

[Special Series]

Haas ES-5 Series



The Horizontal Machining Center

Side-mount tool changer
(24+1 tools) swaps tools
in just 2.8 seconds

ISO standard G-code programming
through the easy-to-use Haas
control, or use the optional
Intuitive Programming System

Inline direct-drive spindle
features 8000 rpm and on-the-
fly wye-delta switching

Four table configurations
available to tailor the
ES-5 to your specific needs

Warranty: 1 Year Parts and Labor

[Standard Features]

- 20 hp Vector Drive
- 8000-rpm 40-Taper Spindle
- Inline Direct Drive
- 24+1 Side-Mount Tool Changer
- 15" Color LCD Monitor w/USB Port
- Rigid Tapping
- Made in the USA

[Options] *partial list*

- 30 hp, 12,000-rpm Spindle
- 40+1 Side-Mount Tool Changer
- Programmable Coolant Nozzle
- High-Speed Machining w/Look-Ahead
- Through-Spindle Coolant Systems
- Ethernet Interface
- Haas Intuitive Programming System

[Table Configurations]

- 3-Axis w/T-Slot Table
- T-Slot Table w/Integrated 4th Axis
- 4-Axis w/Rotating T-Slot Table
- 5-Axis with Trunnion Table



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. Machines shown with optional equipment.



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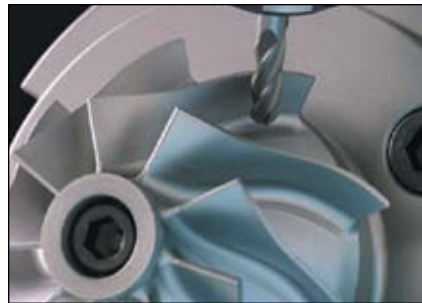
The Horizontal Machining Center

The compact and affordable ES-5 Series HMCs feature 40"x18"x22" (xyz) travels, and a VMC-style enclosure for visibility and access. Each ES-5 comes standard with an 8000-rpm, inline direct-drive 40-taper spindle, a 20 hp vector drive system with on-the-fly wye-delta switching and a 24+1 tool side-mount tool changer.

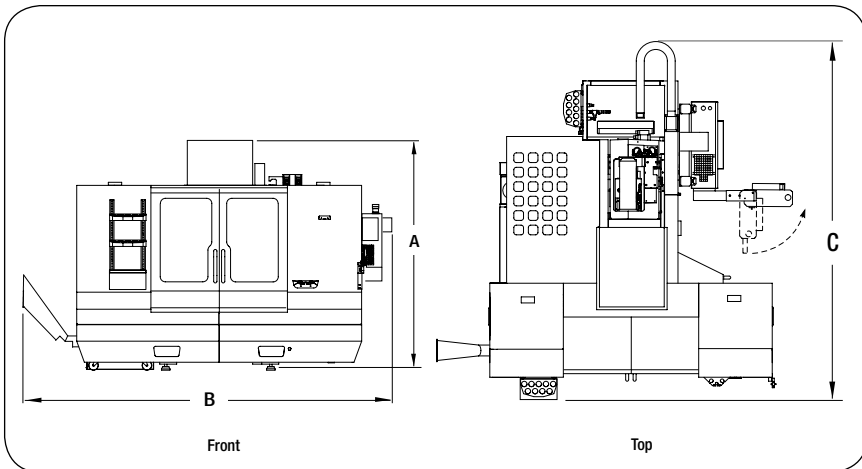
These configurations are available: the ES-5-T is a 3-axis HMC with a T-slot table; the ES-5-4AX has a T-slot table with integrated 4th-axis platter; the ES-5-4T has a full 4th-axis rotating table that will accept a 5th-axis rotary and fixture; and the ES-5-TR has a built-in dual-axis trunnion table.



The ES-5-4T with 4th-axis rotating table is perfect for complex operations like cylinder head porting. Simply mount a rotary table and fixture to the T-slot table for full 5-axis machining capability.



The ES-5-TR incorporates a dual-axis trunnion table to provide full 5-axis simultaneous motion, or position a part to nearly any angle for machining.



Operating Dimensions	ES-5
A. Max Operating Height	94" 2388 mm
B. Max Operating Width	155" 3937 mm
C. Max Operating Depth	150" 3810 mm

[Specifications]

Configurations

ES-5-T	3-axis w/ 52" x 18" T-slot table
ES-5-4AX	52" x 20" T-slot table w/ integrated 4th-axis
ES-5-4T	4-axis w/ 40" x 15" rotating T-slot table
ES-5-TR	5-axis w/ built-in trunnion table

Travels	ES-5-T	ES-5-4AX	ES-5-4T	ES-5-TR
X	40" 1016 mm	40" 1016 mm	40" 1016 mm	40" 1016 mm
Y	18" 457 mm	18" 457 mm	18" 457 mm	18" 457 mm
Z	22" 559 mm	22" 559 mm	22" 559 mm	21" 533 mm

Table

Length	52" 1321 mm	52" 1321 mm	40" 1016 mm	Ø8.27" Ø210 mm
Width	18" 457 mm	20" 508 mm	15" 381 mm	—
Max Weight on Table	3500 lb 1588 kg	3500 lb 1588 kg	625 lb 284 kg	—
Max Weight on Platter	—	1000 lb 454 kg	—	200 lb 91 kg

Standard Spindle

Speed	8000 rpm
Drive System	Inline Direct Drive
Max Torque	75 ft-lb @ 1400 rpm 102 Nm @ 1400 rpm
Max Rating	20 hp 14.9 kW

Optional Spindle

Speed	12,000 rpm
Drive System	Inline Direct Drive
Max Torque	75 ft-lb @ 2100 rpm 102 Nm @ 2100 rpm
Max Rating	30 hp 22.4 kW

Feedrates

Max Rapids X Axis	710 ipm 18.0 m/min
Y & Z Axes	1000 ipm 25.4 m/min
Max Cutting	500 ipm 12.7 m/min

Tool Changer

Capacity	24+1 (40+1 optional)
Tool Type/Taper	CT or BT 40
Max Tool Diameter (adj. full/empty)	3.0" / 5" 76 mm / 127 mm
Tool to Tool	2.8 sec
Chip to Chip	3.6 sec

General

Power Required (min)	195 - 260 VAC 3-Phase
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