

► **Built for a *Lifetime***

► **Flex 512TG**



Shown with KOMO Material Management System options.



The Flex Series of CNC routers from Komo Machine has been developed specifically for the customer who expects the utmost in technical quality and reliability at an economical price. These machines feature a moving gantry configuration and a side-mounted tool changer.

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
- ◆ Advanced Fanuc HVI servo system tuned for optimum acceleration and deceleration
- ◆ Tool touch-off device with automatic tool data uploading
- ◆ Fanuc Panel i control with 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" color display

Construction

- ◆ FEA "Finite Element Analysis" engineered structure
- ◆ Heavy-duty steel fabrication

KOMO

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Flex 512TG - Technical Data

Spindle

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

Table

512	60" x 144" (1524mm x 3658mm) Four (4) 1" (25mm) part location pins
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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	2500ipm (63.5mpm)
Y Axis	2500ipm (63.5mpm)
Z Axis	1200ipm (30.5mpm)
Acc/Dec	83.3 in/sec ²

Axis Travel

512	149" (3784mm) x 82" (2082mm) x 8.5" (215mm)
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Positioning

Accuracy	±0.0008" (0.02mm) linear axis repeatability
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Control System

Fanuc Panel i	With integrated PC and 19" color 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 20 spindles
Aggregates	Aggregate park station for large tools
Safety Equipment	Light curtains, pressure mats
Material Management	Part labeler, material loader, material unloader with spoil board cleaning, offload conveyor
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
Table	Aluminum universal grid, air supply for table fixtures