

[ Special Series ]

# Haas ST-20 Series Lathes



## The High-Performance Turning Centers

4000-rpm high-torque spindle;  
20 hp vector drive

ISO standard G-code programming  
through the user-friendly,  
full-function Haas CNC control,  
or use the optional Intuitive  
Programming System



5000-rpm high-speed spindle;  
30 hp vector drive

Fully programmable  
hydraulic tailstock available

Belt-type chip  
conveyor available

Warranty: 1 Year Parts and Labor

### [ Standard Features ]

- 8.3" Hydraulic Chucking System
- A2-6 Spindle Nose
- 2.0" Bar Capacity
- 15" Color LCD Monitor
- Built-In USB Port
- 1 MB Program Memory
- Rigid Tapping
- User-Friendly Haas Control
- Made in the USA

### [ ST-20 ]

- 15" x 21" Max Capacity
- 4000-rpm Spindle
- 20 hp Vector Drive
- 12-Station BOT Turret

### [ ST-20SS ]

- 10" x 21" Max Capacity
- 5000-rpm Spindle
- 30 hp Vector Drive
- 24-Station BOT/VDI Turret

### [ Options ] partial list

- Programmable Hydraulic Tailstock
- Live Tooling with C Axis
- High-Pressure Coolant Systems
- Automatic Tool Presetter System
- Belt-Type Chip Conveyor
- Servo Auto Door
- Ethernet Interface
- Haas Intuitive Programming System
- Servo Bar Feeder



Haas Automation, Inc. | [www.HaasCNC.com](http://www.HaasCNC.com) | 800-331-6746 | Made in U.S.A.

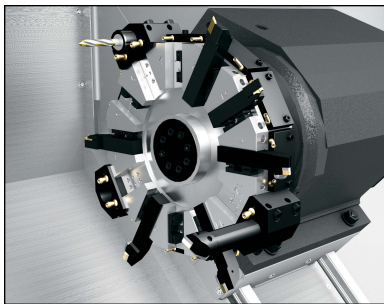
Specifications subject to change without notice. Not responsible for typographical errors. Machines shown with optional equipment.

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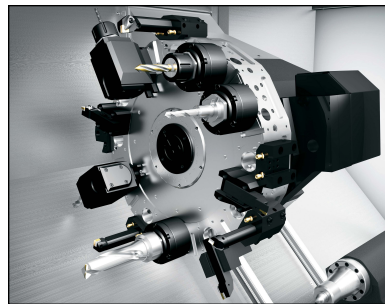
## The High-Performance Turning Centers



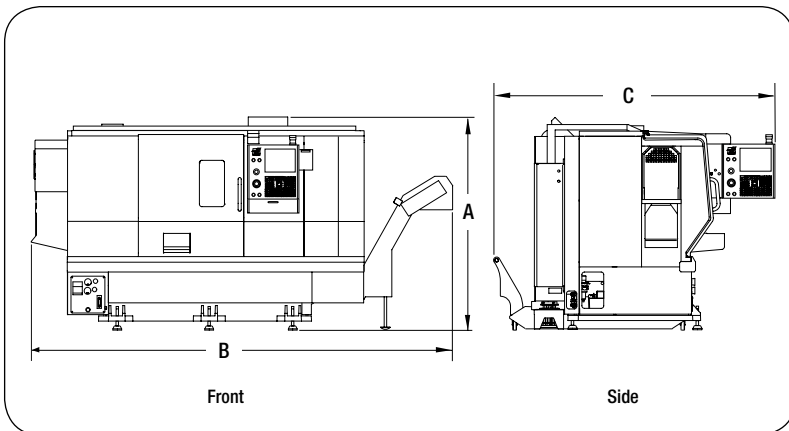
The Haas ST-20 Series high-performance turning centers were designed from the ground up to provide set-up flexibility, extreme rigidity, and high thermal stability. Available in standard and Super Speed models, these 8" chuck machines offer the most performance for the money – the best value – in their class. With available high-torque live tooling and C axis, it's possible to machine multiple features and perform secondary operations in a single setup.



The ST-20 is equipped with a 12-station bolt-on style turret, with options for a 12-station VDI turret or a 12-station hybrid BOT/VDI turret.



The ST-20SS is equipped with a 24-station hybrid turret that accepts BOT tools, 3/4" OD tools and VDI40 tools.



### Operating Dimensions

### ST-20/ST-20SS

A. Max Operating Height	77" 1956 mm
B. Max Operating Width	165" 4191 mm
C. Max Operating Depth†	115" 2921 mm

† With control swung forward and coolant tank in place. Additional 20" (508 mm) required to open rear service panel.

### [ Specifications ]

Capacities	ST-20	ST-20SS
Chuck Size	8.3" 210 mm	8.3" 210 mm
Max Cutting Dia.	15" <sup>1</sup> 381 mm	10" 254 mm
Max Cutting Length without workholding	21" 533 mm	21" 533 mm
Std. Bar Capacity	2.0" 51 mm	2.0" 51 mm

### Spindle

Max Speed	4000 rpm	5000 rpm
Max Motor Rating	20 hp 14.9 kW	30 hp 22.4 kW
Max Torque	150 ft-lb @ 500 rpm 203 Nm @ 500 rpm	140 ft-lb @ 1450 rpm 190 Nm @ 1450 rpm
Spindle Nose	A2-6	A2-6
Spindle Bore	Ø3.50" Ø88.9 mm	Ø3.50" Ø88.9 mm

### Swing Diameter

Over Front Apron	31.75" 806 mm	31.75" 806 mm
Over Cross Slide	20.75" 527 mm	20.75" 527 mm
Over Tailstock	23.0" 584 mm	23.0" 584 mm

### Travels & Feedrates

X Axis	9.3" 236 mm	9.3" 236 mm
Z Axis	21" 533 mm	21" 533 mm
X-Axis Max Thrust	4100 lb 18 238 N	4100 lb 18 238 N
Z-Axis Max Thrust	5100 lb 22 686 N	4050 lb 18 051 N
X-Axis Rapids	945 ipm 24.0 m/min	945 ipm 24.0 m/min
Z-Axis Rapids	945 ipm 24.0 m/min	1200 ipm 30.5 m/min

### General

Power – 3-Phase	195 - 260 V	195 - 260 V
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<sup>1</sup> Max diameter with BOT turret; diameter is less with VDI or VB turret.



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