



Haas
F1 Team
OFFICIAL MACHINE TOOL

DT

High-Speed, Lean-Style **Drill/Taps**

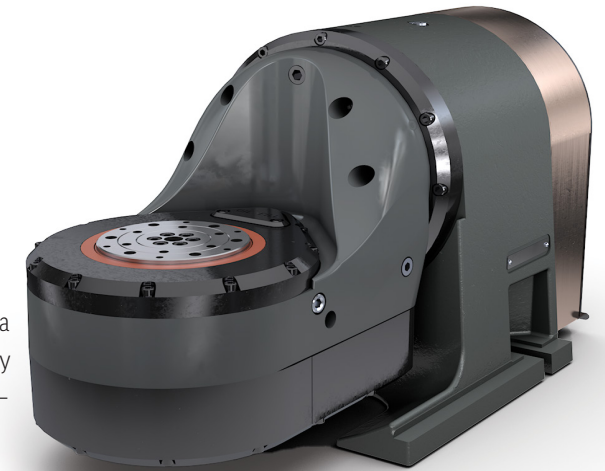


Small, Fast, POWERFUL

Drill/Tap Series machines are high-speed, lean-style machining centers that make very efficient use of valuable shop floor space.

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 Drill/Tap Series machine in the field, along with Haas high-precision rotary products - boosting productivity through affordable, plug-and-play simplicity.



Automate your setup process with the Haas **Wireless Intuitive Probing System (WIPS)**. Not only does it allow you to easily set work and tool offsets, WIPS can also check if your parts are loaded correctly, inspect your parts in-process on the machine, and detect broken tools. This is one option you will never second-guess ordering.



Dynamic Work Offsets (DWO) and Tool Center Point Control (TCPC) are software features in the Haas control that make setting up 4- and 5-axis jobs as easy as setting up a 3-axis machine. They allow an operator to place the part and fixture anywhere on the machine's table or platter, regardless of the location that was programmed in the CAM system.



The **DT-1's** compact footprint makes it perfect for shops where space is at a premium.

DT-1

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	SMTC
Capacity	20+1	20+1
Max Tool Diameter (full)	2.0"	51 mm
Max Tool Length (from gage line)	7"	178 mm

SPINDLE

Drive System	Inline Direct
Max Rating	15 hp (11.2 W)
Max Speed	10,000 rpm
Taper	BT30
Bearing lubrication	Air/Oil Injection
Cooling	Air Cooled

TABLE

Length	26.0" (660 mm)
Width	15.0" (381 mm)
T-Slot Width	0.626" to 0.630" (15.90 mm to 16.00 mm)
T-Slot Center Distance	4.92" (125 mm)
Number of Std T-Slots	3
Max Weight on Table <small>(evenly distributed)</small>	250 lb (113 kg)



10k, 12k, 15k, 20k POWER & SELECTION Haas-Built, High-Speed Spindles

10,000-rpm - Standard

Inline direct-drive spindle
Great overall performance & value
Good performance for 3D profiling

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

High-Speed 20,000-rpm - Optional

Inline direct-drive spindle
5000-rpm high-speed tapping
100% faster speed and feedrates
Ultimate performance for small tools

Note: The optional high-performance spindles have a higher power requirement than the standard spindle. Contact your local HFO for information.



The **DT-2** offers the same lean-style performance and benefits as the DT-1, while providing more X-axis travel and a longer table to handle larger work.

DT-2

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	SMTC
Capacity	20+1	20+1
Max Tool Diameter (full)	2.0"	178 mm
Max Tool Length (from gage line)	7"	1.6 s

SPINDLE

Drive System	Inline Direct Drive
Max Rating	15 hp (11.2 W)
Max Speed	10,000 rpm
Taper	BT30
Bearing lubrication	Air/Oil Injection
Cooling	Air Cooled

TABLE

Length	34.0"
Width	15.0"
T-Slot Width	0.626" to 0.630" (15.90 mm to 16.00 mm)
T-Slot Center Distance	4.92" (125 mm)
Number of Std T-Slots	3
Max Weight on Table <small>(evenly distributed)</small>	250 lb (113 kg)



Make and Remove Chips Efficiently

Your machine is one of the most important employees in your shop. It always should be making chips. Having to stop the machine to remove chips, means it's not making you money. We offer a variety of chip-removal and chip-clearing solutions to keep your machine making chips.



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, such as **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" 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.