



# CNC REFERENCE GUIDE

## 2025



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# VF-SERIES VERTICAL MACHINING CENTRES

## High-performance CNC mills

Haas Automation offers a wide range of CNC Vertical Machining Centres - one just right to meet the demands of your machine shop. Haas CNC machines offer an abundant menu of options, accessories and rotary products that allows you to fully tailor your machine.

Long before you start looking at options, you'll be impressed with the extensive standard features and capabilities packed into every machine. A Haas VMC is designed to provide the features and performance you need, making it the soundest investment you considered; providing more utility, flexibility and productivity than you've ever imagined.



**VF-1**  
 • Travels 508 x 406 x 508 mm  
 • 8,100 rpm • 40-Taper • 30 hp  
 • 20 Tool Carousel Changer  
 • (SMTC optional)



**VF-2**  
 • Travels 762 x 406 x 508 mm  
 • 8,100 rpm • 40-Taper • 30 hp  
 • 20 Tool Carousel Changer  
 • (SMTC optional)



**VF-2YT** **EXTENDED Y-AXIS**  
 • Travels 762 x 508 x 508 mm  
 • 8,100 rpm • 40-Taper • 30 hp  
 • 20 Tool Carousel Changer  
 • (SMTC optional)



**VF-3**  
 • Travels 1,016 x 508 x 635 mm  
 • 8,100 rpm • 40-Taper • 30 hp  
 • 20 Tool Carousel Changer  
 • (SMTC optional)



**VF-3YT** **EXTENDED Y-AXIS 40/50 TAPER**  
 • Travels 1,016 x 660 x 635 mm  
 • 8,100 rpm 40-Taper • 30 hp  
 • 20 Tool Carousel (SMTC option)  
 • 7,500 rpm 50-Taper  
 • 30+1 SMTC standard on 50-taper



**VF-4**  
 • Travels 1,270 x 508 x 635 mm  
 • 8,100 rpm • 40-Taper • 30 hp  
 • 20 Tool Carousel Changer  
 • (SMTC optional)



**VF-5** **40/50 TAPER**  
 • Travels 1,270 x 660 x 635 mm  
 • 8,100 rpm 40-Taper • 30 hp  
 • 20 Tool Carousel (SMTC option)  
 • 7,500 rpm 50-Taper  
 • 30+1 SMTC standard on 50-taper



**VF-5XT** **EXTENDED X-AXIS 40/50 TAPER**  
 • Travels 1,524 x 660 x 635 mm  
 • 8,100 rpm 40-Taper • 30 hp  
 • 20 Tool Carousel (SMTC option)  
 • 7,500 rpm 50-Taper  
 • 30+1 SMTC standard on 50-taper



**VF-6** **40/50 TAPER**  
 • Travels 1,626 x 813 x 762 mm  
 • 8,100 rpm 40-Taper • 30 hp  
 • 7,500 rpm 50-Taper • 30 hp  
 • 30+1 Side-Mount Tool Changer



**VF-7** **40/50 TAPER**  
 • Travels 2,134 x 813 x 762 mm  
 • 8,100 rpm 40-Taper • 30 hp  
 • 7,500 rpm 50-Taper • 30 hp  
 • 30+1 Side-Mount Tool Changer



**VF-8** **40/50 TAPER**  
 • Travels 1,626 x 1,016 x 762 mm  
 • 8,100 rpm 40-Taper • 30 hp  
 • 7,500 rpm 50-Taper • 30 hp  
 • 30+1 Side-Mount Tool Changer



**VF-9** **40/50 TAPER**  
 • Travels 2,134 x 1,016 x 762 mm  
 • 8,100 rpm 40-Taper • 30 hp  
 • 7,500 rpm 50-Taper • 30 hp  
 • 30+1 Side-Mount Tool Changer



**VF-10** **40/50 TAPER**  
 • Travels 3,048 x 813 x 762 mm  
 • 8,100 rpm 40-Taper • 30 hp  
 • 7,500 rpm 50-Taper • 30 hp  
 • 30+1 Side-Mount Tool Changer



**VF-11** **40/50 TAPER**  
 • Travels 3,048 x 1,016 x 762 mm  
 • 8,100 rpm 40-Taper • 30 hp  
 • 7,500 rpm 50-Taper • 30 hp  
 • 30+1 Side-Mount Tool Changer

**VF-12** **40/50 TAPER**  
 • Travels 3,810 x 813 x 762 mm  
 • 8,100 rpm 40-Taper • 30 hp  
 • 7,500 rpm 50-Taper • 30 hp  
 • 30+1 Side-Mount Tool Changer

**VF-14** **40/50 TAPER**  
 • Travels 3,810 x 1016 x 762 mm  
 • 8,100 rpm 40-Taper • 30 hp  
 • 7,500 rpm 50-Taper • 30 hp  
 • 30+1 Side-Mount Tool Changer

# SUPER SPEED VERTICALS

## Next generation high-speed machining centres

The Haas high-performance Super Speed vertical machining centres provide the high spindle speeds, fast rapids, and quick tool changes necessary for high-volume production and reduced cycle times.

The VF-series Super Speed machines feature a 30+1 side-mount tool changer, with chip-to-chip changes in 2.4 seconds.

The Super Speed direct-drive 12,000 rpm spindle system couples the drive directly to the spindle, which results in better surface finishes, extreme thermal stability and very quiet operation.



# HIGH SPEED DRILL MILL/TAP

## Compact high-speed machining centres

The DM and DT series compact, high-speed machining centres are built from proven Haas components and designs.



The drill mill/tap machines feature 10,000 rpm spindles as standard (12k, 15k options and a 20k option for DT models) fast 61 m/min rapids, high axis accelerations (1G) and 1.8 second tool change times.

These compact machines can reduce cycle times by more than 20% compared to the already fast Haas Super Speed VF-2SS.



### SUPER MINI MILL

- 406 x 356 x 381 mm
- 10,000 rpm (15k opt.)
- 30.5 m/min rapids
- 30+1 SMTC



### VF-2SS SUPER SPEED

- 762 x 406 x 508 mm
- 12,000 rpm Spindle (15k opt.)
- 30+1 Side Mount Tool Changer
- 35.6 m/min Rapids



### VF-2SSYT SUPER SPEED EXTENDED Y-AXIS

- 762 x 508 x 508 mm
- 12,000 rpm Spindle (15k opt.)
- 30+1 Side Mount Tool Changer
- 35.6 m/min Rapids



### VF-3SS SUPER SPEED

- 1,016 x 508 x 635 mm
- 12,000 rpm Spindle (15k opt.)
- 30+1 Side Mount Tool Changer
- 35.6 m/min Rapids



### VF-3SSYT SUPER SPEED EXTENDED Y-AXIS

- 1,016 x 660 x 635 mm
- 12,000 rpm Spindle (15k opt.)
- 30+1 Side Mount Tool Changer
- Tool-to-Tool 1.8 seconds
- 35.6 m/min Rapids



### VF-4SS SUPER SPEED

- 1,270 x 508 x 635 mm
- 12,000 rpm Spindle (15k opt.)
- 30+1 Side Mount Tool Changer
- Tool-to-Tool 1.8 seconds
- 35.6 m/min Rapids



### VF-5SS SUPER SPEED

- 1,270 x 660 x 635 mm
- 12,000 rpm Spindle (15k opt.)
- 30+1 Side Mount Tool Changer
- Tool-to-Tool 1.8 seconds
- 30.5 m/min Rapids



### VF-6SS SUPER SPEED

- 1,626 x 813 x 762 mm
- 12,000 rpm Spindle (15k opt.)
- 30+1 Side Mount Tool Changer
- Tool-to-Tool 2.3 seconds
- 30.5 m/min Rapids



### DT-1 DRILL AND TAP

- 508 x 406 x 394 mm
- 10,000 rpm Spindle • 30-Taper
- 20+1 Side Mount Tool Changer
- Rigid Tapping up to 5,000 rpm
- 61.0 m/min Rapids



### DT-2 DRILL AND TAP

- 711 x 406 x 394mm
- 10,000 rpm Spindle • 30-Taper
- 20+1 Side Mount Tool Changer
- Rigid Tapping up to 5,000 rpm
- 61.0 m/min Rapids



### DM-1 DRILL AND MILL

- 508 x 406 x 394mm
- 10,000 rpm Spindle • 40-Taper
- 18+1 Side Mount Tool Changer
- Rigid Tapping up to 5,000 rpm
- 61.0 m/min Rapids



### DM-2 DRILL AND MILL

- 711 x 406 x 394mm
- 10,000 rpm Spindle • 40-Taper
- 18+1 Side Mount Tool Changer
- Rigid Tapping up to 5,000 rpm
- 61.0 m/min Rapids



# VM-SERIES MOULD MAKERS

## Versatile machines for advanced mould making

We've taken our industry-leading VF-Series machines and created custom configurations to boost productivity for mould making, tool & die work, and other high-precision industries.



### VM-2 MOULD MAKER

- 762 x 508 x 508 mm
- 12,000 rpm Spindle (15k & 30k opt.)
- 30+1 Side Mount Tool Changer
- 18.0 m/min Rapids



### VM-3 MOULD MAKER

- 1,016 x 660 x 635 mm
- 12,000 rpm Spindle (15k & 30k opt.)
- 30+1 Side Mount Tool Changer
- 18.0 m/min Rapids



### VM-6 MOULD MAKER

- 1,626 x 813 x 762 mm
- 12,000 rpm (15k & 30k opt.)
- 30+1 Side Mount Tool Changer
- 15.2 m/min Rapids



*The optional 30-taper 20 hp spindle features back-to-back ceramic angular contact bearings, and mid-point automatic air/oil lubrication for long, trouble-free life.*

# 5-AXIS ARTICULATING SPINDLE

## Precision and performance for complex machining

Haas VR Series vertical machining centres are ideal when your 5-axis parts are too large to rotate using traditional rotary tables and trunnions. Each VR Series machine features a large T-slot table to easily support large workpieces and fixtures, and a powerful 2-axis gimbaled spindle head to access nearly any angle for complex shapes, undercuts, and 5-side machining.

Haas VR Series VMCs are cost-effective solutions for simultaneous 5-axis machining and 3+2 machining of large parts, such as airframe components, layup moulds, and composite structures.



### VR-8 5-AXIS

- Travels 1,626 x 1,016 x 1,067 mm
- 20,000 rpm Spindle
- HSK-A63 • 24 hp
- 50+1 Side-Mount Tool Changer



### VR-9 5-AXIS

- Travels 2,134 x 1,016 x 1,067 mm
- 20,000 rpm Spindle
- HSK-A63 • 24 hp
- 50+1 Side-Mount Tool Changer



### VR-11 5-AXIS

- Travels 3,048 x 1,016 x 1,067 mm
- 20,000 rpm Spindle
- HSK-A63 • 24 hp
- 50+1 Side-Mount Tool Changer

### VR-14 5-AXIS

- Travels 3,810 x 1,016 x 1,067 mm
- 20,000 rpm Spindle
- HSK-A63 • 24 hp
- 50+1 Side-Mount Tool Changer



5-AXIS ARTICULATING



# REDESIGNED MINI MILLS

## Compact high-performance machining centres

Breaking the traditional link between machine performance, size, and cost, the redesigned Mini Mill Series delivers 40-taper performance in compact packages at unbeatable prices.

The all new Mini Mill features enhanced FEA-optimized castings, increased travels, and faster 8,000 rpm spindle speeds, resulting in higher production output. It includes a new Y-axis washdown nozzle for improved chip flow and a 170 litre external coolant tank for simplified maintenance and the 10 pocket tool changer (20 pocket opt.) increases flexibility.

Ideal for space-constrained high-production shops, the new Mini Mills have opening side windows and seamlessly interface with Haas robot packages or the Compact APL for automation.

The Super Mini Mill features a 10,000 rpm spindle, a 30+1 side mount tool changer and even faster 30.5 m/min rapids.



- MINI MILL**
- 406 x 356 x 381 mm
  - 8,000 rpm spindle
  - 40-Taper • 7.5 hp
  - 10 or 20 pocket tool changer



- SUPER MINI MILL**
- 406 x 356 x 381 mm
  - 10,000 rpm (15k opt.)
  - 30.5 m/min rapids
  - 30+1 SMTC



- CM-1 COMPACT MILL**
- 305 x 254 x 356 mm
  - 30,000 rpm (50k opt.)
  - 20-Taper • 5 hp
  - 19.2 m/min rapids

# COMPACT AUTO PARTS LOADER

## Take your production to the next level

The Haas Compact Automatic Parts Loader is a simple and affordable way to automate part production and boost productivity, and it takes up only 1.0 x 1.2 m of floorspace. It is designed and built exclusively for use on Haas Mini Mill series, DTs, and DMs, and VF-2/2YT series VMCs.

Connecting directly to the Haas control, the easy-to-use interface in the Haas control guides you through a simple, step-by-step setup process that “teaches” the C-APL arm its positions. Its plug-and-play capabilities will have you fully automated in minutes, loading and unloading parts for unattended machining.



- COMPACT APL**
- Interfaces directly with Haas control
  - Compact footprint: 1.0 x 1.2 m
  - Parts up to 51 x 51 x 51 mm
  - Max part weight is 1.4 kg





# FUND YOUR NEXT STEP TODAY



## ASSET FINANCING TO HELP YOUR BUSINESS

Asset finance can be used by your business to purchase the equipment it needs to grow without overstressing its finances. The benefits of asset finance allow you to expand your business and fulfil new orders, whilst protecting working capital and any existing credit lines. Depending on the nature of your business, the assets concerned could be upgrades to equipment, machinery and company vehicles.

## FUNDING OPTIONS

### Hire purchase

We can offer hire purchase contracts, which give you immediate access to assets that you will own outright after completing a series of payments. This method involves you paying a deposit as well as fixed monthly instalments for the agreed term.

### Equipment leasing

This makes for a straightforward leasing agreement in which you rent the assets you need, but do not own them at the end of the term.

### Asset refinancing

These agreements are aimed at businesses that have already invested in equipment and which now need to release some of the capital tied up in those assets.

## TAKE THE NEXT STEP

Navigating your way through the different forms of lending banks and companies have to offer can be overbearing. Get in touch and we'll be able to help you find the perfect option to finance your business and let you take the next step.



# FUND YOUR NEXT STEP TODAY



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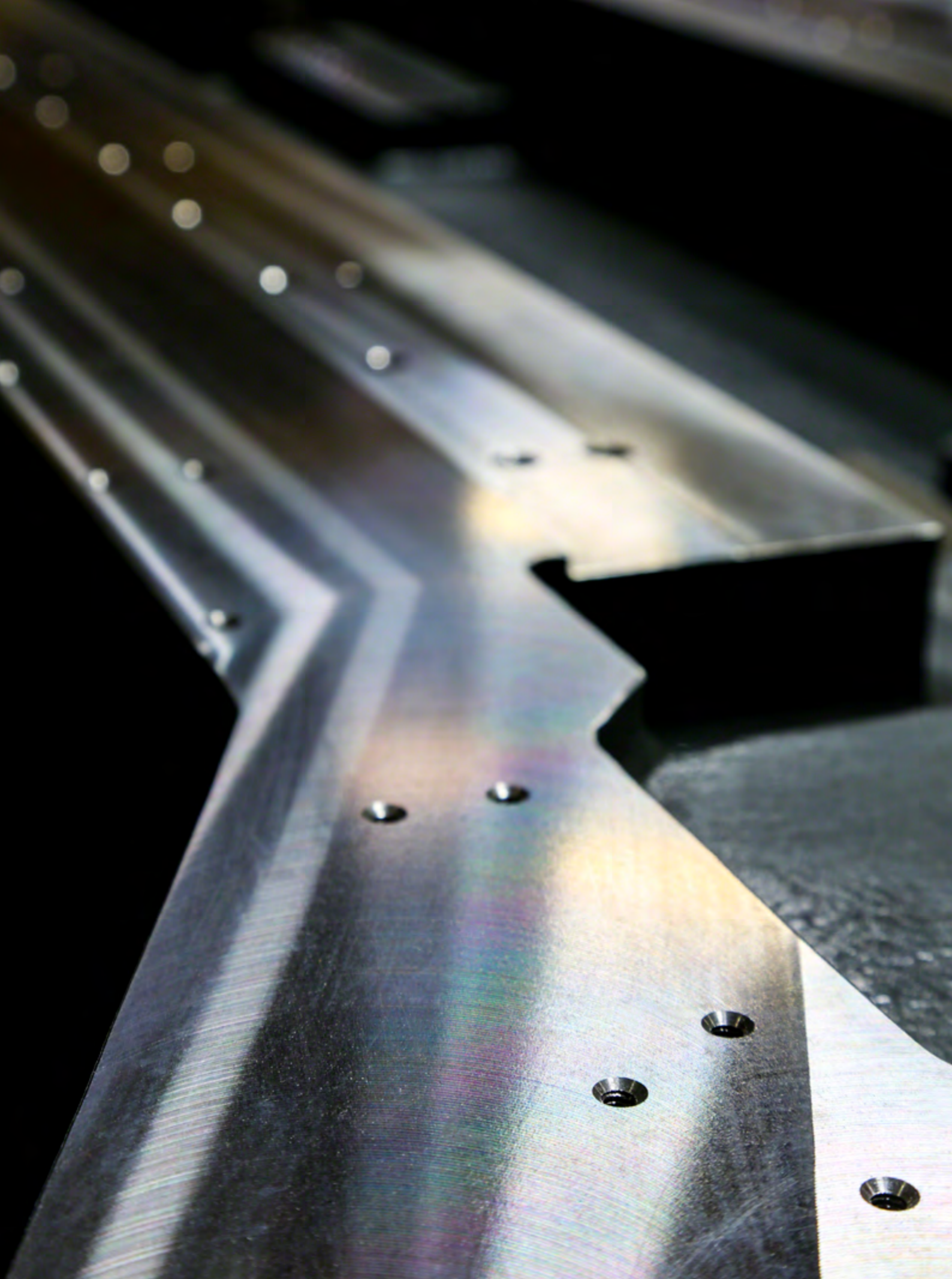
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# TOOLROOM MILLS

## TM-series CNC toolroom verticals

The TM Series Toolroom Mills are the true definition of value, providing full CNC capabilities, including available 4th- and 5th-axis functionality, at affordable prices. They combine the precision control of the Haas CNC system with the convenience of a manual machine, and are easy to learn and operate even without knowledge of G-code.

The TM-P models include a 10-pocket automatic tool changer, a faster spindle, and higher rapids.



- TM-OP** TOOL CHANGER
- 508 x 305 x 406 mm
  - 6,000 rpm Spindle
  - 40-Taper • 7.5 hp
  - 10 Tool Carousel Changer



- TM-1P** TOOL CHANGER
- 762 x 406 x 406 mm
  - 6,000 rpm Spindle
  - 40-Taper • 7.5 hp
  - 10 Tool Carousel Changer



- TM-2P** TOOL CHANGER
- 1,016 x 406 x 406 mm
  - 6,000 rpm Spindle
  - 40-Taper • 7.5 hp
  - 10 Tool Carousel Changer



- TM-0**
- 508 x 305 x 406 mm
  - Table 975 x 267 mm
  - 4,000 rpm Spindle
  - 40-Taper • 7.5 hp



- TM-1**
- 762 x 406 x 406 mm
  - Table 1,213 x 267 mm
  - 4,000 rpm Spindle
  - 40-Taper • 7.5 hp



- TM-2**
- 1,016 x 406 x 406 mm
  - Table 1,466 x 267 mm
  - 4,000 rpm Spindle
  - 40-Taper • 7.5 hp



## 5-AXIS TRUNNION VMCs

### Affordable 5-axis flexibility

The Haas Trunnion Series machines are versatile 5-axis machining centres that provide full simultaneous 5-axis motion for machining complex parts, or can position a workpiece to almost any angle for multi-side machining.

The VF-TR models have a removable dual-axis trunnion mounted to the standard T-slot table, which provides the flexibility to run the machine with or without the trunnion table installed.



#### VF-2TR 5-AXIS

- Travels 762 x 406 x 508 mm
- Dual-Axis Trunnion Table
- ± 120° Tilt, 360° Rotation
- 8,100 rpm Spindle
- 40-Taper • 30 hp
- Side-Mount Tool Changer



#### VF-5TR 5-AXIS 40/50 TAPER

- Travels 1,270 x 660 x 635 mm
- Dual-Axis Trunnion Table
- ± 120° Tilt, 360° Rotation
- 8,100 rpm 40-Taper • 30 hp
- 7,500 rpm 50-Taper • 30 hp
- Side-Mount Tool Changer



#### VF-6TR 5-AXIS 40/50 TAPER

- Travels 1,626 x 813 x 762 mm
- Dual-Axis Trunnion Table
- ± 120° Tilt, 360° Rotation
- 8,100 rpm 40-Taper • 30 hp
- 7,500 rpm 50-Taper • 30 hp
- Side-Mount Tool Changer

The VF-2TR features a TR-160 with a 160 mm platter (250 mm option also available). The VF-5TR features a TR-210 with a 210 mm platter (350 mm option also available), and the VF-6TR features a TR-310 with a 310 mm platter.

The VF-5TR and VF-6TR models are available in both 40-taper 8,100 rpm and 50-taper 7,500 rpm configurations. Super Speed spindle options are also available.





# UNIVERSAL MACHINING CENTRES

## The best selling 5-axis machines

The industry-leading Haas Universal Machining Centres have changed the landscape of the machine tool industry by making 5-axis machining simple, affordable, and accessible to everyone. Available in multiple sizes and configurations, Haas UMCs are the perfect job shop machines for reducing setups and increasing accuracy on multi-sided and complex parts and are versatile, cost-effective solutions for 3+2 machining and full simultaneous 5-axis machining.

The machines are packed with innovative features such as Tool Centre Point Control (TCPC) and Dynamic Work Offsets (DWO) to improve workflow and boost your productivity. The Super Speed models increase performance further with a faster spindle, a high-speed tool changer, and a faster trunnion table.



**UMC-500** 5-AXIS

- Travels 610 x 406 x 406 mm
- Dual-Axis Trunnion • 50°/Sec Tilt
- 400 mm Platter • 40-Taper
- 8,100 rpm Spindle (10k & 15k opt.)
- 30+1 SMTC (50+1 & 70+1 opt.)



**UMC-500SS** SUPER SPEED 5-AXIS

- Travels 610 x 406 x 406 mm
- Dual-Axis Trunnion • 179°/Sec Tilt
- 400 mm Platter • 40-Taper
- 12,000 rpm (15k opt.)
- 30+1 SMTC (50+1 & 70+1 opt.)



**UMC-750** 5-AXIS

- 762 x 508 x 508 mm
- Dual-Axis Trunnion • 50°/Sec Tilt
- 8,100 rpm Spindle (10k & 15k opt.)
- 500 mm Platter • 40-Taper
- 30+1 SMTC (50+1 & 70+1 opt.)



**UMC-750SS** SUPER SPEED 5-AXIS

- 762 x 508 x 508 mm
- Dual-Axis Trunnion • 170°/Sec Tilt
- 12,000 rpm Spindle (15k opt.)
- 500 mm Platter • 40-Taper
- 30+1 SMTC (50+1 & 70+1 opt.)



**UMC-1000** 5-AXIS

- Travels 1,016 x 635 x 635 mm
- Dual-Axis Trunnion • 50°/Sec Tilt
- 8,100 rpm Spindle (10k & 15k opt.)
- 635 mm Platter • 40-Taper
- 50+1 SMTC (70+1 opt.)



**UMC-1000SS** SUPER SPEED 5-AXIS

- Travels 1,016 x 635 x 635 mm
- Dual-Axis Trunnion 170°/Sec Tilt
- 12,000 rpm (15k opt.)
- 635 mm Platter • 40-Taper
- 50+1 SMTC (70+1 opt.)



**UMC-1250** 5-AXIS

- Travels 1,270 x 762 x 711 mm
- Dual-Axis Trunnion • 50°/Sec Tilt
- 8,100 rpm Spindle (10k & 15k opt.)
- 762 mm Platter • 40-Taper
- 50+1 SMTC (70+1 opt.)



**UMC-1250SS** SUPER SPEED 5-AXIS

- Travels 1,270 x 762 x 711 mm
- Dual-Axis Trunnion 170°/Sec Tilt
- 12,000 rpm (15k opt.)
- 762 mm Platter • 40-Taper
- 50+1 SMTC (70+1 opt.)



**UMC-1500-DUO** 5-AXIS

- Travels 1,524 x 508 x 508 mm
- Dual-Axis Trunnion • 50°/Sec Tilt
- 813 mm x 457 mm T-slot table
- 8,100 rpm Spindle (10k & 15k opt.)
- 500 mm Platter • 40-Taper
- 30+1 SMTC (50+1 & 70+1 opt.)



**UMC-1500SS-DUO** SUPER SPEED 5-AXIS

- Travels 1,524 x 508 x 508 mm
- Dual-Axis Trunnion • 170°/Sec Tilt
- 813 mm x 457 mm T-slot table
- 12,000 rpm Spindle (15k opt.)
- 500 mm Platter • 40-Taper
- 30+1 SMTC (50+1 & 70+1 opt.)

## Pallet Pools

Add a pallet-pool to your UMC-Series machine to take your production to the next level. With options for 6, 10 or 20 additional pallets, you can be sure your machine will be running "lights out".



5-AXIS MACHINES



# TRUNNION & TILTING TABLES

## 2-axis trunnion & tilting rotary tables

If you need a 5-axis solution for your 3-axis mill, look to the Haas trunnion and tilting rotary tables for a simple bolt-on solution for machining complex parts. The Haas dual-axis trunnion tables bolt directly to the mill's table to provide 5-axis simultaneous motion, or position parts to nearly any angle for multi-sided machining.



- TR70** **HIGH SPEED**  
**TILTING 5-AXIS**
- 70 mm Platter
  - Tilt  $\pm 120^\circ$  Rotation 360°
  - 410°/Sec (Tilt)
  - 410°/Sec (Rotary)
  - Resolution 0.001°



- TR100** **SUPER HIGH SPEED**  
**TILTING 5-AXIS**
- 100 mm Platter
  - Tilt  $\pm 120^\circ$  Rotation 360°
  - 1,000°/Sec (Tilt)
  - 1,000°/Sec (Rotary)
  - Resolution 0.001°



- TR160** **TILTING 5-AXIS**
- 160 mm Platter
  - Tilt  $\pm 120^\circ$  Rotation 360°
  - 104°/Sec (Tilt)
  - 104°/Sec (Rotary)
  - Resolution 0.001°



- TR210** **TILTING 5-AXIS**
- 230 mm Platter
  - Tilt  $\pm 120^\circ$  Rotation 360°
  - 80°/Sec (Tilt)
  - 100°/Sec (Rotary)
  - Resolution 0.001°



- TR310** **TILTING 5-AXIS**
- 310 mm Platter
  - Tilt  $\pm 120^\circ$  Rotation 360°
  - 50°/Sec (Tilt)
  - 75°/Sec (Rotary)
  - Resolution 0.001°



- TR160** **TRUNNION 5-AXIS**
- 160 mm Platter (250 mm opt.)
  - Tilt  $\pm 120^\circ$  Rotation 360°
  - 80°/Sec (Tilt)
  - 80°/Sec (Rotary)
- TR160-2** with twin platter available



- TR200Y** **TRUNNION 5-AXIS**
- 200 mm Platter
  - Tilt  $\pm 120^\circ$  Rotation 360°
  - 100°/Sec (Tilt)
  - 130°/Sec (Rotary)
  - Resolution 0.001°



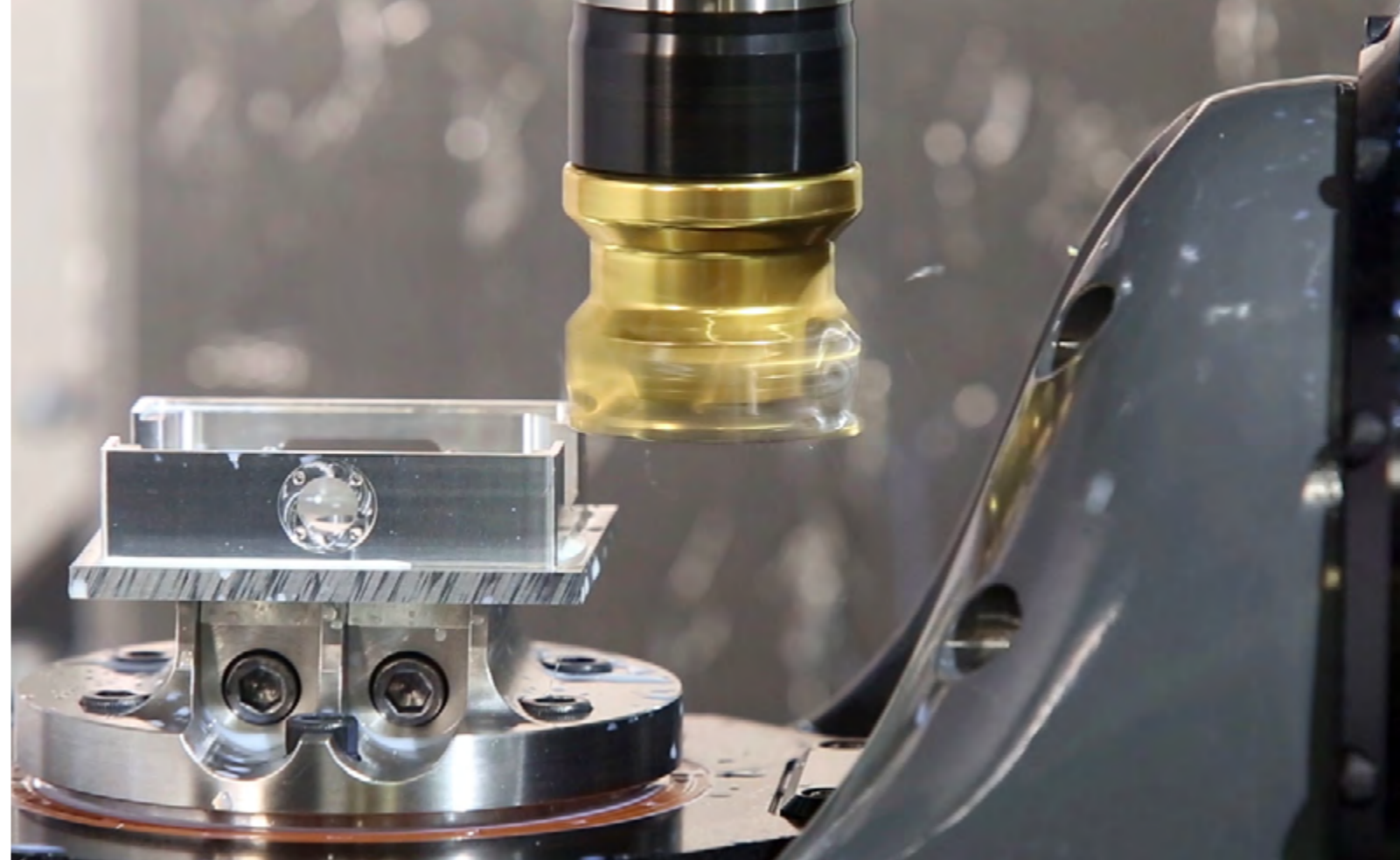
- TR210** **TRUNNION 5-AXIS**
- 210 mm Platter (350 mm opt.)
  - Tilt  $\pm 120^\circ$  Rotation 360°
  - 60°/Sec (Tilt)
  - 60°/Sec (Rotary)
  - Resolution 0.001°



- TR310** **TRUNNION 5-AXIS**
- 310 mm Platter
  - Tilt  $\pm 120^\circ$  Rotation 360°
  - 50°/Sec (Tilt)
  - 50°/Sec (Rotary)
  - Resolution 0.001°



- TR500SS** **HIGH SPEED**  
**TRUNNION 5-AXIS**
- 500 mm Platter
  - Tilt  $\pm 120^\circ$  Rotation 360°
  - 170°/Sec (Tilt)
  - 179°/Sec (Rotary)
  - Resolution 0.001°



## MAKING 5-AXIS EASIER

### Dynamic Work Offsets and Tool Centre Point Control

Dynamic Work Offsets (DWO) and Tool Centre Point Control (TCPC) are software features in the Next Generation Control that greatly simplify multi-axis machining when using 4- and 5-axis rotary tables. DWO/TCPC eliminates the need to locate the workholding in precisely the same place, or repost the part program every time a job is set up.

With DWO/TCPC the Haas control recognises the part position and creates the correct toolpath, regardless of the workholding position, greatly reducing set-up time or reposting time.



### WITH DWO/TCPC THERE'S NO NEED TO:

- ✗ Place the part in the exact same location every time
- ✗ Repost the program when the fixture changes
- ✗ Repost the program if the job moves to another Haas machine

### DWO/TCPC CHANGES EVERYTHING:

- ✓ Save time on programming and setup
- ✓ Reduce fixturing costs
- ✓ Increase your number of multi-axis operators
- ✓ Increase your productivity and profits



# ROTARY TABLES

## 5C collet indexers

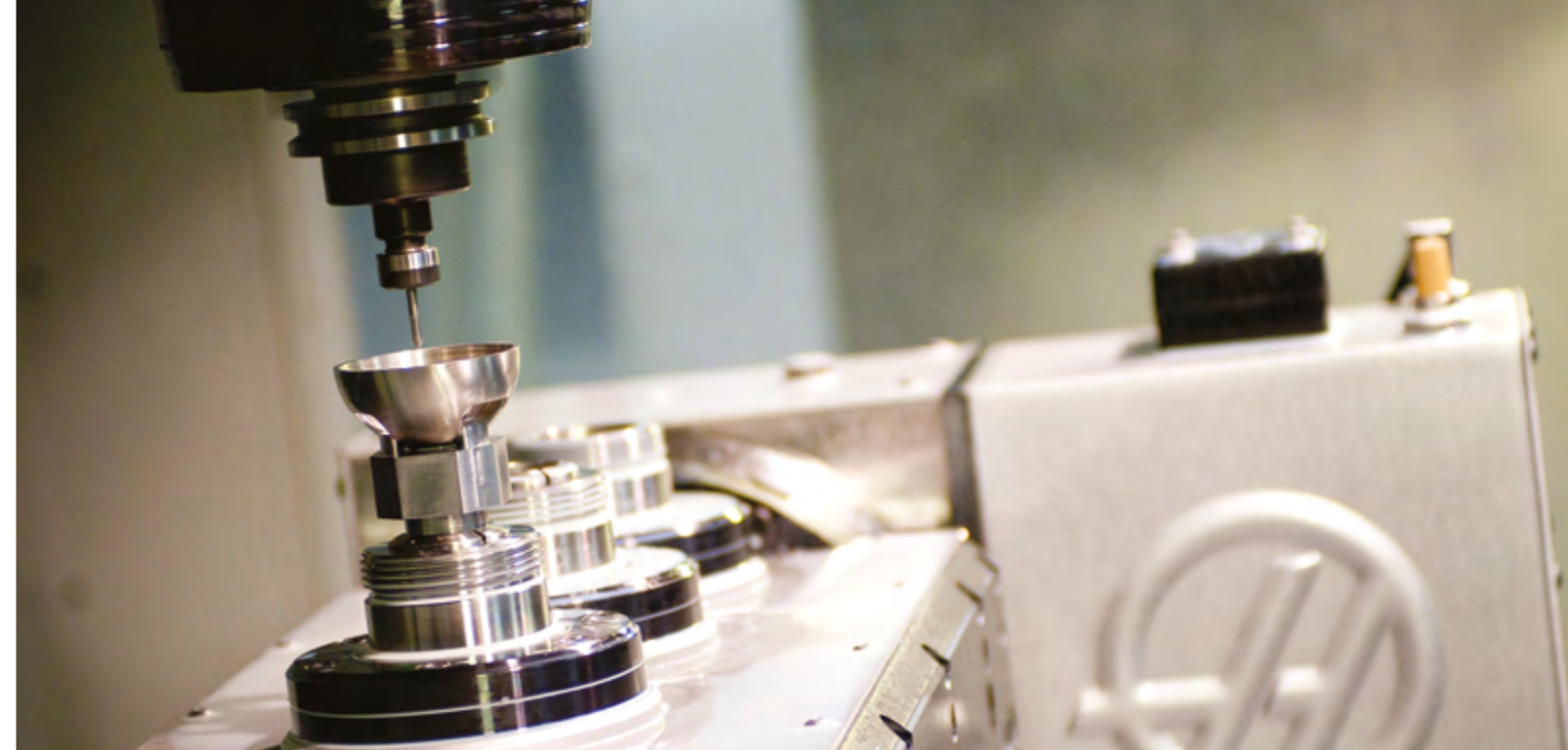
The Haas HA5C series is the ideal choice for holding smaller parts. Clamp your parts using standard 5C collets, or chuck them by threading a 3-jaw chuck to the spindle nose. Collets can be closed with your choice of a manual handle or an optional air collet closer.

The HA5C series is easy to program, interface, and set up. With over three decades of refinement, the Haas HA5C is the industry benchmark for quality, accuracy, and dependability.

## Platter-style rotary tables

for holding medium to large parts or fixtures, the HRT series of T-slotted rotary tables is the answer. Available with platter sizes from 100 mm to 1,000 mm, these rugged, heavy-duty tables can be mounted vertically or horizontally for added versatility.

Chucks and fixtures can easily be bolted to the table using the six precision T-slots, and large through-holes allow for bar feeding and special fixture-locating requirements.



**HA5C** 4-AXIS  
 • Torque 81 Nm  
 • 410°/sec  
 • Resolution 0.001°



**HA5C2** 4-AXIS  
 • Torque 34 Nm  
 • 200°/sec  
 • Resolution 0.001°



**HA5C3** 4-AXIS  
 • Torque 34 Nm  
 • 200°/sec  
 • Resolution 0.001°



**HA5C4** 4-AXIS  
 • Torque 34 Nm  
 • 200°/sec  
 • Resolution 0.001°



**T5C** TILTING 5-AXIS  
 • Tilt ±120° Rotation 360°  
 • 410°/sec (Rotary)  
 • 60°/sec (Tilt)  
 • Resolution 0.001°



**T5C2** TILTING 5-AXIS  
 • Tilt ±120° Rotation 360°  
 • 200°/sec (Rotary)  
 • 60°/sec (Tilt)  
 • Resolution 0.001°



**T5C3** TILTING 5-AXIS  
 • Tilt ±120° Rotation 360°  
 • 200°/sec (Rotary)  
 • 60°/sec (Tilt)  
 • Resolution 0.001°



**T5C4** TILTING 5-AXIS  
 • Tilt ±120° Rotation 360°  
 • 200°/sec (Rotary)  
 • 60°/sec (Tilt)  
 • Resolution 0.001°



**HA2TS** 4-AXIS TWIN TAILSTOCK  
 • Dual Spindle  
 • Twin Pneumatic Tailstocks  
 • Precision T-Slot Baseplate



**HA5CS** 4-AXIS SUPER HIGH SPEED  
 • Torque 27 Nm  
 • 725°/sec  
 • Resolution 0.001°



**HRTA5** 4-AXIS A1 SPINDLE NOSE  
 • A1-5 Spindle Nose  
 • 130°/sec  
 • Repeatability 10 arc-sec



**HRTA6** 4-AXIS A1 SPINDLE NOSE  
 • A1-6 Spindle Nose  
 • 100°/sec  
 • Repeatability 10 arc-sec



**HRT100** 4-AXIS  
 • 100 mm Platter  
 • 300°/sec  
 • Resolution 0.001°



**HRT160** 4-AXIS  
 • 160 mm Platter  
 • 130°/sec  
 • Resolution 0.001°



**HRT160SS** 4-AXIS HIGH SPEED  
 • 160 mm Platter  
 • 500°/sec  
 • Resolution 0.001°



**HRT160SP** 4-AXIS COMPACT  
 • 160 mm Platter  
 • 130°/sec  
 • Resolution 0.001°



**HRT210** 4-AXIS  
 • 210 mm Platter  
 • 100°/sec  
 • Resolution 0.001°



**HRT210SS** 4-AXIS HIGH SPEED  
 • 210 mm Platter  
 • 490°/sec  
 • Resolution 0.001°



**HRT210SP** 4-AXIS COMPACT  
 • 210 mm Platter  
 • 100°/sec  
 • Resolution 0.001°



**HRT1602** 4-AXIS  
 • 160 mm Platters  
 • 80°/sec  
 • Resolution 0.001°



**TH240** 4-AXIS THROUGH HOLE  
 • 240 mm Platter • 100°/sec  
 • 50.8 mm Through-hole  
 • Resolution 0.001°



**HRT310** 4-AXIS  
 • 310 mm Platter  
 • 75°/sec  
 • Resolution 0.001°



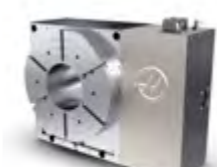
**HRT310SP** 4-AXIS COMPACT  
 • 310 mm Platter  
 • 75°/sec  
 • Resolution 0.001°



**HRT310SS** 4-AXIS HIGH SPEED  
 • 310 mm Platter • 240°/sec



**TH450** 4-AXIS THROUGH HOLE  
 • 450 mm Platter • 75°/sec  
 • 82.55 mm Through-hole  
 • Resolution 0.001°



**HRT450** 4-AXIS  
 • 450 mm Platter  
 • 50°/sec  
 • Resolution 0.001°



**HRT630** 4-AXIS  
 • 630 mm Platter  
 • 50°/sec  
 • Resolution 0.001°



**HRT1000** 4-AXIS  
 • 1,000 mm Platter  
 • 35°/sec

**HRT800** also available



# DESIGNED, BUILT & PROGRAMMED BY HAAS

CNC machining is complex  
Your control shouldn't be

## Simple Navigation

Navigation is fast and simple, with consistent functionality of the cursor keys, and intuitive icons throughout the user experience.



## Touchscreen

Our Touchscreen interface speeds up programming and simplifies control navigation, by allowing window selection, data entry, and other control functions without using the standard keypad.



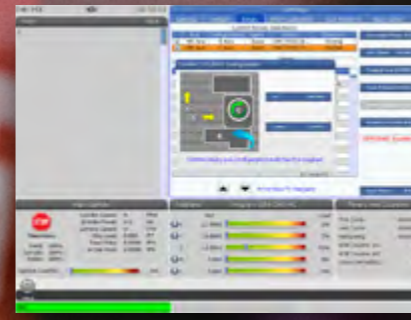
## Accessible Icons

The enhanced operator Help interface features easy-to-understand icons that provide quick access to information about any feature or option within the control.



## Rotary Set Up

Set up and configure your rotary table with simple, on-screen dialogue and icons, and quickly designate rotary axes to correspond to the rotary table's orientation.



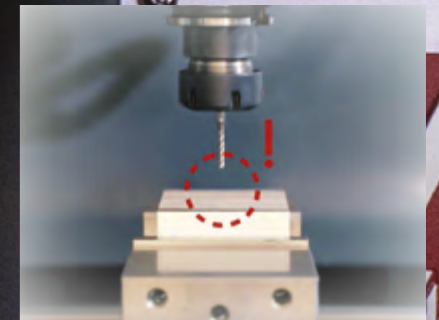
## Programming

The Haas Visual Programming System (VPS) lets you quickly create G-code programs for both basic and complex part features and operations, using form-like templates to define the features.



## Safe Run

See how the Safe Run feature in the Haas control can detect unexpected contact, and instantly stop the machine to prevent significant damage.



## My Haas

In the shop or on the go, MyHaas puts everything you need to know about your CNC machines in one convenient place. Create your account today, so you can:

- Manage your fleet of machines
- Access HaasConnect
- Save and manage your machine quotes



## Haas Drop

HaasDrop Wireless File Transfer is a fast and convenient method for sending images, videos, and even program files from a mobile device directly to the Next-Generation Control on a Haas CNC machine. Simply download the free app for Android and iOS devices, and start transferring files directly to the Haas control.



## HaasConnect

HaasConnect is a machine monitoring system that provides instant alerts for machine status via email. The Haas Next Generation Control has the ability to send you, and others you designate, email notifications about the operating status of your Haas machine. Set up is simple and easy through the MyHaas Portal at HaasCNC.com. HaasConnect is free with every new Haas machine.



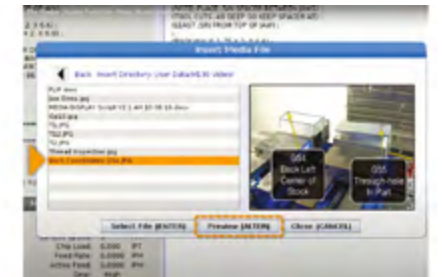
## On-Board Memory

The NGC has 1 GB of standard program memory. This means you'll have the ability to store many programs in the control, eliminating the need for an external device for program backup. Large programs for complex molds, for example, can now be run from memory, doing away with the connectivity issues often experienced when running from DNC or FNC. Expandable to 64 GB.



## WiFi/Ethernet

All Haas machines come standard with built-in Ethernet and WiFi connectivity for fast, wired or wireless communication between the Haas control and a local area network. Use WiFi to easily share and transfer files wirelessly, and monitor your machine remotely via HaasConnect mobile machine monitoring. It is easily set up through the Haas control, and supports Netshare capabilities.



## Media Display Function

Easily place pictures and videos in your program to make sure your operators have all the information they need to run the job correctly. The Haas M130 Media Display M-Code is a powerful tool for communicating with machine operators and programmers directly from the Haas control as an NC program runs.





# HORIZONTAL MACHINING CENTRES

## Get the horizontal advantage

The EC Series HMCs are rugged 40 and 50-taper horizontal machining centres with large work cubes and a maximum part capacity from 400 kg to 4,500 kg. The machines are available with a full 4-axis rotary platter integrated into the T-slot table to provide access to four sides of a part or tombstone, a 5-axis model is also available. The UMC-1600-H features a 630 mm rotary table mounted on its integrated 4th-axis platter to provide 3+2 positioning and full 5-axis motion for machining large parts.



**EC-400** 4-AXIS

- 559 x 635 x 559 mm
- 8,100 rpm (10k, 12k, 15k opt.)
- 40-Taper • 30 hp
- 50+1 SMTC (100+1 opt.)
- Dual 400mm pallet changer

**EC-500** 4-AXIS

- 813 x 635 x 711 mm
- 8,100 rpm (10k, 12k, 15k opt.)
- 40-Taper • 30 hp
- 50+1 SMTC (100+1 opt.)
- Dual 500mm pallet changer

**EC-500/50** 4-AXIS 50-TAPER

- 813 x 635 x 711 mm
- 7,500 rpm (10k opt.)
- 50-Taper • 30 hp
- 50+1 Side Mount Tool Changer
- Dual 500mm pallet changer

**EC-630** 4-AXIS 50-TAPER

- 1016 x 940 x 1016 mm
- 7,500 rpm (10k opt.)
- 50-Taper • 30 hp
- 50+1 Side Mount Tool Changer
- Dual 630mm pallet changer



**EC-1600** 50-TAPER

- 1,626 x 1,270 x 813 mm
- 7,500 rpm (10k opt.)
- 50-Taper • 30 hp
- 50+1 Side Mount Tool Changer

**EC-1600ZT** 50-TAPER

- 1,626 x 1,270 x 1,016 mm
- 7,500 rpm (10k opt.)
- 50-Taper • 30 hp
- 50+1 Side Mount Tool Changer

**UMC-1600-H** 5-AXIS 50-TAPER

- 1,626 x 1,270 x 1,016 mm
- 7,500 rpm (10k opt.)
- 630 mm rotary platter
- 257 mm through bore
- 50+1 Side Mount Tool Changer



Our 6+1 pallet pool for the EC-400 is perfect for high-volume production runs, or high-mix/low-volume machining. The pallets can be scheduled individually according to priority and sequencing requirements, allowing high-priority parts to be machined first or staged more often.

Completed pallets are returned automatically to the holding location, or can be sequenced to a protected operator station for immediate unloading and re-loading.





# HAAS ST-SERIES LATHES

## High-performance turning centres

The Haas ST Series high-performance turning centres were designed from the ground up to provide setup flexibility, extreme rigidity, and high thermal stability. The result is high accuracy, consistent repeatability and superb surface finishes, while maintaining dependability and value-based pricing.

The Haas ST-Series turning centres offer the best combination of performance and value in their class and are available with a wide selection of high-productivity options, including bar feeders and auto parts loaders.



**ST-10**  
 • Max Cut Ø 305 x L 406 mm  
 • Bar Capacity 44 mm  
 • A2-5 • 6,000 rpm • 15 hp  
 • Chuck 165 mm



**ST-10L** LONG BED  
 • Max Cut Ø 305 x L 826 mm  
 • Bar Capacity 44 mm  
 • A2-5 • 6,000 rpm • 15 hp  
 • Chuck 165 mm



**ST-15** BIG BORE  
 • Max Cut Ø 305 x L 406 mm  
 • Bar Capacity 64 mm  
 • A2-6 • 4,000 rpm • 20 hp  
 • Chuck 210 mm



**ST-15L** BIG BORE LONG BED  
 • Max Cut Ø 305 x L 826 mm  
 • Bar Capacity 64 mm  
 • A2-6 • 4,000 rpm • 20 hp  
 • Chuck 210 mm



**ST-20**  
 • Max Cut Ø 330 x L 572 mm  
 • Bar Capacity 64 mm  
 • A2-6 • 4,000 rpm • 20 hp  
 • Chuck 210 mm



**ST-20L** LONG BED  
 • Max Cut Ø 330 x L 1,080 mm  
 • Bar Capacity 64 mm  
 • A2-6 • 4,000 rpm • 20 hp  
 • Chuck 210 mm



**ST-25** BIG BORE  
 • Max Cut Ø 330 x L 572 mm  
 • Bar Capacity 76 mm  
 • A2-6 • 3,400 rpm • 30 hp  
 • Chuck 254 mm



**ST-25L** BIG BORE LONG BED  
 • Max Cut Ø 330 x L 1,080 mm  
 • Bar Capacity 76 mm  
 • A2-6 • 3,400 rpm • 30 hp  
 • Chuck 254 mm



**ST-28**  
 • Max Cut Ø 330 x L 572 mm  
 • Bar Capacity 102 mm  
 • A2-8 • 3,200 rpm • 40 hp  
 • Chuck 305 mm



**ST-28L** LONG BED  
 • Max Cut Ø 330 x L 1,080 mm  
 • Bar Capacity 102 mm  
 • A2-8 • 3,200 rpm • 40 hp  
 • Chuck 305 mm



**ST-30**  
 • Max Cut Ø 381 x L 826 mm  
 • Bar Capacity 76 mm  
 • A2-6 • 3,400 rpm • 30 hp  
 • Chuck 254 mm



**ST-30L** LONG BED  
 • Max Cut Ø 381 x L 1,588 mm  
 • Bar Capacity 76 mm  
 • A2-6 • 3,400 rpm • 30 hp  
 • Chuck 254 mm



**ST-35** BIG BORE  
 • Max Cut Ø 381 x L 826 mm  
 • Bar Capacity 102 mm  
 • A2-8 • 3,200 rpm • 40 hp  
 • Chuck 305 mm



**ST-35L** BIG BORE LONG BED  
 • Max Cut Ø 381 x L 1,588 mm  
 • Bar Capacity 102 mm  
 • A2-8 • 3,200 rpm • 40 hp  
 • Chuck 305 mm



**ST-40**  
 • Max Cut Ø 648 x L 1,118 mm  
 • Bar Capacity 102 mm  
 • A2-8 • 2,400 rpm  
 • 40 hp (55 hp opt.) • Chuck 381 mm

**ST-40L** LONG BED  
 • Max Cut Ø 648 x L 2,032 mm  
 • Bar Capacity 102 mm  
 • A2-8 • 2,400 rpm  
 • 40 hp (55 hp opt.) • Chuck 381 mm



# LARGE THROUGH-BORE LATHES

## High-performance big-bore turning centres

The high-torque spindles and large through-bores of these machines make them ideal for machining heavy pipes and fittings, large couplers, and long rollers. Their versatile design allows easy loading and unloading of large parts. The large-capacity Haas lathes offer the best combination of performance and value in their class.

- ST-45** **BIG BORE**
- Max Cut Ø 648 x L 1,118 mm
  - Spindle Bore 178 mm
  - A2-11 • 40 hp (55 hp opt.)
  - 1,400 rpm

- ST-45L** **BIG BORE LONG BED**
- Max Cut Ø 648 x L 2,032 mm
  - Spindle Bore 178 mm
  - A2-11 • 40 hp (55 hp opt.)
  - 1,400 rpm



# DUAL-SPINDLE/Y-AXIS TURNING CENTRE

## “Done-In-One” solution for multi-op parts

The DS-30Y Y-axis turning centre combines dual-spindle turning with Y-axis, C-axis, and live tooling to create a powerful “done-in-one” machining solution for any shop.

Off-centre milling, drilling, and tapping operations are possible for increased machining capabilities.

It comes standard with a 12-station BMT65 turret and synchronized C-axis for versatile 4-axis capability. The opposed spindles support fully synchronised turning, and allow on-the-fly part pass-off to reduce cycle times.

The DS-30Y has a medium footprint, yet provides a generous work envelope.



- DS-30** **DUAL SPINDLE Y-AXIS**
- Max Cut Ø 349 x L 826 mm
  - Spindle Bore 88.9 mm
  - Chuck 254mm • Secondary Chuck 210 mm
  - Main Spindle 30hp • 4,000 rpm

# HAAS CL-1 CHUCKER LATHE

## Ultra-compact CNC turning centre

The innovative CL-1 is an ultra-compact CNC chucker lathe that comes standard with an 8-station automatic turret, making it ideal for dedicated small-part production, second-op parts, or short runs.

It's perfect for prototyping small parts, such as those found in the communications, aerospace, medical, and dental industries.

The CL-1 can be moved easily with a pallet jack and is small enough to fit into most freight lifts.



- CL-1** **CHUCKER LATHE**
- 5C Collet • 5 hp
  - Max Bar Ø 25.4 mm
  - Rigid Tapping
  - 6,000 rpm
  - 8-Station Automatic Tool Turret

# TOOLROOM LATHES

## The new generation TL-Series

The TL-1 and TL-2 Toolroom Lathes have undergone a complete redesign, with new enclosures and better overall performance.

Both machines have an A2-5 spindle nose with a 58 mm bore and come with a 203 mm 3-jaw manual chuck.

The spindles are powered by a 10 hp motor, and spin to 1,800 rpm, with a 3,000-rpm option.

Rapids have increased to 11.4 m/min on both X and Z axes, and an optional manual tailstock is available for additional part support.



- TL-1** **TOOLROOM**
- Max Cut Ø 406 x L 762 mm
  - Spindle Bore 58 mm
  - 10 hp • A2-5
  - 1,800 rpm (3k opt.)

- TL-2** **TOOLROOM**
- Max Cut Ø 406 x L 1,219 mm
  - Spindle Bore 58 mm
  - 10 hp • A2-5
  - 1,800 rpm (3k opt.)

TURNING CENTRES  
TOOLROOM LATHES





# HAAS Y-AXIS TURNING CENTRES

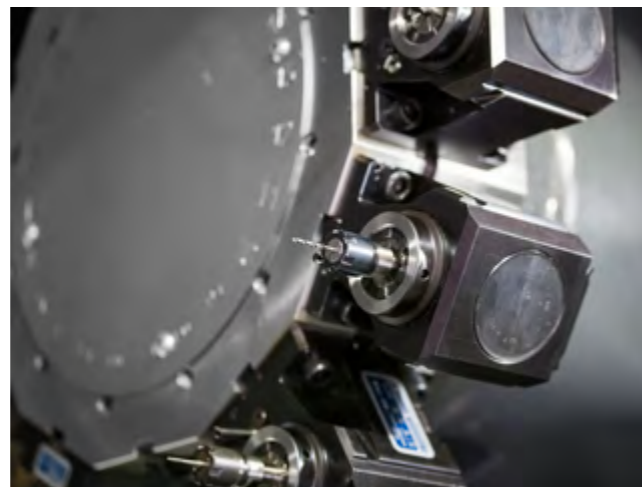
## Multiple operations on a single machine

The Haas Y-axis lathes provide the ability to turn and mill complex parts and perform multiple operations on a single machine – increasing throughput, reducing handling, and improving part accuracy. The lathes have ± 51 mm Y-axis (ST-40Y & ST-45Y have ± 76 mm Y-axis) and a full C-axis that provides interpolated bidirectional motion at precise speeds and feeds for part positioning and repeatability.

### BMT45 • BMT65 • BMT75 Turrets

The Haas 12-station BMT turrets with live tooling lets you perform secondary operations – milling, drilling, slotting, and tapping – on the face of the part and around the perimeter.

The BMT system provides increased rigidity, superior cutting performance, longer tool life, and better tool clearance. The BMT turret offers a half-station indexing option that increases your available tool stations to 24, with 12 stations able to accept driven tools.



- ST-10Y** Y-AXIS
- Max Cut Ø 279 x L 406 mm
  - Bar Capacity 44 mm
  - 165 mm Chuck • 6,000 rpm
  - 6,000 rpm Live Tooling w/C axis



- ST-10LY** LONG BED Y-AXIS
- Max Cut Ø 279 x L 826 mm
  - Bar Capacity 44 mm
  - 165 mm Chuck • 6,000 rpm
  - 6,000 rpm Live Tooling w/C axis



- ST-15Y** BIG BORE Y-AXIS
- Max Cut Ø 279 x L 406mm
  - Bar Capacity 64 mm
  - 210 mm Chuck • 4,000 rpm
  - 6,000 rpm Live Tooling w/C axis



- ST-15LY** BIG BORE LONG BED Y-AXIS
- Max Cut Ø 279 x L 826 mm
  - Bar Capacity 64 mm
  - 210 mm Chuck • 4,000 rpm
  - 6,000 rpm Live Tooling w/C axis



- ST-20Y** Y-AXIS
- Max Cut Ø 298 x L 572 mm
  - Bar Capacity 64 mm • BMT65
  - 210 mm Chuck • 4,000 rpm
  - 6,000 rpm Live Tooling w/C axis



- ST-20LY** LONG BED Y-AXIS
- Max Cut Ø 298 x L 1,080 mm
  - ±51.0 mm Y-Axis • BMT65
  - 210 mm Chuck • 4,000 rpm
  - 6,000 rpm Live Tooling w/C axis



- ST-25Y** Y-AXIS
- Max Cut Ø 298 x L 572 mm
  - Bar Capacity 76 mm • BMT65
  - 254 mm Chuck • 3,400 rpm • 30 hp
  - 6,000 rpm Live Tooling w/C axis



- ST-25LY** BIG BORE LONG BED Y-AXIS
- Max Cut Ø 298 x L 1,080 mm
  - Bar Capacity 76 mm • BMT65
  - 254 mm Chuck • 3,400 rpm • 30 hp
  - 6,000 rpm Live Tooling w/C axis



- ST-28Y** Y-AXIS
- Max Cut Ø 298 x L 572 mm
  - Bar Capacity 102 mm • BMT65
  - 254 mm Chuck • 3,200 rpm • 40hp
  - 6,000 rpm Live Tooling w/C axis



- ST-28LY** LONG BED Y-AXIS
- Max Cut Ø 298 x L 1,080 mm
  - Bar Capacity 102 mm • BMT65
  - 254 mm Chuck • 3,200 rpm • 40hp
  - 6,000 rpm Live Tooling w/C axis



- ST-30Y** BIG BORE Y-AXIS
- Max Cut Ø 349 x L 826 mm
  - Bar Capacity 76 mm • BMT65
  - A2-6 • 3,400 rpm • 30 hp
  - 6,000 rpm Live Tooling w/C axis



- ST-30LY** LONG BED Y-AXIS
- Max Cut Ø 349 x L 1,588 mm
  - Bar Capacity 76 mm • BMT65
  - A2-6 • 3,400 rpm • 30 hp
  - 6,000 rpm Live Tooling w/C axis



- ST-35Y** BIG BORE Y-AXIS
- Max Cut Ø 349 x L 826 mm
  - Bar Capacity 102 mm • BMT65
  - 305 mm Chuck • 3,200 rpm • 40hp
  - 6,000 rpm Live Tooling w/C axis



- ST-35LY** BIG BORE LONG BED Y-AXIS
- Max Cut Ø 349 x L 1,588 mm
  - Bar Capacity 102 mm • BMT65
  - 305 mm Chuck • 3,200 rpm • 40hp
  - 6,000 rpm Live Tooling w/C axis



- ST-40Y** Y-AXIS
- Max Cut Ø 699 x L 1,188 mm
  - Bar Capacity 102 mm • BMT75
  - 381 mm Chuck • 2,400 rpm • 40hp
  - 4,000 rpm Live Tooling w/C axis



- ST-45Y** BIG BORE Y-AXIS
- Max Cut Ø 699 x L 1,188 mm
  - Bar Capacity 177.8 mm • BMT75
  - A2-11 • 1,400 rpm • 40hp
  - 4,000 rpm Live Tooling w/C axis

Y-AXIS LATHES



Adding Robot Automation –

# THE OLD WAY

- 1 BUY A MACHINE
- 2 HIRE AN INTEGRATOR
- 3 GO SOMEWHERE ELSE AND BUY A ROBOT
- 4 LEARN THE MACHINE CONTROL
- 5 LEARN THE ROBOT CONTROL
- 6 LEARN THE CELL CONTROL
- 7 AND IF THERE'S A PROBLEM, WHO DO YOU CALL?

Adding Robot Automation –

# THE HAAS WAY

Fully Integrated, Plug-and-Play Robot Package =  
Machine + Robot + Integration + Single Control + Haas Service



**7kg**  
HAAS ROBOT  
PACKAGE-1  
911 mm Reach



**25kg**  
HAAS ROBOT  
PACKAGE-2  
1831 mm Reach



**50kg**  
HAAS ROBOT  
PACKAGE-3  
2050 mm Reach



ROBOT PACKAGES



No complex connections  
No third-party integration

# INTEGRATED ROBOT SYSTEMS



**7kg**

HAAS ROBOT PACKAGE-1

911 mm Reach

**25kg**

HAAS ROBOT PACKAGE-2

1831 mm Reach

**50kg**

HAAS ROBOT PACKAGE-3

2050 mm Reach

## FULLY INTEGRATED, 6-AXIS ROBOT SYSTEM 7 KG CAPACITY

- Plug-and-play capabilities to:
- VF-1 through VF-2/YT/SSYT
  - DT-1/2 & DM-1/2
  - ST-10 through ST-15 lathes (inc. Y-axis and longbed)



## FULLY INTEGRATED, 6-AXIS ROBOT SYSTEM 25 KG CAPACITY

- Plug-and-play capabilities to:
- VF-2YT through VF-5/50XT
  - UMC-500 through UMC-1000/SS
  - ST-20 through ST-35 lathes (inc. Y-axis and longbed)



## FULLY INTEGRATED, 6-AXIS ROBOT SYSTEM 50 KG CAPACITY

- Plug-and-play capabilities to:
- VF-5/40 through VF-12/50
  - ST-20 through ST-35 lathes (inc. Y-axis and longbed)



Lights-out automation  
Uninterrupted production

# AUTOMATIC PARTS LOADER SYSTEMS



## HAAS APL FOR LATHES

- Plug-&-play capabilities ST-10Y, 15Y, 20/Y, 25/Y, 28/Y lathes
- Interfaces directly with the Haas control
- Slug parts up to 147 x 127 mm (dia x height)
- ST-10 to ST-15: Bar parts up to 102 x 406 mm (dia x length)
- ST-20 to ST-28: Bar parts up to 102 x 533 mm (dia x length)

## HAAS APL FOR MILLS

- Plug-&-play capabilities VF-1, VF-2 series, DT & DM
- Interfaces directly with the Haas control
- Parts up to 146 x 146 x 102mm
- Max weight 4.5 kg

## COMPACT APL MINI MILL

- Parts up to 51 x 51 x 51 mm
- Max weight 1.4 kg

## HAAS APL FOR UMC-500/SS

- Plug-&-play capabilities to UMC-500 and UMC-500SS
- Interfaces directly with the Haas control
- Parts up to 152 x 152 x 102 mm
- Max weight 4.5 kg

N.B. Includes CE/UKCA compliant safety guard fencing



# PALLET POOL SYSTEMS

High-volume production  
Unattended operation

The Haas Pallet Pool System is the simplest automation platform, expanding your mill table setup across multiple pallets. Allocate pallets to various jobs and prioritise each using the onboard, user-friendly Haas scheduler. This system enables flexible job management, allowing you to skip, pause, or fit in rush jobs, and features a dedicated load/unload station maximising spindle uptime and overall productivity.

Ideal for larger and heavier parts, the pallet pool simplifies clamping and unclamping, handling parts too large for typical loaders like APLs or robots. This ensures efficient automation for a broader range of parts, leveraging the full 24 hours each day.

## 6-STATION PALLET POOL EC-400

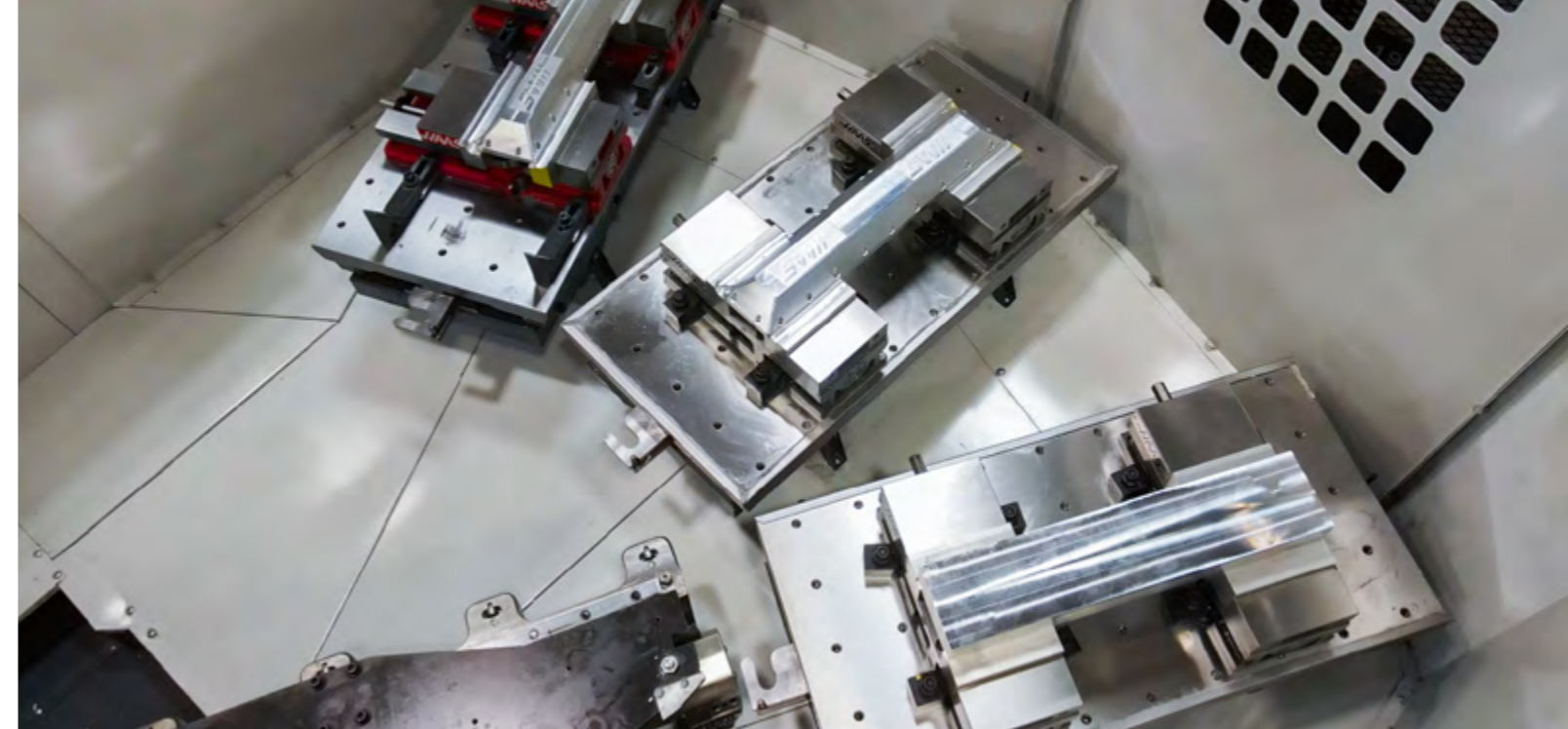
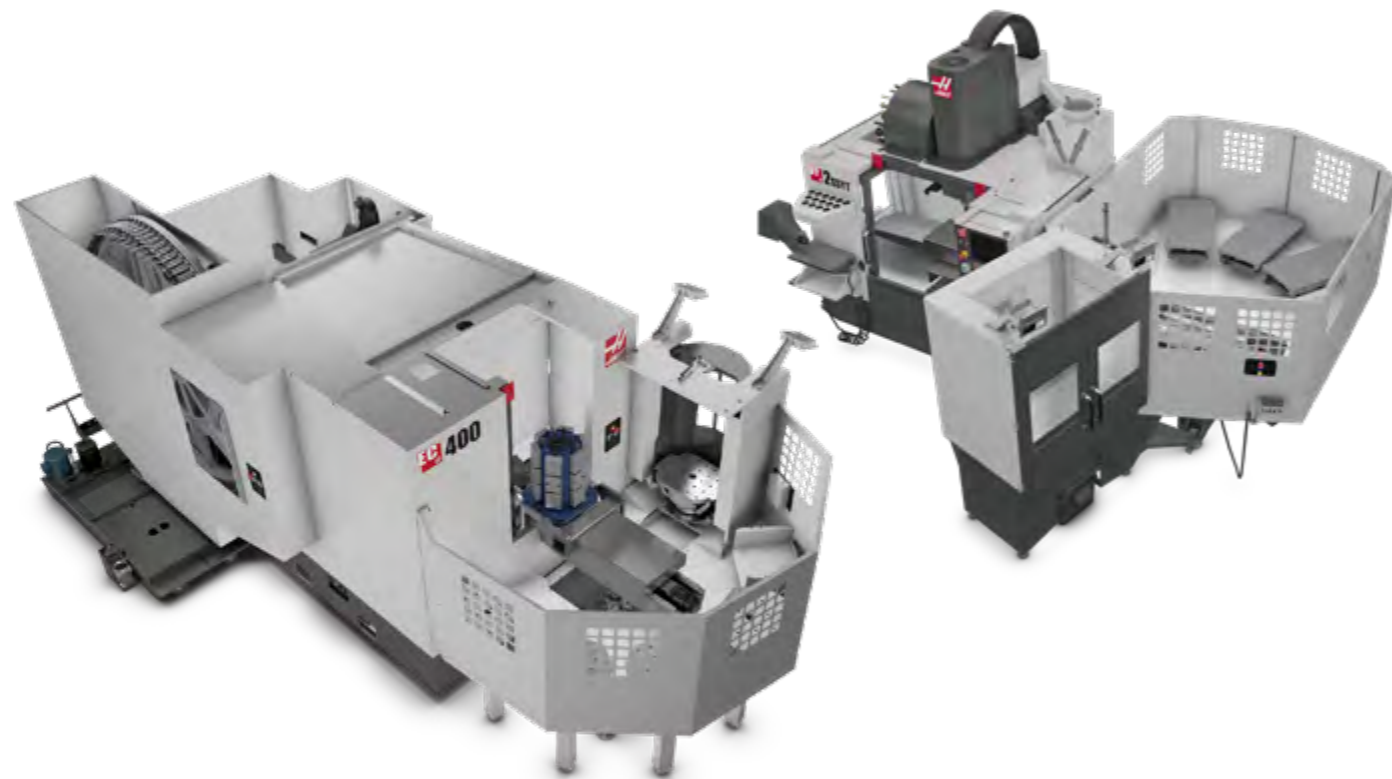
- 6+1 pallets
- Pallet size: 400 x 400 mm
- 227 kg max payload per pallet

## 5-STATION PALLET POOL VF-4 & VF-4SS

- 5+1 pallets
- Pallet size: 1,321 x 517 mm
- 453.6 kg max payload per pallet

## 3- & 6-STATION PALLET POOLS VF-2YT SERIES/VM-2

- 3+1 pallet and 6+1 pallet versions
- Pallet size: 914 x 457 mm
- 340 kg max payload per pallet



## 10-STATION PALLET POOL UMC-500/SS/750/SS/1000/SS

- 10+1 pallets
- Includes 360 litre coolant tank
- 91 kg max payload per pallet
- UMC-500: 406 x 406 mm work envelope
- UMC-750/UMC-1000: 406 x 533 mm work envelope

## 20-STATION PALLET POOL UMC-500/SS

- 20+1 pallets
- Includes 360 litre coolant tank
- 91 kg max payload per pallet
- 203 x 419 mm tall work envelope

## 6-STATION PALLET POOL UMC-1250/SS

- 6+1 pallets
- Includes 360 litre coolant tank
- 227 kg max payload per pallet
- 762 x 610 mm work envelope





# ROBOTIC PALLET LOADER SYSTEM

Scaleable, affordable pallet loading solution

The Haas Robotic Pallet Loader System offers total flexibility and easy customisation for Haas UMCs and small to medium VMCs. Its all-inclusive, plug-and-play design lets you start simple and expand as needed, customising the pallet rack layout to fit your projects. You can adjust the system effortlessly to match your changing requirements, ensuring optimal performance for every job.



- Plug-and-play capabilities to Haas UMCs, and small and medium VMCs
- Set up and operation are done with the Haas control and remote jog handle
- Includes interface for optional area scanners and safety systems
- Includes load station, pallet rack, and 3 zero point pallets
- Additional pallets available, expandable to 15 pallets
- For UMC-500 to UMC-1000 and VF1 to VF-5



## EASY CUSTOMISATION

Customise the layout of the pallet station grid to optimise your project. If your needs change, you can change the pallet station.

## ASSIGN PART MASS

The only set up needed from part to part is entering the raw/finished part mass per pallet.

## PALLET SCHEDULER

The Pallet Schedule Table allows you to prioritise pallet frequency and priority for loading and unloading the pallets.

## TOUCHSCREEN GRID VIEW

The grid view is fully touch capable, making it easier to select a pallet that corresponds to what the user sees on the shelf.

# AUTOMATIC BAR FEEDER

Purpose built for Haas lathes

The Haas Bar Feeder is a simple and affordable way to automate part production on Haas ST and DS series turning centres to boost productivity. It is designed and built exclusively for use on Haas turning centres and connects directly to the Haas control.

Our rollaway design lets you swap out the patented Haas extruded spindle liners in minutes, and our quick-change pushrods snap in place without tools. Bar height adjustments are fast and easy using a single handwheel, and our belt-driven bar-shuttle system provides lightning-fast retract speeds to reduce cycle times.

All-inclusive design, with plug-and-play capabilities  
 Interfaces directly with the Haas control  
 Includes patented Haas spindle liners





# MILL AUTOMATION



# LATHE AUTOMATION

## MILL PALLET POOLS



**VMC**

**3+1 Pallet Pool**  
VF-2YT VM-2  
VF-2SSYT

**6+1 Pallet Pool**  
VF-2YT VM-2  
VF-2SSYT



**5+1 Pallet Pool**  
VF-4  
VF-4SS



**6+1 Pallet Pool**  
EC-400

**UMC**

**10+1 Pallet Pool**  
UMC-500 UMC-500SS  
UMC-750 UMC-750SS  
UMC-1000 UMC-1000SS



**20+1 Pallet Pool**  
UMC-500  
UMC-500SS



**6+1 Pallet Pool**  
UMC-1250  
UMC-1250SS

## MILL AUTOMATIC PARTS LOADERS



**MILL AUTOMATIC PARTS LOADER**  
VF-1 VM-2  
VF-2 VF-2YT  
VF-2SS VF-2SSYT



**UMC AUTOMATIC PARTS LOADER**  
UMC-500  
UMC-500SS



**COMPACT AUTOMATIC PARTS LOADER**  
Mini Mill DTs VF-2 VF-2YT  
Super Mini Mill DMs VF-2SS VF-2SSYT  
DC-1

## MILL ROBOTS



**7kg CAPACITY ROBOT SYSTEM**  
DT/DM Models  
VF-1 to VF-2  
UMC-500  
UMC-500SS



**25kg CAPACITY ROBOT SYSTEM**  
VF-1 to VF-5  
UMC-500  
UMC-500SS  
UMC-750 UMC-750SS  
UMC-1000 UMC-1000SS



**50kg CAPACITY ROBOT SYSTEM**  
VF-6 to VF-11



**ROBOTIC PALLET LOADER**  
All UMCs  
VF-1 to VF-5  
VM-2, VM-3

## LATHE ROBOTS



**7kg CAPACITY ROBOT SYSTEM**  
ST-10 to ST-28



**25kg CAPACITY ROBOT SYSTEM**  
ST-20 to ST-35  
DS-30Y



**50kg CAPACITY ROBOT SYSTEM**  
ST-30 to ST-35

## LATHE AUTOMATIC PARTS LOADERS



## HAAS BAR FEEDER



**HAAS BAR FEEDER**  
ST-10 to ST-35



**LATHE AUTOMATIC PARTS LOADER**  
ST10Y ST-20 ST-25 ST-28  
ST-15Y ST-20Y ST-25Y ST-28Y

## AUTOMATION STARTS WITH ASKING THE RIGHT QUESTIONS.

### WHAT?

Free up existing talent to work on more meaningful tasks, and allow a machine to deal with the repetitive loading and unloading of parts. Automation is the best, most logical progression for growing your business.

### WHY?

Because your competition is already doing it. Automation is essential to control your costs, maximise your efficiency, and maintain a competitive edge – to ensure your future. Automation has become an absolute necessity.

### HOW?

*There is no one size fits all solution.* We offer a number of automation systems designed to fit your specific needs. Choose from a wide selection of pre-engineered solutions, with an emphasis on **Ease, Affordability, and Versatility.**



### Easy Mill Automation

STEP-AND-REPEAT PROCESS  
UTILIZE THE SAME PROGRAMS  
HIGH-VOLUME/LOW-MIX & LOW-VOLUME/HIGH-MIX  
PRELOAD ALL PARTS



### Affordable Mill Automation

LOW INVESTMENT  
RUNS MULTIPLES OF THE SAME PART  
SIMPLE LOAD/UNLOAD PART PROCESSING  
AUTOMATED CLAMP/UNCLAMP FIXTURING



### Versatile Mill Automation

CAN PICK-UP/DROP-OFF AT DIFFERENT LOCATIONS  
INCORPORATE PART-FLIPPING STATION  
RUNS MULTIPLES OF THE SAME PART  
AUTOMATED CLAMP/UNCLAMP FIXTURING



### Easy Lathe Automation

EASY FIRST-OP AUTOMATION  
RUNS MULTIPLES OF THE SAME PART  
INTERFACES DIRECTLY WITH THE HAAS CONTROL  
AUTO-FEED MATERIAL UP TO 3" (76 MM) DIA.



### Affordable Lathe Automation

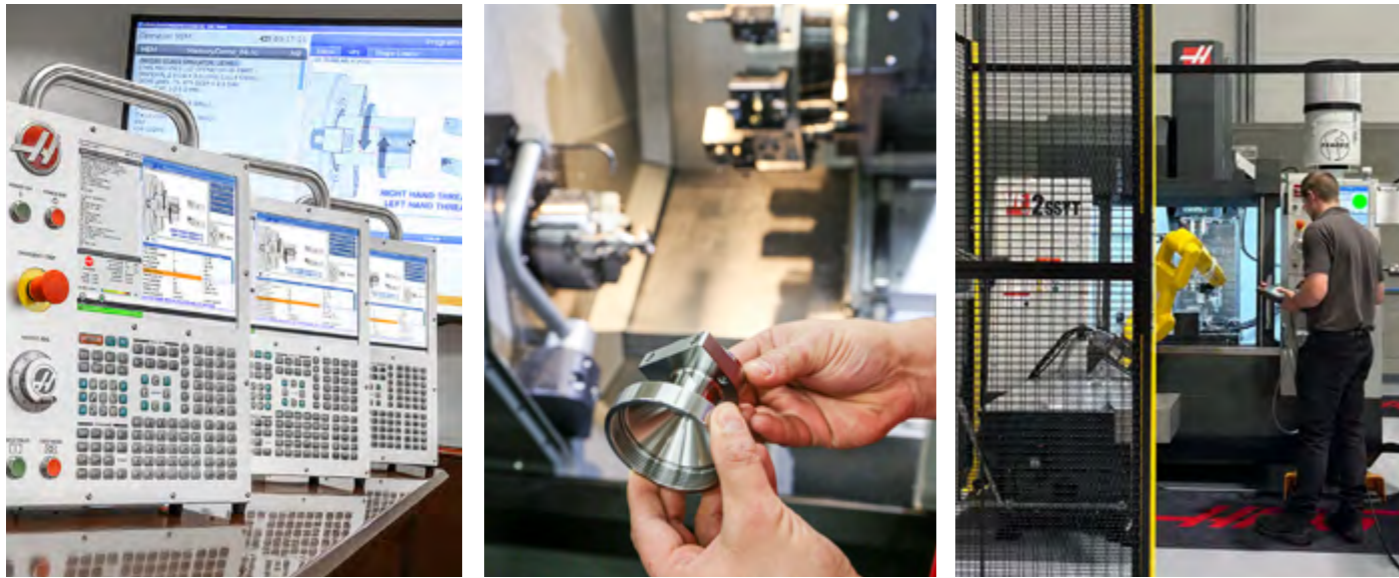
LOW INVESTMENT  
SIMPLE LOAD/UNLOAD PART PROCESSING  
RUNS MULTIPLES OF THE SAME PART  
SET UP AND PROGRAM THROUGH HAAS CONTROL



### Versatile Lathe Automation

MOST VERSATILE AUTOMATION CHOICE  
CAN PICK-UP/DROP-OFF AT DIFFERENT LOCATIONS  
INCORPORATE PART FLIPPING STATION  
SET UP AND PROGRAM THROUGH HAAS CONTROL





## HAAS ENGINEERING

At Haas, our goal is to keep machinists machining

We offer a complete range of cost-effective support, including commissioning, training, technical support, service agreements, and applications advice. We measure every aspect of our support systems so we can maintain our service to industry-leading standards.

Whether it's installing new equipment, training your machining staff, solving a technical problem, or helping to maintain the health and performance of your investment, you can count on our experienced team.

## EXPERT ADVICE

Friendly, expert advice whenever you need it

Our dedicated engineering support team is on hand to give you answers to the widest range of technical queries, including applications, maintenance, programming and the latest products.

Call us on 01603 760539



## COMMON PARTS

Maximising parts availability

Haas Automation's efficient design uses common parts across multiple machines and model ranges. For example, a control processor board can fit any current machine from a Mini Mill to multi-pallet horizontal, a coolant pump from a mill will fit a lathe and vice versa.

Every Haas machine, including the control, is entirely designed and built by us, this means we can ensure there are always parts available. In fact, we can supply spares for any Haas built since 1990. It's reassuring to know no matter how old your investment is we've got it covered.

## SUPPORT & SUPPLY CHAIN

The industry's largest UK stock of spares

Haas Automation's UK facilities stock service and maintenance parts worth in excess of £4,600,000 enabling the fastest access and delivery. If necessary, parts can be shipped same day from our European or USA inventories.

## Expertise where it's needed

In addition, all our service engineers' training and expertise is formalised within a skills matrix, which works hand-in-hand with van location tracking and a live connection to the Haas Management System for our engineers in the field. This ensures the most appropriate individual can be quickly despatched to a customer.

## The best first call fix rate

Our engineers can access and update customer and machine history remotely and check out the appropriate bar-coded spares. Having the right spares where and when they're needed means more than 95% of issues are resolved on the first visit.







## SAVE 5% ON YOUR ENERGY BILL



We know that saving energy not only helps our planet, but also saves you money.

For the past 10+ years, all Haas machines have come standard with FREE features designed to limit energy consumption in your shop! Compared to other manufacturers, Haas is the best energy-saving machine available.

The 5 settings below can be accessed easily through the Haas control, and can start saving you money at the flick of a switch!

SERVO/HYDRAULICS SHUTOFF  
SETTING 216

CONVEYOR EFFICIENCY  
SETTING 114/115

SLEEP MOD  
M95

POWER OFF AT M30  
SETTING 2

LCD/BACKLIGHT OFF  
SETTING 199

Discover more at [haas.co.uk/energy](https://haas.co.uk/energy)



## COME AND SEE US BOOK A DEMONSTRATION

See a selection of Haas CNC machines in action at one of our Haas Technical Centres. Call **01603 760539** to book your appointment.



## THE INDUSTRY'S BEST SERVICE AND SUPPORT

- ✓ 32 full-time Haas engineers strategically placed across the UK
- ✓ Less than 1.5 hours travel time to 98% of our customers
- ✓ Each is USA-factory-certified and tested monthly
- ✓ Every engineer has a fully-stocked 4x4 service vehicle
- ✓ £38,000 of parts on board each 4x4 service vehicle
- ✓ £4,600,000 of parts in our UK warehouses
- ✓ Over 11,000 UK machine installations, with 280,000 globally
- ✓ Winners of multiple industry awards



01603 760539

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[www.haas.co.uk](https://www.haas.co.uk)





**NEW**



**Haas**  
F1 Team  
OFFICIAL MACHINE TOOL

THE MACHINES THAT  
DEFINED A CATEGORY  
**MINI MILL**  
**REDESIGNED**

