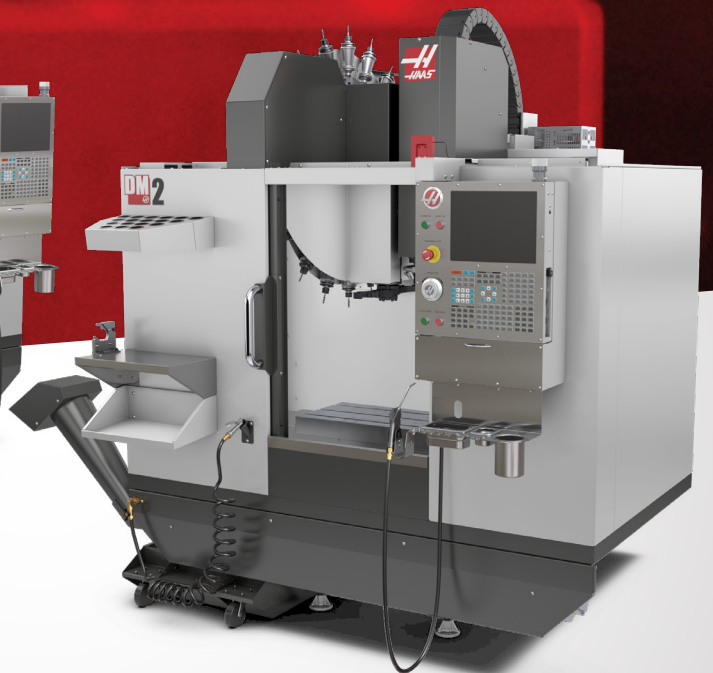




Haas
F1 Team
OFFICIAL MACHINE TOOL

DM

40-Taper Performance
High-Speed, Lean-Style
Drill/Mills



40-TAPER PERFORMANCE

Drill/Mill series machines are high-speed, lean-style machining centers with compact footprints that make very efficient use of valuable shop floor space.



DM-1

- High-productivity machining center with a compact footprint
- Powerful 40-taper inline direct-drive spindle
- Rigid tapping to 5000 rpm
- Made in the USA



TRAVELS

X Axis	20.0" (508 mm)
Y Axis	16.0" (406 mm)
Z Axis	15.5" (394 mm)
Spindle Nose to Table (~ max)	21.5" (546 mm)
Spindle Nose to Table (~ min)	6" (152 mm)

FEEDRATES

Max Cutting	1200 ipm (30.5 m/min)
Rapids on X	2400 ipm (61.0 m/min)
Rapids on Y	2400 ipm (61.0 m/min)
Rapids on Z	2400 ipm (61.0 m/min)

TOOL CHANGER

Type	SMTC
Capacity	18+1
Max Tool Diameter (full)	2.5" (64 mm)
Max Tool Length (from gage line)	7" (178 mm)

SPINDLE

Drive System	Inline Direct Drive
Max Rating	15.0 (11.2 kW)
Max Speed	10,000 rpm
Taper	CT or BT 40
Bearing lubrication	Air/Oil Injection
Cooling	Air Cooled

TABLE

Length	26.0" (660 mm)
Width	15.0" (381 mm)
T-Slot Width	0.630" (16.00 mm)
T-Slot Center Distance	4.92" (125 mm)
Number of Std T-Slots	3
Max Weight on Table (evenly distributed)	250 lb (113 kg)

DM-2

The DM-2 offers the same lean-style performance and benefits as the DM-1, with more X-axis travel and a longer table.



TRAVELS

X Axis	28.0" (711 mm)
Y Axis	16.0" (406 mm)
Z Axis	15.5" (394 mm)
Spindle nose to Table (~ max)	21.5" (546 mm)
Spindle nose to Table (~ min)	6" (152 mm)

FEEDRATES

Max Cutting	1200 ipm (30.5 m/min)
Rapids on X	2400 ipm (61.0 m/min)
Rapids on Y	2400 ipm (61.0 m/min)
Rapids on Z	2400 ipm (61.0 m/min)

TOOL CHANGER

Type	SMTC
Capacity	18+1
Max Tool Diameter (full)	2.5" (64 mm)
Max Tool Length (from gage line)	7" (178 mm)

SPINDLE

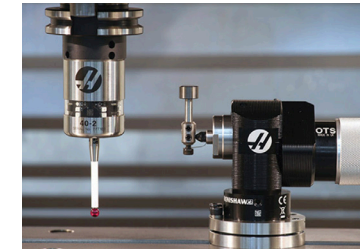
Drive System	Inline Direct Drive
Max Rating	15.0 hp
Max Speed	10,000 rpm
Taper	CT or BT 40
Bearing lubrication	Air/Oil Injection
Cooling	Air Cooled

TABLE

Length	34.0" (864 mm)
Width	15.0" (381 mm)
T-Slot Width	0.630" (16.00 mm)
T-Slot Center Distance	4.92" (125 mm)
Number of Std T-Slots	3
Max Weight on Table (evenly distributed)	250 lb (113 kg)

Wireless Intuitive Probing System

Automate your setup process with the Haas Wireless Intuitive Probing System (WIPS). WIPS is a complete probing package that includes the spindle probe, tool setting probe, and optical machine interface, along with powerful software that guides the operator through the job setup process with intuitive, easy-to-use templates. WIPS allows you to quickly and easily define work offset coordinates, set tool length offsets, and perform in-process inspection, for both part inspection and tool breakage detection.

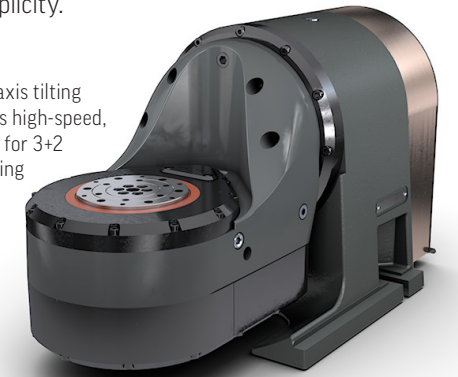


- Includes the Haas Visual Programming System, Macros, Spindle Orientation, and Coordinate Rotation & Scaling
- Easy-to-use, built-in templates make programming probe functions simple
- Fully automatic tool setting cycles
- Includes Renishaw's Inspection Plus software for programming advanced features, like in-process inspection

Productivity Tools Multi-Axis Machining

From the venerable HA5C indexer to the high-speed TRT100 tilting rotary, Haas has a **4th- or 5th-axis solution** to fit your needs. Additional axis drives can be added to any DM series machine in the field, along with Haas high-precision rotary products – boosting productivity through affordable, plug-and-play simplicity.

The **TRT100** is a dual-axis tilting rotary table that offers high-speed, accurate performance for 3+2 and full 5-axis machining of small parts. It is ideal for smaller parts – medical, dental, microwave housings, etc.

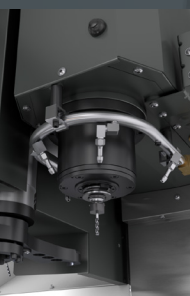


10k, 12k, 15k POWER & SELECTION

Haas-Built, High-Speed Spindles

Inline Drive

Haas 40-taper DMs is an inline direct-drive spindle that is coupled directly to the motor to provide excellent surface finishes and greater thermal stability.



10,000-rpm Standard

- Powerful 40-taper inline direct-drive spindle
- Great overall performance & value
- Good performance for 3D profiling
- Allows shops to use their existing 40-taper tooling and enjoy the benefits of a larger spindle.

High-Performance 12,000-rpm – Optional

- Inline direct-drive spindle
- 5000-rpm high-speed tapping
- 20% faster speed and feedrates
- Better performance for 3D profiling

High-Performance 15,000-rpm – Optional

- Inline direct-drive spindle
- 5000-rpm high-speed tapping
- 50% faster speed and feedrates
- Best performance for 3D profiling

The optional high-performance spindles have a higher power requirement than the standard spindle.

Make and Remove Chips Efficiently



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



Re-cutting chips results in accelerated tool wear, poor surface finishes, and – at worst – scrap. To effectively clear chips from the cutting area, we offer a host of high-productivity solutions, like **Through-Spindle Coolant, Through-Tool Air Blast, Minimum-Quantity Lubrication, and more.**



Coolant management isn't just about keeping up the coolant level, but also about keeping the coolant clean, and maintaining the optimal concentration. Solutions like our **Automatic Coolant Refill System** are the result of solving problems for our customers, as well as in our own machine shop.



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.

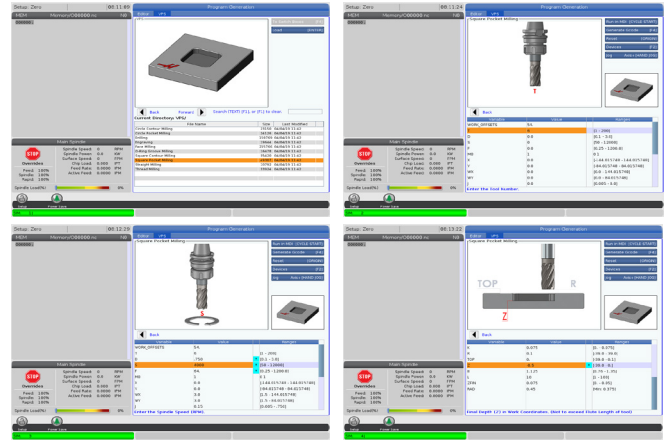
STANDARD CONTROL FEATURES:

- Dedicated Keypad
- One-Button Features
- Multi-Function Jog Handle
- 15" (381 mm) 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.



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