

►► **Built for a Lifetime**

► Fusion XL Series



The Fusion XL Series of CNC routers from Komo Machine has been developed specifically for the customer who requires a machine with more flexibility, a larger tool changer and more Z travel than an Xtreme XL. These machines feature a moving table configuration and a spindle-mounted tool changer for faster chip-to-chip time.

Features

- ◆ Four-pole, 18HP (13.2kw), 24,000 RPM, HSK 63F, fan-cooled spindle (standard; other spindle options available)
- ◆ 15 position automatic tool changer with aggregate capability (optional additional 15 position tool changer available)
- ◆ 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" 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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Fusion XL Series - Technical Data

Spindle

Quantity	One (1) standard, two (2) optional
Type	18HP (13.2kw), four-pole, fan cooled (standard)
RPM	Up to 24,000, fully programmable
Taper	HSK 63F

Table

508	60" x 96" (1524mm x 2438mm)
510	60" x 120" (1524mm x 3048mm)
512	60" x 144" (1524mm x 3658mm)
	Four (4) 1" (25mm) part location pins

Aggregate-Capable Tool Changer

Max Quantity	15 tools
Max Diameter	3.25" (82mm) positions full; 6.5" (165mm) adjacent positions empty
Max Weight	12 lbs each / 96 lbs total (5.4kg / 43.5kg)
Max Length	5" (127mm)

Feed Rate/Traverse

X Axis	3150ipm (80mpm)
Y Axis	3150ipm (80mpm)
Z Axis	900ipm (22.7mpm)
Acc/Dec	205 in/sec ²

Axis Travel

508	111" (2820mm) x 86" (2184mm) x 12" (305mm)
510	144" (3658mm) x 86" (2184mm) x 12" (305mm)
512	168" (4267mm) x 86" (2184mm) x 12" (305mm)

Positioning

Accuracy	±0.0008" (0.02mm) linear axis repeatability
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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) dia (1 spindle) recommended volume 900 cfm per spindle
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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	Automatic material handling system, out feed conveyor, material handling tables
Dual Screen	Additional 19" screen attached to the HMI
Metal Cutting	Mist coolant, dust/chip enclosure for cutting non-ferrous metals
C Axis	Allows use of aggregate tooling, for four axis machining capability
Table	Aluminum universal grid, integrated pop-up roller balls, roller hold down
Spindles	Multiple spindles, programmable head spacing and/or shroud height, head locks