

GENOS M560V-5AX

5-Axis Vertical Machining Center

**Improve productivity in process-intensive machining.
A 5-axis VMC that delivers both stable machining accuracy and decarbonization while providing a large work envelope in a small footprint.**

Large machining area in a compact footprint

- ø500 mm (ø19.69 in) table and wide axis travels
  Max workpiece: ø700 × h500 mm (ø27.56 × h19.69 in)
  Axis travels X: 1,050 (41.34), Y: 560 (22.05), Z: 460 (18.11) mm (in)

User-friendly machine design reduces operator burden

- The table is designed with the trunnion parallel to the front of the machine, for easier access toward the table and good visibility during machining

Built-in energy-savings features

- Equipped as standard with energy-saving technology that applies Okuma's Thermo-Friendly Concept, achieving both stable high-accuracy machining and reduced carbon dioxide emissions

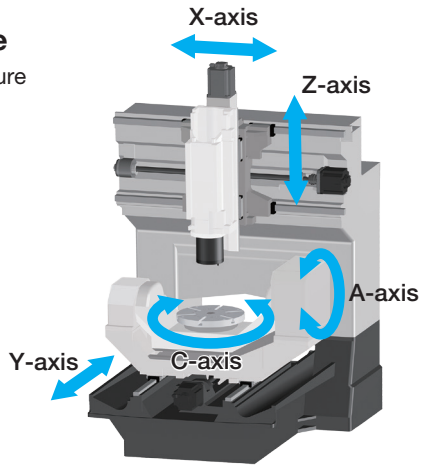
OPEN POSSIBILITIES

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Designed for high-mix and high-volume applications!

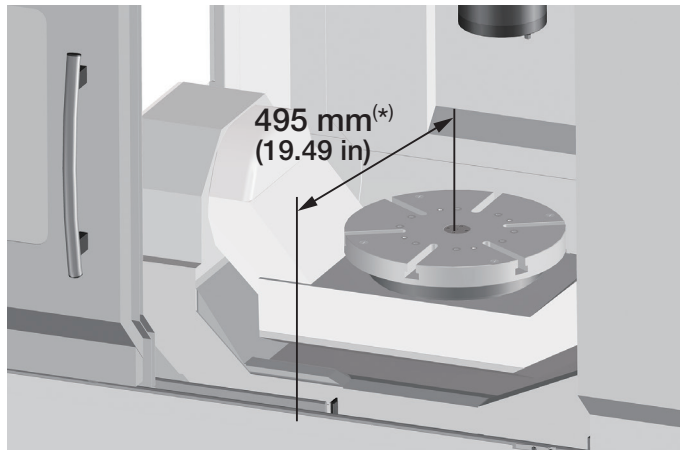
Machine structure

- Same Rigid column structure as used in our proven double-column machining centers



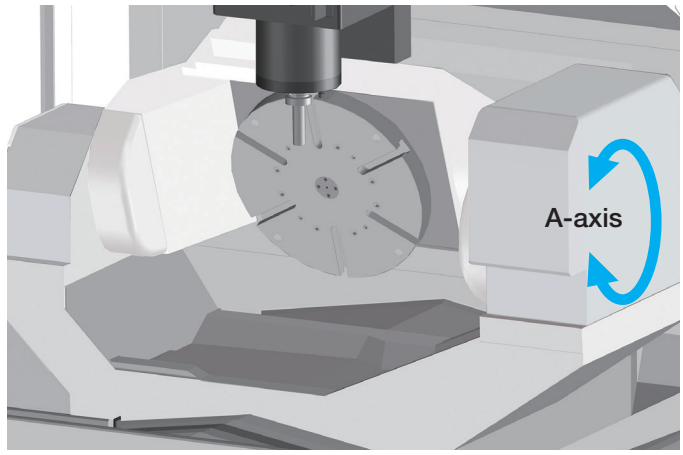
Easy operation

- Excellent table accessibility



* Front cover to table center distance (Y-axis + end)

- Excellent visibility while machining

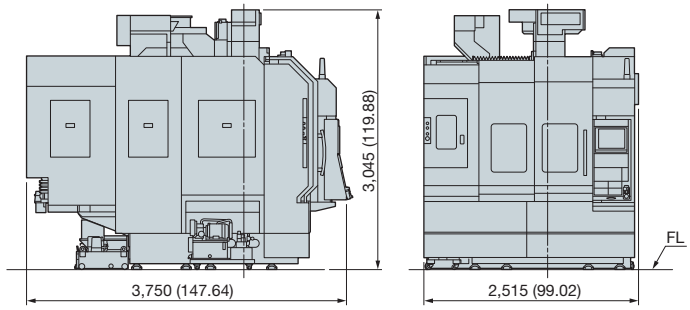


A-axis +20 to -110 deg

Machine specifications

	Item	Unit	GENOS M560V-5AX
Travel	X-axis	mm (in)	1,050 (41.34)
	Y-axis	mm (in)	560 (22.05)
	Z-axis	mm (in)	460 (18.11)
	A-axis	deg	+20 to -110
	C-axis	deg	360
	Table surface to spindle nose	mm (in)	160 to 620 (6.30 to 24.41)
Table	Table size	mm (in)	ø500 (ø19.69)
	Max workpiece dimensions	mm (in)	ø700 x h500 (ø27.56 x h19.69)
	Floor to table top	mm (in)	1,090 (42.91)
	Max load capacity	kg (lb)	400 (880)
Spindle	Spindle speed	min^{-1}	15,000
	No. of spindle range		Infinitely variable
	Tapered bore		7/24 taper No. 40
	Bearing dia	mm (in)	ø70 (ø2.76)
Feed rate	Rapid traverse	m/min (ipm)	X, Y: 40 (1,575) Z: 32 (1,260)
	Rapid traverse (A, C)	deg/min	A: 14,400 C: 18,000
	Cutting feed rate	mm/min (ipm)	X, Y, Z: 32,000 (1,260)
Motor	Spindle (10 min/cont)	kW (hp)	22/18.5 (30/25)
	Feed axes	kW (hp)	X, Y, Z: 3.5 (4.7) A: 4.2 (5.6) C: 3.0 (4.0)
ATC	Tool shank		CAT40 BIG-PLUS®
	Pull stud		CAT40U
	Tool capacity	tools	60
	Max tool dia (w/ adjacent tool)	mm (in)	ø90 (ø3.54)
	Max tool dia (w/o adjacent tool)	mm (in)	ø125 (ø4.92)
	Max tool length	mm (in)	300 (11.81)
	Max tool mass	kg (lb)	8 (18)
	Max tool moment	N-m (ft-lbf)	7.8 <8 kg × 100 mm> (5.7 <17.6 lb × 3.94 in>)
	Tool selection		Memory random
Machine size	Height	mm (in)	3,045 (119.88)
	Floor space W × D	mm (in)	2,515 × 3,750 (99.02 × 147.64)
	Mass	kg (lb)	10,300 (22,660)
Controller			OSP-P300MA-H

Dimensional drawings



Unit: mm (in)

When using Okuma products, always read the safety precautions mentioned in the instruction manual and attached to the product.

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This product is subject to the Japanese government Foreign Exchange and Foreign Trade Control Act with regard to security controlled items; whereby Okuma Corporation should be notified prior to its shipment to another country.

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