

[Special Series]

Haas SS Series

The Super-Speed VMCs



ENHANCED High-speed side-mount tool changer (24+1 tools) helps reduce cycle times

ISO standard G-code programming through the user-friendly, full-function Haas CNC control



ENHANCED Inline direct-drive spindle features 12,000 rpm and on-the-fly wye-delta switching

Warranty: 1 Year Parts and Labor

[Standard Features]

- 30 hp Vector Dual Drive
- 12,000-rpm 40-Taper Spindle
- Inline Direct-Drive
- High-Speed Rapids
- High-Speed Side-Mount Tool Changer
- Rigid Tapping
- 15" Color LCD Monitor w/USB Port
- Brushless Servos on All Axes
- User-Friendly Haas Control
- ISO Standard G-Code Programming
- Made in the USA

[Options] partial list

- Chip Auger System†
- Programmable Coolant Nozzle†
- Haas Intuitive Programming System
- Remote Jog Handle†
- 750 MB Program Memory
- 4th- and 5-Axis Drives
- Coordinate Rotation & Scaling
- User-Definable Macros
- High-Speed Machining w/Look-Ahead

†Standard on VF-6SS



Haas Automation, Inc. | www.HaasCNC.com | 800-331-6746 | Made in U.S.A.

Specifications subject to change without notice. Not responsible for typographical errors. Machines shown with optional equipment.



Haas SS Series

The Super-Speed VMCs

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

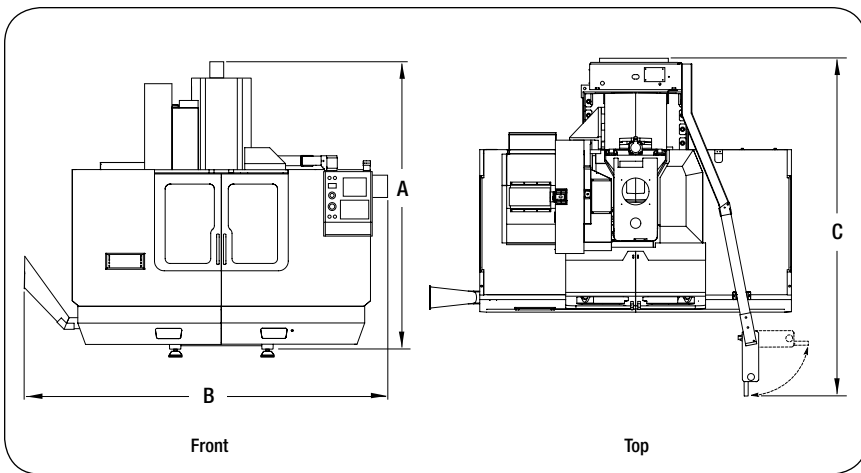
Each SS machine features a 12,000-rpm, inline direct-drive spindle, an ultra-fast side-mount tool changer and high-speed rapids on all axes.



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



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



Operating Dimensions	VF-2SS	VF-3SS	VF-4SS	VF-5SS	VF-6SS
A. Max Operating Height	110" 2794 mm	119" 3023 mm	119" 3023 mm	121" 3073 mm	133" 3378 mm
B. Max Operating Width	125" 3175 mm	153" 3886 mm	153" 3886 mm	158" 4013 mm	188" 4775 mm
C. Max Operating Depth†	99" 2515 mm	105" 2667 mm	105" 2667 mm	112" 2844 mm	122" 3098 mm

[Specifications]

Travels	VF-2SS	VF-3SS	VF-4SS	VF-5SS	VF-6SS
X	30" 762 mm	40" 1016 mm	50" 1270 mm	50" 1270 mm	64" 1626 mm
Y	16" 406 mm	20" 508 mm	20" 508 mm	26" 660 mm	32" 813 mm
Z	20" 508 mm	25" 635 mm	25" 635 mm	25" 635 mm	30" 762 mm

Table

Length	36" 914 mm	48" 1219 mm	52" 1321 mm	52" 1321 mm	64" 1626 mm
Width	14" 356 mm	18" 457 mm	18" 457 mm	23" 584 mm	28" 711 mm
Max Weight on Table	1500 lb 680 kg	1750 lb 794 kg	1750 lb 794 kg	1750 lb 794 kg	2000 lb 907 kg

Spindle

Speed	12,000 rpm
Drive System	Inline Direct Drive
Max Rating	30 hp 22.4 kW
Max Torque	90 ft-lb @ 2000 rpm 122 Nm @ 2000 rpm

Brushless Axis Motors

Max Thrust	VF-2SS	VF-3SS	VF-4SS	VF-5SS	VF-6SS
X Axis	1995 lb 8874 N	3085 lb 13723 N	3085 lb 13723 N	3350 lb 14902 N	3400 lb 15124 N
Y Axis	1995 lb 8874 N	3085 lb 13723 N	3085 lb 13723 N	3350 lb 14902 N	3400 lb 15124 N
Z Axis	3085 lb 13723 N	3923 lb 17450 N	3923 lb 17450 N	3350 lb 14902 N	3400 lb 15124 N

Feedrates

Max Rapids	1400 ipm 35.6 m/min	1400 ipm 35.6 m/min	1400 ipm 35.6 m/min	1200 ipm 30.5 m/min	1200 ipm 30.5 m/min
X Axis	1400 ipm 35.6 m/min	1400 ipm 35.6 m/min	1400 ipm 35.6 m/min	1200 ipm 30.5 m/min	1200 ipm 30.5 m/min
Y Axis	1400 ipm 35.6 m/min	1400 ipm 35.6 m/min	1400 ipm 35.6 m/min	1200 ipm 30.5 m/min	1200 ipm 30.5 m/min
Z Axis	1400 ipm 35.6 m/min	1400 ipm 35.6 m/min	1400 ipm 35.6 m/min	1200 ipm 30.5 m/min	1200 ipm 30.5 m/min
Max Cutting	833 ipm 21.2 m/min				

Tool Changer

Capacity	24+1	24+1	24+1	24+1	24+1
Type	CT 40	CT 40	CT 40	CT 40	CT 40
Max Tool Dia.	3.0" 76 mm	3.0" 76 mm	3.0" 76 mm	3.0" 76 mm	3.0" 76 mm
Tool to Tool	1.6 sec	1.6 sec	1.6 sec	1.6 sec	2.3 sec
Chip to Chip	2.2 sec	2.2 sec	2.2 sec	2.2 sec	3.2 sec

General

Power Required (min)	195 - 260 VAC 3-Phase				
Weight	8000 lb 3629 kg	12,500 lb 5670 kg	13,300 lb 6033 kg	14,600 lb 6623 kg	21,000 lb 9526 kg

† With control swung forward. Additional 36" (914 mm) required to open rear service panel.



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