

Announcement on Change of Accuracy Indication for Micrometers

Mitutoyo has changed the terms used to express the 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) to conform to the applicable ISO and JIS standards

*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 ± 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

Preparations are under way to change the indication.

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 (Maximum difference of 2 µm)	±3 µm (Maximum difference of 3 µm)
368-165		
368-764		
368-765		
368-171	±3 µm (Maximum difference of 3 µm)	±4 µm (Maximum difference of 4 µm)
368-172		
368-173		
368-771		
368-772		
368-773		
368-178	±5 µm (Maximum difference of 5 µm)	±6 µm (Maximum difference of 6 µm)
368-179		
368-180		
368-181		
368-778		
368-779		
368-780		
368-781		
468-164	±2 µm (Maximum difference of 2 µm)	±3 µm (Maximum difference of 3 µm)
468-165		
468-171	±3 µm (Maximum difference of 3 µm)	±4 µm (Maximum difference of 4 µm)
468-172		
468-173		
468-178	±5 µm (Maximum difference of 5 µm)	±6 µm (Maximum difference of 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 (Maximum difference of 0.0001 in)	±0.00015 in (Maximum difference of 0.00015 in)
368-265		
368-864		
368-865		
368-271	±0.00015 in (Maximum difference of 0.00015 in)	±0.0002 in (Maximum difference of 0.0002 in)
368-272		
368-273		
368-871		
368-872		
368-873		
368-278	±0.00025 in (Maximum difference of 0.00025 in)	±0.0003 in (Maximum difference of 0.0003 in)
368-279		
368-280		
368-281		
368-878		
368-879		
368-880		
368-881		
468-264	±0.0001 in (Maximum difference of 0.0001 in)	±0.00015 in (Maximum difference of 0.00015 in)
468-265		
468-271	±0.00015 in (Maximum difference of 0.00015 in)	±0.0002 in (Maximum difference of 0.0002 in)
468-272		
468-273		
468-278	±0.00025 in (Maximum difference of 0.00025 in)	±0.0003 in (Maximum difference of 0.0003 in)
468-279		
468-280		
468-281		