+///SIZE+ TOOLS THAT MEASURE UP

2022 +BEST+ SELLERS

TOP 50+



1 YEAR MANUFACTURER'S WARRANTY ON INSIZE TOOLS



TOOLS WITH THIS MARK SUPPLIED WITH MANUFACTURER'S INSPECTION CERTIFICATE AND ARE TRACEABLE TO NIST (NATAIONAL INSTITUTE OF STANDARDS & TECHNOLOGY)

LEARN MORE

VIDEO: https://youtu.be/2j9BGVKbzS4

EXCLUSIVELY AVAILABLE FROM KAR IN CANADA **



Electronic Measuring Microscope

- Records photos and video
- Supplied with measuring software (requires Windows XP SP2, Vista, Windows 7, 8 or 10 operating system)
- Data export to CAD or Microsoft Excel
- Magnification: 10X to 200X
- Pixels: Standard 1.3M (resolution: 1280x1024)
- Built-in adjustable LED
- Power supply: USB 2.0 cable (voltage required: 5±0.1V)



Magnification (Inch)	Focus Distance (Inch)	View Field (Inch)	Accuracy (Inch)
50x	0.83	0.32×0.25	0.0012
100x	0.51	0.15×0.12	0.0006
150x	0.63	0.10×0.08	0.0004
200x	0.75	0.07×0.06	0.0003

Includes one of each: Microscope, Stand, White/Black plate, Focus support ring 80X/150X, Focus support ring 60X/200X, Calibration rule (graduation 0.Imm), Calibration rule (graduation 1mm), ISM-PRO software CD

Ultrasonic Thickness Gage

• Resolution: 0.001" (range <10")

0.01" (range >10")

• Accuracy: ±0.002 (range <0.4")

±(0.002+H/1000) (range 0.4-4")

±H/333 (range ≥4")

 $\ His the {\it thickness} \ to \ be \ measured in inch$

- Applicable temperature: <140°F
- Suitable for pipes, tanks, etc.
- Minimum size of pipe for measurement:
 0.79" diameter x 0.05" wall thickness
- Supplied with transducer (5MHz, \emptyset 0.43"), bottle of couplant and 2 x AAA batteries
- Supplied with manufacturer inspection certificate
- Weight: 0.49 lbs
- Supplied in fitted storage case

Measure thickness from one side of workpiece



Range: 0.03-11.81 Inch Code 816694

1268.08



Applicable materials: metal, plastic, glass, nylon, resin, ceramic, ice Not recommended for casting workpieces

YOUR AUTHORIZED KAR DISTRIBUTOR:

PRICE CHANGE EFFECTIVE JULY 1, 2022 Contact your local KAR Distributor for current prices



Electronic, Dial & Vernier Calipers



- Resolution: 0.0005"/0.01mm
- Buttons: on/off, zero, inch/mm
- Auto power off, move digital unit to turn power on
- Battery CR2032
- Data output
- Stainless steel construction
- Supplied in fitted storage case

0-6 Inch/0-150mm Accuracy: ±0.0010" Code 817000

0-8 Inch/0-200mm Accuracy: ±0.0015" Code 817001

99.03

0-12 Inch/0-300mm Accuracy: ±0.0015" Code 817002



- Resolution: 0.0005", 1/128" (fractional), 0.01mm
- Buttons: zero, unit (mm/inch/fraction), ABS (absolute and incremental), on/off
- Auto power off
- Battery CR2032
- Data output
- Stainless steel construction
- Supplied in fitted storage case

0-6 Inch/0-150mm Accuracy: ±0.0015" Code 280003

06.49

0-8 Inch/0-200mm Accuracy: ±0.0015" Code 280004

159.00

0-12 Inch/0-300mm Accuracy: ±0.0015" Code 280005

<u>ノ</u>ス().82



- Graduations: 0.001"
- One revolution equals: 0.1"
- Shock proof dial indicator
- Supplied in fitted storage case

0-6 Inch/0-150mm Accuracy: ±0.0015" Code 816028

0-8 Inch/0-200mm Accuracy: ±0.0020" Code 816030

114.28

0-12 Inch/0-300mm Accuracy: ±0.0020" Code 816032

2<u>0</u>9.11



- · Zinc alloy casing
- Buttons: zero, on/off, inch/mm
- Auto power off
- Battery CR2032
- Stainless steel construction
- Supplied in fitted storage case

0-6 Inch/0-150mm Accuracy: ±0.0015" Code 816012

86.69

0-8 Inch/0-200mm Accuracy: ±0.0015" Code 816014

116.66

0-12 Inch/0-300mm Accuracy: ±0.0015" Code 816016

()1.62



0-6 Inch/0-150mm Accuracy: ±0.0012" Code 876750

• Supplied in fitted storage case

59.89



ACCESSORIES: unit to turn power on • Battery CR2032 SPC cable

- Data output
- Stainless steel construction
- · Supplied in fitted storage case

Lower Jaw 0.59-6 Inch/15-150mm Accuracy: ±0.0016" Code 817005

4()7.40

<<< Many More Sizes & Styles of INSIZE Calipers Available – Contact your local KAR Distributor >>>

Depth stop



Outside Micrometers

With Counter NST

- Counter resolution: 0.001"
- Thimble graduation: 0.0001"
- Ratchet stop and carbide tips
- Micrometers over 1" are supplied with a setting standard
- Supplied in fitted storage case

0-1 Inch Accuracy: ±0.00015" Accuracy: ±0.00015" Accuracy: ±0.0002" Accuracy: ±0.0002" Code 280933 Code 280934 Code 280935 Code 280936 175.83 108.29

164.51 **37**.06

3-4 Inch

- Resolution: 0.00005"/0.001mm
- Button functions: on/off, set, inch/mm, ABS/INC
- Auto power off
- Battery LR44
- Carbide tips and friction thimble
- Spherical anvil included allows tube thickness measurements
- Micrometers over 0-1"/0-25mm are supplied with a setting standard

Electronic - 2 Button

• Supplied in fitted storage case

0-1 Inch/0-25 mm 1-2 Inch/25-50 mm Code 816500 Code 816502

134.48

158^{.78}

2-3 Inch/50-75 mm 3-4 Inch/75-100 mm

Accuracy: ±0.0001" Accuracy: ±0.00015" Accuracy: ±0.00015" Accuracy: ±0.00015" Code 816504

NST

Spherical Anvil

to measure

tube thickness

165.58

- Graduation: 0.0001"/0.01mm
- Ratchet stop (816565 with friction thimble)
- Carbide tips
- Micrometers over 1"/25mm are supplied with a setting standard







Inch & Metric

*NST

0-1 Inch with **Friction Thimble** Accuracy: ±0.0001"

Code 816565 55.46



Up to 6"/150mm micrometers sets supplied in plastic moulded storage case

micrometer sets supplied in an aluminum storage case

*NIST Certification										
Inch				Metric				Sets in Protective Fitted Storage Cases		
Range (Inch)	Accuracy (Inch)	Code	Price	Range (mm)	Accuracy (µm)	Code	Price	Description	Code	Price
0-1	±0.00015	* 816564	47.88	0-25	2	* 816530	45 .45	Inch Sets		
1-2	±0.00015	* 816566	53 .72	25-50	2	* 816532	51.00	0-3 Inch (3 micrometers, plastic case)	* 816588	151 ^{.68}
2-3	±0.00020	* 816568	59.40	50-75	2	* 816534	56.49	0-4 Inch (4 micrometers, plastic case)	* 816590	215.75
3-4	±0.00020	* 816570	66.09	75-100	3	* 816536	62.74	0-6 Inch (6 micrometers, plastic case)	* 816592	367 .97
4-5	±0.00025	* 816572	83.89	100-125	3	816538	82.05	6-12 Inch (6 micrometers, aluminum case)	816594	874.74
5-6	±0.00025	* 816574	95.03	125-150	3	816540	92.63	0-12 Inch (12 micrometers, aluminum case)	816596	1247.11
6-7	±0.00030	816576	117.49	150-175	4	816542	116.65	Metric Sets		
7-8	±0.00030	816578	129.25	175-200	4	816544	129.25	0-75 mm (3 micrometers, plastic case)	* 816554	162.52
8-9	±0.00030	816580	139.51	200-225	4	816546	139.48	0-100 mm (4 micrometers, plastic case)	* 816556	200.91
9-10	±0.00030	816582	156.23	225-250	5	816548	156.25	0-150 mm (6 micrometers, plastic case)	816558	360.12
10-11	±0.00035	816584	173.02	250-275	5	816550	173.03	150-300 mm (6 micrometers, aluminum case)	816560	856 ^{.71}
11-12	±0.00035	816586	183.57	275-300	5	816552	183.57	0-300 mm (12 micrometers, aluminum case)	816562	1251 ^{.52}



Depth Micrometer

- Graduation: 0.001"
- Micrometer head accuracy: ±0.00012"
- Rod accuracy: ±[0.001 + 0.0005(L/3)]
- (L= measuring range in inch)
- 6 rods with flat end Ratchet stop
- Supplied in fitted storage case

0-6 Inch Code 281939

Miniature Electronic Depth Gage



OPTIONAL ACCESSORY: SPC cable

Measure depth of small grooves, holes, and tire tread



- Resolution: 0.0005"/0.01mm
- Buttons: on/off, zero, inch/mm
- Supplied with zero set surface
- Auto power off, move digital unit to turn power on
- Battery CR2032
- Data output
- Stainless steel construction
- Supplied in fitted storage case

0-1 Inch/0-25mm Accuracy: ±0.0015" Code 284550

127.75

Dial Bore Gages

- Indicator graduation: 0.0005"
- Indicator range: 0.25"
- Repeatability: 0.00015"
- Supplied in fitted storage case

0.7-1.5 Inch

Accuracy: ±0.00075"

Code 282930

293.85



816192

OPTIONAL ACCESSORIES: Setting Ring



Long Handle 1.4-2.4 Inch 2-6 Inch

Accuracy: ±0.0009"

Code 816188

Code 816192 306^{.75}

Accuracy: ±0.0009"

6-10 Inch Accuracy: ±0.0009" Code 816184

10-16 Inch Accuracy: ±0.0009" Code 816186



2 Bore Gage SET • 1.4-2 Inch (Indicator/handle not included) Accuracy: ±0.0009" Code 877159



3 Bore Gage SET

- 0.7-1.5 Inch
- 1.4-2.4 Inch (Indicator not included)
- 2-6 Inch (Indicator not included)

Accuracy: ±0.0009" (except 2-6" = ±0.00075") Code 877160

471.62

Pitch Gages

- For measuring the pitch of screw threads
- Blades individually marked with pitch
- Medium carbon steel
- Supplied in storage pouch



0.4-7mm/4-42TPI Code 816695 0.25-7mm Code 283551 4-42TPI Code 283552

19.63

15.11

18.12

Range	Accuracy	Thread Type	Blade Pitch	Code
0.4-7mm	±0.07mm	Metric 60°	52 blades: 0.4, 0.5, 0.6, 0.7, 0.75, 0.8, 0.9, 1, 1.25, 1.5, 1.75, 2, 2.5, 3, 3.5, 4, 4.5, 5, 5.5, 6, 6.5, 7 mm	816695
4-42TPI	±0.0028"	Unified 60°	4, 4-1/2, 5, 5-1/2, 6, 7, 8, 9, 10, 11, 11-1/2, 12, 13, 14, 15, 16, 18, 20, 22, 24, 26, 27, 28, 30, 32, 34, 36, 38, 40, 42 TPI	
0.25-7mm	±0.0028"	Metric 60°	24 blades: 0.25, 0.3, 0.35, 0.4, 0.5, 0.7, 0.75, 0.8, 0.9, 1, 1.25, 1.5, 1.75, 2, 2.5, 3, 3.5, 4, 4.5, 5, 5.5, 6, 6.5, 7 mm	283551
4-42TPI	±0.0028"	Unified 60°	30 blades: 4, 4-1/2, 5, 5-1/2, 6, 7, 8, 9, 10, 11, 11-1/2, 12, 13, 14, 15, 16, 18, 20, 22, 24, 26, 27, 28, 30, 32, 34, 36, 38, 40, 42 TPI	283552

Drill Angle Gage

- For checking drills with 60°, 70°, 90°, 118°, 125°, 135°, 150°, or 160° angles
- Stainless steel

- 3/0 - - 5/16 - - 1/4 - 1/4 - 1

• Supplied in storage pouch



0-180° Range Accuracy: ±0.5° Code 816683

16.48

Sheet Metal Gage

American Standard

- US standard for gaging sheet metal, plate iron and steel
- Hardened steel with satin chrome finish
- Supplied in storage pouch

#0-36 Range (0.3125-0.007")

Code 283575

36.03





- Graduation: 0.1mm
- For quick measuring of slot width and various gaps in material and work pieces
- Diameter correction table on back
- Supplied in storage pouch

0.8mm - 15mm Accuracy: ±0.1mm Code 285112

24.49

Feeler Gage

Hardened Alloy Steel Blades with 1 Brass

- Hardened alloy steel (except 0.01" blade - brass)
- Blades individually marked with inch/metric measurements
- Supplied in storage pouch



32 Blades 0.0015-0.035 Inch Range Code 283543

12.92

Small Hole Gage Set



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

0.125 to 0.5 Inch Code 816204

37.35

Telescoping Gage Set



- For quick measurement of inside diameter of holes and width of slots
- Satin chrome finish
- Supplied in storage pouch

6 Gages 5/16 to 6 Inch Code 816202

53.69

Electronic Chamfer Gage

- Measures 45° chamfer dimension
- Resolution: 0.0005"/0.01mm
- Accuracy: ±0.0025"/0.063mm
- Buttons: on/off, zero, inch/mm
- Auto power off move unit to turn power on
- Battery CR2032
- Data output
- Stainless steel



OPTIONAL ACCESSORY: SPC cable

S "SPC

212.97

0-0.39 Inch/0-10mm





Edge Finder

• Hardened shank and contact point



Shank: Ø3/8" Contact Point: Ø0.2" Accuracy: ±0.0003" Code 816383

62.34

<<< MORE STYLES AVAILABLE >>> Contact your local **KAR** Distributor

Centering Indicator



Dial Indicators

Inch

- ASME B89.1.10M-2001 standards
- Graduation: 0.001"
- First 2.5 rev. accuracy: ±0.001"
- Range per rev.: 0.1"
- Dial reading: 0-100
- Lug back
- Bezel locking clamp and limit pointers
- Contact point thread: #4-48UNF
- Supplied in fitted storage case



OPTIONAL ACCESSORIES: Contact points, Flat back

• Hysteresis: 20µm

- Graduation: 0.1mm
- Range per rev.: 10mm
- Dial reading: 0-10
- Bezel locking clamp and limit pointers
- Contact point thread: M2.5 x 0.45
- Supplied in fitted storage case

Metric



OPTIONAL ACCESSORIES: Contact points, Flat back

0.5 Inch Accuracy: ±0.002" Code 816156

47.49

1 Inch Accuracy: ±0.002"

44.82

Accuracy: ±0.004"

Optional Magnetic Back

For 1 Inch **Dial Indicator**



Digmeter: 2.126' Code 877212 28.58

Dial Test Indicators

- Jeweled bearing
- Carbide contact point
- Two measuring directions
- · Anti-magnetic body
- Supplied with two clamps: 5/32" and 3/8" diameters
- Supplied in fitted storage case



0.008 Inch

Accuracy: ±0.0001"

Code 816172

171.28

0.03 Inch Graduation: 0.0001" Graduation: 0.001" Accuracy: ±0.001" Dial reading: 0-40-0 Dial reading: 0-15-0



0.03 Inch Graduation: 0.0005" Accuracy: ±0.0005" Dial reading: 0-15-0 Code 282860

103.88

OPTIONAL ACCESSORY: Contact point (stylus) - series 6284

> 0.008 Inch Graduation: 0.0001" Accuracy: ±0.0001" Dial reading: 0-40-0 Code 282861

Accuracy: ±0.001" Dial reading: 0-15-0 Code 282858

0.03 Inch

Graduation: 0.001"

98.29

0.03 Inch Graduation: 0.0005" Accuracy: ±0.0005" Dial reading: 0-15-0 Code 816170

128.54

Code 282859

171.95

<<< Ask about other Sizes & Accessories for INSIZE Dial Indicators – Contact your local KAR Distributor >>>

Magnetic Stands







- For electronic/dial indicators and dial test indicators
- Applicable holding stem Ø: 3/8", 8mm, 4mm



Magnetic force: 132lbf/60kgf Code 816250

33.46



With Fine Adjustment Magnetic force: 132lbf/60kgf Code 816252

30.98



With Fine Adjustment Magnetic force: 176lbf/80kgf Code 282886

21.08



With Fine Adjustment Magnetic force: 220lbf/100kgf Code 816254

95.54

Portable Refractometer

- Dimensions: 1.06" x 1.57" x 6.3"
- Weight: 0.39 lbs
- Graduations: 0.2%
- Measuring range: 0-32%
- Quickly measure the concentration of coolant
- Refer to the refraction factor of coolant ex: the refraction factor of grinding emulsion is 2.1, the reading value is 6%, so the actual concentration is 2.1x6%=12.6%
- Suitable for water based coolant









EXCLUSIVELY AVAILABLE FROM KAR IN CANADA **



Protractors & Levels



- Graduations: 1º
- Accuracy: ±0.3°
- Stainless steel with satin chrome plated scale
- With locking screw
- Supplied in storage case

0-180° Range Code 283330

47.25

- Graduations: 1º
- Accuracy: ±0.3°
- Stainless steel with satin chrome plated scale
- With locking screw
- Supplied in storage case

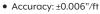
0-180° Range Code 283328

18.91

Electronic Protractor

- Resolution: 0.1°
- Accuracy: ±0.3°
- Buttons: on/off, zero
- With locking screw
- Graduation of blade: 1/32" and 1mm
- Stainless steel
- Battery CR2032
- Auto power off

Portable Level



- Shockproof vials
- Magnetic base
- Shock absorbing rubber end caps
- Working temperature: 5°F-131°F (-15°C-55°C)
- Vials made in Israel lifetime warranty



4 x 2 x 0.787 Inch Code 877180

14.11

Rules

Rigid Rules



- 4R graduation
- 1/64" and 1/32" on front, 1/16" and 1/8" on back
- Non-glare surface

Accuracy: ±0.003" Accuracy: ±0.004" Code 877203

Code 877201

24 Inch Accuracy: ±0.006" Code 877202

7.20

7.74

Semi-Flexible Rules



- Accuracy: ±0.006" (except 24 Inch/600mm: ±0.008")
- Graduations front & back: 1/64", 1/32", 1/16", 0.5mm and 1mm
- Semi-flexible, stainless steel with non-glare surface
- Supplied in storage pouch

3.02

Code 283596

6 Inch/150mm 8 Inch/200mm 12 Inch/300mm 20 Inch/500mm 24 Inch/600mm Code 283597

Code 283598 **4**.48

Code 283599

Code 283600

<>< UP TO 80 INCH/2000MM AVAILABLE >>>

Electronic Level & Protractor

- Resolution: 0.1° (=0.021 in/ft)
- Accuracy: 0° and 90°: ±0.1°; others: ±0.2°
- Used as level and protractor
- Aluminum frame
- Magnetic bottom
- Display rotates when gage is upside down
- Backlight on automatically when in use auto off 15 minutes after use
- Sea level permanently set inside chip zero setting not required when battery replaced
- Buttons: on/off, zero, absolute and incremental measurement
- Battery 1 x AAA
- Auto power off
- Supplied in leather pouch



0-360° Range, 8 Inch

Code 877018

21.15

4 x 90° Range Code 816396

1()().49



Code 283344

208.74

OPTIONAL ACCESSORY: Rigid Rule 283006

- 1/8" & 1/16" graduations side 1, 1/32" & 1/64" graduations side 2
- Square, level, marking gage, scriber, center gage, protractor and 12" rule
- Center Head: to locate center of round workpieces Accuracy: ±0.006"
- Protractor Head: to set the blade at desired angle to an edge of a workpiece, and may be used to measure angles - Range: 0-180°; Accuracy: ±7min.
- Square Head: to set the blade at 90° or 45° to an edge of a workpiece -Accuracy: ±8min. for 90° square and ±10min. for 45° square
- Supplied in fitted storage case



KAR Industrial Inc. www.kar.ca

Toronto.... Montréal..

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2022 List Prices subject to change without notice

*Products shown may not be exactly as illustrated Code 000315