

[Special Series]

Haas UMC-750SS



High-Speed Universal Machining Center

High-speed side-mount
tool changer, 40+1 tools

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



150 deg/sec dual-axis trunnion
table with 630 x 500 mm platter

15,000-rpm 40-taper
inline direct-drive spindle

Warranty: 1 Year Parts and Labor

[Standard Features]

- 15,000-rpm Inline Direct-Drive 40-Taper Spindle
- 30 hp Vector Drive
- 630 x 500 mm T-Slot Platter
- High-Speed Roller-Cam Trunnion Table, 150°/sec
- High-Speed 40+1 Side-Mount Tool Changer
- 1200 ipm Rapids
- Full 5-Axis Control
- High-Speed Machining w/Look-Ahead
- Dynamic Work Offsets
- Tool Center Point Control
- Wireless Intuitive Probing System
- Spindle Orientation

- User-Definable Macros
- Coordinate Rotation & Scaling
- User-Defined Second Home Position
- Power-Failure Detection Module
- 1 GB Expanded Program Memory
- 15" Color LCD Monitor w/USB Port
- Ethernet Interface
- Rigid Tapping
- Made in the USA

[Options] partial list

- Belt-Type Chip Conveyor
- Through-Spindle Coolant Systems
- Programmable Coolant Nozzle



Haas Automation, Inc. | 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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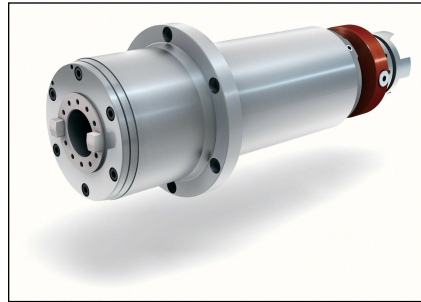
High-Speed Universal Machining Center

The UMC-750SS is a 5-axis 40-taper vertical machining center with 30" x 20" x 20" travels and an integrated high-speed trunnion table. The machine is equipped with a powerful 15,000-rpm inline direct-drive spindle driven by a 30-horsepower vector drive system, and comes standard with a high-speed 40+1 tool side-mount tool changer.

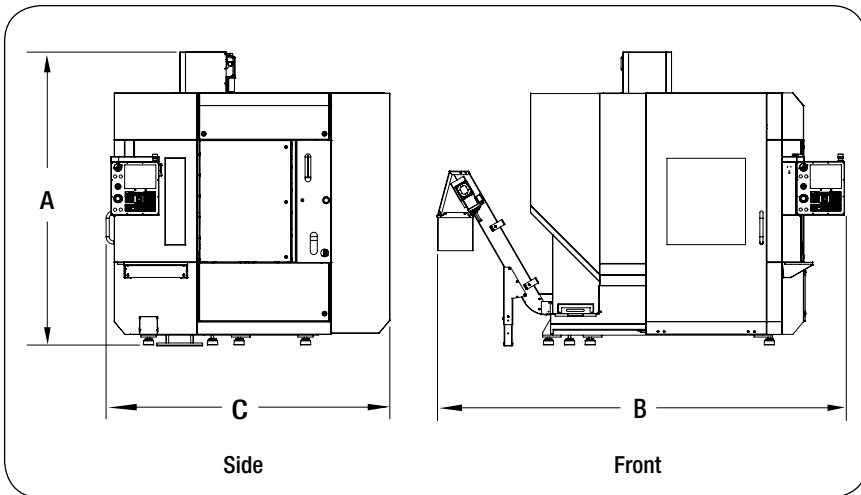
The UMC-750SS's 630 x 500 mm trunnion table features standard T-slots, as well as a precision pilot bore, for fixturing versatility. The trunnion provides +110 and -35 degrees of tilt and 360 degrees of rotation for excellent tool clearance and large part capacity.



The UMC-750SS's high-speed trunnion table offers 150 deg/sec rapids to quickly 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-750SS is equipped with a 15,000-rpm inline direct-drive spindle, and comes standard with Haas Automation's powerful high-speed machining control software.



Operating Dimensions UMC-750SS

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

B Axis – Tilt

Travels	+110°, -35°
Max Speed	150°/sec
Max Torque	1200 ft-lb 1 627 Nm
Brake Torque	4300 ft-lb 5 830 Nm

C Axis – Rotation

Travels	360°
Max Speed	150°/sec
Max Torque	450 ft-lb 407 Nm
Brake Torque	3300 ft-lb 4 474 Nm

Standard Spindle

Speed	15,000 rpm
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
Tool-to-Tool	2.3 sec
Chip-to-Chip	3.2 sec

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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