Haas
HAAS

Haas
F1 Team
OFFICIAL MACHINE TOOL

Super-
Speed

VF

VF 2ss

VF 6ss

HAAS

SUPER-SPEED VMCs

FASTER SPINDLE SPEEDS
FASTER RAPIDS
FASTER TOOL CHANGES

VF-2SS

40 Taper / 3 Axis / 12k rpm
30+1 Tool Capacity
30" x 16" x 20" Travels
1400 ipm X,Y, and Z Rapids

VF-2SSYT

40 Taper / 3 Axis / 12k rpm
30+1 Tool Capacity
30" x 20" x 20" Travels
1400 ipm X,Y, and Z Rapids

VF-3SS

40 Taper / 3 Axis / 12k rpm
30+1 Tool Capacity
40" x 20" x 25" Travels
1400 ipm X,Y, and Z Rapids

VF-3SSYT

40 Taper / 3 Axis / 12k rpm
30+1 Tool Capacity
40" x 26" x 25" Travels
1400 ipm X,Y, and Z Rapids

VF-4SS

40 Taper / 3 Axis / 12k rpm
30+1 Tool Capacity
50" x 20" x 25" Travels
1400 ipm X,Y, and Z Rapids

VF-5SS

40 Taper / 3 Axis / 12k rpm
30+1 Tool Capacity
50" x 26" x 25" Travels
1200 ipm X,Y, and Z Rapids

VF-6SS

40 Taper / 3 Axis / 12k rpm
30+1 Tool Capacity
64" x 32" x 30" Travels
1200 ipm X,Y, and Z Rapids

FAST SPINDLE, RAPIDS, AND TOOL-CHANGE SPEEDS

The Haas 12,000-rpm, inline direct-drive spindle is coupled directly to the motor to reduce vibration, heat, and noise. The 30 hp vector drive system provides plenty of low-end torque, as well as the speed necessary for high-speed machining operations.

The fast rapids and quick tool changes of the SS machines increase throughput and reduce cycles times for economical high-volume production. The generous size of the T-slot tables easily accommodates multiple fixtures.

PRODUCTIVITY TOOLS MULTI-AXIS MACHINING

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

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.

Automate your setup process with our **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.

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.

Coolant Maintenance Package includes:

- Enclosure Exhaust System
- Coolant Tank Oil Skimmer
- Automatic Coolant Refill System

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, AND 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
- USB Port
- Advanced Tool Management

- 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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