

AMS 740V-PRO: Machine Overview

Expanded Machine Travels – 29.5" x
16.7" x 18.5"

Standard with 35.4" x 15.7" Oversized
Table

Full Machine Enclosure with Lift Up
Chip Conveyor – CTS Prep.

12,000 RPM High Speed Spindle

Lift Up Style Scraper Type Chip
Conveyor Standard

FANUC OiMF CNC Control - AICCL with
400 Block Look Ahead Fine Mold
Control Package

Thirty (30) Pocket Automatic Tool
Changer – With Rear Load Door Access

Tool Life Management System with
Rear Tool Load Access Panel

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a **JTEKT** Strategic Alliance Company



Machine Envelope and Travels

Table Cross Travel (X Axis)	29.5" (750 mm)
Spindle Head Vertical Travel (Y Axis)	16.7" (425 mm)
Work Table Travel (Z Axis)	18.5" (470 mm)
Spindle Nose to Top of Pallet	4.7" (120 mm)
Rapid Traverses (X, Y and Z Axes)	1417 ipm (36 M / min)

Machine Pallet

Table Size	35.4" x 15.7" (900 x 400 mm)
Maximum Work Load on the Pallet	1,100 lbs. (500 kg)
Pallet Height from Floor	33.6" (855 mm)

Spindle Specifications

Spindle Speed	50 ~ 12,000 RPM
Spindle Drive Motor	15 HP

Tooling and Magazine

Spindle Nose Taper	CAT 40
Type of Stored Tool	CAT #40 V-Flange / Pullstud: MAS Type I P40T
Standard Tool Storage Capacity	Thirty (30)
Maximum Tool Size (Diameter x Length)	(Diameter x Length) ϕ 2.95" x 9.84" (ϕ 75 x 250 mm)
Maximum Tool Weight	17.6 lbs. (8 kg)
Tool Selection	Random

Machine Dimensions and Requirements

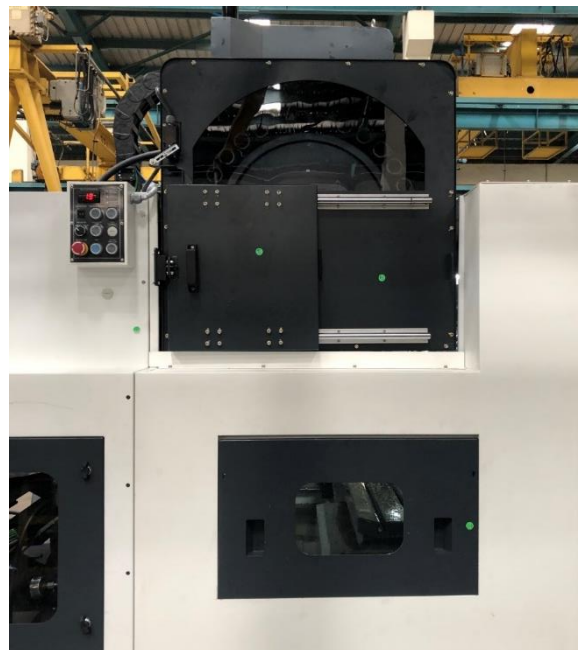
Power Capacity (208V)	15 kVA
Coolant Tank Capacity	47.5 Gallon
Standard Floor Space	Refer to Layout
Standard Net Weight	8,400 lbs. (3,800 kg)

Machine Standard Package

12,000 RPM –Direct Drive Spindle	STD
Coolant Through Spindle Prep	STD
FANUC OiMF+ Control w/ 10.4" Screen	STD
30 Tool Magazine w/ Rear Load Access	STD
Full Machine Enclosure	STD
AICCL with 400 Block Look Ahead	STD
CE Specification	STD
Chip Flush System on Machine Base	STD
Tool Life Management	STD
Flood Coolant Around Spindle	STD
Coolant Gun at Operator Door	STD
Lift Up Conveyor	STD



Machine Package





Fanuc OiMF+ Control Package
10.4" LCD
Absolute / Increment Command
Addition of Custom Macro Common Variables
Addition of Workpiece Coordinate System
AI Nano CC
Alarm Display
Alarm History Display
Automatic Corner Override
Automatic Power Off
Background Editing
Backlash Compensation
Canned Cycles
Canned Cycles for Drilling
Circular Interpolation
Conical / Spiral Interpolation
Controllable Axes
Coordinate System Rotation
Custom Macro B
Cutting Feedrate Command
Cutting Feedrate Override
Cylindrical Interpolation
Decimal Point Programming / Pocket Calc Type Decimal Point Programming
Dry Run
Dwell
Emergency Stop
Ethernet Interface (RJ45)
Exact Stop
Exact Stop Mode
Extend Program Edit
FANUC Semi-Operator Panel
Feedrate Speed Setting
G Code Program Mirror Function
Graphic Display
Handle Interruption
Handle Wheel Feedrate
Handle Wheel Override
Helical Interpolation
HRV3 Control
Interpolation
Interpolation Pitch Error Compensation
Least Programmable Increment
Limit Check Before Movement
Linear Acceleration/Deceleration after Cutting Feed
Linear Interpolation
Machine Lock
Manual Reference Position Return

Metric / Inches Conversion
MST Function
Operation History Display
Operator Message History Display
Optional Chamfering / Corner R
Optional Single Block Skip
PC MCIA Memory Card Slot
Plane Selection
Playback
Polar Coordinate Command
Program Number Display
Program Restart
Program Single Block Number
Program Start / Movement Hold
Program Stop / Program End
Program Storage
Programmable Data Input
Rapid Movement Percentage
Rapid Positioning
Rapid Traverse Bell-Shaped Acceleration / Deceleration
Registered Program Number
Remote Diagnostic
Rigid Tapping
RS232 Interface
Run Hour and Parts Count Display
Scaling
Simultaneous Axes
Single Block
Single Direction Positioning
Soft Limit Setting
Spindle Positioning
Spindle Speed Override
Sub-Program Call
Tool Offset
Tool Offset Memory C
Tool Offset Value Counter Input
Tool Positioning Offset
Tool Radius Compensation C
Workpiece Coordinate System
Z Axis Lock