

## Technical Specifications

				FALCIO-Apex			
				776	7106	9106	9166
Measuring range	X-axis	[mm]	705		905		
	Y-axis		705	1005	1005	1605	
	Z-axis		605				
Workpiece	max. height	[mm]	740				
	max. mass	[kg]	500	800	800	1200	
Workpiece clamping	Number of threaded bores M8		10	13	13	18	
Length measuring accuracy DIN EN ISO 10360-2:2002	MPE <sub>E</sub> at 18°C - 22°C *1	TP200	[μm]; L in [mm]	1,4 + 0,3 L/100		1,5 + 0,3 L/100	
		SP25M, MPP100		1,2 + 0,3 L/100		1,3 + 0,3 L/100	
Probing error DIN EN ISO 10360-2:2002	MPE <sub>P</sub>	TP200	[μm]	1,8			
		SP25M		1,6			
		MPP100		1,6			
Scanning probing error DIN EN ISO 10360-4:2002	MPE <sub>THP</sub> / MPT <sub>T</sub>	MPP100	[μm] / [s]	2,8 / 110			
Resolution of length measuring systems			[mm]	0,0001			
Guidance			Air bearings on all axes				
Vibration clamping			incorporated				
Drive speed	CNC mode	each axis / composite speed	[mm/s]	8 - 250 / max. 433			
	Joystick	fast		0 - 80			
		slow		0,05			
Max. acceleration		each axis / composite speed	[mm/s <sup>2</sup> ]	980 / 1667			
Measuring speed	CNC mode		[mm/s]	1 - 3			
Measuring stage	Material			Granite			
	Dimensions		[mm]	840 x 1320	840 x 1620	1040 x 1720	1040 x 2320
Air consumption	[l/min] at [MPa]			12,5 / 0,4			
Air source	[l/min] at [MPa]			25 / 0,5 - 0,8			
Dimensions	Width		[mm]	1587		1787	
	Depth		[mm]	1541	1841	1941	2681
	Height		[mm]	2715			
Mass incl. stand and controller			[kg]	1405	1635	1940	2960

\*1: Temperature gradients: 1 K / h, 2 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. Activations 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 by Mitutoyo service personell.