

Technical Specifications

Model			MACH 403	MACH 806
Measuring range	X	[mm]	460	1021
	Y	[mm]	460	818
	Z	[mm]	300	615
Length measuring accuracy DIN EN ISO 10360-2:2002 with TP7M	E	[μm, L in mm]	3.5 + 4 L / 1000 at 15° C - 25° C *1	
			5 + 5 L / 1000 at 10° C -35° C *1	
Resolution of length measuring systems		[mm]	0.0001	0.0001
Measuring speed		[mm/s]	1 - 30	
Drive speed		[mm/s]	max. 1800	
Max. acceleration		[mm/s ²]	9800 / 17000	9800 / 17000
Guidance			Linear guides	Air bearing
Total mass		[kg]	680	4200
Air consumption		[l/min] at [MPa]	170 / 0.3	200 / 0.4
Air source (min.)		[l/min] at [MPa]	200 / 0.4	300 / 0.5
Dimensions	Height	[mm]	1679	2370
	Width	[mm]	1705	2847
	Depth	[mm]	814	2666

*1: Temperature gradients: 2 K / h, 5 K / 24h; vertical 1 K / m, horizontal 1 K / m

Products of this series come equipped with a safety system for the detection of potential function-impairing vibration to the measuring system. Activation of the security system leads to a time-delayed system shut-off. Uninterrupted functioning of the measuring device may be secured with a timely release of the security system by Mitutoyo service personnel.