

SUGINO

SUPER! TECHNOLOGY

XION α-5AX VERTICAL

Compact. Highly Rigid.
High Speed and Accuracy.

Full 5 Axis Simultaneously Controlled Vertical Machining Center

Extremely compact design with a machine width of only 50 in. (1,260mm). This super-precision machining center has a wide machining area of 12" x 17" x 8" (300 x 430 x 200 mm) in XYZ. It is perfectly suited for precision and micro machining of impellers, turbine blades, lens molds, medical equipment and electronic parts.

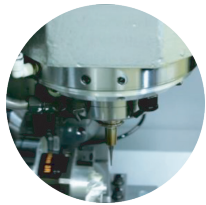
Space-Saving Design

Super compact machine with width of only 50 in. (1,260mm).



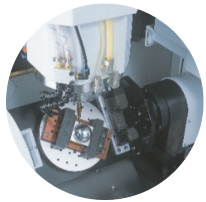
50 INCHES (1,260mm)

Features



High Speed Spindle

Built-in spindle motor with maximum rotation speed of 40,000 rpm. Best suited for high speed and high quality machining of fine free-form surfaces using small diameter tools.



High Speed, High Quality 5 axis Machining

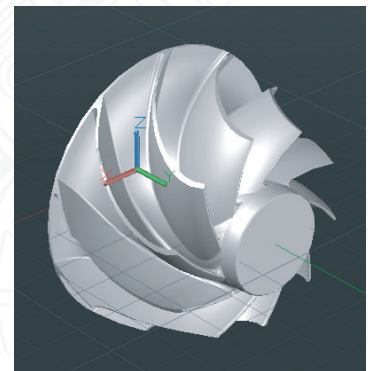
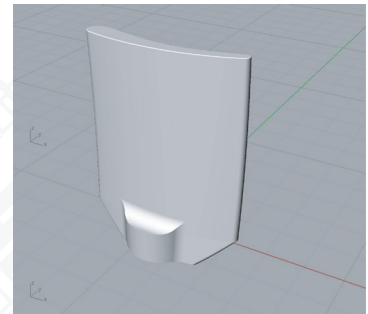
A direct drive motor is used for the Sugino designed A/C axis unit. The X / Y / Z axes achieve high accuracy using a fully-closed loop design and linear scales.



Operator Friendly

The Siemens 840Dsl control package expedites and simplifies the complicated pre-machining process and final operation of the actual 5 axis machining program.

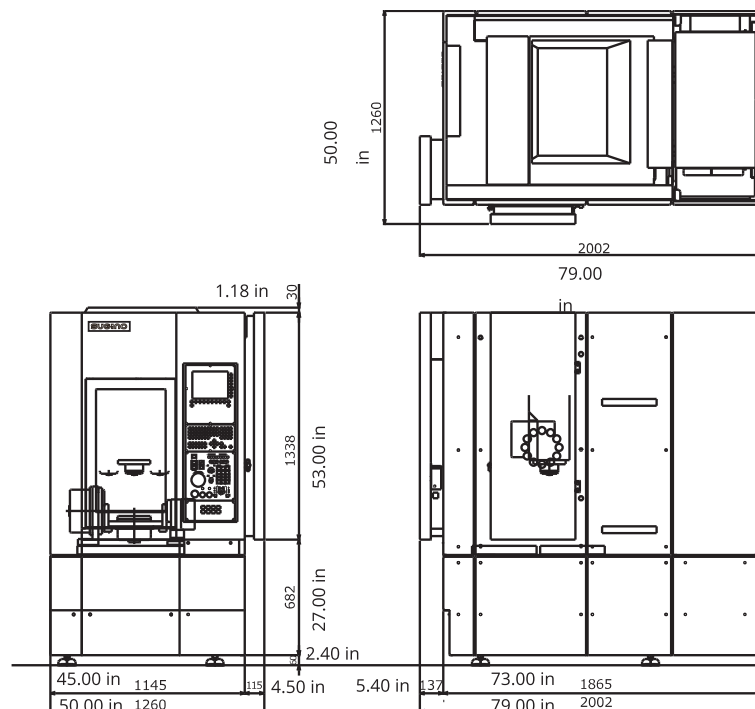
If you are **3D printing parts**, the Xion α-5AX is the **IDEAL** machining center for finish machining.



Specifications

Model	XION α-5AX
Type	Vertical 5 Axis Simultaneous Control
Spindle taper	HSK-E32
Number of tools	13 (Option: 21)
Stroke	12.00 x 17.00 x 8.00 in. in XYZ (300 x 430 x 200mm in XYZ) A/B-axis ±120° C-axis 360°
Rotation speed	40,000 rpm
Repeatability	±1 μm
Feed	709 in./min. (18m/min)
Torque	3.69 ft. lbs. (5N·m) (Rated)
Machine Size	50 in. x 79 in. x 83 in. (W 1,260 × D 2,000 × H 2,100 mm)
Machine Weight	6614 lbs. (3,000kg)
Power	400V, 20 k VA

Dimensional Drawings



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Ota City, Japan (Nihon Jig Co., Ltd)
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