Built for a Lifetime

Fusion **5** Axis **S**eries



The Fusion 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 a Fusion XL. These machines feature a moving table configuration and a choice of 36" or 48" Z travel.

Features

- Four-pole, 20HP (15kw), 22,000 RPM, HSK 63F, liquid-cooled spindle (standard; other spindle options available)
- 15 position automatic tool changer (optional additional 15 position tool changer shown)
- ♦ 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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Fusion 5 Axis Series - Technical Data

Spindle

Quantity One (1) standard

20HP (15kw), four-pole, liquid cooled (standard) Up to 22,000, fully programmable Type

RPM

HSK 63F **Taper**

Table

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

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 11" (280mm)

Feed Rate/Traverse

X Axis 3150ipm (80mpm) Y Axis 3150ipm (80mpm) Z Axis 735ipm (18.7mpm)

A and C Axes 82.5°/sec 205 in/sec² Acc/Dec

Axis Travel

144" (3658mm) x 95" (2413mm) x 36" (914mm) 168" (4267mm) x 95" (2413mm) x 36" (914mm) 512

Z Axis travel available in 48" (1220mm)

A Axis ±120° C Axis ±213°

Positioning

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

20 arc seconds A and C axes unidirectional repeatability

Control System

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

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

A and C Encoders Rotary encoders increase the repeatability tolerance of the A and C axes

A and C Brakes Hydraulic brakes add rigidity to indexing operations

C Distributor Rotary distributor allows the C axis to rotate continuously without unwinding

Print labels directly onto parts prior to machining Part Labeling

Safety Equipment Laser scanners, light curtains, pressure mats Additional 19" screen attached to the HMI **Dual Screen**

Metal Cutting Mist coolant, dust/chip enclosure for cutting non-ferrous metals

Table Aluminum universal grid, threaded inserts, custom options