

[ Special Series ]

# Haas MM Series

## The Mini Mill & Super Mini Mill



### Mini Mill

- 10-pocket automatic tool changer
- 6000-rpm vector drive spindle
- 600 ipm rapids and 500 ipm cutting feeds



### Super Mini Mill

- ENHANCED** high-speed 10-pocket automatic tool changer
- ENHANCED** 10,000-rpm vector drive spindle and rigid tapping
- ENHANCED** 1200 ipm rapids and 833 ipm cutting feeds



Warranty: 1 Year Parts and Labor

#### [ Standard Features ]

- Full VMC Capabilities
- Standard 40-Taper Tooling
- 16" x 12" x 10" Travels
- 36" x 12" Table
- Full Enclosure
- 10-Tool Capacity
- 15" Color LCD Monitor
- Built-In USB Port & Ethernet
- 1 GB Program Memory
- LED Work Light
- User-Friendly Haas Control
- Coolant Pump Kit
- High-Impact Safety Glass
- Made in the USA

#### [ Mini Mill ]

- 6000-rpm Vector Drive Spindle
- 600 ipm Rapids

#### [ Super Mini Mill ]

- 10,000-rpm Vector Drive Spindle
- 1200 ipm Rapids
- High-Speed Tool Changer
- Rigid Tapping
- Convenience Package

#### [ Options ] partial list

- 15,000-rpm Spindle<sup>1</sup>
- Through-Spindle Coolant<sup>1</sup>
- Chip Auger
- High-Flow Coolant Pump
- Programmable Coolant Nozzle
- 4th- and 5th-Axis Drives
- Wireless Intuitive Probing System
- Coordinate Rotation & Scaling
- High-Speed Machining w/Look-Ahead
- User-Definable Macros
- Haas Visual Programming System
- Spindle Orientation
- 32 or 64 GB Expanded Program Memory
- Rigid Tapping<sup>2</sup>
- Convenience Package<sup>2</sup>

<sup>1</sup> Super Mini Mill only. <sup>2</sup> Standard on SMM.



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. Actual product appearance may differ.

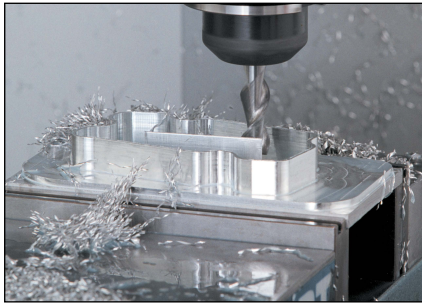
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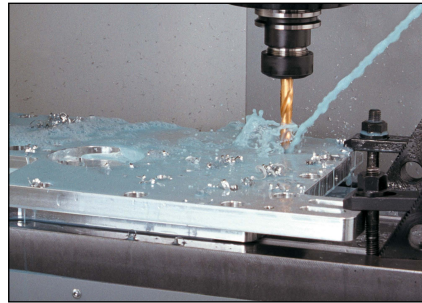


Running a small job on a big machine can be inefficient, and may even cut into profits. Haas Mini Mills provide an economical solution for small parts machining in a compact package that is loaded with full-size features.

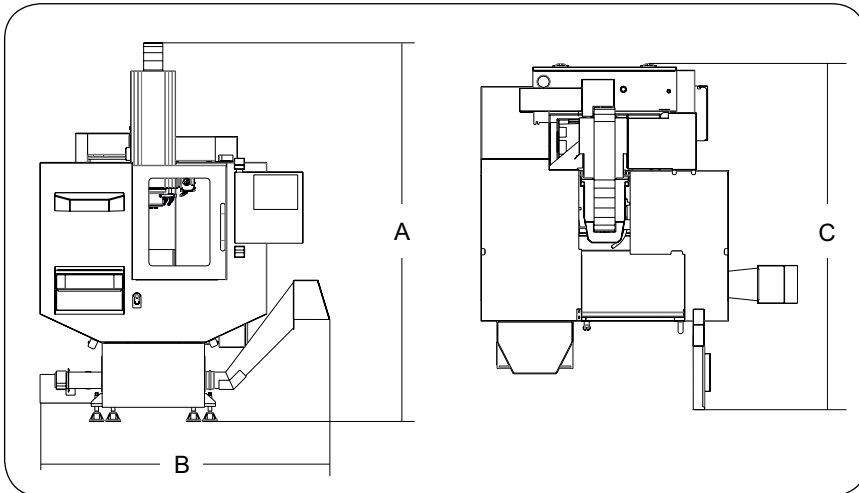
They are perfect for schools, start-up shops or as a first step into CNC machining. And they're a valuable addition for shops needing a "second-op" machine, or an additional spindle where space is limited.



The Mini Mill and Super Mini Mill are perfect for machining the typical small parts found at many job shops. The 40-taper spindle is ideal for finish work and cutting aluminum.



The Mini Mill's 16" x 12" x 10" travels and 36" x 12" table make it ideal for most of the jobs a typical shop encounters. The small footprint saves space, and the machine's cost is very affordable.



### Operating Dimensions

|               |              |
|---------------|--------------|
| A. Max Height | 106" 2692 mm |
| B. Max Width  | 91" 2311 mm  |
| C. Max Depth† | 88" 2235 mm  |

† With control swung forward. Additional 36" (914 mm) required to open rear service panel.

### [ Specifications ]

| Travels                         | Mini Mill              | Super Mini Mill        |
|---------------------------------|------------------------|------------------------|
| X                               | 16"<br>406 mm          | 16"<br>406 mm          |
| Y                               | 12"<br>305 mm          | 12"<br>305 mm          |
| Z                               | 10"<br>254 mm          | 10"<br>254 mm          |
| Spindle Nose to Table (approx.) | 4"-14"<br>102 - 356 mm | 4"-14"<br>102 - 356 mm |

### Table

|                       |                  |                  |
|-----------------------|------------------|------------------|
| Length (total)        | 36"<br>914 mm    | 36"<br>914 mm    |
| Length (work surface) | 28.75"<br>730 mm | 28.75"<br>730 mm |
| Width                 | 12"<br>305 mm    | 12"<br>305 mm    |
| Max Weight on Table   | 500 lb<br>227 kg | 500 lb<br>227 kg |

### T-Slots

|                   |             |
|-------------------|-------------|
| T-Slot Width      | 5/8" 16 mm  |
| Number of T-Slots | 3           |
| Center Distance   | 4.3" 110 mm |

### Spindle

|              |                                         |                                         |
|--------------|-----------------------------------------|-----------------------------------------|
| Taper Size   | CT or BT 40                             | CT or BT 40                             |
| Speed        | 6000 rpm                                | 10,000 rpm                              |
| Drive System | Belt-Drive                              | Belt-Drive                              |
| Max Torque   | 33 ft-lb @ 1200 rpm<br>45 Nm @ 1200 rpm | 17 ft-lb @ 4600 rpm<br>23 Nm @ 4600 rpm |
| Max Rating   | 7.5 hp<br>5.6 kW                        | 15 hp<br>11.2 kW                        |

### Brushless Axis Motors

|                   |                |
|-------------------|----------------|
| Max Thrust Rating | 2000 lb 8896 N |
|-------------------|----------------|

### Feedrates

|             |                       |                        |
|-------------|-----------------------|------------------------|
| Max Rapids  | 600 ipm<br>15.2 m/min | 1200 ipm<br>30.5 m/min |
| Max Cutting | 500 ipm<br>12.7 m/min | 833 ipm<br>21.2 m/min  |

### Tool Changer

|                   |         |        |         |
|-------------------|---------|--------|---------|
| Capacity          | 10      |        |         |
| Max Tool Diameter | 3.5"    | 89 mm  |         |
| Max Tool Weight   | 12 lb   | 5.4 kg |         |
| Tool to Tool      | 4.2 sec |        | 2.8 sec |
| Chip to Chip      | 5.0 sec |        | 3.8 sec |

### General

|                |                                       |                                       |
|----------------|---------------------------------------|---------------------------------------|
| Machine Weight | 3400 lb<br>1542 kg                    | 3400 lb<br>1542 kg                    |
| Air Required   | 4 scfm @ 100 psi<br>113 Lpm @ 6.9 bar | 4 scfm @ 100 psi<br>113 Lpm @ 6.9 bar |



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April 2016