

Crysta-apex C 500 - 700

Model			Crysta-apex C			
			544	574	776	7106
Measuring range	X axis	[mm]	505		705	
	Y axis		405	705	705	1005
	Z axis		405		605	
Workpiece	max. height	[mm]	545		800	
	max. mass	[kg]	180		800	1000
Workpiece clamping	Number of threaded bores M8		9	13	10	13
Length measuring accuracy DIN EN ISO 10360-2:2002	MPE _E 16°C - 26°C *1	TP200	[μm], L in [mm]	1.9 + 0.4 L/100		
		SP25M, MPP100, SP80		1.7 + 0.4 L/100		
	MPE _E 18°C - 22°C *2	TP200		1.9 + 0.3 L/100		
		SP25M, MPP100, SP80		1.7 + 0.3 L/100		
Probing error DIN EN ISO 10360-2:2002	MPE _P	TP200	[μm]	1.9		
		SP25M		1.7		
		MPP100		1.7		
Scanning probing error DIN EN ISO 10360-4:2002	MPE _{THP} / MPT _T	MPP100	[μm] / [s]	3.0 / 110		
		SP25M		2.3 / 110		
		SP80		-	2.0 / 110	
Resolution of length measuring systems		[mm]	0.0001			
Guidance			Air bearings on all axes			
Drive speed	CNC mode	each axis / composite speed	[mm/s]	8 - 300 / max. 520		
		Joystick		fast	0 - 80	
	slow			0.05		
Max. acceleration		each axis / composite speed	[mm/s ²]	1275 / 2255		
Measuring speed	CNC mode		[mm/s]	1 - 8		
Measuring stage	Material		Granite			
	Dimensions		[mm]	638 x 860	638 x 1160	880 x 1420
Air consumption	[l/min] at [MPa]		12,5 / 0.4		15 / 0.4	
Air source	[l/min] at [MPa]		25 / 0.5 - 0.8		30 / 0.5 - 0.8	
Dimensions	Width	[mm]	1082		1470	
	Depth	[mm]	1122	1458	1650	1950
	Height	[mm]	2185		2730	
Mass incl. stand and controller		[kg]	515	625	1675	1951

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

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

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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

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system by Mitutoyo service personnel.