

Technical Specifications

			MACH V		
Measuring range	X axis	[mm]	505	905	
	Y axis		605	1005	
	Z axis		505	605	
Workpiece	max. Height	[mm]	750	800	
	max. Mass	[kg]	150	150	
Workpiece clamping	Number of threaded bores M8			25	
Length measuring accuracy DIN EN ISO 10360-2:2002 with TP7M / SP25M	MPE _E bei 19°C - 21°C *1		[μm, L in mm]	2.5 + 0.35 L / 100	
	MPE _E bei 18°C - 22°C *1			2.7 + 0.38 L/100	
	MPE _E bei 15°C - 25°C			2.9 + 0.43 L/100	
	MPE _E bei 5°C - 35°C			3.6 + 0.58 L/100	
Scanning- probing error DIN EN ISO 10360-4:2002 with SP25M		MPE _{THP} / MPT _t	[μm] / [s]	5 / 100	
Probing error DIN EN ISO 10360:2002 with	TP 7 M	MPE _P	[μm]	2.5	
	SP25M			2.2	
Resolution of length measuring systems			[mm]	0.0001	
Guidance			Linear Guides		
Measuring speed			[mm/s]	1 - 20	
Drive speed			[mm/s]	max. 866	
Drive speed	CNC mode	each axis / composite speed	[mm/s]	8 - 500 / max. 866	
	Joystick	fast		0 - 80	
		slow		0,05	
max. acceleration		each axis / composite speed	[mm/s ²]	4903 / 8434	
Measuring speed		CNC mode	[mm/s]	1 - 20	
Measuring stage		Material	[mm]	Steel	
		Dimensions		550 x 655	905 x 1055
Dimensions	Height		[mm]	2638	2862
	Width		[mm]	1024	1425
	Depth		[mm]	2189	2989
Total mass			[kg]	2200	4000

*1: Temperature gradients: 2 K / h; 10 K / 24h; 1 K / m horizontal und vertical

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.

Mitutoyo: Specificationen MACH V