

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 μm | 4337060 |
| $\mu\text{Max}\mu\text{m}$ | .5 μm | EDI-20302 |

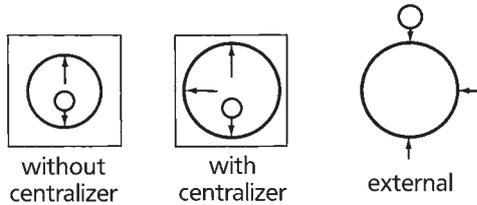
Technical Data

| Style | Capacity | | Order no. With 0.0001" Dial Indicator | Order no. With 0.002 mm Dial Indicator | Order no.* With Max μm ®/III | Order no.* With Max μm ®/III & Output | Order no.* With $\mu\text{Max}\mu\text{m}$ & 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

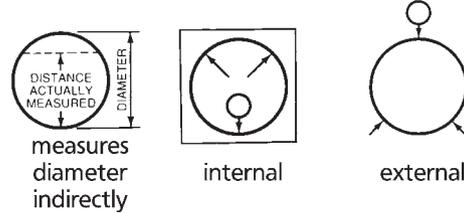
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"T" Plates



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

"V" Plates



"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 / .031-.75" | Steel | PS-55 |
| JW-58 | 0.79-18 mm / .031-.72" | Carbide | PS-226 |
| 2220461* | 0.79-18 mm | Carbide | 2225694 |

* Normally furnished with Metric Version.

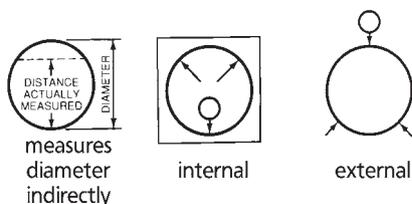
For special jaw configurations or for other indicators contact Mahr Federal Customer Resources Center.

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 / .670" | 2033145* |

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

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



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Special Contacts: Steel

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



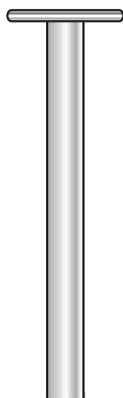
Special Contacts: Tungsten Carbide

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.



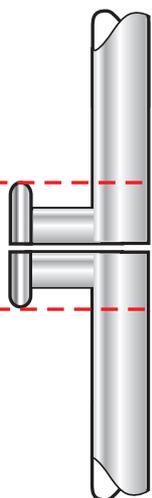
Special Contacts: TC Ball

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

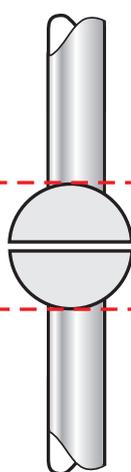


Special Contacts: Pie Plate

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.

