

[ Special Series ]

# Haas UMC-750

## The Universal Machining Center



Standard side-mount  
tool changer, 40+1 tools

ISO standard G-code  
programming through  
the user-friendly,  
full-function  
Haas CNC control



630 x 500 mm dual-axis  
trunnion table

8100-rpm 40-taper  
inline direct-drive spindle

Warranty: 1 Year Parts and Labor

### [ Standard Features ]

- 8100-rpm Inline Direct-Drive 40-Taper Spindle
- 30 hp Vector Drive
- 630 x 500 mm Dual-Axis Trunnion Table
- Five-Axis Control
- Dynamic Work Offsets
- Tool Center Point Control
- 40+1 Side-Mount Tool Changer
- Wireless Intuitive Probing System
- Spindle Orientation
- User-Definable Macros
- Coordinate Rotation & Scaling
- User-Defined Second Home Position

- Power Failure Detection Module
- 750 MB+ Expanded Program Memory
- 15" Color LCD Monitor w/USB Port
- Rigid Tapping
- Made in the USA

### [ Options ] partial list

- 12,000-rpm Inline Direct-Drive Spindle, 30 hp
- Belt-Type Chip Conveyor
- High-Speed Machining w/Look-Ahead
- Through-Spindle Coolant Systems
- Programmable Coolant Nozzle
- Ethernet Interface



Haas Automation, Inc. | [www.HaasCNC.com](http://www.HaasCNC.com) | 800-331-6746 | Made in U.S.A.

Specifications subject to change without notice. Not responsible for typographical errors. Machine shown with optional equipment. Product appearance may differ.

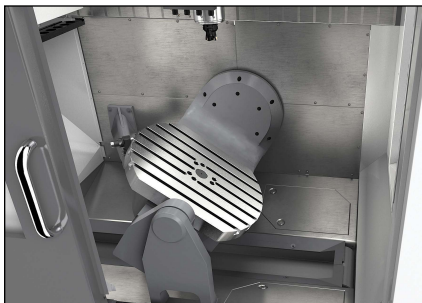


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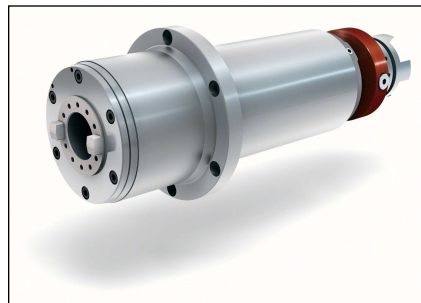
## The Universal Machining Center

The UMC-750 is a 5-axis 40-taper vertical machining center with 30" x 20" x 20" travels and an integrated dual-axis trunnion table. The machine is equipped with a powerful 8100-rpm inline direct-drive spindle driven by a 30-horsepower vector drive system, and comes standard with a 40+1 tool side-mount tool changer.

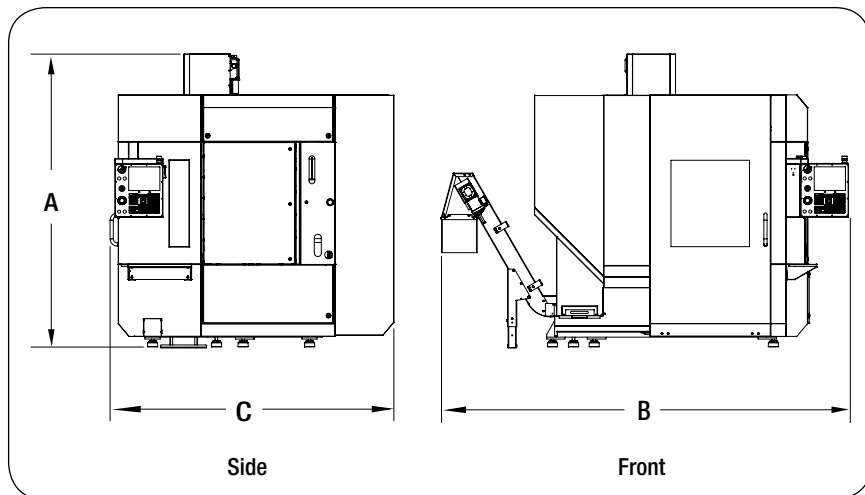
The UMC-750's 630 x 500 mm trunnion table features standard T-slots, as well as a precision pilot bore, for fixturing versatility. The trunnion provides +110 and -35 degrees of tilt and 360 degrees of rotation to provide excellent tool clearance and large part capacity.



The UMC-750's integrated dual-axis trunnion table can position parts to nearly any angle for 5-sided (3+2) machining, or provide full simultaneous 5-axis motion for contouring and complex machining.



The UMC-750 comes standard with an inline direct-drive spindle that spins to 8100-rpm. For high-speed work, a 12,000-rpm inline direct-drive spindle is available.



Operating Dimensions	UMC-750	
A. Max Operating Height	120"	3 048 mm
B. Max Operating Width	162"	4 115 mm
C. Max Operating Depth	113"	2 870 mm

### [ Specifications ]

Travels	
X	30" 762 mm
Y	20" 508 mm
Z	20" 508 mm

Trunnion	
Table Size	24.8" x 19.7" 630 x 500 mm
Capacity	660 lb 300 kg
Number of T Slots	7
T-Slot Width	5/8" 16 mm
T-Slot Center Distance	2.48" 63 mm

B Axis – Tilt	
Travels	+110°, -35°
Max Speed	50°/sec
Max Torque	400 ft-lb 542 Nm
Brake Torque	1800 ft-lb 2 440 Nm

C Axis – Rotation	
Travels	360°
Max Speed	50°/sec
Max Torque	300 ft-lb 407 Nm
Brake Torque	500 ft-lb 678 Nm

Spindle	
Speed	8100 rpm (12,000 rpm opt)
Drive System	Inline Direct-Drive
Max Torque	90 ft-lb @ 2000 rpm 122 Nm @ 2 000 rpm
Max Rating	30 hp 22.4 kW

Feedrates (linear)	
Rapids X	1200 ipm 30.5 m/min
Rapids Y	1200 ipm 30.5 m/min
Rapids Z	1200 ipm 30.5 m/min
Max Cutting	650 ipm 16.5 m/min

Tool Changer	
Capacity	40+1 SMTC
Tool Type/Taper	CT or BT 40

General	
Coolant Capacity	75 gal 284 L
Power Required (min)	195-260 VAC 3-phase 50-60 Hz
Air Required	4 scfm @ 100 psi 113 Lpm @ 6.9 bar



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