900-A34	36x48x6"	.00018"	510	1102	\$ 3529.00

DIAL INDICATORS



Starting At
\$ 41.60



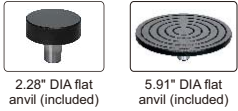
2307-1

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

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	\$ 42.80
2307-05	.5"	.001"	±.001"	±.002"	.1"	0-100	\$ 44.60
2307-1	1"	.001"	±.001"	±.002"	.1"	0-100	\$ 41.60
2307-2	2"	.001"	±.001"	±.004"	.1"	0-100	\$ 98.80
2307-0255	.25"	.0005"	±.0005"	±.0015"	.05"	0-50	\$ 48.50
2307-055	.5"	.0005"	±.0005"	±.0015"	.05"	0-50	\$ 48.50
2307-105	1"	.0005"	±.0005"	±.002"	.05"	0-50	\$ 49.90

**MANUAL ROCKWELL HARDNESS TESTER (BASIC TYPE)
PART NO. HDT-RW160**

\$ 2335.00



SPECIFICATION

List price	\$ 2335.00
Hardness scale	HRA, HRB, HRC, HRD, HRF, HRG
Preliminary test force	98N (10kg)
Test force	588N (60kg), 980N (100kg), 1471N (150kg)
Display	analogue
Stage elevation	manual
Load control	manual
Min. reading	0.5HR
Max. workpiece height	6.69"
Max. testing width	5.31" (from the center of indenter to the wall of main body)
Dimension	18.35x9.37x24.80"
Weight	154lb

■ According to ISO 6508

STANDARD DELIVERY

Main unit	1 pc
2.28" flat anvil	1 pc
5.91" flat anvil	1 pc
V-type anvil	1 pc
Diamond indenter	1 pc
1/16" DIA steel ball indenter	1 pc
1/16" DIA steel ball	5 pcs
Level	1 pc
Hardness test block HRA80~88	1 pc
Hardness test block HRB85~95	1 pc
Hardness test block HRC20~30	1 pc
Hardness test block HRC35~55	1 pc
Hardness test block HRC60~70	1 pc
Anti-dust cover	1 pc

DIAL CALIPERS



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

**Starting At
\$ 71.40**



1311-6

Part No.	Range	Accuracy	List price
1311-4	0-4"	±.0012"	\$ 86.30
1311-6	0-6"	±.0015"	\$ 71.40
1311-8	0-8"	±.0020"	\$ 94.80
1311-12	0-12"	±.0020"	\$ 159.00

DIGITAL HEIGHT GAGES WITH DRIVING WHEEL



**Starting At
\$ 685.00**

- 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)



1156-300

Part No.	Range	Accuracy	List price
1156-300	0-12"/0-300mm	±.0015"	\$ 685.00
1156-600	0-24"/0-600mm	±.0020"	\$ 1017.00

3-PIECE MEASURING TOOL SET

\$ 122.00

- Includes:
 - 1) Digital 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
5003-1E	\$ 122.00

3-PIECE MEASURING TOOL SET

\$ 129.00

- 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
5003-1	\$ 129.00

LEFT HAND DIGITAL CALIPERS



**Starting At
\$ 210.00**

- 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)



1130-150

Part No.	Range	Accuracy	List price
1130-150	0-6"/0-150mm	±.0015"	\$ 210.00
1130-200	0-8"/0-200mm	±.0015"	\$ 248.00
1130-300	0-12"/0-300mm	±.0015"	\$ 357.00

MAGNETIC STAND

\$ 37.50

- For digital/dial indicators and dial test indicators
- Applicable holding stem: 3/8" DIA, Ø8mm, Ø4mm
- Without fine adjustment



6200-60

Part No.	Magnetic force	List price
6200-60	132lbf	\$ 37.50

MAGNETIC STAND

\$ 34.70

- For digital/dial indicators and dial test indicators
- Applicable holding stem: 3/8" DIA, Ø8mm, Ø4mm
- With fine adjustment



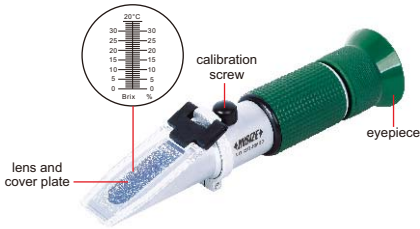
6201-60

Part No.	Magnetic force	List price
6201-60	132lbf	\$ 34.70

**PORTABLE REFRACTOMETER
PART NO. ISQ-RM30**

SUITABLE FOR WATER
BASED COOLANT

\$ 122.00



SPECIFICATION

List price	\$ 122.00
Measuring range	0~32%
Graduation	0.2%
Dimension	1.06×1.57×6.3"
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 (2.1×6%)=12.6%

COUNTING SCALES

**Starting At
\$ 439.00**



8101-30

- LCD display, with backlight
- Zero-setting, subtracting tare value, counting, accumulation, checking alarm
- Overload alarm
- Units: lb, lb-oz, kg, g, tj, hj

SPECIFICATION

Part No.	8101-6	8101-15	8101-30
List price	\$ 439.00	\$ 439.00	\$ 439.00
Maximum weighing	12lb/6kg	30lb/15kg	60lb/30kg
Minimum weighing	.0090lb/4g	.022lb/10g	.044lb/20g
Resolution (d)	.0005lb/0.2g	.001lb/0.5g	.002lb/1g
Accuracy (m is load)	m≤2.2lb: ±.0025lb 2.2lb<m≤8.8lb: ±.0005lb m>8.8lb: ±.0075lb	m≤5.5lb: ±.005lb 5.5lb<m≤22.0lb: ±.01lb m>22.0lb: ±.015lb	m≤11.0lb: ±.01lb 11.0lb<m≤44.0lb: ±.02lb m>44.0lb: ±.03lb
Operation temperature	14~104°F		
Power	rechargeable battery (6V/3.2Ah), power adapter (12V/500mA)		
Dimensions of pan	10.354×8.031"		

OUTSIDE MICROMETERS WITH COUNTER



**Starting At
\$ 79.50**



3400-1

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

Part No.	Range	Accuracy	List price
3400-1	0-1"	.00015"	\$ 79.50
3400-2	1-2"	.00015"	\$ 89.30
3400-3	2-3"	.00020"	\$ 100.00
3400-4	3-4"	.00020"	\$ 111.00

*We can offer in larger sizes

GRANITE DIAL INDICATOR STAND

\$ 750.00



6866-150E

- Vertical travel of holder: 5.906"
- Fine adjustment range .079"
- Applicable holding stem: 3/8" DIA
- Supplied with dust cover

Part No.	Base	List price
6866-150E	flatness 98µin	\$ 750.00

WEIGHING SCALES (HIGH PRECISION)

**Starting At
\$ 439.00**



8001-30

- LCD display, with backlight
- Zero-setting, subtracting tare value
- Overload alarm
- Automatic power off

SPECIFICATION

Part No.	8001-6	8001-15	8001-30
List price	\$ 439.00	\$ 439.00	\$ 439.00
Maximum weighing	12lb/6kg	30lb/15kg	60lb/30kg
Minimum weighing	.0090lb/4g	.022lb/10g	.044lb/20g
Resolution (d)	.0005lb/0.2g	.001lb/0.5g	.002lb/1g
Accuracy (m is load)	m≤2.2lb: ±.0025lb 2.2lb<m≤8.8lb: ±.0005lb m>8.8lb: ±.0075lb	m≤5.5lb: ±.005lb 5.5lb<m≤22.0lb: ±.01lb m>22.0lb: ±.015lb	m≤11.0lb: ±.01lb 11.0lb<m≤44.0lb: ±.02lb m>44.0lb: ±.03lb
Units	lb, kg		
Operation temperature	14~104°F		
Power	rechargeable battery (6V/3.2Ah), power adapter (12V/500mA)		
Dimensions of pan	10.354×8.031"		

FEELER GAGE

\$ 12.20



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	\$ 12.20

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"

OUTSIDE MICROMETERS



3203-2A

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

Starting At
\$ 45.00

Individual

Part No.	Range	Accuracy	List price
3203-1A*	0-1"	.00015"	\$ 45.00
3203-2A*	1-2"	.00015"	\$ 50.30
3203-3A*	2-3"	.00020"	\$ 55.90
3203-4A*	3-4"	.00020"	\$ 62.90
3203-5A*	4-5"	.00025"	\$ 79.50
3203-6A*	5-6"	.00025"	\$ 90.10
3203-7A	6-7"	.00030"	\$ 105.00
3203-8A	7-8"	.00030"	\$ 114.00
3203-9A	8-9"	.00030"	\$ 127.00
3203-10A	9-10"	.00030"	\$ 134.00
3203-11A	10-11"	.00035"	\$ 155.00
3203-12A	11-12"	.00035"	\$ 166.00

Set

Part No.	Range	Micrometers included	Packaging	List price
3203-33A*	0-3"	3203-1A, 3203-2A, 3203-3A	blow mould case	\$ 135.00
3203-44A*	0-4"	3203-1A, 3203-2A, 3203-3A, 3203-4A	blow mould case	\$ 195.00
3203-66A*	0-6"	3203-1A, 3203-2A, 3203-3A, 3203-4A, 3203-5A, 3203-6A	blow mould case	\$ 344.00
3203-126A	6-12"	3203-7A, 3203-8A, 3203-9A, 3203-10A, 3203-11A, 3203-12A	aluminum box	\$ 687.00
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	\$ 999.00

*Supplied with manufacturer inspection certificate

DIGITAL CALIPERS

Starting At
\$ 97.70

ATTENTION: NO DATA OUTPUT



1114-150A

- Non waterproof
- Accuracy: ±.0015"
- Zinc alloy housing for digital unit
- Resolution .0005"/0.01mm
- Buttons: zero, on/off, inch/mm
- Automatic power off, move the digital unit to turn on power
- Battery CR2032
- Made of stainless steel

Part No.	Range	Accuracy	List price
1114-150A	0-6"/0-150mm	±.0015"	\$ 97.70
1114-200A	0-8"/0-200mm	±.0015"	\$ 133.00
1114-300A	0-12"/0-300mm	±.0015"	\$ 201.00

DIAL DEPTH GAGE

\$ 104.00



2341-E1

- 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"	\$ 104.00

13-PIECE MEASURING TOOL SET

\$ 387.00

- Includes:
 - 1) Digital caliper, range 0-6"/0-150mm, resolution .0005"/0.01mm (part no. 1108-150)
 - 2) Outside micrometer, range 0-1", graduation .0001" (part no. 3202-1)
 - 3) Dial indicator, range 1", graduation .001" (part no. 2307-1)
 - 4) Magnetic stand (part no. 6201-60)
 - 5) Protractor, range 0-180°, graduation 1° (part no. 4799-180)
 - 6) Pitch gauge, range 4-42TPI, 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", 31pcs (part no. 4608-31)
 - 9) 90° beveled edge square, 3.937x2.756", grade 0 (part no. 4790-1000)
 - 10) Scriber (part no. 7230)
 - 11) Steel rule, 6"/150mm (part no. 7110-150)
 - 12) Depth base attachment (part no. 6140)
 - 13) Zero setting bar for depth base attachment



5013-E

Part No.	List price
5013-E	\$ 387.00

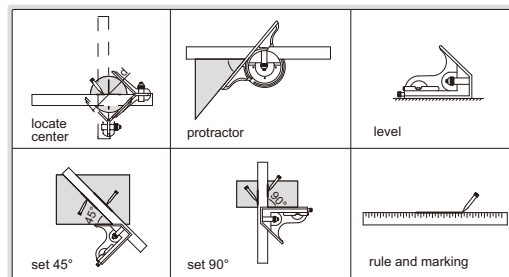
COMBINATION SQUARE SETS (CLOSE TYPE PROTRACTOR)

Starting At
\$ 177.00

- 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): set the blade at desired angle to an edge of a workpiece, and can be used to measure angles range: 0-180°, accuracy: ±20min.
- Square head (made of cast iron): 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.	Remark	Blade Range	Blade Graduation	List price
2278-180	4-piece set	12"/300mm	1/32" and 0.5mm on front face, 1/64" and 1mm on back face	\$ 179.00
2278-180E	4-piece set	12"	1/8" and 1/16" on front face, 1/32" and 1/64" on back face	\$ 177.00



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