

CT101 XYZ Stage



The CT101 XYZ stage was developed for a contract manufacturer that works with many medical device manufacturing companies. The specifications of having an XY with a Z axis all with 101mm of travel and high precision accuracy, repeatability, straightness, and flatness of travel made this XYZ well suited for their application. A key feature on this configuration is the NEMA23 motor mounts which allows the customer to select a motor that integrates well with their controller of choice.

Specifications		
	XY Axis	Z Axis
Travel	101mm x 101mm	101mm
Drive Type	0.100" Lead Screw	0.100" Lead Screw
Motor Mount	NEMA23	NEMA23
Encoder Resolution	0.1 μ m	0.1 μ m
Linear Accuracy	\pm 1.5 μ m/25mm	\pm 2.0 μ m/25mm
Bidirectional Repeatability	\pm 0.5 μ m	\pm 0.5 μ m
Flatness of Travel	\pm 1.0 μ m/100mm	\pm 1.0 μ m/100mm
Straightness of Travel	\pm 1.0 μ m/100mm	\pm 1.0 μ m/100mm
Orthogonality	\pm 5.0 arc-sec	NA