

Dial Indicators

Dial Indicators

Mitutoyo's dial indicators have long been used by many of our customers. In full recognition of their needs, we have devoted ourselves to the research and development necessary to produce high-quality and high-accuracy dial indicators. Due to the recent re-acknowledgement of the importance of measurement technologies, the demands on dial indicators are many and varied: installation in measuring jigs, mounting in countless types of precision equipment, etc. We offer numerous models with various types of dial faces, measuring ranges, graduation styles and environmental resistance ratings. The stems, which ensure the fixture reliability, and the spindles, which are the basis of accuracy, have excellent resistance against harsh use thanks to the hardened stainless steel construction. 0.01 mm resolution dial indicators have a main gear made of stainless steel with high resistance to wear and deformation. 0.001 mm graduation dial indicators employ a sector gear made of a special alloy in order to further increase the resistance to wear. Many models employ an O-ring to ensure airtightness between the outer frame and the bezel in order to prevent water or oil penetration from the front. Mitutoyo's dial indicators are manufactured and inspected according to JIS B 7503:2017. (Inspection orientation: vertical)

Important factors in choosing a dial indicator: the size (bezel diameter), resolution (graduation) and measuring range. Use the table on the right to help choose a suitable model for your application.

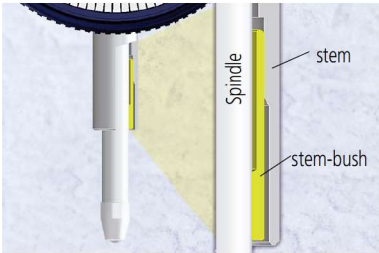
FEATURES: A Series (SERIES 2, 3, 4)



- No through screw-holes on the frame for high oil- and dust-resistance. The bezel clamp (optional) can be attached either to the right or left side.
- Improved Impact- and oil-resistant materials are employed in the bezel. Easier reading is due to the improved shape of the crystal face.



- The spindle lifting lever (optional: **21EZA198**) can be attached to either the right or left side providing high operability and smooth movement. This lever can be easily installed and removed.



- Revolutionary stem-bush design for trouble-free stem clamping (longer clamping range; maximum tightening torque at the clamping point with M5 screw: 150 N·cm).

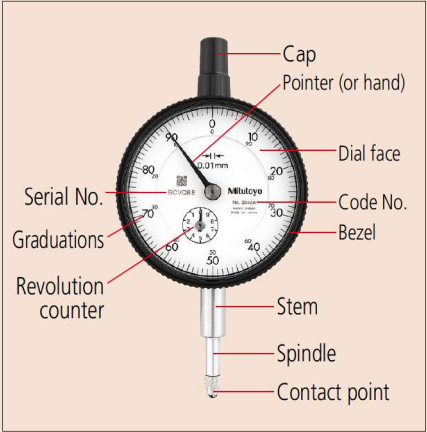


- Limit hand <optional> (1) can be moved without interfering with the bezel clamp <optional> (2).

- Application of anti-stain and anti-reflective coating improves scale visibility.

<Conventional model>

<New model>



Parts of a dial indicator

Feature icons

| Icon | Feature description  |
|------|--|
|      | Continuous scale   |
|      | Balanced scale   |
|      | Reverse reading type, Suitable for depth and step measurement. |
|      | One revolution type for easy and error-free reading            |
|      | Double scale spacing type, easy-on-the-eyes                    |
|      | Shockproof   |
|      | Waterproof (IP63)  |
|      | Waterproof (IP64)  |
|      | With damper at top rest point                                  |
|      | With damper at lowest rest point                               |
|      | Jeweled bearing  |
|      | Peak retaining   |
|      | Dustproof  |
|      | With coaxial revolution counter                                |
|      | Back Plunger   |
|      | Adjustable hand  |

Note: Mitutoyo produces ASME-compatible products. Contact us for details.