

[ Special Series ]

# Haas EC-1600 Series



## The Horizontal Machining Center

Standard Enclosure  
Exhaust System

Standard side-mount  
tool changer, 30+1 tools

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

Multi-auger chip  
removal system

Available with integrated  
4th-axis rotary platter

7500-rpm 50-taper  
geared-head spindle

Warranty: 1 Year Parts and Labor

### [ Standard Features ]

- 7500-rpm 50-Taper Spindle
- 30 hp Vector Drive
- Two-Speed Gearbox
- 30+1 Side-Mount Tool Changer
- 15" Color LCD Monitor • Built-In USB Port
- 1 GB Program Memory
- Multi-Auger Chip Removal System
- Enhanced Remote Jog Handle w/LCD
- Power Failure Detection Module
- Enclosure Exhaust System
- Rigid Tapping
- Made in the USA

### [ Options ] partial list

- 10,000-rpm Geared-Head Spindle
- Integrated 4th-Axis Rotary Platter
- 50+1 Side-Mount Tool Changer
- High-Speed Machining w/Look-Ahead
- Through-Spindle Coolant Systems
- Ethernet Interface
- Wireless Intuitive Probing System



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

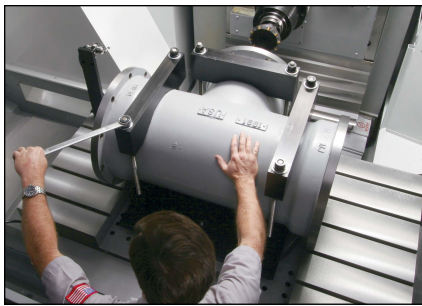
Specifications subject to change without notice. Not responsible for typographical errors. Machines shown with optional equipment. Actual product appearance may differ.

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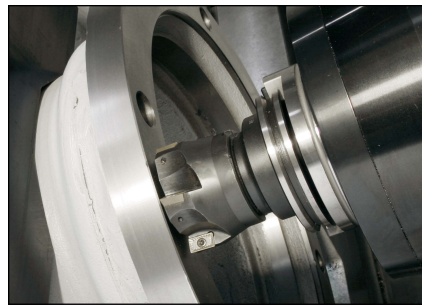
## The Horizontal Machining Center



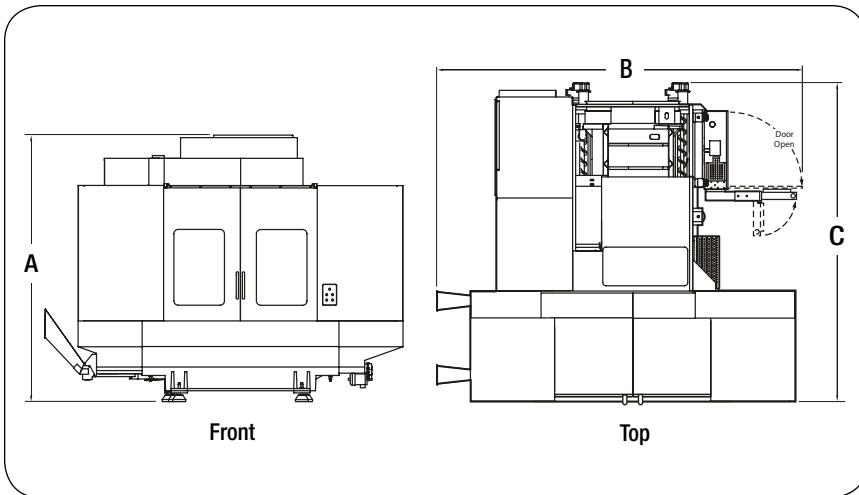
The EC-1600 Series HMCs are rugged 50-taper horizontal machining centers with large work cubes, and a maximum part capacity of 10,000 lb. The EC-1600ZT adds an additional 8" of Z-axis travel to accommodate larger parts and longer tools. Both models are available with an integrated 4th-axis rotary platter.



The EC-1600 and EC-1600ZT are available with a full 4th-axis rotary platter integrated into the T-slot table to provide access to four sides of a part or tombstone. The 30" platter handles parts and fixtures up to 10,000 lb.



The EC-1600 and EC-1600ZT are equipped with a 7500-rpm geared-head 50-taper spindle that provides 340 ft-lb of torque for heavy cutting. For high-speed cutting, an 10,000-rpm geared-head spindle is available.



Operating Dimensions	EC-1600	EC-1600ZT
A. Max Operating Height	133" 3378 mm	133" 3378 mm
B. Max Operating Width	194" 4928 mm	194" 4928 mm
C. Max Operating Depth†	171" 4343 mm	184" 4674 mm

### [ Specifications ]

Travels	EC-1600	EC-1600 ZT
X	64" 1626 mm	64" 1626 mm
Y	50" 1270 mm	50" 1270 mm
Z	32" 813 mm	40" 1016 mm

Table	EC-1600	EC-1600 ZT
Length	64" 1626 mm	64" 1626 mm
Width	36" 914 mm	36" 914 mm
Max Weight on Table	10,000 lb 4536 kg	10,000 lb 4536 kg

Spindle	EC-1600	EC-1600 ZT
Speed	7500 rpm	7500 rpm
Drive System	Geared Head	Geared Head
Max Torque	340 ft-lb @ 700 rpm 460 Nm @ 700 rpm	340 ft-lb @ 700 rpm 460 Nm @ 700 rpm
Max Rating	30 hp 22.4 kW	30 hp 22.4 kW

Optional Spindle	EC-1600	EC-1600 ZT
Speed	10,000 rpm	10,000 rpm
Drive System	Geared Head	Geared Head
Max Torque	250 ft-lb @ 700 rpm 339 Nm @ 700 rpm	250 ft-lb @ 700 rpm 339 Nm @ 700 rpm
Max Rating	30 hp 22.4 kW	30 hp 22.4 kW

Axis Motors	EC-1600	EC-1600 ZT
Max Thrust		
X Axis	4000 lb 17793 N	4000 lb 17793 N
Y & Z Axes	8000 lb 35586 N	8000 lb 35586 N

Feedrates	EC-1600	EC-1600 ZT
Max Rapids	750 ipm 19.1 m/min	750 ipm 19.1 m/min
Max Cutting	500 ipm 12.7 m/min	500 ipm 12.7 m/min

Tool Changer	EC-1600	EC-1600 ZT
Capacity (opt)	30+1 (50+1)	30+1 (50+1)
Tool Type/Taper	CT or BT 50	CT or BT 50
Max Tool Diameter, full	4.0" 102 mm	4.0" 102 mm
Max Tool Diameter, adj empty	10.0" 254 mm	10.0" 254 mm
Tool to Tool	8.0 sec	8.0 sec

General	EC-1600	EC-1600 ZT
Power Required (min)		195 - 260 VAC 3-Phase



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