

NEW



CNC GUIDE



www.haas.co.uk

BOOST PRODUCTION **PAGE 18** **AFFORDABLE 5-AXIS**

NEW



**LARGE TRAVELS
SMALL PRICES**

PAGE 15

NEW



**EASY PLUG & PLAY
ROBOT PACKAGES**

PAGE 36

NEW



**FULLY INTEGRATED
PALLET POOLS**

PAGE 40



4		VERTICALS
6		SUPER SPEED VMC
8		5-AXIS ARTICULATING
10		MINI MILLS
15		TOOL ROOM MILLS
16		5-AXIS VERTICALS
20		ROTARY TABLES
26		HORIZONTALS
28		TURNING CENTRES
31		TOOL ROOM LATHES
32		Y-AXIS LATHES
36		ROBOT PACKAGES
40		PALLET POOL SYSTEMS



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 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

SUPER SPEED VMCs

NEXT GENERATION HIGH-SPEED MILLS

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.



- SMM-1** SUPER MINI MILL
- 406 x 305 x 254 mm
 - 10,000 rpm (15k opt.)
 - 40-Taper • 15 hp
 - 30.5 m/min Rapids



- SMM-2** SUPER MINI MILL
- 508 x 406 x 356 mm
 - 10,000 rpm (15k opt.)
 - 40-Taper • 15 hp
 - 30.5 m/min Rapids



- 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

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.



- 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

MOULD MAKING MACHINES

VM-SERIES MOULD MAKERS

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 MACHINES

VR-SERIES 5-AXIS ARTICULATING SPINDLE MACHINING CENTRES

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



MINI MILLS & SUPER MINI MILLS

COMPACT HIGH-PERFORMANCE MACHINING CENTRES

Machine performance once was paired with size and cost. The Mini Mill Series changed everything, by packing 40-taper performance into small packages at unheard of prices.

Haas Automation's Mini Mills are the industry standard for compact machining centres, they take up little shop floor space, yet provide a generous work envelope.

Handling small-parts manufacturing - they're ideal for finishing work and cutting aluminium, yet also provide enough low-end torque to cut steel.



MMM-1 MODULAR MINI MILL

- 406 x 305 x 254 mm
- 4,000 rpm Spindle
- 40-Taper • 7.5 hp



MM-2 MINI MILL

- 508 x 406 x 356 mm
- 6,000 rpm Spindle
- 40-Taper • 7.5 hp



SMM-1 SUPER MINI MILL

- 406 x 305 x 254 mm
- 10,000 rpm (15k opt.)
- 30.5 m/min Rapids



SMM-2 SUPER MINI MILL

- 508 x 406 x 356 mm
- 10,000 rpm (15k opt.)
- 40-Taper • 15 hp
- 30.5 m/min Rapids



CM-1 COMPACT MILL

- 305 x 254 x 356 mm
- 30,000 rpm (50k opt.)
- 20-Taper • 5 hp
- 19.2 m/min Rapids



AUTO PARTS LOADER

TAKE YOUR PRODUCTION TO THE NEXT LEVEL

The Automatic Parts Loader (APL) is a simple way to automate part production on Haas VF-1 through VF-2 size vertical machining centres, including SS, VM and YT models and the UMC-500 and UMC-500SS.

The easy-to-use interface in the Haas control guides you through a simple, step-by-step setup process that "teaches" the APL arm its positions, and has you fully automated in minutes, loading and unloading parts for unattended machining.

- ✓ All-inclusive design, with plug-and-play capabilities
- ✓ Haas VF-1 through VF-2 size VMCs & UMC-500/SS
- ✓ Interfaces directly with the Haas control
- ✓ Accommodates parts up to 152 x 152 mm and 4.5 kg
- ✓ Includes light curtain for safe operation



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



Haas Financial Services
Convent Road
Norwich
NR2 1PA

01603 227838
finance@haas.co.uk

Asset Financial Services Ltd
trading as Haas Financial Services
Registered No. 12373760

Asset Financial Engineering Ltd
trading as Haas Financial Services
Registered No. 12379851



Haas Financial Services is a trading name of Asset Financial Services Ltd and Asset Financial Engineering Ltd.

Asset Financial Services Ltd is a broker not a lender and an appointed representative of AFS Compliance Ltd, which is authorised and regulated by the Financial Conduct Authority No. 625035. Asset Financial Services Ltd is a franchisee of Asset Finance Solutions (UK) Ltd.

Haas Automation Ltd is an introducer appointed representative of Asset Financial Services Ltd.



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-0P 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
- $\pm 120^\circ$ Tilt, 360° Rotation
- 8,100 rpm • 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
- $\pm 120^\circ$ 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
- $\pm 120^\circ$ 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.



UMC-SERIES UNIVERSAL MACHINING CENTRES

THE BEST SELLING 5-AXIS MACHINES

The Haas UMC-Series 5-axis machines 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 (TCP) 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-350HD 5-AXIS

- Travels 381 x 356 x 305 mm
- Dual-Axis Trunnion • 80°/Sec Tilt
- 230 mm Platter • 40-Taper
- 10,000 rpm Spindle (15k opt)
- 18 +1 SMTC



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)
- 635 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.)
- 635 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 POOL

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".



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 + 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.



Stay in the loop. Simple. Easy.



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



- 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

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.

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.)



BMT45 & BMT65 TURRETS WITH LIVE-TOOLING

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.

DOUBLE YOUR TOOL CAPACITY TO 24 TOOLS

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.



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 and a full C-axis that provides interpolated bidirectional motion at precise speeds and feeds for part positioning and repeatability.



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-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-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-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
- 46,000 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

HAAS BAR FEEDER → AUTOMATE PART PRODUCTION

The Haas Bar Feeder is a simple and affordable way to automate part production on Haas ST 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



AUTO PARTS LOADER → TAKE YOUR PRODUCTION TO THE NEXT LEVEL

The Haas Automatic Parts Loader is a simple and affordable way to automate part production and boost productivity on Haas turning centres.

The easy-to-use interface in the Haas control guides you through a simple, step-by-step setup process that “teaches” the APL arm its positions, and has you fully automated in minutes, loading and unloading parts for unattended machining.

- ✓ All-inclusive design, with plug-and-play capabilities
- ✓ Haas ST-10Y through ST-25 turning centres
- ✓ Interfaces directly with the Haas control
- ✓ Accommodates parts up to Ø 147 mm x L 127 mm and 4.5 kg
- ✓ Includes light curtain for safe operation

SLUG LOADING



SHAFT LOADING



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

PLUG & PLAY

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

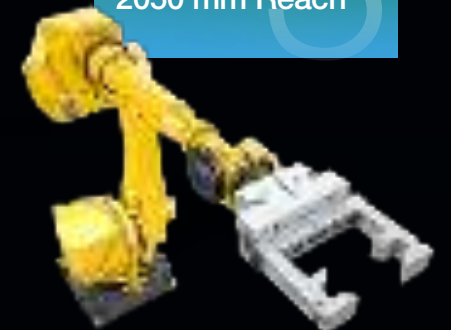
1831 mm Reach



50kg

HAAS ROBOT
PACKAGE-3

2050 mm Reach



Be fully automated in a few hours, not days or weeks. ➔



HAAS ROBOT PACKAGES

PLUG & PLAY

No complex connections
No third-party integration
No additional costs
Direct Haas Control

Includes:

6-axis robot, software interface for direct control through the Haas machine, electrical interface box, safety guarding, and all necessary solenoids, hardware, and cables.

EASILY ADAPT
THE HAAS ROBOT
SYSTEMS TO MEET
YOUR NEEDS ➔

7kg HRP-1



25kg HRP-2



50kg HRP-3



VMC HRP-1

DT-1	20" x 16" 15.5" (xyz) 508" x 406" 394" mm
DT-2	28" x 16" 15.5" (xyz) 711" x 406" 394" mm
DM-1	20" x 16" 15.5" (xyz) 508" x 406" 394" mm
DM-2	28" x 16" 15.5" (xyz) 711" x 406" 394" mm
VF-1	20" x 16" x 20" (xyz) 508 x 406 x 508 mm
VF-2	30" x 16" x 20" (xyz) 762 x 406 x 508 mm
VF-2SS Super Speed	30" x 16" x 20" (xyz) 762 x 406 x 508 mm
VF-2TR Trunnion	30" x 16" x 20" (xyz) 762 x 406 x 508 mm
VF-2SSYT Super Speed	30" x 20" x 20" (xyz) 762 x 508 x 508 mm
VF-2YT	30" x 20" x 20" (xyz) 762 x 508 x 508 mm

VMC HRP-2

VF-2SSYT Super Speed	30" x 20" x 20" (xyz) 762 x 508 x 508 mm
VF-2YT	30" x 20" x 20" (xyz) 762 x 508 x 508 mm
VF-3	40" x 20" x 25" (xyz) 1016 x 508 x 635 mm
VF-3YT	40" x 26" x 25" (xyz) 1016 x 660 x 635 mm
VF-3SS Super Speed	40" x 20" x 25" (xyz) 1016 x 805 x 635 mm
VF-3SSYT Super Speed	40" x 26" x 25" (xyz) 1016 x 660 x 635 mm
VF-4	50" x 20" x 25" (xyz) 1270 x 508 x 635 mm
VF-4SS Super Speed	50" x 20" x 25" (xyz) 1270 x 805 x 635 mm
VF-5/40	50" x 26" x 25" (xyz) 1270 x 660 x 635 mm
VF-5/50XT	60" x 26" x 25" (xyz) 1524 x 660 x 635 mm
VF-5SS Super Speed	50" x 26" x 25" (xyz) 1270 x 660 x 635 mm
VF-5/40TR Trunnion	50" x 26" x 25" (xyz) 1270 x 660 x 635 mm
VF-5/50TR 5-Axis	50" x 26" x 25" (xyz) 1270 x 660 x 635 mm

LATHE HRP-2

ST-20 2.5" Bar (63.5 mm)	13" x 22.5" (max cap) 330 x 572 mm
ST-20L 2.5" Bar (63.5 mm)	13" x 42.5" (max cap) 330 x 1080 mm
ST-20LY 2.5" Bar (63.5 mm)	11.75" x 42.5" (max cap) 298 x 1080 mm
ST-20Y 2.5" Bar (63.5 mm)	11.75" x 22.5" (max cap) 298 x 572 mm
ST-25 3.0" Bar (76 mm)	13" x 22.5" (max cap) 330 x 572 mm
ST-25L 3.0" Bar (76 mm)	13" x 42.5" (max cap) 330 x 1080 mm
ST-25LY 3.0" Bar (76 mm)	11.75" x 42.5" (max cap) 298 x 1080 mm
ST-25Y 3.0" Bar (76 mm)	11.75" x 22.5" (max cap) 298 x 572 mm
ST-28 4.0" Bar (102 mm)	13" x 22.5" (max cap) 330 x 572 mm
ST-28L 4.0" Bar (102 mm)	13" x 42.5" (max cap) 330 x 1080 mm
ST-28LY 4.0" Bar (102 mm)	11.75" x 42.5" (max cap) 298 x 1080 mm
ST-28Y 4.0" Bar (102 mm)	11.75" x 22.5" (max cap) 298 x 572 mm
ST-30 3.0" Bar (76 mm)	15" x 32.5" (max cap) 381 x 826 mm
ST-30L 3.0" Bar (76 mm)	15" x 62.5" (max cap) 381 x 1588 mm
ST-30LY 3.0" Bar (76 mm)	13.75" x 62.5" (max cap) 349 x 1588 mm
ST-30Y 3.0" Bar (76 mm)	13.75" x 32.5" (max cap) 349 x 826 mm
ST-35 4.0" Bar (102 mm)	15" x 62.5" (max cap) 381 x 1588 mm
ST-35L 4.0" Bar (102 mm)	15" x 62.5" (max cap) 381 x 1588 mm
ST-35LY 4.0" Bar (102 mm)	13.75" x 62.5" (max cap) 349 x 1588 mm
ST-35Y 4.0" Bar (102 mm)	13.75" x 32.5" (max cap) 349 x 826 mm

VMC HRP-3

VF-6/40	64" x 32" x 30" (xyz) 1626 x 813 x 762 mm
VF-6/40TR 5-Axis Trunnion	64" x 32" x 30" (xyz) 1626 x 813 x 762 mm
VF-6/50	64" x 32" x 30" (xyz) 1626 x 813 x 762 mm
VF-6/50TR 5-Axis	64" x 32" x 30" (xyz) 1626 x 813 x 762 mm
VF-6SS Super Speed	64" x 32" x 30" (xyz) 1626 x 813 x 762 mm
VF-7/40	84" x 32" x 30" (xyz) 2134 x 813 x 762 mm
VF-7/50	84" x 32" x 30" (xyz) 2134 x 813 x 762 mm
VF-8/40	64" x 40" x 30" (xyz) 1626 x 1016 x 762 mm
VF-8/50	64" x 40" x 30" (xyz) 1626 x 1016 x 762 mm
VF-9/40	84" x 32" x 30" (xyz) 2134 x 1016 x 762 mm
VF-9/50	84" x 40" x 30" (xyz) 2134 x 1016 x 762 mm
VF-10/40	120" x 32" x 30" (xyz) 3048 x 813 x 762 mm
VF-10/50	120" x 32" x 30" (xyz) 3048 x 813 x 762 mm
VF-11/40	120" x 40" x 30" (xyz) 3048 x 1016 x 762 mm
VF-11/50	120" x 40" x 30" (xyz) 3048 x 1016 x 762 mm
VF-12/40	150" x 32" x 30" (xyz) 3810 x 813 x 762 mm
VF-12/50	150" x 32" x 30" (xyz) 3810 x 813 x 762 mm
VM-6	64" x 32" x 30" (xyz) 1626 x 813 x 762 mm
VR-8	84" x 40" x 42" (xyz) 2134 x 1016 x 1067 mm
VR-9	84" x 40" x 42" (xyz) 2134 x 1016 x 1067 mm
VR-11	120" x 40" x 30" (xyz) 3048 x 1016 x 762 mm

Requires third-party Auto Door

LATHE HRP-3

ST-20 2.5" Bar (63.5 mm)	13" x 22.5" (max cap) 330 x 572 mm
ST-20L 2.5" Bar (63.5 mm)	13" x 42.5" (max cap) 330 x 1080 mm
ST-20LY 2.5" Bar (63.5 mm)	11.75" x 42.5" (max cap) 298 x 1080 mm
ST-20Y 2.5" Bar (63.5 mm)	11.75" x 22.5" (max cap) 298 x 572 mm
ST-25 3.0" Bar (76 mm)	13" x 22.5" (max cap) 330 x 572 mm
ST-25L 3.0" Bar (76 mm)	13" x 42.5" (max cap) 330 x 1080 mm
ST-25LY 3.0" Bar (76 mm)	11.75" x 42.5" (max cap) 298 x 1080 mm
ST-25Y 3.0" Bar (76 mm)	11.75" x 22.5" (max cap) 298 x 572 mm
ST-28 4.0" Bar (102 mm)	13" x 22.5" (max cap) 330 x 572 mm
ST-28L 4.0" Bar (102 mm)	13" x 42.5" (max cap) 330 x 1080 mm
ST-28LY 4.0" Bar (102 mm)	11.75" x 42.5" (max cap) 298 x 1080 mm
ST-28Y 4.0" Bar (102 mm)	11.75" x 22.5" (max cap) 298 x 572 mm
ST-30 3.0" Bar (76 mm)	15" x 32.5" (max cap) 381 x 826 mm
ST-30L 3.0" Bar (76 mm)	15" x 62.5" (max cap) 381 x 1588 mm
ST-30LY 3.0" Bar (76 mm)	13.75" x 62.5" (max cap) 349 x 1588 mm
ST-30Y 3.0" Bar (76 mm)	13.75" x 32.5" (max cap) 349 x 826 mm
ST-35 4.0" Bar (102 mm)	15" x 62.5" (max cap) 381 x 1588 mm
ST-35L 4.0" Bar (102 mm)	15" x 62.5" (max cap) 381 x 1588 mm
ST-35LY 4.0" Bar (102 mm)	13.75" x 62.5" (max cap) 349 x 1588 mm
ST-35Y 4.0" Bar (102 mm)	13.75" x 32.5" (max cap) 349 x 826 mm

LATHE HRP-1

ST-10 1.75" Bar (44 mm)	12" x 16" (max cap) 305 x 406 mm
ST-10L 1.75" Bar (44 mm)	12" x 32.5" (max cap) 305 x 826 mm
ST-10Y 1.75" Bar (44 mm)	11" x 16" (max cap) 279 x 406 mm
ST-10LY 1.75" Bar (44 mm)	11" x 32.5" (max cap) 279 x 826 mm
ST-15 2.5" Bar (63.5 mm)	12" x 16" (max cap) 305 x 406 mm
ST-15L 1.75" Bar (44 mm)	12" x 32.5" (max cap) 305 x 826 mm
ST-15Y 2.5" Bar (63.5 mm)	11" x 16" (max cap) 279 x 406 mm
ST-15LY 1.75" Bar (44 mm)	11" x 32.5" (max cap) 279 x 826 mm

Recommended Haas robot fitment for each machine.
Other Haas robot packages may fit, depending on application.

- Part flipping
- Pick up and drop off from multiple locations (allowing for conveyor feeds, etc.)
- Load and unload from multiple locations (main or sub-spindle, multiple vices)
- Load and unload from drawer cart (robot will open and close each drawer to load and unload parts)



Part Flipping



Expanded Parts Table



Magazine Loader



Drawer Cart

High-volume production, unattended operation ➡

PALLET POOL SYSTEMS

FULLY INTEGRATED SOLUTIONS FOR LIGHTS-OUT PRODUCTION

6-STATION PALLET POOL VC-400/SS

- 6+1 pallets: 6 storage locations + 1 machining station
- Pallet size: 559 x 368 mm with T-slots
- 7 total pallets: 2 machine pallets + 5 additional pallets
- 227 kg max payload per pallet (workpiece + workholding)
- Easy-to-use scheduling interface in the Haas control
- Dedicated load/unload station

6-STATION PALLET POOL EC-400

- 6+1 pallets: 6 storage locations + 1 machining station
- Pallet size: 400 x 400 mm with bolt-hole pattern
- 7 total pallets: 2 machine pallets + 5 additional pallets
- 227 kg max payload per pallet (workpiece + workholding)
- Easy-to-use scheduling interface in the Haas control
- Dedicated load/unload station

3-STATION PALLET POOL VF-2YT SERIES/VM-2

- 3+1 pallets: 3 storage locations + 1 machining location
- Pallet size: 914 x 457 mm with bolt-hole pattern
- Max weight on pallet (part and workholding): 340 kg
- Work Envelope: 762 width x 457mm depth
- Easy-to-use scheduling interface in the Haas control
- Dedicated load/unload station

20-STATION PALLET POOL UMC-500/SS

- 20+1 pallets: 20 storage locations + 1 machining station
- Includes 360 litre coolant tank
- 91 kg max payload per pallet (workpiece + workholding)
- 203 mm diameter x 419 mm tall work envelope
- Easy-to-use scheduling interface in the Haas control
- Dedicated load/unload station

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

- 10+1 pallets: 10 storage locations + 1 machining station
- Includes 360 litre coolant tank
- 91 kg max payload per pallet
- Work envelope 406 mm diameter 406 mm tall for UMC-500 533 mm tall for UMC-750 & UMC-1000
- Easy-to-use scheduling interface in the Haas control
- Dedicated load/unload station

6-STATION PALLET POOL UMC-1250/SS

- 6+1 pallets: 6 storage locations + 1 machining station
- Includes 360 litre coolant tank
- 227 kg max payload per pallet (workpiece + workholding)
- 762 mm diameter x 610 mm tall work envelope
- Easy-to-use scheduling interface in the Haas control
- Dedicated load/unload station

Whether you're doing high-volume production runs, high-mix/low-volume machining, or just want to run lights-out, our fully integrated pallet pool systems can boost your productivity. They integrate seamlessly with the Haas control, which includes a simplified Pallet Schedule Table that allows pallet-scheduling functions from a single dedicated screen.



Just steady, uninterrupted production →

AUTOMATIC PARTS LOADER SYSTEMS

PLUG & PLAY

HAAS APL FOR LATHES

- All-inclusive design, with plug-&-play capabilities to Haas ST-10Y, 15Y, 20/Y, 25/Y, 28/Y lathes
- Interfaces directly with the Haas control
- Accommodates parts up to 147 x 127 mm x 4.5 kg
- Includes CE/UKCA compliant safety guard fencing

HAAS APL FOR MILLS

- All-inclusive design, with plug-&-play capabilities to Haas VF-1, VF-2 (inc. SS/YT/SSYT) and VM-2
- Interfaces directly with the Haas control
- Accommodates parts up to 152 x 152 mm x 4.5 kg
- Includes CE/UKCA compliant safety guard fencing

HAAS APL FOR UMC-500/SS

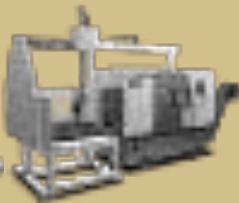

- All-inclusive design, with plug-&-play capabilities to Haas UMC-500 and UMC-500SS
- Interfaces directly with the Haas control
- Accommodates parts up to 152 x 152 mm x 4.5 kg
- Includes CE/UKCA compliant safety guard fencing



→ AUTOMATION

Options & Configurations

CNC - at its core- is automation. Simple lines of code instruct our machines to perform thousands of automated actions every second, making them do exactly what we want them to do. But we've taken automation even further, with engineered solutions that make your job as a machinist even easier - from multi-part fixturing and intuitive software features, to automatic parts loaders and fully integrated robots.

Machine Model	Robot Solutions			Automatic Parts Loader	Pallet Pool	Bar Feeder
	Package 1 7 kg Capacity	Package 2 25 kg Capacity	Package 3 50 kg Capacity			
VF-1/VF-2	✓	✓		✓	✓ ³	
VF-3 – VF-5		✓	✓			
VF-6 – VF-14			✓			
VC-400					✓	
UMC-500		✓		✓	✓	
UMC-750		✓			✓	
UMC-1000		✓			✓	
UMC-1250					✓	
ST-10 – ST-15	✓ ¹			✓ ²		✓
ST-20 – ST-28		✓ ¹		✓		✓
ST-30 – ST-35		✓ ¹	✓ ¹			✓
DS-30Y						✓
EC-400					✓	

Configurations subject to change without notice. Availability may vary by region. ¹Including long-bed models. ²Y-Axis models only. ³VF-2YT models only.



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.



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.

NEW



UMC-350HD

5-AXIS UNIVERSAL MACHINING CENTRE



UMC-350HD

- Travels 381 x 356 x 305 mm
- Dual-Axis Trunnion • 80°/Sec Tilt
- 230 mm Platter • 40-Taper
- 10,000 rpm Spindle (15k opt)
- 18+1 SMTC



The **UMC-350HD** combines the 40-taper performance of our DM-1 Drill/Mill Centre with the versatility of our TRT210 dual-axis rotary to create a lean-style UMC that's perfect for 3+2 and simultaneous 5-axis machining of small parts.

The **UMC-350HD** is packed with innovative features such as Tool Centre Point Control (TCPC) and Dynamic Work Offsets (DWO) to improve workflow and boost your productivity.



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
- 🏆 Winners of multiple industry awards



01603 760539

sales@haas.co.uk

www.haas.co.uk



© Haas Automation Ltd. Machine images may show optional equipment. Specifications likely to change without notice. E&OE. MC-2023-09



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

