

## I.D./O.D. Indicator Gage 36 B for Internal and External Dimensions

The economical way to check outside diameters on the shop floor.



EMD-36B-10

### Features

- Adjustable retraction of sensitive contact allows measurement of grooves and races. Retraction, normally set at 6 mm / 0.25", is adjustable to 10 mm / 0.40".
- Frictionless reed-spring (pantograph) motion transfer for repeatability.
- Gaging pressure is adjustable from 0 - 35 N / 0 - 8 lb.
- Two styles available. 2-point "T"-Plate or 3-point "V"-Plate.
- Two sizes available.
- Adjustable base: Gage can be positioned on any angle from horizontal to vertical.
- Variety of readout devices available.
- Reverse the top-plate to change from I.D. to O.D. measurement.
- Supplied with JW-9 Jaws.

### Indicating Instruments

All indicating instruments that has a 8 mm mounting shank may be used. Recommended are:

Catalog no.	Resolution	Order no.
MarCator 1087	1 $\mu$ m	4337060
$\mu$ Max $\mu$ m	.5 $\mu$ m	EDI-20302

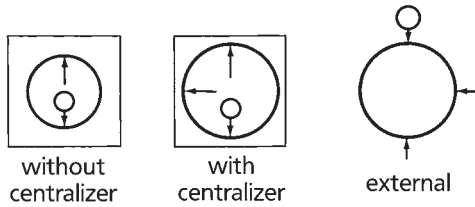
### Technical Data

Style	Capacity		Order no. With 0.0001" Dial Indicator	Order no. With 0.002 mm Dial Indicator	Order no.* With Max $\mu$ m <sup>®</sup> ///	Order no.* With Max $\mu$ m <sup>®</sup> /// & Output	Order no.* With $\mu$ Max $\mu$ m & Output	Order no. w/o Indicator, metric 8 mm mount shank
	I.D.	O.D.						
"T" Plate	.75 - 3.5" 19 - 89 mm	.25 - 5" 6 - 127 mm	36B-10	36B-10M	EMD-36B-10	EMD-36B-10D	EDI-36B-10	2003200
"T" Plate	.75 - 7.75" 19 - 197 mm	.25 - 8.75" 6 - 222 mm	36B-20	36B-20M	EMD-36B-20	EMD-36B-20D	EDI-36B-20	2003201
"V" Plate	.812 - 4.625" 21 - 117 mm	.312 - 5" 8 - 127 mm	36B-9	36B-9M		EMD-36B-9D	EDI-36B-9	
"V" Plate	.812 - 9" 21 - 229 mm	.312 - 9.5" 8 - 241mm	36B-19	36B-19M		EMD-36B-19D	EDI-36B-19	

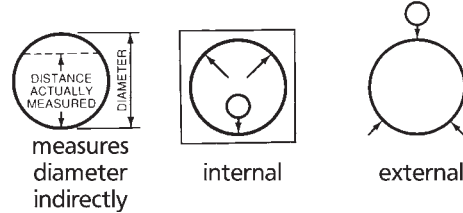
\* Selectable Resolution

## I.D./O.D. Indicator Gage 36 B for Internal and External Dimensions

### "T" Plates



### "V" Plates



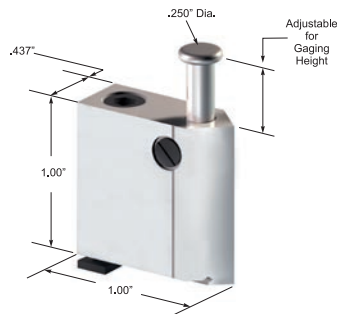
"T"-plates give a diameter reading directly across the diameter. A third contact may be used as a side-stop or centralizer.

"V"-plates are self-centralizing. Three jaws are used and the measurement is of the distance between the sensitive contact and the chord formed by the two reference contacts. This measurement bears a direct relationship to the diameter and compensation is made by a special ratio indicator so diameter is read directly.

Used to inspect parts with odd number lobing conditions.

### Jaw Sets

Model numbers on the preceding page include a set of **Model JW-9** Jaws. **Model JW-58** Jaws (tungsten carbide)



JW-9 Jaws (normally furnished)

Order no. (3 jaw set)	Adjustment Height	Material: Contact and Rest Surface	Replacement Contact Pins (3 required)
JW-9	0.79-19 mm / <b>.031-.75"</b>	Steel	PS-55
JW-58	0.79-18 mm / <b>.031-.72"</b>	Carbide	PS-226
2220461*	0.79-18 mm	Carbide	2225694

\* Normally furnished with Metric Version.

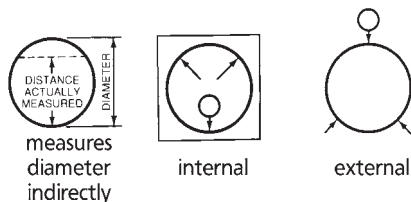
For special jaw configurations or for other indicators contact Mahr Federal Customer Resources Center.

### Maxum® III Indicator for "V"-Plate Models

Digital Range	Stem Length	Order no.
$\pm 1 \text{ mm} / \pm .040''$ or $\pm .199 \text{ mm} / \pm .020''$	17 mm / <b>.670"</b>	<b>2033145*</b>

EMD-36B-19D  
I.D./O.D. Gage

\* Maxum® III 4:5 ratio model includes Data Output (6 pin) and user selectable setup for range, resolution, units and measuring direction.



## I.D./O.D. Indicator Gage 36 B for Internal and External Dimensions

### Special Contacts: Steel

Special steel ball contacts can be made in a variety of different diameters for your measurement applications.



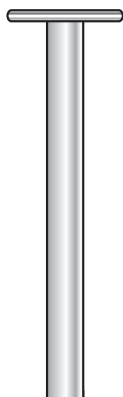
### Special Contacts: Tungsten Carbide

Side mounted Tungsten Carbide spherical contacts can be made for measuring internal and external gears and splines.



### Special Contacts: Doughnut

Specially designed Doughnut shaped contacts are used, as an example, in the bearing industry calling out for wider than normal contacts to reach into bearing raceways.



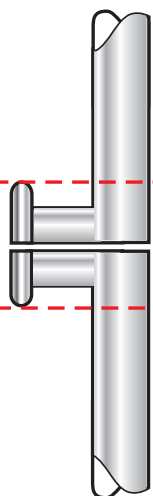
### Special Contacts: TC Ball

Spherical diameter tips are ideal for measuring inside or outside radial formed recesses of precision parts.

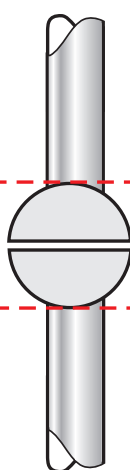


### Special Contacts: Pie Plate

Special jaws shaped like large half-discs, are used by the plastic industry to accurately measure semi-flexible round cups where reduced deflection is important.



Side View



Front View

### JW-9 w/TC Wear Pads

Specially designed jaws supplied with Tungsten Carbide wear surfaces provide extra long jaw life.

