

[Special Series]

Haas SS Series



The Super-Speed VMCs

ENHANCED High-speed side-mount tool changer (24+1 tools) swaps tools in just 1.6 seconds

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

Base Models
Start at

VF-2SS

\$58,995*

Extended Y axis available

VF-3SS

\$69,995*

Extended Y axis available

VF-4SS

\$76,995*

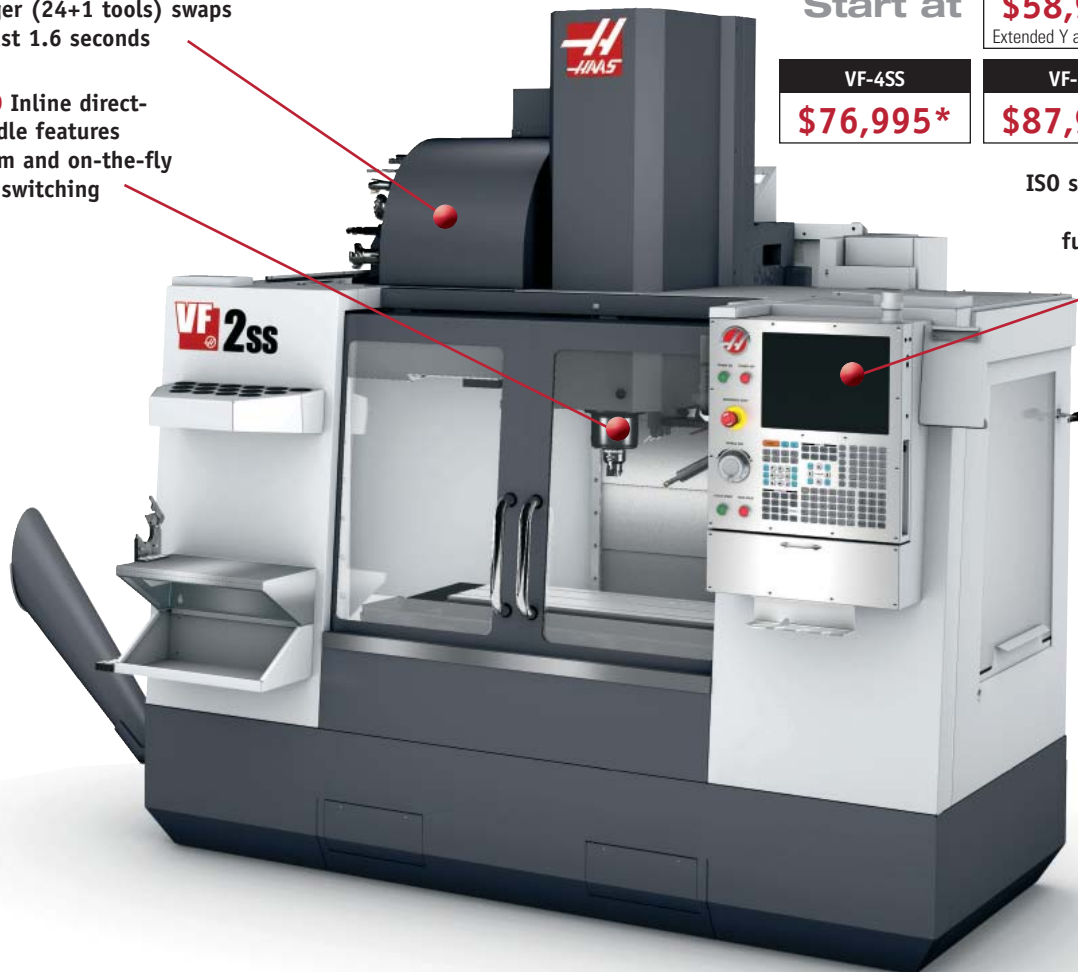
VF-5SS

\$87,995*

VF-6SS

\$113,995*

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



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†
- 250 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.

Prices and specifications subject to change without notice. Not responsible for typographical errors. Machines shown with optional equipment. *Base price in US dollars.



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.

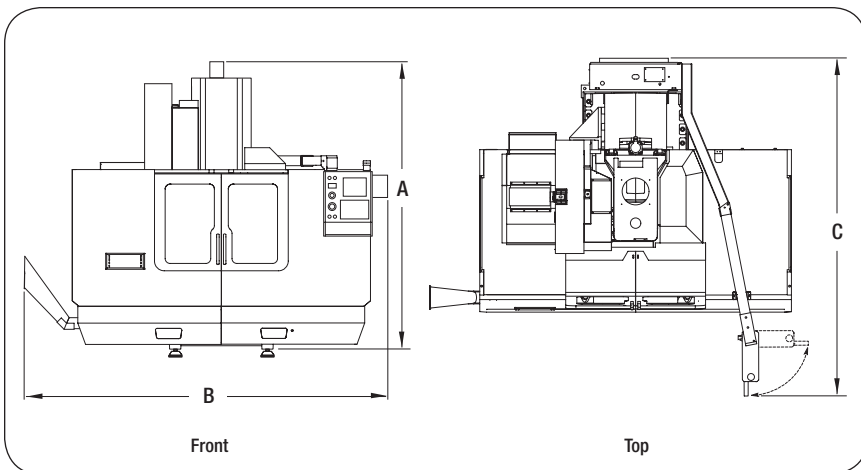
Each SS machine features a 12,000-rpm, inline direct-drive spindle, an ultra-fast side-mount tool changer and high-speed rapids on all axes.



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 cycle 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	104.5" 2 654 mm	117.5" 2 985 mm	117.5" 2 985 mm	118.2" 3 002 mm	124" 3 150 mm
B. Max Operating Width	116" 2 946 mm	143" 3 622 mm	143" 3 622 mm	150" 3 810 mm	178" 4 521 mm
C. Max Operating Depth†	107" 2 778 mm	128" 3 251 mm	128" 3 251 mm	135" 3 429 mm	146" 3 708 mm

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

[Specifications]

Travels	VF-2SS	VF-3SS	VF-4SS	VF-5SS	VF-6SS
X	30" 762 mm	40" 1 016 mm	50" 1 270 mm	50" 1 270 mm	64" 1 626 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" 1 219 mm	52" 1 321 mm	52" 1 321 mm	64" 1 626 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	75 ft-lb @ 2100 rpm 102 Nm @ 2 100 rpm

Brushless Axis Motors

Max Thrust	X Axis	Y Axis	Z Axis
	1995 lb 8 874 N	1995 lb 8 874 N	3085 lb 13 723 N
	3085 lb 13 723 N	3085 lb 13 723 N	3350 lb 14 902 N
	3085 lb 13 723 N	3923 lb 17 450 N	3400 lb 15 124 N

Feedrates

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

Tool Changer

Capacity	24+1
Type	CT 40
Max Tool Diameter	3.0" 76 mm
Tool to Tool	1.6 sec
Chip to Chip	2.2 sec

Accuracy

Positioning	±0.0002" ±0.005 mm	±0.0002" ±0.005 mm	±0.0002" ±0.005 mm	±0.0002" ±0.005 mm	±0.0003"† 0.008 mm
Repeatability	±0.0001" ±0.003 mm	±0.0001" ±0.003 mm	±0.0001" ±0.003 mm	±0.0001" ±0.003 mm	±0.0002"† ±0.005 mm

General

Power Required (min)	195 - 260 VAC 3-Phase				
Weight	8000 lb 3 629 kg	12,500 lb 5 670 kg	13,300 lb 6 033 kg	14,600 lb 6 623 kg	21,000 lb 9 526 kg

† With linear scales.



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