

## NEW Electronic Bore Gage



DBGES5

**Features:**

- 1. Range: 1.4-6"/35mm-150mm.
- 2. Carbide anvils.
- 3. Easily adjustable.
- 4. Self-centering.
- 5. Includes extension holder.
- 6. Shop hardened case.

**Indicator Features**

- 1. Dual reading inch/metric electronic indicator
- 2. Bar graph and numeric digital display
- 3. Resolution: .00005"/0.002mm
- 4. Preset with recall
- 5. ABS/INC measurement
- 6. MIN/MAX/TIR
- 7. Measures Up To 6" /150mm In Depth

Inch Model No.: DBGES5 Metric Model No.: DBGESM

## Pocket Thickness Gages

- Designed for carrying convenience
- Ideal for quick inspection of paper, leather, wire, Plastic, sheet metal and similar materials
- Feature an easy zero point adjustment bezel



GTP-1/2

Model No.	Range	Graduation
GTP-1	0-0.5"	.001"
GTP-2	0-0.5"	.0005"
GTPM-10	0-10mm	.01mm

## Pocket Type Digital Thickness Gauge

- Large LCD for easy reading, digit height 8.4mm.
- Lightweight (about 80g) and portable
- Novel design, Large silvering display window
- For measuring the thickness of paper, leather, jewelry, and metal sheet, etc
- Perfect inside structure guarantees its constant measuring force
- Functions: manual ON/OFF (auto power off available); zero setting at any position; Metric/Inch system conversion at any position.
- One 1.55V SR44 battery can last about 12 months.
- Range: 0~10mm/.4"
- Resolution: 0.01mm/.001"
- Accuracy: ±0.03mm/±.001"



Model No.: TDGE-10

## Dial Thickness Gages

**Features:**

- Reading direct 0-100 with revolutions counter
- Hardened stainless steel spindle
- Hammertone green baked enamel finished frame
- Diameter of upper anvil is .394"



TDG-3

Model No.	Range	Throat Depth
TDG-1	0-0.5"/0.001"	1.18"
TDG-2	0-0.5"/0.0005"	1.18"
TDG-3	0-10/0.01mm	30mm

## Centering Indicator

- Includes 2 dovetail clamps (3/8 & 5/32")
- 180° Swivelling, two directional function contact point with automatic reversal, Carbide contact mounted .080" ball dia
- Includes: retaining rod, center point feeler, 4", 8", and 12" Straight Feelers, 4", 8", and 12" curved feelers



INDCX

Model No.	Range of per rev.	Length of straight feeler	Length of centre point feeler	Length of curved feeler
INDX M	0-3(mm)	45, 100, 154(mm)	52.5(mm)	46, 100, 154(mm)
INDCX	0-0.12(in)	1.77, 4, 6.06(in)	2.07(in)	1.81, 4, 6.06(in)

## 3D Alignment Indicator

Quickly and Easily Finds Edge, Center or Depth (All 3 Axis-X Y or Z)  
Use With Jig Bore, Milling Machines, Lathes, CNC and EDM.  
Eliminates Tedious, Trial and Error Measurements and Calculations!  
Complete Over-run Control!



- Stylus always returns to same position on the dial, repeatability .0004"
- The stylus mechanism has a full 360° movement on the X/Y plane and cannot tilt when engaged from the bottom, ensuring accurate vertical (Z axis) indication

**Metric:**

- Movement: Radial 0-10mm; Axial 0-6mm
- Graduation: Radial 0.01mm; Axial 0.0032mm
- Accuracy: 0.008mm
- Diameter of Holding Bar:  $\phi$ 20mm

Inch Model No.: IND-3D

Metric Model No.: INDM-3D

Heavy-Duty Construction  
--With 3/4" Shaft  
IND-3D

## Precise Telescoping Gages

- Double action (self-centering) for quick checking of inside measurements
- Rigid handle with self centering feature
- Constant spring tension for uniform feel
- Uniform contact pressures
- Contact point ends are hardened tool steel and precision ground on a radius of the smallest hole the gage will enter
- Self Centering • Satin Chrome

Model No.	Range	
	Inch	Metric (mm)
TG-A	5/16"-1/2"	8-12.7
TG-B	1/2"-3/4"	12.7-19
TG-C	3/4"-1-1/4"	19-32
TG-D	1-1/4"-2-1/8"	32-54
TG-E	2-1/8"-3-1/2"	54-90
TG-F	3-1/2"-6"	90-150
TG-6	6 Piece Inch Set	
TGM-6	6 Piece Metric Set	



TG-6  
Tin coated: TGTC-6

## Small Hole Gages

- Regulate by turning knurled knob at end of handle
- Accurately measures holes, slots, grooves and recesses
- Measurements obtained by measuring bay contact with micrometer

Metric Range	Inch Range
3.2 to 5.1mm	.125 to .200"
5.1 to 7.6mm	.200 to .300"
7.6 to 10.2mm	.300 to .400"
10.2 to 12.7mm	.400 to .500"

Set to Four (4) Case Only



GH-IH (Half-ball)

GH-IF (Full-ball)

## Thread Measuring Wire Sets

- 48 Pieces, 16 different sizes for all 60° threads
- Measures all threads from 3 to 48 threads per inch and all metric from 0.5mm to 6mm pitch
- 3 wire method is the best method of measuring external threads
- Wires are fitted in a plastic case stamped with sizes
- Laminated chart compiled from the U.S. Standard
- Gives proper sizes & measurement over wires

Specifications
Threads from 3 to 48 threads per inch and metric from 0.5mm to 6mm pitch

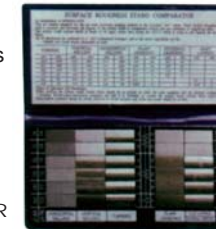


Model No.: TW

## Surface Roughness Standard

For checking, identifying and specifying the degree of roughness of machine parts

- 30 specimens: 7/8" L x 3/8W
- Set completed with marking in  $\mu$  AA (Micro Inches Arithmetical Average) and metric in  $\mu$  m RA (Micrometers)



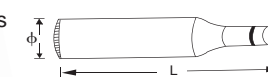
Model No.: SR

The set includes 30 specimens of six matching methods:

Specifications	Measuring Range
3 Specimens: Flat Lapping	2, 4 and 8 $\mu$ "AA
3 Specimens: Reaming	16, 32 and 63 $\mu$ "AA
6 Specimens: Grinding	2, 4, 8, 16, 32 and 63 $\mu$ "AA
6 Specimens: Horizontal Milling	16, 32, 63, 125, 250 and 500 $\mu$ "AA
6 Specimens: Vertical Milling	16, 32, 63, 125, 250 and 500 $\mu$ "AA
6 Specimens: Turning	16, 32, 63, 125, 250 and 500 $\mu$ "AA

## Electronic Edge Finder

- Locates round or flat work piece quickly and easily
- Made of high quality tool steel
- Hardened and precision ground
- Features 5 highly visible LED lights
- Repeatability TIR within .0004"
- Replaceable batteries (2) included



OEF-5

Model No.	Diameter of Holding Bar ( $\phi$ )	Length(L)	Accuracy
OEF-1	20mm	176mm	0.01mm
OEF-2	32mm	176mm	
OEF-3	20mm	98mm	
OEF-4	32mm	98mm	0.0004"
OEF-5	3/4in	3-7/8in	
OEF-6	1-1/4in	3-7/8in	

## E.S Electronic Edge Finder



Model No.	Diameter of Holding Bar	Length	Accuracy
EOEF-1	20mm	164mm	0.01mm
EOEF-2	32mm	164mm	
EOEF-3	20mm	98mm	

## Zero CNC Instrument Setters

- Mechanical zero-setting instrument for CNC Machine Centers
- Fast and sure establishing of "0" reference point with built in indicator
- No averaging of several spindle approaches is required, as is the case with most electronic point finders
- Positive alignment of zero position with easy reading precision indicator
- Spring loaded setting face to safeguard against damage from overrun

Model No.	Measuring Range	Graduation	Note
ISS	2"	.0005"	Steel Body
ISSM	50mm	0.01mm	
ISA	2"	.0005"	Aluminum body
ISAM	50mm	0.01mm	
ISE	2"	.0005"	Optical type
ISEM	50mm	0.01mm	



ISSM



ISAM



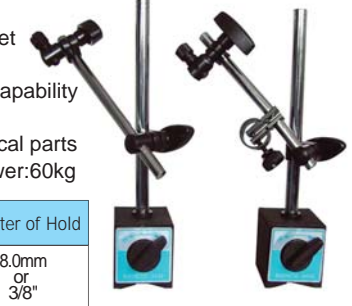
ISE

## Magnetic Bases

- Accepts lug back indicators and AGD dial indicator backs
- Provides easy tune fine adjustment
- Features a fine quality permanent magnet
- Smooth and easy ON/OFF switch
- Offers horizontal or vertical positioning capability
- Chrome plated rods and column
- V-grooved base for mounting on cylindrical parts
- Fine wrinkle enamel finish • MAG power: 60kg

Model No.	Base	Stem	Diameter of Hold
MB	2-1/2" x 2" x 2-1/8"	$\phi$ 12mm x 176mm	8.0mm or 3/8"
* MBF	(65x50x55mm)		

\* Fine Adjustment



MB

MBF

## Universal Hydraulic Magnetic Base

- Unique hydraulic clamping system can hold all style dial and dial test indicator
- Magnetic power: 80kg

Model No.	Base	Stem	Diameter of Hold
UTMB	2-1/2" x 2" x 2-1/8"	15"/380mm	8.0mm or 3/8"
* UTMB A	(65x50x55mm)	13"/330mm	

\* Aluminum stem



UTMB

UTMB A

## Universal On-off Mag. Base Holders

- Multi-nimble joint for instant fixation in any position
- Magnetic power: 80kg.

Model No.	Base	Stem	Diameter of Hold
WCE-A	2-1/2" x 2" x 2-1/8"	14"/350mm	8.0mm
* WCE-B	(65x50x55mm)	11"/280mm	or
MBH		11"/280mm	3/8"

\* Aluminum stem



WCE-A

WCE-B