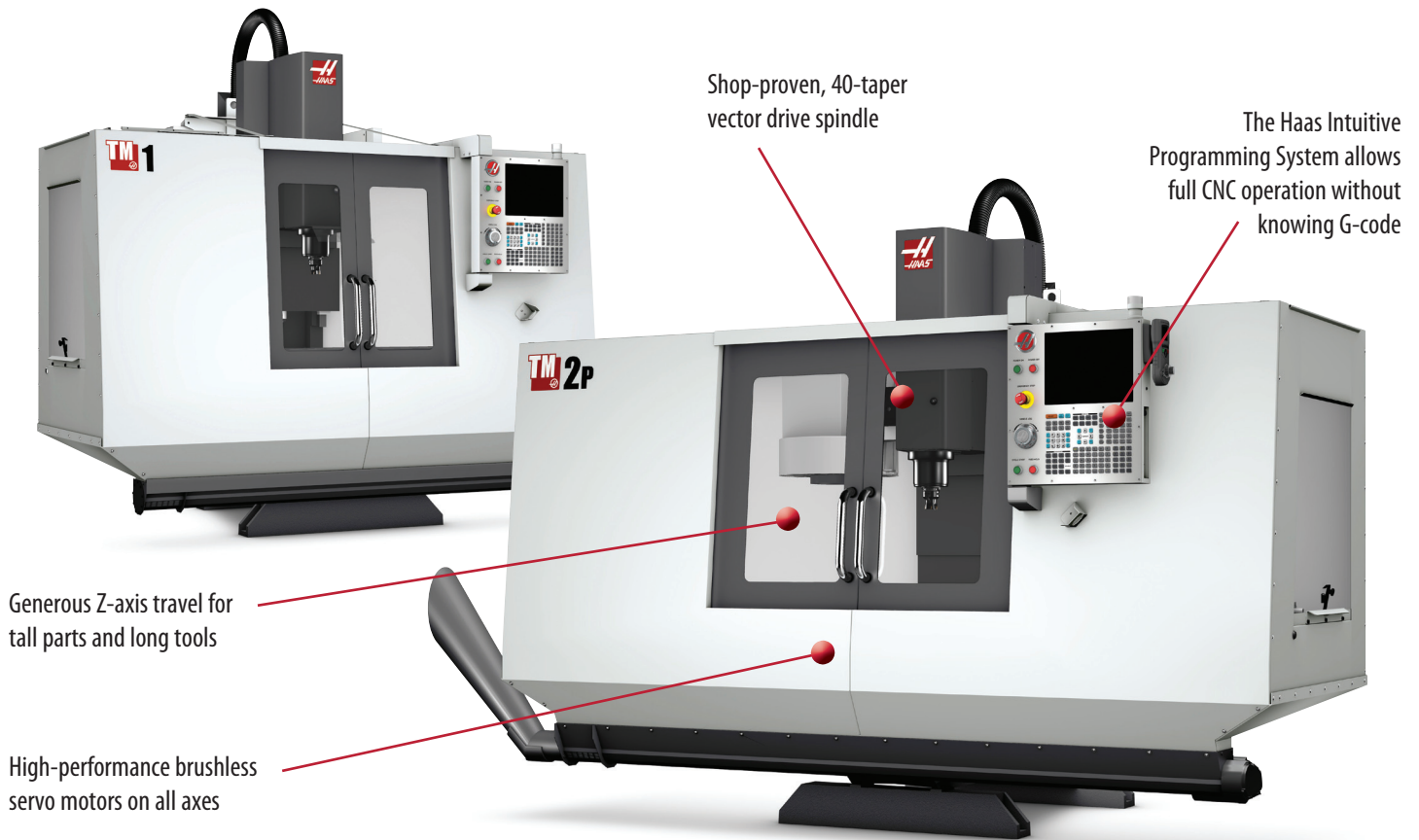


# Haas TM Series

## The Toolroom Mills



Shop-proven, 40-taper vector drive spindle

The Haas Intuitive Programming System allows full CNC operation without knowing G-code

Generous Z-axis travel for tall parts and long tools

High-performance brushless servo motors on all axes

**Machines operate on three-phase power**

Warranty: 1 Year Parts and Labor

### [ TM Standard Features ]

- Full CE-Compliant Enclosure
- Haas Intuitive Programming System
  - Full-Color Graphical Interface
  - Conversational Operating System
  - No G-Code Knowledge Required
- User-Friendly Haas Control
  - Easy to Learn & Use
  - Built-In Machining Calculators
  - One-Button Features
- 4 000-rpm Vector Drive Spindle
- Standard 40-Taper Tooling
- Brushless Servos on All Axes
- Three-Phase Power
- 38 cm Color LCD Monitor w/USB Port
- Built-In Toolholder Rack
- LED Beacon Light
- Easy to Set Up and Operate
- Made in the USA

### [ P Models Also Include ]

- Full CE-Compliant Enclosure
- 10-Station Automatic Tool Changer
- 6 000-rpm Vector Drive Spindle
- 10,2 m/min Rapids and Feedrates
- Y- and Z-Axis Way Covers

### [ Options ] partial list

- 20-Station Automatic Tool Changer<sup>1</sup>
- 4th- and 5th-Axis Drives
- Coordinate Rotation & Scaling
- Programmable Coolant Nozzle
- Intuitive Probing System
- User-Definable Macros
- Rigid Tapping
- Spindle Orientation
- Coolant Pump Kit
- Chip Auger<sup>2</sup>

<sup>1</sup> 2P and 3P only  
<sup>2</sup> P models only.



Haas Automation Europe | [www.HaasCNC.com](http://www.HaasCNC.com) | +32 2 522 99 05 | Made in U.S.A.

Specifications subject to change without notice. Not responsible for typographical errors. Machines shown with optional equipment.

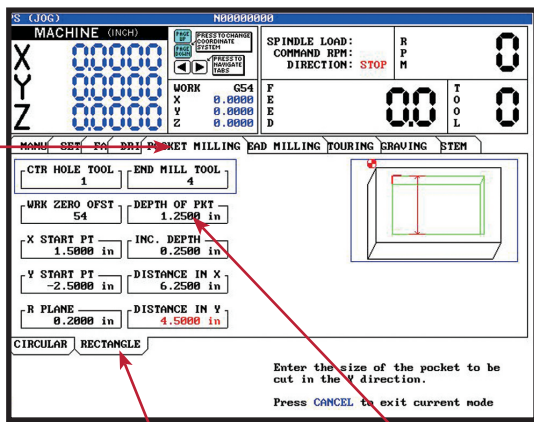
# Haas TM Series

## The Toolroom Mills

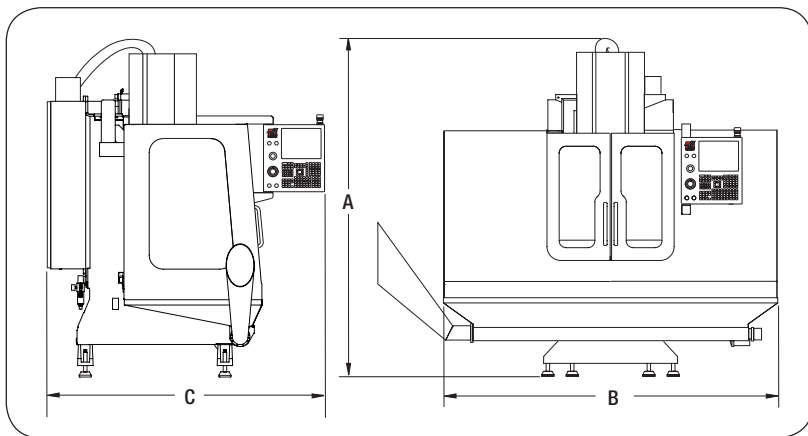


The affordable Haas TM Series machines combine the precision control of the Haas CNC system with the convenience of a manual machine. They use standard 40-taper tooling, and are very easy to learn and operate – even without knowledge of G-code.

### Intuitive Programming System



- 1 Use the top tab menu to select the type of operation to perform.
- 2 Choose from the lower tabs to define the specific cutting operation.
- 3 Fill in the requested information and press Cycle Start.



Operating Dimensions	TM-1   1P	TM-2   2P	TM-3   3P
A. Max Operating Height	2 667 mm	2 667 mm	2 667 mm
B. Max Operating Width*	2 438 mm	3 073 mm	3 073 mm
C. Max Depth**	2 083 mm	2 210 mm	2 489 mm

\* Add 406 mm if chip auger is installed. \*\* With control swung forward. Additional 914 mm required to open rear service panel.

### [ Specifications ]

Travels	TM-1   1P	TM-2   2P	TM-3   3P
X	762 mm	1 016 mm	1 016 mm
Y	305 mm	406 mm	508 mm
Z	406 mm	406 mm	406 mm
Spindle Nose to Table Top (approx.)	~102-508 mm	~102-508 mm	~102-508 mm

Table	TM-1   1P	TM-2   2P	TM-3   3P
Length	1 213 mm	1 467 mm	1 467 mm
Width	267 mm	267 mm	368 mm
Max Weight on Table	up to 454 kg evenly dist.		

T-Slots	TM-1   1P	TM-2   2P	TM-3   3P
T-Slot Width	16 mm		
Number of T-Slots	3		
Center Distance	101,6 mm		125,0 mm

Spindle	TM-1   1P	TM-2   2P	TM-3   3P
Taper Size	#40 Taper		
Speed	4 000   6 000 rpm		
Drive System	Direct Speed, Belt Drive		
Max Torque	45 Nm @ 1200 rpm		
Spindle Max Rating	5.6 kW		

Brushless Axis Motors	TM-1   1P	TM-2   2P	TM-3   3P
Max Thrust Rating	8 896 N		

Feedrates	TM-1   1P	TM-2   2P	TM-3   3P
Max Rapids	5,1   10,2 m/min		
X Axis	5,1   10,2 m/min		
Y Axis	5,1   10,2 m/min		
Z Axis	5,1   10,2 m/min		
Max Cutting	5,1   10,2 m/min		

Tool Changer	TM-1   1P	TM-2   2P	TM-3   3P
Capacity	NA   10	NA   10 / 20	NA   10 / 20
Tool Type/Taper	CT or BT 40		
Max Tool Diameter	89 mm		
Max Tool Weight	5,4 kg		
Tool-to-Tool (avg)	5,7 sec		

General	TM-1   1P	TM-2   2P	TM-3   3P
Air Required	113 Lpm, 6,9 bar		
Power Required	354 - 488 VAC 3-Phase		



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