

# MACH-3A 653

## Series 360 - In-line type CNC CMM

### Specifications

Digital step	0,1 µm
Accuracy <sup>(1)</sup>	$E_{0,MPE} : (2,5+0,35L/100)\mu\text{m} /$ $(2,8+0,42L/100)\mu\text{m} /$ $(3,2+0,5L/100)\mu\text{m} /$ $(3,5+0,7L/100)\mu\text{m} /$ $(3,9+0,65L/100)\mu\text{m}^{(2)}$ $P_{FTU,MPE} : 2,5 \mu\text{m}$
Scales	High accuracy linear encoder
Guide system	Linear guide
Max. drive speed	1212 mm/sec
Max. acceleration	1.2G

<sup>(1)</sup>The machine is equipped with a temperature compensation system, the effect of which is included in the accuracy specification according to ISO 10360-2 (2010) when using the TP7M probe system with a ø4x50 mm stylus. L= measured length (mm).

<sup>(2)</sup>Specified accuracy temperature range : 19°C - 21°C / 15°C - 25°C / 10°C - 30°C / 5°C - 35°C / 35°C - 40°C

### Accuracy is specified for the following environmental conditions for the CMM

Temperature range		5°C - 40°C
Temperature change	per hour	2.0 K
	per 24 hours	10.0 K
Temperature gradient	Vertical	1.0 K/m
	Horizontal	1.0 K/m

#### Safety System

For this type series, Mitutoyo offers a customized safety system. Depending on the local situation in your facility, Mitutoyo will propose a tailor-made solution meeting the requirements of the machinery directive.

#### Foundation

This type series always requires a special foundation. Please contact your local Mitutoyo partner for further details.



Model	MACH-3A 653
No.	360-412
Range X x Y x Z axis	605 x 505 x 285 mm