

Specifications TakTouch 1000 Rev 2

Axis Resolution

XYZ nominal* microstep resolution	3.125 μm (124 μin)
XYZ nominal* encoder feedback resolution	2 μm (78 μin)
A Axis microstep resolution	.00984°
A Axis encoder feedback resolution	.0252°

Acceleration and Speed

X and Y axis max acceleration	3000mm/sec ²
Z axis acceleration	3000mm/sec ²
X and Y axis max speed	300mm/sec
Z axis max speed	300mm/sec
A Axis max speed (limited by electrical slip ring)	250 RPM

Travel Range

XY travel range	530 x 530 mm
Z travel range	160 mm
Z axis clearance above table	163 mm

Repeatability/Movement Straightness

X and Y positioning repeatability	$\leq \pm .05\text{mm}$
X and Y movement straightness/jitter per 100mm	$\leq .025\text{mm}/100\text{mm}$
X and Y movement straightness/jitter per 500mm	$\leq .08 \text{ mm}/500\text{mm}$
Z axis perpendicularity to table	$\leq .2^\circ$
A axis perpendicularity to table	$\leq .2^\circ$

Programming Interface

G-code, C, C++, C#, VB, Java, Python, etc. or apps written for the .NET Framework e.g. LabVIEW

Tool Changer

Small tool positions available	7
Large tool positions available	up to 6