



TOOLS THAT MEASURE UP!

- QUALITY
- INNOVATION
- SERVICE
- VALUE
- SERIALIZED TOOLS
- ONE-YEAR WARRANTY
- FITTED CASES

Electronic Calipers



- ▶ Resolution: 0.0005"/0.01mm
- ▶ Buttons: zero set, power on/off, inch/mm conversion
- ▶ Automatic power off, move the digital unit to turn on power
- ▶ Battery CR2032
- ▶ Meets DIN862 standard, stainless steel construction
- ▶ Data output via USB
- ▶ Supplied in fitted storage case



Range (Inch/mm)	Item #	Price
0-6/0-150	1108-150	\$ 54.10
0-8/0-200	1108-200	81.80
0-12/0-300	1108-300	124.90



SPC cable sold separately

Item #	Price
7302-SPC1	\$ 114.80

- ▶ No software required
- ▶ Connects to computer via USB
- ▶ The data is transmitted to the computer as a keyboard signal
- ▶ Works with Excel, Word, CAD programs, email and more
- ▶ Cable length: 100"

Dial Calipers



- ▶ Graduation: Inch: 0.001"
Metric: 0.01mm
- ▶ Meets DIN862 standard, hardened stainless steel construction, satin chrome clamp and thumb wheel
- ▶ Shock proof dial indicator, adjustable bezel with bezel locking clamp
- ▶ For outside, inside, depth and step measurements
- ▶ Supplied in fitted storage case

INCH

Range (Inch)	Item #	Price
0-6	1311-6A	\$ 53.50
0-8	1311-8A	71.00
0-12	1311-12A	124.50

METRIC

Range (mm)	Item #	Price
0-150	1311-150A	\$ 76.80
0-200	1311-200A	103.80
0-300	1311-300A	155.10



NEW

US CATALOG
[WWW.INSIZE-USA.COM](http://www.insize-usa.com)

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Electronic Calipers - Coolant Proof

- ▶ Resolution: 0.0005"/0.01mm
- ▶ Coolant proof, IP67 Ingress protection level
- ▶ Buttons: zero set, power on/off, inch/mm conversion, ABS/REL (absolute/relative)
- ▶ Battery CR2032
- ▶ Meets DIN862 standard, hardened stainless steel construction, with locking clamp and thumb wheel for outside, inside, depth and step measurements
- ▶ Supplied in fitted storage case



Range (Inch/mm)	Item #	Price
0-6/0-150	1118-150B	\$ 172.40
0-8/0-200	1118-200B	257.70
0-12/0-300	1118-300B	305.50

Electronic Calipers with Metal Case

- ▶ Resolution: 0.0005"/0.01mm
- ▶ Die cast zinc alloy casing
- ▶ Buttons: zero set, power on/off, inch/mm conversion
- ▶ Battery SR44
- ▶ Meets DIN862 standard, hardened stainless steel construction, with locking clamp and thumb wheel, for outside, inside, depth and step measurements
- ▶ Supplied in fitted storage case



Range (Inch/mm)	Item #	Price
0-6/0-150	1114-150	\$ 76.90
0-8/0-200	1114-200	104.70
0-12/0-300	1114-300	155.90

Long Range Electronic Calipers (12 to 80 Inches)



1133-127



1133-24



- ▶ Resolution: 0.0005"/0.01mm
- ▶ Round faces of lower jaws are ideal for accurate inside measurements
- ▶ Buttons: power on/off, inch/mm conversion, absolute and incremental measurements, data preset, set data
- ▶ Battery CR2032
- ▶ Data output via USB
- ▶ Hardened stainless steel construction, with locking screw and fine adjustment for outside and inside measurements
- ▶ Supplied in fitted storage case

Range (Inch/mm)	Lower Jaw Length (Inch/mm)	Internal Jaw Width (Inch/mm)	Item #	Price
0-12/0-300	2.95/75	0.500/12.7	1133-127	\$ 310.10
SPC Cable			7302-SPC1	\$ 114.80

No software required

Range (Inch/mm)	Lower Jaw Length (Inch/mm)	Internal Jaw Width (Inch/mm)	Item #	Price
0-20/0-500	3.9/100	0.787/20	1136-501	\$ 485.10
0-24/0-600	3.9/100	0.500/12.7	1133-24	654.10
0-40/0-1000	5.9/150	0.800/20.32	1133-40	1,379.10
0-40/0-1000	5.9/150	0.787/20	1136-1002	1,342.30
0-60/0-1500	5.9/150	0.787/20	1136-1502	2,261.40
0-80/0-2000	5.9/150	0.787/20	1136-2002	3,330.00
SPC Cable			7301-SPC1	\$ 202.70

SPC Software for PC included with cable

Vernier Calipers

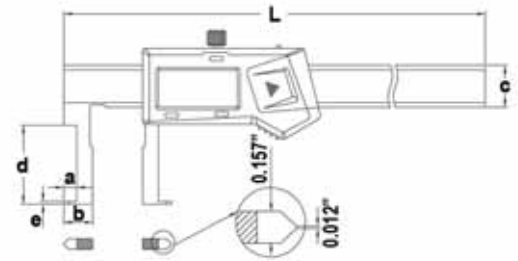
- ▶ Graduation: 0.001"/0.02mm
- ▶ Thumb slide knob
- ▶ Meets DIN862 standard, monoblock, hardened stainless steel construction with satin chrome plated reading surface
- ▶ Supplied in fitted storage case



Range (Inch/mm)	Item #	Price
0-6/0-150	1205-1502E	\$ 37.60
0-8/0-200	1205-2002E	63.20
0-12/0-300	1205-3002E	114.90

Electronic Inside Groove Caliper

- ▶ Measures groove diameter
- ▶ Resolution: 0.0005"/0.01mm
- ▶ Buttons: zero set, power on/off, inch/mm conversion
- ▶ Automatic power off, move the digital unit to turn power on
- ▶ Battery CR2032
- ▶ Data output
- ▶ Made of stainless steel
- ▶ SPC cable optional
- ▶ Supplied in fitted storage case



Range (Inch)	Accuracy (Inch)	L (Inch)	a (Inch)	b (Inch)	c (Inch)	d (Inch)	e (Inch)	Item #	Price
1-6	±0.0016	9.843	0.197	0.5	0.630	1.181	0.039	1120-150AE	\$ 193.10
SPC Cable								7302-SPC1	\$ 114.80

No software required

Depth Base Attachment for 6 and 8 Inch Calipers

- ▶ Fits Insize calipers up to 8"/200mm
- ▶ Stainless steel
- ▶ Locking clamp



Base Length (Inch/mm)	Item #	Price
3/76	6140	\$ 19.90

Electronic Depth Gages

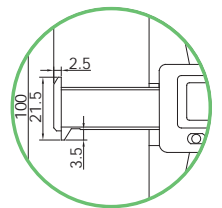


- ▶ Resolution: 0.0005"/0.01mm
- ▶ Meets DIN862 standard, hardened stainless steel construction
- ▶ Stainless steel, hardened beam and base
- ▶ Buttons: zero set, power on/off, inch/mm conversion
- ▶ Recessed zero button prevents it from being pressed by accident
- ▶ Battery SR44
- ▶ Data output via USB
- ▶ Supplied in fitted storage case

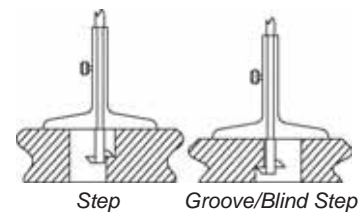
Range (Inch/mm)	Base Length (Inch/mm)	Item #	Price
0-6/0-150	4/100	1141-150A	\$ 82.40
0-8/0-200	4/100	1141-200A	102.40
0-12/0-300	6/150	1141-300A	241.50
SPC Cable		7302-SPC1	\$ 114.80

No software required

Electronic Depth Gages with Two Hooks



- ▶ Resolution: 0.0005"/0.01mm
- ▶ Meets DIN862 standard, hardened stainless steel construction
- ▶ Buttons: zero set, power on/off, inch/mm conversion
- ▶ Recessed zero button prevents it from being pressed by accident
- ▶ Battery SR44
- ▶ Data output via USB
- ▶ For step and groove measurements
- ▶ Supplied in fitted storage case



Range (Inch/mm)	Base Length (Inch/mm)	Item #	Price
0-6/0-150	4/100	1144-150A	\$ 109.90
0-8/0-200	4/100	1144-200A	131.00
0-12/0-300	6/150	1144-300A	283.60
SPC Cable		7302-SPC1	\$ 114.80

No software required

Outside Micrometer with Interchangeable Anvils

- ▶ Interchangeable anvils for different measuring ranges
- ▶ With ratchet stop to fix anvils in place
- ▶ Graduation: 0.0001"
- ▶ Meets DIN863 standard
- ▶ Cast frame
- ▶ Ratchet stop, carbide tips
- ▶ Zero adjusting wrench
- ▶ Supplied with setting standards
- ▶ Supplied in fitted storage case



Item #3206-6

\$199.60

Item #3206-12

\$239.00

Range (Inch/mm)	Item #
0-6/0-150	3206-6
6-12/150-300	3206-12

While Quantities Last!

Outside Micrometers



3203-25A



3203-50A



3203-1212A

INDIVIDUAL MICROMETERS

Range (Inch)	Inch Item #	Range (mm)	Metric Item #	Price
0-1	3203-1A	0-25	3203-25A	\$ 33.70
1-2	3203-2A	25-50	3203-50A	37.60
2-3	3203-3A	50-75	3203-75A	41.80
3-4	3203-4A	75-100	3203-100A	47.30
4-5	3203-5A	100-125	3203-125A	58.40
5-6	3203-6A	125-150	3203-150A	66.10
6-7	3203-7A	150-175	3203-175A	74.90
7-8	3203-8A	175-200	3203-200A	84.30
8-9	3203-9A	200-225	3203-225A	92.90
9-10	3203-10A	225-250	3203-250A	98.80
10-11	3203-11A	250-275	3203-275A	113.90
11-12	3203-12A	275-300	3203-300A	121.60

- ▶ Graduation: 0.0001"/0.01mm
- ▶ Meets DIN863 standard, painted frame, ratchet stop, spindle lock, carbide tips, adjusting wrench
- ▶ Micrometers over 1"/25mm are supplied with a setting standard
- ▶ Supplied in fitted storage case
- ▶ Sets include all features above *PLUS* applicable setting standards

MICROMETER SETS

Range (Inch)	Inch Item #	Range (mm)	Metric Item #	Price
0-3 (3 pcs)	3203-33A	0-75 (3 pcs)	3203-753A	\$ 98.80
0-4 (4 pcs)	3203-44A	0-100 (4 pcs)	3203-1004A	145.10
0-6 (6 pcs)	3203-66A	0-150 (6 pcs)	3203-1506A	256.00
6-12 (6 pcs)	3203-126A	150-300 (6 pcs)	3203-3006A	496.10
0-12 (12 pcs)	3203-1212A	0-300 (12 pcs)	3203-3012A	723.90

Electronic Outside Micrometers

- ▶ Resolution: 0.00005"/0.001mm
- ▶ Buttons: power on/off, inch/mm conversion, absolute and incremental measurement, data set
- ▶ Auto power off
- ▶ SR44 battery
- ▶ Meets DIN863 standard, painted and insulated frame, ratchet friction thimble, spindle lock, with battery cover wrench, carbide tips
- ▶ Spherical anvil included allows tube thickness measurements
- ▶ Micrometers over 0-1"/0-25mm are supplied with a setting standard
- ▶ Supplied in fitted storage case

Spherical Anvil included



Range (Inch/mm)	Item #	Price
0-1/0-25	3109-25E	\$ 100.20
1-2/25-50	3109-50E	119.10
2-3/50-75	3109-75E	142.70
3-4/75-100	3109-100E	155.30
4-5/100-125	3109-125E	191.20
5-6/125-150	3109-150E	216.50

Electronic Outside Micrometers - Coolant Proof

- ▶ Resolution: 0.00005"/0.001mm
- ▶ Coolant proof, IP65 Ingress protection level
- ▶ Thimble graduation: 0.0001"
- ▶ Buttons: power on/off, inch/mm conversion, absolute and incremental measurement, data set
- ▶ Data output via RS232 (RS232 cable included, SPC connection cable optional)
- ▶ Auto power off
- ▶ SR44 battery
- ▶ Meets DIN863 standard, painted and insulated frame, ratchet stop, spindle lock, with battery cover wrench, carbide tips
- ▶ Spherical anvil included allows tube thickness measurements
- ▶ Micrometers over 0-1"/0-25mm are supplied with a setting standard
- ▶ Supplied in fitted storage case

Spherical Anvil included



Range (Inch/mm)	Item #	Price
0-1/0-25	3101-25E	\$ 229.10
1-2/25-50	3101-50E	244.50
2-3/50-75	3101-75E	273.40

Larger sizes up to 12 Inches NOW AVAILABLE!

Blade Micrometers

- ▶ Graduation: 0.0001"
- ▶ Non-rotating spindle
- ▶ Ratchet stop
- ▶ Zero adjusting wrench
- ▶ Blade tips on anvil and spindle allow measurements of groove diameters of shafts and keyways
- ▶ Blade tip: 0.030" thick by 0.240" wide by 0.250" long
- ▶ Micrometers over 0-1" are supplied with a setting standard
- ▶ Supplied in fitted storage case



Range (Inch)	Item #	Price
0-1	3232-1	\$ 179.70
1-2	3232-2	194.50
2-3	3232-3	208.70
3-4	3232-4	229.40
4-5	3232-5	257.30
5-6	3232-6	280.60
6-7	3232-7	303.00

Disk Micrometer

- ▶ Graduation: 0.0001"
- ▶ Disk diameter: 0.8"
- ▶ Measures root tangent length of gear and other applications
- ▶ Ratchet stop
- ▶ Spindle lock
- ▶ Supplied in fitted storage case



Range (Inch)	Item #	Price
0-1	3282-1	\$ 100.60

Deep Throat Outside Micrometers

- ▶ Graduation: 0.0001"
- ▶ Throat depth: 6"
- ▶ Flat carbide tips
- ▶ Ratchet stop
- ▶ Zero adjusting wrench
- ▶ 1-2" micrometer supplied with setting standard
- ▶ Supplied in fitted storage case



Range (Inch)	Item #	Price
0-1	3239-13	\$ 121.60
1-2	3239-23	127.40

Screw Thread Micrometers

- ▶ Graduation: 0.001"
- ▶ Measures pitch diameter of screw threads
- ▶ Non-rotating spindle, ratchet stop
- ▶ Zero adjusting wrench
- ▶ Supplied with 60 degree setting standards.
55 degree setting standards are sold separately (NOTE: 0-1" does not require a setting standard)
- ▶ Measuring tips are sold separately
- ▶ Supplied in fitted storage case

Interchangeable Measuring Tips sold separately



Range (Inch)	Item #	Price
0-1	3281-1	\$ 116.40
1-2	3281-2	129.80
2-3	3281-3	151.60
3-4	3281-4	166.00
4-5	3281-5	189.20
5-6	3281-6	213.00

Measuring Tips for Screw Thread Micrometers

- ▶ Made of bearing steel

6-Piece Set

UNIFIED SCREW AND METRIC (for 60 degree threads)

Pitch (Threads per Inch/mm)	Item #	Price
64 to 3.5/0.4 to 7	7381-TS	\$ 133.20

10-Piece Set

WHITWORTH SCREW (for 55 degree threads)

Pitch (Threads per Inch)	Item #	Price
60 to 3.5	7381-T2S	\$ 211.20



55° Whitworth Thread Micrometer Setting Standards



Description	Item #	Price
1" standard for 0-1" micrometers	3281-SPE1	\$ 91.80
2" standard for 1-2" micrometers	3281-SPE2	105.20
3" standard for 2-3" micrometers	3281-SPE3	119.90
4" standard for 3-4" micrometers	3281-SPE4	137.80
5" standard for 4-5" micrometers	3281-SPE5	157.20
6" standard for 5-6" micrometers	3281-SPE6	179.20

Micrometer Stands

- ▶ Suitable for micrometers up to 4"



Description	Item #	Price
Compact stand with 1 locking handle	6300	\$ 40.20
Cast stand with 2 separate locking handles	6301	32.60

Electronic Micrometer Head

- ▶ Resolution: 0.00005"/0.001mm
- ▶ Neck diameter: 0.4724" ±0.0004"/12mm ±0.011mm
- ▶ Neck length: 0.689"/17.5mm
- ▶ Buttons: on/off, inch/mm, ABS/INC, data set
- ▶ Auto power off
- ▶ IP54 Ingress protection level
- ▶ Flat carbide tip
- ▶ Ratchet friction thimble
- ▶ Adjustment wrench included
- ▶ Supplied in fitted storage case



\$130.00

IP54

Range (Inch/mm)	Item #
0-1/0-25	6351-25

While Quantities Last!

Micrometer Heads

- ▶ Graduation: 0.001"/0.01mm
- ▶ Neck diameter: 0.4724" ±0.0004"/12mm ±0.011mm
- ▶ Neck length: 0.689"/17.5mm
- ▶ Flat carbide tip
- ▶ Ratchet stop
- ▶ Adjustment wrench included



\$33.20
each

Range	Item #
0-1"	6372-1
0-25mm	6372-25W

While Quantities Last!

Micrometer Heads with Non-Rotating Spindles

- ▶ Graduation: 0.001"/0.01mm
- ▶ Neck diameter: 0.4724" ±0.0004"/12mm ±0.011mm
- ▶ Neck length: 0.394"/10mm
- ▶ Flat carbide tip
- ▶ Adjustment wrench included



\$57.00
each

Range	Item #
0-1"	6377-1
0-25mm	6377-25W

While Quantities Last!

Electronic Indicator

- ▶ Resolution: 0.0005"/0.005mm
- ▶ Rotating display head
- ▶ Stem diameter: 3/8"
- ▶ Buttons: inch/mm, zero set, power on/off, mode – to find the difference between min. and max. readings, "+/-" – for measuring direction change from zero set
- ▶ Auto power off
- ▶ CR2032 battery
- ▶ Lug back
- ▶ Contact point thread #4-48UNF
- ▶ Supplied in fitted storage case



\$94.00

Range (Inch/mm)	Item #
0-0.5/0-10	2102-10E

While Quantities Last!

Dial Indicators

- ▶ Meets DIN878 or ANSI B89.1.10 standard
- ▶ Metric Indicator: Stem diameter 8mm, Bezel diameter 60mm
- ▶ Inch Indicator: Stem diameter 3/8", Bezel diameter 2.36"
- ▶ Lug back
- ▶ Bezel locking clamp and tolerance index
- ▶ Aluminum body
- ▶ Continuous reading dial 0-100
- ▶ Contact point thread for inch indicator: #4-48UNF
- ▶ Contact point thread for metric indicator: M2.5 x 0.45
- ▶ Supplied in fitted storage case



INCH

Range (Inch)	Graduation (Inch)	Item #	Price
0-0.5	0.001	2307-05	\$ 32.80
0-1	0.001	2307-1	31.20
0-2	0.001	2307-2	72.50

METRIC

Range (mm)	Graduation (mm)	Item #	Price
0-25	0.1	2318-25	\$ 79.50

Precision Dial Indicator - Inch

- ▶ Meets ANSI B89.1.10 standard
- ▶ Bezel diameter: 2.36"
- ▶ Stem diameter: 3/8"
- ▶ Shock proof, jeweled
- ▶ Lug back
- ▶ Bezel locking clamp and tolerance index
- ▶ Aluminum body
- ▶ Contact point thread #4-48UNF
- ▶ Supplied in fitted storage case



Range (Inch)	Graduation (Inch)	Item #	Price
0-0.05	0.0001	2315-05	\$ 115.10

Large Face Long Range Dial Indicator - Inch

- ▶ Meets ANSI B89.1.10 standard
- ▶ Bezel diameter: 3"
- ▶ Stem diameter: 3/8"
- ▶ Lug back
- ▶ Bezel locking clamp and tolerance index
- ▶ Aluminum body
- ▶ Contact point thread #4-48UNF
- ▶ Supplied in fitted storage case



Range (Inch)	Graduation (Inch)	Item #	Price
0-1.5	0.001	2312-15	\$ 71.00
0-2	0.001	2312-2	80.20

Dial Test Indicators



- ▶ Meets DIN2270 or BS2795 standard
- ▶ Satin chrome finish, brass body, anti-magnetic
- ▶ Jeweled bearing, shock-proof
- ▶ Interchangeable carbide contact point, 0.0787"/2mm diameter ball, supplied with wrench
- ▶ Probe length: 0.530"/13.5mm
- ▶ Two holding stems: 5/32"/4mm and 3/8"/8mm
- ▶ Supplied in fitted storage case

Range (Inch)	Graduation (Inch)	Bezel Diameter (Inch)	Item #	Price
0-0.03	0.001	1.18	2380-31	\$ 66.60
0-0.03	0.001	1.48	2381-31	78.20
0-0.03	0.0005	1.18	2380-35	83.70
0-0.03	0.0005	1.48	2381-35	89.70
NEW 0-0.008	0.0001	1.18	2380-301	98.90
NEW 0-0.008	0.0001	1.48	2381-301	103.00

0.0001" Graduations NOW AVAILABLE!

Long Range Dial Test Indicators



- ▶ Steel contact point, 0.0787"/2mm diameter ball
- ▶ Probe length: 5/8"/16mm
- ▶ Holding stem: 5/32"/4mm
- ▶ Supplied in fitted storage case

INCH

Range (Inch)	Graduation (Inch)	Bezel Diameter (Inch)	Item #	Price
±0.06	0.0005	1.51	2386-006	\$ 143.70

METRIC

Range (mm)	Graduation (mm)	Bezel Diameter (mm)	Item #	Price
±1.6	0.01	38.4	2386-16	\$ 138.40

Magnetic Stands

Dual Stem Magnetic Stand

- ▶ Main stem: Ø0.470" x 6.930"
- ▶ Assistant stem: Ø3.940" x 6.300"
- ▶ Clamp hole: 3/8" diameter plus 8mm sleeve
- ▶ For dial indicators with lug back or flat back
- ▶ Base: 2.4" x 2" x 2.2" with on/off switch



Magnetic Force (lbf)	Item #	Price
132	6200-60	\$ 27.50

Universal Magnetic Stand

- ▶ With fine adjustment
- ▶ Overall stem length: 13.4"
- ▶ Dovetail groove for test indicator
- ▶ Clamp hole: 3/8" diameter plus 8mm sleeve
- ▶ For dial indicators with lug back or flat back
- ▶ Base: 2.4" x 2" x 2.2" with on/off switch



Magnetic Force (lbf)	Item #	Price
176	6208-80E	\$ 65.30

Magnetic Stands

Dual Stem Magnetic Stand

- ▶ With fine adjustment
- ▶ Main stem: Ø0.470" x 6.930"
- ▶ Assistant stem: Ø3.940" x 6.300"
- ▶ Clamp hole: 3/8" diameter plus 8mm sleeve
- ▶ For dial indicators with lug back or flat back
- ▶ Base: 2.4" x 2" x 2.2" with on/off switch



Magnetic Force (lbf)	Item #	Price
132	6201-60	\$ 25.40

Flex Arm Magnetic Stand

- ▶ Flexible arm
- ▶ Overall arm length: 13"
- ▶ Single lever operation to lock arm in place
- ▶ For dial indicators with stem diameter 3/8" and 8mm
- ▶ Base: 2.4" x 2" x 2.2" with on/off switch



Magnetic Force (lbf)	Item #	Price
176	6207-80A	\$ 51.50

Heavy Duty High Force Magnetic Stand

- ▶ Heavy duty with fine adjustment
- ▶ Main stem: Ø0.787" x 14.175"
- ▶ Assistant stem: Ø0.470" x 14.175"
- ▶ Clamp hole: 3/8" diameter plus 8mm sleeve
- ▶ For dial indicators with lug back or flat back
- ▶ Base: 2.9" x 2" x 2.2" with on/off switch



Magnetic Force (lbf)	Item #	Price
220.5	6202-100	\$ 67.00

Positioning Blocks

- ▶ Pairs of matched blocks for positioning and set-up
- ▶ Squareness: 0.0003"
- ▶ Parallelism: 0.0002"
- ▶ Thread size: 3/4-16 UNC
- ▶ Screws and wrench included
- ▶ Supplied in fitted storage case



Size (Inch)	Item #	Price
1 x 2 x 3	6531-5	\$ 38.50
2 x 3 x 4	6531-7	130.90

While Quantities Last!

Depth Micrometers

- ▶ Graduation: 0.001"
- ▶ Flat measuring end on depth rod
- ▶ Ratchet stop
- ▶ Supplied with adjusting wrench
- ▶ Includes measuring rods
- ▶ Supplied with ratchet stop to secure measuring rods
- ▶ Supplied in fitted storage case



Range (Inch)	Base (Inch)	Item #	Price
0-1	2.5 x 0.7	3241-B1	\$ 88.20
0-1	4.0 x 0.7	3241-1	89.10
0-4	2.5 x 0.7	3241-B4	142.80
0-4	4.0 x 0.7	3241-4	144.20
0-6	4.0 x 0.7	3241-6	175.60
0-12	4.0 x 0.7	3241-12	282.20

Tubular Internal Micrometers



- ▶ Graduation: 0.001"
- ▶ Micrometer head range: 2-2.5"
- ▶ Supplied in fitted storage case

ACCURACY (Inch)
 $\pm[(L \div 2) \times 0.00005] + 0.0003$
 L= Max. Measuring Length

Range (Inch)	Micrometer Head (Inch)	Item #	Price
2-12	2-2.5	3221-12	\$ 233.80
8-20	8-9	3221-20	290.10
8-40	8-9	3221-40	904.30

Tubular Internal Micrometers



- ▶ Graduation: 0.001"
- ▶ Micrometer head range: 2-2.5"
- ▶ Rod diameter: 0.61"
- ▶ Carbide measuring faces
- ▶ Supplied with setting standards
- ▶ Supplied in fitted storage case

ACCURACY (Inch)
 $\pm[(L \div 2) + n + 3] \times 0.00005$
 n=Number of rods
 L=Max. Measuring Length

Range (Inch)	Extension Rods (Inch)	Item #	Price
2-4	0.5, 1	3222-4	\$ 133.90
2-6	0.5, 1, 2	3222-6	142.10
2-12	0.5, 1, 2 (2pcs), 4	3222-12	189.00
2-20	0.5, 1, 2 (2pcs), 4, 8	3222-20	233.40
2-40	0.5, 1, 2, 4 (2pcs), 6, 8, 12	3222-40	744.70
2-60	0.5, 1, 2, 4 (2pcs), 6, 8 (2pcs), 12 (2pcs)	3222-60	1,356.60

Dial Indicator Depth Gages



- ▶ Hardened stainless steel base
- ▶ Three rod lengths with spherical ends to allow measurements from: 0-0.4", 0.4-0.8", 0.8-1.2" or 0-10mm, 10-20mm, 20-30mm
- ▶ Supplied in fitted storage case

INCH

Range (Inch)	Indicator Range (Inch)	Indicator Graduation (Inch)	Base (Inch)	Item #	Price
0-1.2	0-0.5	0.001	4 x 0.67	2341-E2	\$ 72.80

Electronic Indicator Depth Gage



- ▶ Hardened stainless steel base
- ▶ Buttons: inch/mm conversion, power on/off, zero set
- ▶ Three rod lengths with spherical ends to allow measurements from: 0-0.4"/0-10mm, 0.4-0.8"/10-20mm, 0.8-1.2"/20-30mm
- ▶ Supplied in fitted storage case

Range (Inch/mm)	Indicator Range (Inch/mm)	Indicator Graduation (Inch/mm)	Base (Inch/mm)	Item #	Price
0-1.2/0-30	0-0.5/0-12.7	0.0005/0.005	4 x 0.67/101.5 x 17	2141-102	\$ 134.40

Measuring Tool Sets

2-Piece Set

► **Set Includes:**

- 1) Electronic digital caliper (1112-150), range 0-6"/0-150mm, resolution 0.0005"/0.01mm, meets DIN862, made of hardened stainless steel, with SR44 battery and data output via USB
- 2) Electronic outside micrometer (without SPC), range 0-1"/0-25mm, resolution 0.00005"/0.001mm, SR44 battery, auto power off, meets DIN863, ratchet stop, anvil lock, carbide tips, with spare spherical anvil

► Supplied in fitted storage case

Item #	Price
5022	\$ 164.10



3-Piece Set

► **Set Includes:**

- 1) Dial caliper (1311-6), range 0-6", graduation 0.001", meets DIN862, made of hardened stainless steel
- 2) Outside micrometer (3202-1), range 0-1", graduation 0.0001", meets DIN 863, with ratchet stop, carbide tips and zero adjusting wrench
- 3) Rule (7110-150), 0-6", graduations 1/32", 1/64", 1/16", made of flexible stainless steel

► Supplied in fitted storage case

Item #	Price
5003-1	\$ 98.30



7-Piece Set

► **Set Includes:**

- 1) Electronic digital caliper (1112-150), range 0-6"/0-150mm, resolution 0.0005"/0.01mm, meets DIN862, made of hardened stainless steel, with SR44 battery and data output via USB
- 2) Electronic outside micrometer (without SPC), range 0-1"/0-25mm, resolution 0.00005"/0.001mm, SR44 battery, auto power off, meets DIN863, carbide tips, with spare spherical anvil
- 3) Electronic digital indicator, range 0-0.5"/0-10mm, resolution 0.0005"/0.01mm, auto power off, lug back, with SR44 battery
- 4) Magnetic stand, magnetic force 132 lbf, base 2.4" x 2" x 2.2" with on/off switch, with fine adjustment, main stem Ø0.470" x 6.930", assistant stem Ø3.940" x 6.3"
- 5) Micrometer stand (6300)
- 6) Caliper depth base attachment, length 3", provides a wide base for depth measurement with electronic digital caliper, made of stainless steel
- 7) Zero setting bar, used as calibration tool for electronic digital caliper and depth base attachment, made of stainless steel

► Supplied in fitted storage case

Item #	Price
5007-2	\$ 299.90



Optional Data Connection Cables for Sets

Description	Item #	Price
For Electronic Caliper:	7302-SPC1	\$ 114.80
<i>No software required</i>		

Dial Bore Gages

- ▶ Indicator graduation: 0.0005"
- ▶ Indicator range: 0-0.25"
- ▶ Bezel diameter: 2.28"
- ▶ Style A: Steel moving tip and steel fixed anvil
- Style B & C: Steel moving tip and ceramic fixed anvil
- Style D: Ceramic moving tip and ceramic fixed anvil
- ▶ Supplied in fitted storage case



Range (Inch)	Depth (Inch)	Anvil Type	Item #	Price
0.24-0.4	1.57	A	2323-04	\$ 214.80
0.4-0.7	4	B	2323-07	193.90
0.7-1.5	6	C	2323-15	178.00
1.4-2.4	6	D	2323-24	161.00
2-4	6	D	2323-4	163.30
2-6	6	D	2323-6	169.60
6-10	16	D	2323-10	211.50
10-16	16	D	2323-16	247.00

Precision Dial Bore Gages

- ▶ Indicator graduation: 0.0001"
- ▶ Indicator range: 0-0.05"
- ▶ Bezel diameter: 2.28"
- ▶ Shock-proof dial indicator
- ▶ Style A: Steel moving tip and steel fixed anvil
- Style B & C: Steel moving tip and ceramic fixed anvil
- Style D: Ceramic moving tip and ceramic fixed anvil
- ▶ Supplied in fitted storage case

Range (Inch)	Depth (Inch)	Anvil Type	Item #	Price
0.4-0.7	4	B	2826-07	\$ 383.90
0.7-1.5	6	C	2826-15	381.30
1.4-2.4	6	D	2826-24	365.50
2-6	6	D	2826-6	385.90
6-10	16	D	2826-10	404.50
10-16	16	D	2826-16	421.50

Multi-Beam Electronic Height Gages



- ▶ Resolution: 0.001"/0.01mm
- ▶ Carbide-tipped scriber, stainless steel beam and base, with driving wheel for vertical movement
- ▶ Buttons: zero set, power on/off, inch/mm conversion, absolute and relative measurement, data preset, set data
- ▶ Data output via RS232 (cable included)
- ▶ Supplied in fitted storage case



Range (Inch/mm)	Number of Beams	Item #	Price
0-12/0-300	2	1151-300	\$ 693.90
0-18/0-450	2	1151-450	881.40
0-24/0-600	2	1151-600	1,122.80
0-40/0-1000	3	1151-1000	4,300.00
USB SPC Cable		7301-SPC2	\$ 204.60

SPC Software for PC included with cable

Block Levels

- ▶ Accuracy: 0.0002"/10"
- ▶ For checking horizontal surfaces and shafts
- ▶ Heat insulated grip
- ▶ Prism bottom
- ▶ Fine ground measuring surface
- ▶ Cross vial
- ▶ Supplied in fitted storage case



Size (Inch)	Item #	Price
6	4901-6	\$ 156.90
8	4901-8	175.50
12	4901-12	237.50

Indicator Holder

- ▶ Includes dovetail holder
- ▶ Supplied in storage pouch



Stem Section	Stem Length	Clamp Holes	Code	Price
9x9mm	100mm	4 and 8mm diameter	6293-1	\$ 23.40

Square Frame Levels

- ▶ Accuracy: 0.0002"/10"
- ▶ For checking horizontal and vertical surfaces and shafts
- ▶ Heat insulated handle
- ▶ Two prisms and two flat surfaces
- ▶ Fine ground measuring surfaces
- ▶ Cross vial
- ▶ Supplied in fitted storage case



Dimensions (Inch)	Item #	Price
4 x 4	4902-4	\$ 174.90
6 x 6	4902-6	177.40
8 x 8	4902-8	194.40
12 x 12	4902-12	290.70

Electronic Protractor and Level

- ▶ 6" overall length
- ▶ Used as level and/or protractor
- ▶ Buttons: data hold, zero set, power on/off,
- ▶ Four work surfaces
- ▶ Display rotates when level is upside down
- ▶ CR2032 battery
- ▶ Aluminum frame with magnetic bottom and v-groove for shafts
- ▶ Supplied in leather pouch



Range	Resolution	Item #	Price
0-360°	0.1°	2173-360	\$ 153.00

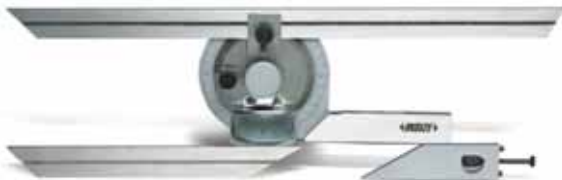
Electronic Protractor



- ▶ Display in degrees and degrees/minutes/seconds
- ▶ Buttons: preset (preset any angle), mode (choose 0-90°, 0-180° or 0-360°), zero/on (zero set and power on), "+/-" – for measuring direction change from zero set
- ▶ Stainless steel with satin chrome plated scale
- ▶ With fine adjustment and small angle attachment
- ▶ Two blades: 6"/150mm and 12"/300mm
- ▶ Supplied with standard square for 90° set
- ▶ Supplied in fitted storage case

Range	Resolution	Item #	Price
0-360°	30"/0.005°	2172-360	\$ 552.40

Protractor



- ▶ Graduations: 5'
- ▶ Parallax-free reading
- ▶ Stainless steel with satin chrome plated scale
- ▶ With fine adjustment and locking clamp
- ▶ Two blades: 6"/150mm and 12"/300mm
- ▶ With magnifier lens and small angle attachment
- ▶ Supplied in fitted storage case



Clamp for height gage sold separately

Range	Item #
0-360°	2372-360

\$97.30

Item #	Price
2372-CLAMP	\$ 18.90

While Quantities Last!

Dial Protractor



- ▶ Dial graduation: 5'
- ▶ Stainless steel
- ▶ With locking clamp
- ▶ Two blades: 6"/150mm and 12"/300mm
- ▶ With small angle attachment
- ▶ Supplied in fitted storage case



Clamp for height gage sold separately

Range	Item #	Price
0-360°	2373-360	\$ 138.30

Item #	Price
2372-CLAMP	\$ 18.90

Combination Square



- ▶ Blade graduation: 2278-180 1/32" and 0.5mm on one side, 1/64" and 1mm on reverse side
2278-180E 1/8" and 1/16" on one side, 1/32" and 1/64" on reverse side
- ▶ Used as square, level, marking gage, scribe, center gage, protractor and 12" steel rule
- ▶ Square 90° and 45°, with level and scribe
- ▶ Protractor graduated 180° in both directions, with level
- ▶ Supplied in fitted storage case

Item #	Price
2278-180	\$ 137.10
2278-180E	137.10

Double Squares

- ▶ Hardened blade, satin chrome finish
- ▶ Supplied in storage case



Blade Length	Graduations	Code	Price
4"	1/8", 1/16", 1/32", 1/64"	2277-1	\$ 26.80
6"	1/8", 1/16", 1/32", 1/64"	2277-2	29.80
4"/100mm	1/32", 1/64", 0.5mm, 1mm	2277-3	26.80
6"/150mm	1/32", 1/64", 0.5mm, 1mm	2277-4	29.80

90° Flat Edge Squares

- ▶ Meets DIN875 standard, grade 0
- ▶ Flat edge
- ▶ Hardened stainless steel
- ▶ Lapped measuring faces
- ▶ Supplied in fitted storage case



Dimensions (Inch/mm)	Item #	Price
2 x 1.5/50 x 40	4791-50	\$ 36.20
3 x 2/75 x 50	4791-75	40.90
4 x 2.75/100 x 70	4791-100	47.70
6 x 4/150 x 100	4791-150	71.50
8 x 5/200 x 130	4791-200	92.50
12 x 8/300 x 200	4791-300	131.60

90° Knife Edge Squares

- ▶ Meets DIN875 standard, grade 00
- ▶ Two knife edges on upright blade
- ▶ Hardened stainless steel
- ▶ Lapped measuring faces
- ▶ Supplied in fitted storage case



Dimensions (Inch/mm)	Item #	Price
2 x 1.5/50 x 40	4790-050	\$ 41.60
3 x 2/75 x 50	4790-075	47.00
4 x 2.75/100 x 70	4790-0100	54.10
6 x 4/150 x 100	4790-0150	89.70
8 x 5/200 x 130	4790-0200	115.00
12 x 8/300 x 200	4790-0300	217.40

Radius Gage Sets

- ▶ Precision ground alloy steel
- ▶ Each piece has three concave and two convex gaging surfaces
- ▶ Supplied in storage pouch



INCH

Range (Inch)	Blade Size (Inch)	Blade Quantity	Handle	Item #	Price
1/64-1/2	1/64, 1/32, 3/64, 1/16, 5/64, 3/32, 7/64, 1/8, 9/64, 5/32, 11/64, 3/16, 7/32, 15/64, 1/4, 17/64, 9/32, 5/16, 11/32, 3/8, 13/32, 7/16, 15/32, 1/2	25	Included	4804-25E	\$ 51.70
9/16-1	9/16, 5/8, 11/16, 3/4, 13/16, 7/8, 15/16, 1	8	N/A	4804-8E	75.00

METRIC

Range (mm)	Blade Size (mm)	Blade Quantity	Handle	Item #	Price
0.5-13	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, 13	26	Included	4804-26	\$ 53.20

Screw Pitch Gages



- ▶ Alloy steel
- ▶ Blades individually marked with pitch
- ▶ Supplied in storage pouch

ACME THREADS 29 DEGREES

Range (TPI)	Thread Type	Blade Pitch (TPI)	No. of Blades	Item #	Price
1-12	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, 12	16	4824-16	\$ 54.20

TRAPEZOIDAL THREADS 30 DEGREES

Range (mm)	Thread Type	Blade Pitch (mm)	No. of Blades	Item #	Price
2-20	30°	2, 3, 4, 5, 6, 7, 8, 9, 10, 12, 16, 20	12	4824-12	\$ 48.40

Inch Rectangular Gage Block Sets

- ▶ Alloy Steel
- ▶ Blocks individually serialized
- ▶ Manufacturing compliance certificate with deviation readings
- ▶ Meets ASME B89.1.9-2002 standard grade 0
- ▶ Supplied in fitted storage case

Other inch and metric sets are available upon request



36-Piece Set

Size (Inch)	Step (Inch)	No. of Blocks	Item #	Price
0.05		1	4102-36	\$ 457.00
0.1001-0.1009	0.0001	9		
0.101-0.109	0.001	9		
0.11-0.19	0.01	9		
0.1-0.5	0.1	5		
1		1		
2		1		
4		1		

81-Piece Set

Size (Inch)	Step (Inch)	No. of Blocks	Item #	Price
0.1001-0.1009	0.0001	9	4102-81	\$ 773.00
0.101-0.149	0.001	49		
0.05-0.95	0.05	19		
1-4	1	4		

Rules



- ▶ Graduations: Inch: 1/32", 1/64" and 1/16" metric: 0.5mm and 1mm
- ▶ Flexible, stainless steel construction with satin finish
- ▶ Supplied in storage pouch

Size (Inch/mm)	Width (Inch/mm)	Thickness (Inch/mm)	Item #	Price
6/150	0.71/18	0.04/1	7110-150	\$ 4.20
8/200	0.71/18	0.04/1	7110-200	4.70
12/300	1/25	0.04/1	7110-300	5.20
20/500	1.18/30	0.05/1.2	7110-500	12.50
24/600	1.18/30	0.05/1.2	7110-600	15.60
40/1000	1.26/32	0.06/1.5	7110-1000	29.20
48/1200	1.38/35	0.07/1.8	7110-1200	33.30
60/1500	1.5/38	0.07/1.8	7110-1500	56.20
80/2000	1.57/40	0.08/2	7110-2000	82.20

Small Hole Gage Set

- ▶ For small holes, slots, grooves, etc.
- ▶ Satin chrome finish
- ▶ Supplied in storage pouch



4 Piece Set Includes:

- A: 0.125" to 0.200" (3mm to 5mm)
- B: 0.200" to 0.300" (5mm to 7.5mm)
- C: 0.300" to 0.400" (7.5mm to 10mm)
- D: 0.400" to 0.500" (10mm to 13mm)

Range (Inch/mm)	Item #	Price
0.125-0.500/3-13	4208-1	\$ 24.70

Telescoping Gage Set

- ▶ Self centering feature for quick measurement of inside diameters of hole and widths of slots
- ▶ Both gaging ends are heat treated stainless steel and ground to a sphere
- ▶ Satin chrome finish
- ▶ Supplied in storage pouch



6 Piece Set Includes:

- A: 5/16" to 1/2" (8mm to 12.7mm)
- B: 1/2" to 3/4" (12.7mm to 19mm)
- C: 3/4" to 1-1/4" (19mm to 32mm)
- D: 1-1/4" to 2-1/8" (32mm to 54mm)
- E: 2-1/8" to 3-1/2" (54mm to 90mm)
- F: 3-1/2" to 6" (90mm to 150mm)

Range Inch (mm)	Item #	Price
5/16-6 (8-150)	4206-1	\$ 39.40

Long Handle Telescoping Gages



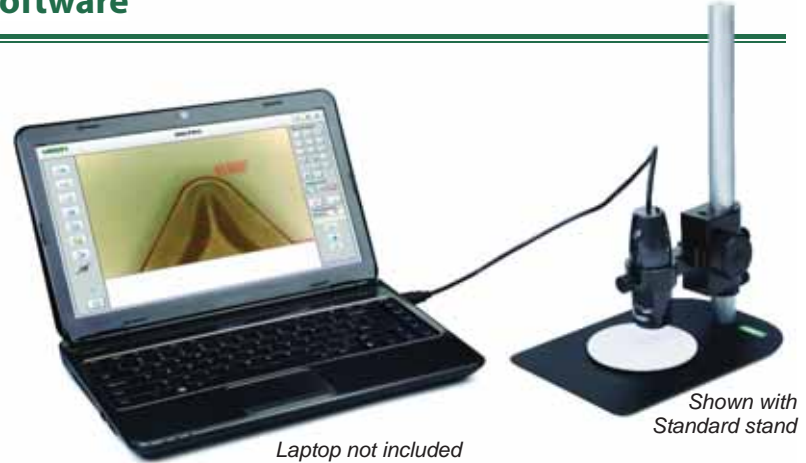
- ▶ Self centering feature for quick measurement of inside diameters of holes and widths of slots
- ▶ Both gaging ends are heat treated stainless steel and ground to a sphere
- ▶ Satin chrome finish
- ▶ Supplied in storage pouch

Handle Length (Inch/mm)	Range (Inch/mm)	Item #	Price
10/250	5/16 to 1/2 / 8 to 12.7	4209-1	\$ 10.80
10/250	1/2 to 3/4 / 12.7 to 19	4209-2	10.80
10/250	3/4 to 1-1/4 / 19 to 32	4209-3	10.80
12/300	1-1/4 to 2-1/8 / 32 to 54	4209-4	12.50
12/300	2-1/8 to 3-1/2 / 54 to 90	4209-5	12.50
12/300	3-1/2 to 6 / 90 to 150	4209-6	12.50
12/300	4-3/4 to 8 / 120 to 200	4209-7	18.60

INSIZE TOOLS THAT MEASURE UP!

Digital Microscope with Stand and ISM-PRO Software

- ▶ Records photos and video
- ▶ Supplied with geometric software for measurement
- ▶ Built in adjustable LED illuminator
- ▶ Two step adjustable focus with 10X to 200X magnification
- ▶ Image sensor: 1.3 mega pixels
- ▶ Resolution: 1280 x 1024
- ▶ Dimensions: Ø1.4173" x 5.0394" (without stand)
- ▶ Power Supply: 5V DV from USB port
- ▶ Includes stand, two calibration rules – graduations 0.1mm and 1mm, focus ring supports for 80X/150X and 60X/200X magnification, software CD (requires Windows XP SP2, Vista or Windows 7 operating system)



Screen capture of ISM-PRO software

Description	Item #	Price
Microscope and Standard Stand (without swivel)	ISM-PM200SA	\$ 372.10
Microscope and Universal Stand (with swivel)	ISM-PM200SB	389.90



Standard



Universal

Swivels left, right, forward or backward

Wireless Digital Microscope and ISM-PRO Software (Optional Stands)

- ▶ Records photos and video
- ▶ Supplied with geometric software for measurement
- ▶ Built in adjustable LED illuminator
- ▶ Two step adjustable focus with 10X to 200X magnification
- ▶ Transmission distance: max. 10m/32.8ft
- ▶ Image sensor: 0.35 mega pixels
- ▶ Resolution: 720 x 480
- ▶ Dimensions: Ø36 x 138mm
- ▶ Power Supply: built in rechargeable battery
- ▶ Includes two calibration rules – graduations 0.1mm and 1mm, focus ring supports for 80X/150X and 60X/200X magnification, software CD, and AC/DC adapter (requires Windows XP SP2, Vista or Windows 7 operating system)



Item #	Price
ISM-WM200-U	\$ 468.30



Standard



Universal

Swivels left, right, forward or backward

OPTIONAL STANDS (Sold separately)

Description	Item #	Price
Standard (without swivel)	ISM-WM200-STAND	\$ 132.10
Universal (with swivel)	ISM-WSTD	117.30



Precision Measuring Instruments

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Prices subject to change without notice



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