

## Announcement on Change of Accuracy Indication of Micrometers

Mitutoyo has changed the indication of accuracy of micrometers, tubular inside micrometers, micrometer heads, and three-point internal micrometers as shown below.

### 1. Description of changes

Change of indication of accuracy (to support MPE)

- Applicable models: Micrometers, tubular inside micrometers, micrometer heads, and three-point internal micrometers
- Reason for change: Changed to indication of accuracy (MPE \*1) conforming to JIS pursuant to the revision of applicable ISO

\*1 MPE = Maximum Permissible Error

- Details of change: Changed indication of accuracy
  - Accuracy  $\Rightarrow$  Maximum Permissible Error ( $J_{MPE}$ )
    - \*While the measuring method will not change, tolerance has changed for some models.
  - Deleted the expression, "Excluding quantizing error of  $\pm 1$  count" (digital models only)

### 2. Timing of change: From those shipped from the factory in July 2020 (change to be reflected starting with English version of General Catalog No. E2020)

\*Indication of accuracy has changed for products to which inspection certificate is attached.

### 3. Timing of change by inspection/calibration departments

[From the received order in July 2021, the inspection certificate is issued with the above accuracy description.](#)

[\(Updated on June 28, 2021\)](#)

Products whose tolerance will change (millimeter models)

Code No	(Before) Accuracy	(After) Maximum Permissible Error (JMPE)
293-142-30	±1 µm	±2 µm
293-147-30		
293-232-30		
293-242-30		
368-164	±2 µm (within 2 µm)	±3 µm (within 3 µm)
368-165		
368-764		
368-765		
368-171	±3 µm (within 3 µm)	±4 µm (within 4 µm)
368-172		
368-173		
368-771		
368-772		
368-773	±5 µm (within 5 µm)	±6 µm (within 6 µm)
368-178		
368-179		
368-180		
368-181		
368-778		
368-779		
368-780		
368-781	±2 µm (within 2 µm)	±3 µm (within 3 µm)
468-164		
468-165		
468-171	±3 µm (within 3 µm)	±4 µm (within 4 µm)
468-172		
468-173		
468-178	±5 µm (within 5 µm)	±6 µm (within 6 µm)
468-179		
468-180		
468-181		

Products whose tolerance will change (inch/millimeter models)

Code No	(Before) Accuracy	(After) Maximum Permissible Error (JMPE)
293-182-30	±0.00005 in	±0.0001 in
293-187-30		
293-332-30		
293-342-30		
368-264	±0.0001 in (within 0.0001 in)	±0.00015 in (within 0.00015 in)
368-265		
368-864		
368-865		
368-271	±0.00015 in (within 0.00015 in)	±0.0002 in (within 0.0002 in)
368-272		
368-273		
368-871		
368-872		
368-873	±0.00025 in (within 0.00025 in)	±0.0003 in (within 0.0003 in)
368-278		
368-279		
368-280		
368-281		
368-878		
368-879		
368-880	±0.0001 in (within 0.0001 in)	±0.00015 in (within 0.00015 in)
368-881		
468-264	±0.00015 in (within 0.00015 in)	±0.0002 in (within 0.0002 in)
468-265		
468-271		
468-272	±0.00025 in (within 0.00025 in)	±0.0003 in (within 0.0003 in)
468-273		
468-278		
468-279		
468-280	±0.0001 in (within 0.0001 in)	±0.00015 in (within 0.00015 in)
468-281		