

Formtracer Extreme CS-5000CNC / CS-H5000CNC

Manufacturer Mitutoyo



Alpha-axis:	Installed
Range X-Axis:	8" / 200mm
Resolution X-Axis:	.2 μ m / .005 μ m
Measurement method (X-axis):	Laser HoloScale
X-axis Drive speed (software):	0 - 1.57 in/s / 0 - 40 mm/s
Measuring speed (Surface):	.00078 - .008in/s / .02 - .2mm/s
Measuring speed (Contour):	.0008 - .08in/s / .02 - 2mm/s
Measuring direction (Surface):	Forward/Backward
Alpha-axis resolution:	.000225°
Alpha-axis rotating speed:	1rpm
Column resolution:	1.97 μ m
Column Resolution:	.05 μ m
Z2-axis Measuring Method:	RT Linear encoder
Column Z2-axis drive speed (Software):	0 - 7.87in/s / 0 - 200mm/s
Z2-axis drive speed (manual joystick):	0 - 1.97in/s / 0 - 50mm/s
Detector Z-Resolution (Standard Stylus):	.47in / 12mm / .03 μ m / .008 μ m
Detector Z-Resolution (Using 2x Stylus):	.94in / 24mm / .06 μ m / .0016 μ m
Z1-axis Detecting method:	Laser holoScale
Measuring force (Standard stylus):	4mN
Measuring force (Using 2x stylus):	.75mN
Standard Stylus tip (Diamond, angle °/ tip radius μ m):	40/5 (Diamond, angle °/ tip radius μ m)
Stylus tip (Sapphire, tip radius mm) (Standard ball-tip):	.25(Sapphire, tip radius mm) (Standard ball-tip)
Stylus tip (Diamond, angle °/ tip radius μ m) (Using 2x stylus):	40/5(Diamond, angle °/ tip radius μ m)
Stylus tip (Sapphire, tip radius mm) (Using 2x ball-tip stylus):	.25(Sapphire, tip radius mm) (Using 2x ball-tip stylus)