

[ Special Series ]

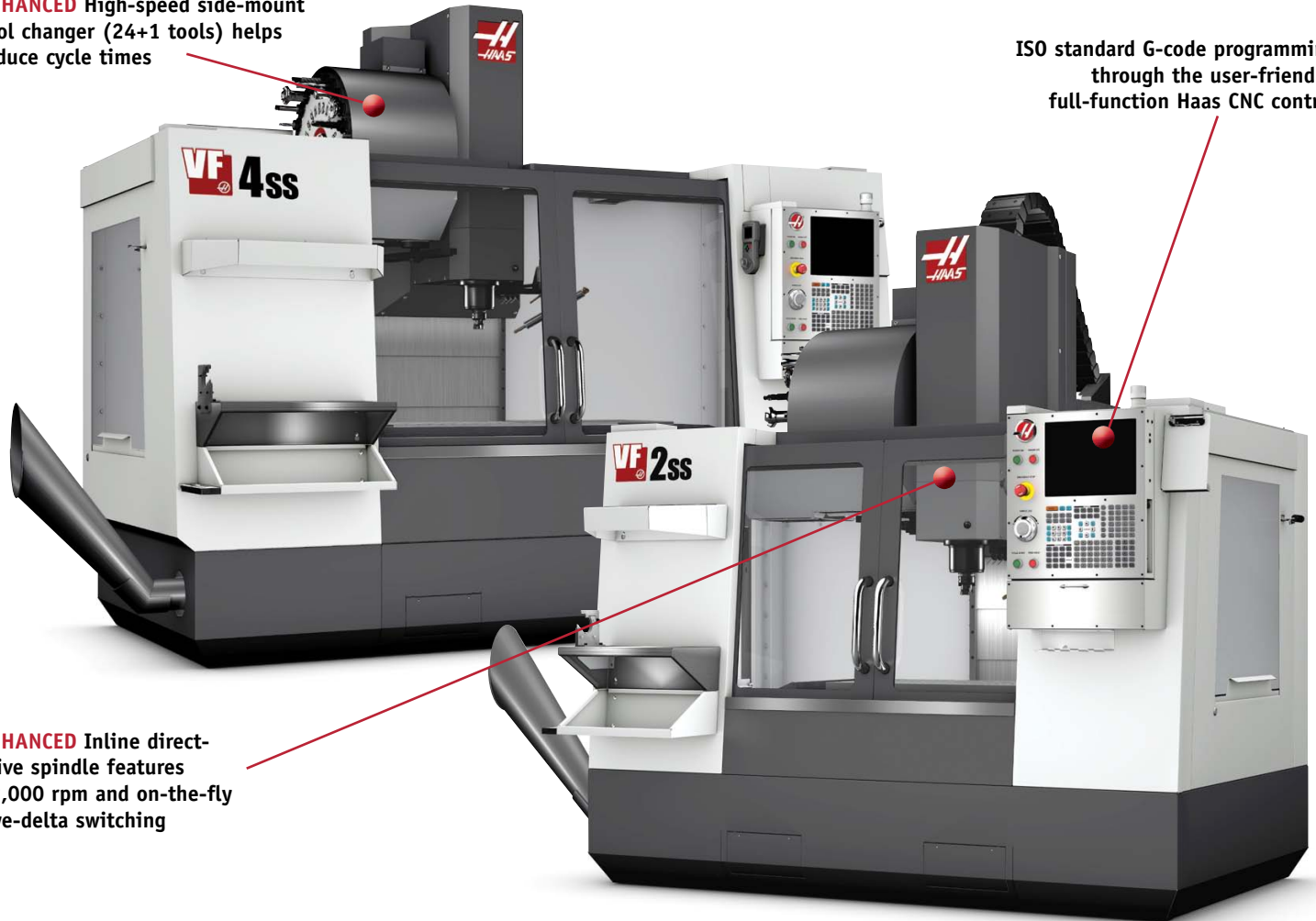
# Haas SS Series

## 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](http://www.HaasCNC.com) | 800-331-6746 | Made in U.S.A.

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# 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.

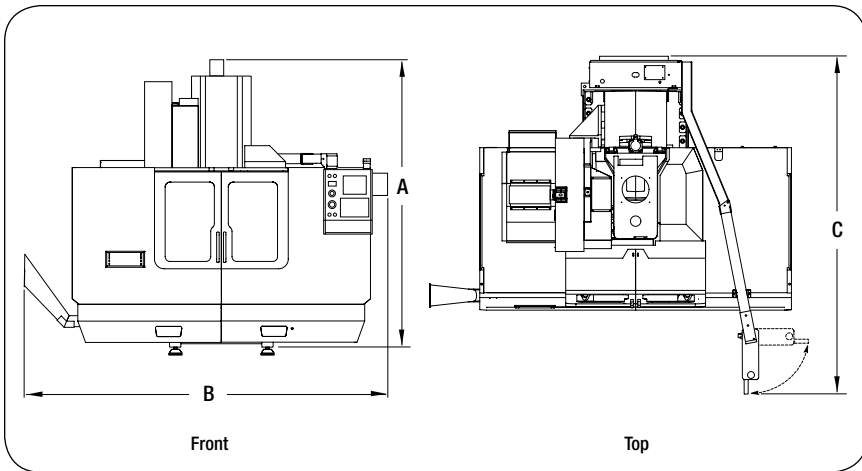
Each SS machine features a 12,000-rpm, inline direct-drive spindle, an ultra-fast side-mount tool changer and high-speed rapids on all axes.



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	105" 2 667 mm	107" 2 718 mm	118" 2 997 mm	119" 3 022 mm	119" 3 022 mm
B. Max Operating Width	125" 3 175 mm	153" 3 886 mm	153" 3 886 mm	158" 4 013 mm	188" 4 775 mm
C. Max Operating Depth†	109" 2 769 mm	105" 2 667 mm	105" 2 667 mm	112" 2 844 mm	122" 3 098 mm

### [ 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	90 ft-lb @ 2000 rpm 122 Nm @ 2 000 rpm				

#### Brushless Axis Motors

Max Thrust	VF-2SS	VF-3SS	VF-4SS	VF-5SS	VF-6SS
X Axis	1995 lb 8 874 N	3085 lb 13 723 N	3085 lb 13 723 N	3350 lb 14 902 N	3400 lb 15 124 N
Y Axis	1995 lb 8 874 N	3085 lb 13 723 N	3085 lb 13 723 N	3350 lb 14 902 N	3400 lb 15 124 N
Z Axis	3085 lb 13 723 N	3923 lb 17 450 N	3923 lb 17 450 N	3350 lb 14 902 N	3400 lb 15 124 N

#### Feedrates

Max Rapids	VF-2SS	VF-3SS	VF-4SS	VF-5SS	VF-6SS
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	900 ipm 22.9 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 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 control swung forward. Additional 36" (914 mm) required to open rear service panel.



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