

►► **Built for a Lifetime**

► **Mach One GT Series**



The Mach One GT Series of CNC routers from Komo Machine has been developed specifically for the cost-conscious yet demanding customer who expects the utmost in technical quality and reliability. These machines feature a moving gantry configuration with table sizes available up to 24' (7316mm) in the X axis.

Features

- ◆ Four-pole, 16HP (12kw), 24,000 RPM, HSK 63F, fan-cooled spindle
- ◆ 12 position automatic tool changer with aggregate capability
- ◆ Air blast for optimal dust/chip evacuation and cooling of the cutting tool
- ◆ Dual helical rack drive on X/U axes with synchronous axis control
- ◆ Tool touch-off device with automatic tool data uploading
- ◆ Fanuc Panel i control with HVI servo system and integrated PC
- ◆ Universal grid fixture table available in composite (standard) or aluminum (option)
- ◆ Pressurized automatic centralized lubrication system
- ◆ KOMO Production Manager and Machine Monitoring software
- ◆ 19" touch screen display

Construction

- ◆ FEA "Finite Element Analysis" engineered structure
- ◆ Heavy-duty steel fabrication
- ◆ Closed-loop counterbalance system minimizes plant air consumption

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Mach One GT Series - Technical Data

Spindle

Quantity	One (1)
Type	16HP (12kw), four-pole, fan cooled
RPM	Up to 24,000, fully programmable
Taper	HSK 63F

Table

510	60" x 120" (1524mm x 3048mm)
512	60" x 144" (1524mm x 3658mm)
524	60" x 288" (1524mm x 7316mm)
	Four (4) 1" (25mm) part location pins

Aggregate-Capable Tool Changer

Max Quantity	12 tools
Max Diameter	3.25" (82mm) positions full; 6.5" (165mm) adjacent positions empty
Max Weight	12 lbs each / 80 lbs total (5.4kg / 36.4kg)
Max Length	5" (127mm)

Feed Rate/Traverse

X Axis	2100ipm (53.5mpm)
Y Axis	2300ipm (58.5mpm)
Z Axis	1200ipm (30.5mpm)
Acc/Dec	83.3 in/sec ²

Axis Travel

510	131" (3327mm) x 86" (2184mm) x 10" (254mm)
512	155" (3937mm) x 86" (2184mm) x 10" (254mm)
524	299" (7595mm) x 86" (2184mm) x 10" (254mm)

Positioning

Accuracy	±0.0008" (0.02mm) unidirectional linear axis positioning, per meter
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Control System

Fanuc Panel i	With integrated PC and 19" touch screen display
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Dust Collection

Interface	6" (152mm) diameter (recommended volume 900 cfm)
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Vacuum System

With low vacuum sensing interface

Options

Tooling Package	Tool holders, collets, bench top tool changing block, wrench
Vacuum Pumps	Started via pushbutton on main operator panel, with remote start relay
Boring Blocks	Available in a variety of configurations, from nine to 25 spindles
Part Labeling	Print labels directly onto parts prior to machining
Safety Equipment	Laser scanners, light curtains, pressure mats
Material Handling	Automated to remove parts, clean the spoil board and load material in one pass
Dual Screen	Additional 19" screen attached to the HMI
Mist Coolant	For cutting non-ferrous metals
C Axis	Allows use of aggregate tooling, for four axis machining capability