

# NEW PRODUCT INFORMATION

## MACH-3A 653

High-speed for manufacturing

### Features



- › The ideal replacement of your mechanical gauges!
- › Cost effective!
- › Designed for shopfloor conditions 5°C - 40°C
- › Touchscreen for easy operation
- › High-speed measurements:  $v_{\max.} = 1212 \text{ mm/s}$
- › Accuracy up to 2,5  $\mu\text{m}$
- › Ready for the automation process
- › Chose for the full range of Mitutoyo CMM products:  
styli, jigs, loading systems, index tables

**Mitutoyo**

## MACH-3A 653 specifications

Measuring range X. Y. Z	605 x 505 x 285 mm
Max. workpiece mass for index table	200 kg
Measuring table	stable steel construction
Device mass, including index table (option)	1500 kg
Max. travel speed	1212 mm/s
Max. acceleration	~ 12000 mm/s <sup>2</sup>
Length measurement deviation (TP7M) MPE <sub>E</sub> depending on ambient temperature	19 to 21°C: (2,5 + 3,5 x L/1000) µm; L in mm 5 to 35°C: (3,5 + 5,7 x L/1000) µm; L in mm
Sensing deviation MPE <sub>p</sub>	2.5 µm
Permissible temperature range	5° C – 40°C
Length measuring system resolution	0.0001 mm



**Mitutoyo offers you the full range of CMM products:  
probe systems, styli, jigs, loading systems, cabins, rotary tables.**

**Note:** All information about our products in this printed material, particularly the illustrations, drawings, measurement and performance specifications, as well as other technical specifications, are to be interpreted as approximate average values. In this respect, changes in construction, technical specification, measures and weights remain reserved. Our specified standards, similar technical regulations as well as the technical specifications, descriptions and illustrations of products are accurate on the date of printing. Furthermore, our general terms of business in the currently applicable revision are binding. Only the offers we make are definitive.

Coordinate Measuring Machines	▬
Vision Measuring Systems	▬
Form Measurement	▬
Optical Measuring	▬
Sensor Systems	▬
Test Equipment and Seismometers	▬
Digital Scale and DRO Systems	▬
Small Tool Instruments and Data Management	▬

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