

►► **Built for a Lifetime**

► **Xtreme 5 Axis Series**



The Xtreme 5 Axis Series of CNC routers from Komo Machine has been developed specifically for the customer who requires more machining flexibility and more Z travel than an Xtreme XL. These machines feature a moving table configuration and 24" of Z travel (standard; 36" optional).

Features

- ◆ Four-pole, 11.7HP (8.7kw), 20,000 RPM, HSK 63F, liquid-cooled spindle
- ◆ 12 position automatic tool changer
- ◆ Advanced Fanuc HVI servo system tuned for optimum acceleration and deceleration
- ◆ 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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Xtreme 5 Axis Series - Technical Data

Spindle

Quantity	One (1)
Type	11.7HP (8.7kw), four-pole, liquid cooled
RPM	Up to 20,000, fully programmable
Taper	HSK 63F

Table

510	60" x 120" (1524mm x 3048mm)
512	60" x 144" (1524mm x 3658mm)

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	3150ipm (80mpm)
Y Axis	2300ipm (58.5mpm)
Z Axis	1200ipm (30.5mpm)
Acc/Dec	150 in/sec ²
A & C Axes	74.4°/sec

Axis Travel

510	144" (3658mm) x 84" (2134mm) x 24" (610mm) standard
512	168" (4267mm) x 84" (2134mm) x 24" (610mm) standard

Positioning

Accuracy	±0.0008" (0.02mm) linear axis repeatability Rotary axis positioning = 60 arc seconds Rotary axis repeatability = 30 arc seconds
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Control System

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

Tooling Package	Tool holders, collets, bench top tool changing block, wrench
Vacuum System	With low vacuum sensing interface
Vacuum Pumps	Started via pushbutton on main operator panel, with remote start relay
Part Labeling	Print labels directly onto parts prior to machining
Safety Equipment	Laser scanners, light curtains, pressure mats
Material Handling	Material handling tables
Dual Screen	Additional 19" screen attached to the HMI
Mist Coolant	For cutting non-ferrous metals
C Distributor	Rotary distributor allows the C axis to rotate continuously without unwinding
Table	Aluminum universal grid, integrated pop-up roller balls, threaded inserts, custom