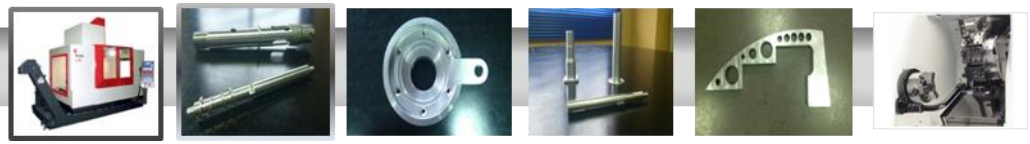
TECMAER S.L.
MECANIZADOS



MITUTOYO CRYSTA APEX S 547
MAQUINA DE MEDICIÓN 3D

Model No.		CRYSTA-Apex S 544	CRYSTA-Apex S 574
Measuring range	X axis	19.68"(500mm)	
	Y axis	15.74"(400mm)	27.55"(700mm)
	Z axis	15.75"(400mm)	
Resolution		0.000004" (0.0001mm)	
Guide method		Air bearings on each axis	
Drive speed		8-300mm/s (CNC mode), max. speed: 519mm/s 0 - 80mm/s (J/S Mode: High Speed) 0 - 3mm/s (J/S Mode: Low Speed) 0.05mm/s (J/S Mode: Fine Speed)	
Max. measuring speed		8mm/s	
Max. drive acceleration		2,309 mm/s^2 (3D)	
Workpiece	Maximum height	21.45"(545mm)	
	Maximum mass	396.8lb(180kg)	
Mass (including the control device and installation platform)		1,135lbs.(515kg)	1,377lbs.(625kg)
Air supply	Pressure	58 PSI (0.4MPa)	
	Consumption	1.76CFM (50L/min) under normal conditions	
	Air source	3.53CFM (100L/min)	

Model No.	CRYSTA-Apex S 544	CRYSTA-Apex S 574

CRYSTA-Apex S 500 Series Accuracy

unit: µm

Probe used	Maximum permissible error ($E_{0,MPE}$) ISO 10360-2:2009	Maximum permissible probing error ($P_{FTU,MPE}$) ISO 10360-5:2010
SP25M (Stylus: ø4 X 50mm)	1.7+3 L/1000 (temperature environment 1) 1.7+4 L/1000 (temperature environment 2)	1.7
TP200 (Stylus: ø4 X 10mm)	1.9+3 L/1000 (temperature environment 1) 1.9+4 L/1000 (temperature environment 2)	1.9
TP20 (Stylus: ø4 X 10mm)	2.2+3 L/1000 (temperature environment 1) 2.2+4 L/1000 (temperature environment 2)	2.2

* L = Selected measuring length (in mm). Table on opposite page describes temperature environments 1 and 2.

CRYSTA-Apex S 500 Series Accuracy ISO 10360-4

unit: µm

Probe used	Max. permissible scanning error (MPE_{THP})
SP25M (Stylus: ø4 X 50 mm)	2.3µm (50s)

CRYSTA-Apex S 500 Series Installation Temperature

		Temperature environment 1	Temperature environment 2
Limits within which accuracy is guaranteed	Temperature Range	20±2 °C (64.4-71.6 °F)	16 - 26 °C (60.8-78.8 °F)
	Rate of change	1 °C per hour or less 2 °C in 24 hours or less	1 °C per hour or less 5 °C in 24 hours or less
	Gradient	1 °C or less per meter	1 °C or less per meter