



Haas
F1 Team
OFFICIAL MACHINE TOOL

SE

The Machines that
Defined a Category
Mini Mill



THE ORIGINAL COMPACT MACHINES

Often imitated, never duplicated.

Haas Mini Mills are the industry standard for compact machining centers. They are perfect for schools, start-up shops, or as a first step into CNC machining. Loaded with full-size features, they are valuable additions for shops needing a “second-op” machine, or an additional spindle where space is limited.



Mini Mill

- 16" x 12" x 10" (406 x 305 x 254 mm)
- 6000-rpm Spindle
- 10-Pocket Carousel Tool Changer
- 36" x 12" (914 x 305 mm) Table
- 40-Gallon (151 L) Coolant Capacity
- 500 ipm (12.7 m/min) Max Cutting



Mini Mill 2

- 20" x 16" x 14" (508 x 406 x 356 mm)
- 6000-rpm Spindle
- 20-Pocket Carousel Tool Changer
- 40" x 14" (1016 x 356 mm) Table
- 40-Gallon (151 L) Coolant Capacity
- 500 ipm (12.7 m/min) Max Cutting



Super Mini Mill

- 16" x 12" x 10" (406 x 305 x 254 mm)
- 10,000-rpm Spindle
- 10-Pocket Carousel Tool Changer
- 36" x 12" (914 x 305 mm) Table
- 40-Gallon (151 L) Coolant Capacity
- 833 ipm (21.2 m/min) Max Cutting



Super Mini Mill 2

- 20" x 16" x 14" (508 x 406 x 356 mm)
- 10,000-rpm Spindle
- 20-Pocket Carousel Tool Changer
- 40" x 14" (1016 x 356 mm) Table
- 40-Gallon (151 L) Coolant Capacity
- 833 ipm (21.2 m/min) Max Cutting



Mini in Name and Price Only. The Mini Mill Series changed everything, by packing 40-taper performance into small packages at unheard of prices.



Part Hole Blaster –
A programmable blast of air to clear chips and coolant from holes and deep pockets.

PRODUCTIVITY OPTIONS

1. Wireless Intuitive Probing System (WIPS)

Drastically reduce setup times with this complete probing package.

2. 10,000-rpm Grease-Packed Spindle

10,000-rpm spindle with grease lubrication in place of the standard air/oil mist lubrication.

3. Through-Spindle Coolant

Provides up to 300 psi (21 bar) of coolant through the cutting tool.

4. Minimum Quantity Lubrication

Near-dry machining for difficult materials, delivering a steady blast of compressed air and a small quantity of cutting fluid directly to the cutting tool to provide lubrication and chip removal.

5. Enclosure Exhaust System

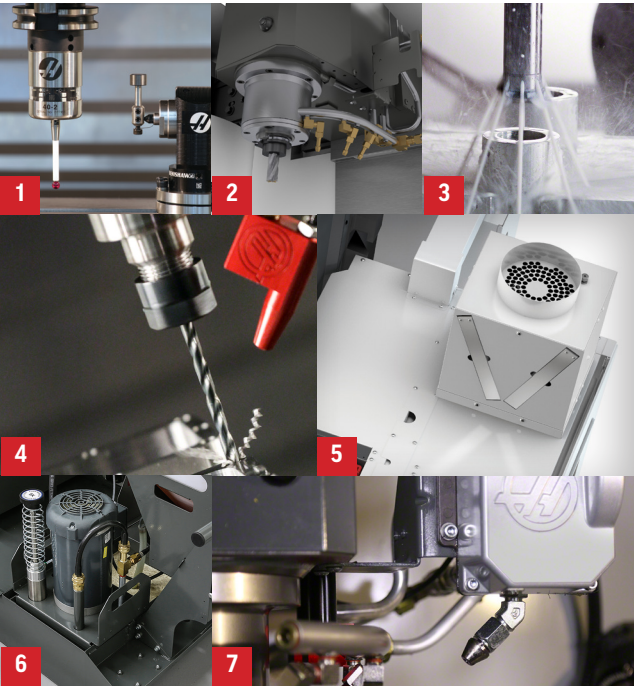
Fast, affordable mist extraction. Start loading parts sooner, without waiting for the coolant mist to clear from the machine enclosure.

6. Automatic Coolant Refill

This feature monitors the machine coolant level, and automatically adds correctly mixed coolant to the tank.

7. Programmable Coolant Nozzle

Our Programmable Coolant Nozzle is a multi-position nozzle that automatically directs coolant precisely at the cutting tool.



8. Coolant Tank Oil Skimmer

The Haas Coolant Tank Oil Skimmer is an integrated solution for keeping your coolant tank free of tramp oils.

9. 4th- and 5th-Axis Options

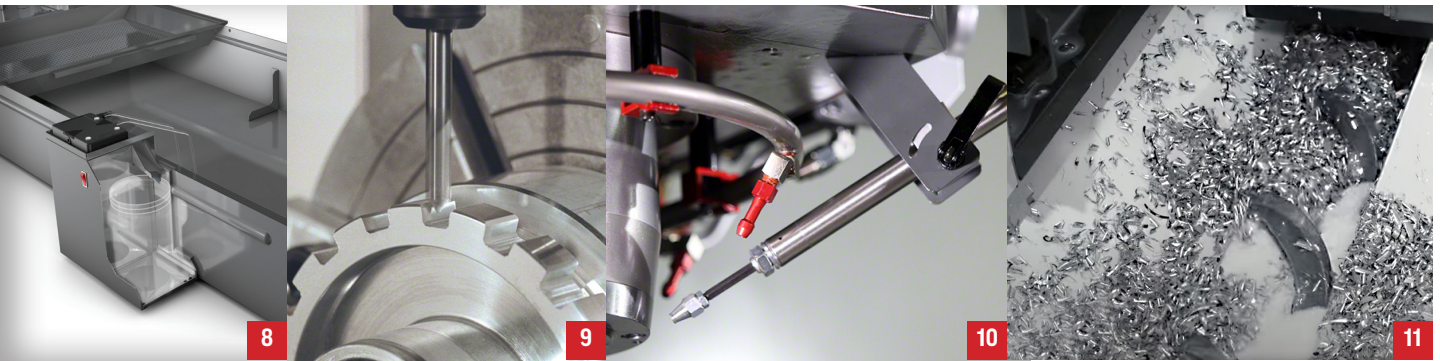
The fastest way to increase the productivity of your Haas mill is to add a Haas single- or dual-axis rotary product. You can reduce or totally eliminate multiple setups, and easily handle machining multi-sided parts.

10. Automatic Air Gun

AAG provides a constant air blast to the cutting tool to clear chips safely and automatically during dry machining, or to blow chips and coolant out of deep pockets.

11. Chip Auger

This auger-style chip conveyor automatically removes chips from the machine, while compressing them and wringing out the coolant.



IT'S EASIER – WITH PICTURES, VIDEOS & GRAPHICS.

THE HAAS CONTROL– Designed, built, and programmed by Haas.

The Haas control – hardware and software – is designed and built in-house, and optimized specifically for Haas machine tools. If there is a problem – Haas Automation takes full responsibility for the entire machine. The Haas control is easy to learn and use, and it is the same across the entire product line. Haas machines are also used extensively in educational institutions around the world, so graduating students are already familiar with the Haas control, which makes finding new operators and programmers easier, and simplifies training.

STANDARD CONTROL FEATURES:

- Dedicated Keypad
- One-Button Features
- Multi-Function Jog Handle
- 15" Color LCD Screen
- Ethernet Interface
- Control Touchscreen
- Advanced Tool Management
- HaasDrop Wireless File Transfer
- USB Port
- 1 GB Memory
- Power-Failure Detection Module
- M130 Media Player
- HaasConnect Mobile Monitoring
- WiFi Connectivity



VISUAL PROGRAMMING SYSTEM

The Haas Visual Programming System uses graphical templates and a form-like interface to help you quickly create G-code programs for not only basic part features, but also more complex operations, like Y-axis milling/drilling, probing, and more. Simply define the feature in the template, and VPS then outputs working G-code at the touch of a button. VPS also includes a custom template generator, so you can create templates for your own part features or frequently used programs.



M130 MEDIA DISPLAY

The Haas M130 Media Display M-Code is a powerful tool for communicating with machine operators and programmers directly from the Haas control. Use M130 to call up setup instructions, tool lists, part images, manufacturing information, and more. When the program reaches an M130, the specified media (image, video, or PDF) will be displayed in the upper right corner of the control screen.



- Explain difficult-to-understand secondary operations, using pictures and videos
- Avoid miscommunications with your shop peers
- Describe step-by-step part inspection processes
- Share important setup information with shop personnel



ALARM VIDEOS

When your machine alarms out, the first thing you want to know is: Why? The Haas control not only includes fully descriptive alarm text explaining the problem, but for many common alarms, it also includes short videos explaining the alarm, and providing valuable troubleshooting tips to resolve the issue.

MAKE THE CONNECTION WITH HAASCONNECT

Get your machine status notifications anywhere, on any device! The Haas Control has the ability to send you, and others you designate, email notifications about the operating status of your Haas machine. Set up is fast and easy through the MyHaas Portal and HaasCNC.com.



Haas Automation, Inc.
2800 Sturgis Rd., Oxnard, CA, USA, +1-805-278-1800

Haas Automation Europe
Mercuriusstraat 28, B-1930 Zaventem, Belgium, +32 2 522 99 05

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