

[ Special Series ]

# Haas ST-20 CNC Lathe



The High-Performance Turning Center

Base Model  
Starts at

ST-20  
\$54,995\*

12-station bolt-on style turret



Belt-type chip  
conveyor available

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

Fully programmable  
hydraulic tailstock available

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

Warranty: 1 Year Parts and Labor

## [ Standard Features ]

- 20 hp Vector Dual-Drive
- 4000-rpm High-Torque Spindle
- 8.3" Hydraulic Chucking System
- 15" Color LCD Monitor w/USB Port
- 1 MB Program Memory
- Rigid Tapping
- User-Friendly Haas Control
- ISO Standard G-Code Programming
- Made in the USA

## [ Options ] partial list

- Programmable Hydraulic Tailstock
- Live Tooling with C Axis
- 300 psi High-Pressure Coolant
- 1000 psi High-Pressure Coolant
- Automatic Tool Presetter System
- Belt-Type Chip Conveyor
- Spindle Orientation
- Servo Auto Door
- Ethernet Interface
- Remote Jog Handle w/Color LCD
- User-Definable Macros
- Haas Intuitive Programming System
- Servo Bar Feeder
- Parts Catcher



Haas Automation, Inc. | [www.HaasCNC.com](http://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.



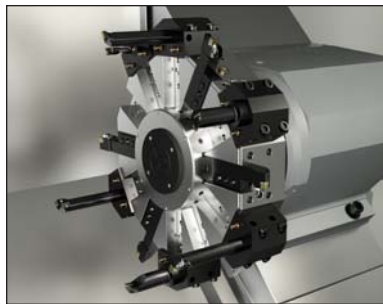
# Haas ST-20 CNC Lathe

## The High-Performance Turning Center

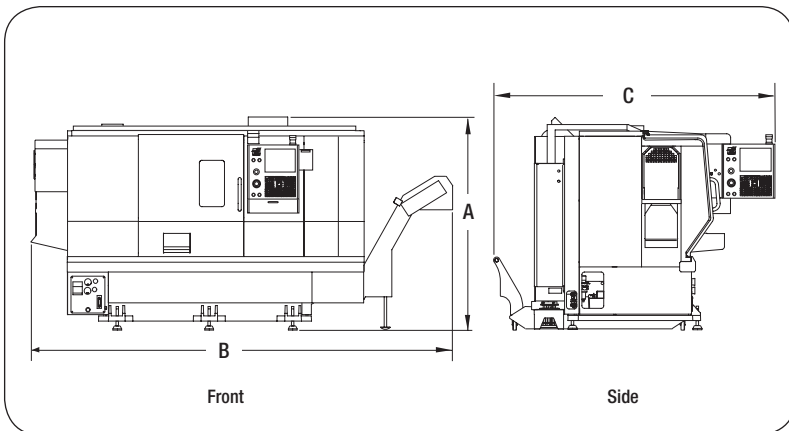
The Haas ST-20 is a high-performance turning center – designed from the ground up to provide set-up flexibility, extreme rigidity and high thermal stability. The ST-20 features a 20 hp spindle that spins to 4000 rpm and yields 150 ft-lb of cutting torque at 700 rpm. With available high-torque live tooling and C axis, it's possible to machine multiple features and perform secondary operations in a single setup.



The ST-20 is available with an automatic tool presetter system for setting tool offsets, as well as for in-process tool inspection and breakage detection.



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



### Operating Dimensions

|                         | ST-20          |
|-------------------------|----------------|
| A. Max Operating Height | 73.5" 1 867 mm |
| B. Max Operating Width  | 156" 3 962 mm  |
| C. Max Operating Depth† | 97" 2 464 mm   |

† With control swung forward. Additional 20" (508 mm) required to open rear service panel.

### [ Specifications ]

| Capacities                    | ST-20           |
|-------------------------------|-----------------|
| Chuck Size                    | 8.3"<br>210 mm  |
| Max Cutting Dia. <sup>1</sup> | 15"<br>381 mm   |
| Max Cutting Length            | 20.5"<br>521 mm |
| Std. Bar Capacity             | 2.0"<br>51 mm   |

| Spindle          |   |
|------------------|---|
| Max Speed        | 4000 rpm                                |
| Max Motor Rating | 20 hp<br>14.9 kW                        |
| Max Torque       | 150 ft-lb @ 700 rpm<br>203 Nm @ 700 rpm |
| Spindle Nose     | A2-6                                    |
| Spindle Bore     | Ø3.00"<br>76.2 mm                       |

| Swing Diameter   |                  |
|------------------|------------------|
| Over Front Apron | 31.75"<br>806 mm |
| Over Cross Slide | 20.75"<br>527 mm |
| Over Tailstock   | 24.25"<br>616 mm |

| Travels & Feedrates |                       |
|---------------------|-----------------------|
| X Axis              | 9.3"<br>236 mm        |
| Z Axis              | 21"<br>533 mm         |
| X-Axis Max Thrust   | 4588 lb<br>20 408 N   |
| Z-Axis Max Thrust   | 5800 lb<br>25 800 N   |
| X-Axis Rapids       | 945 ipm<br>24.0 m/min |
| Z-Axis Rapids       | 945 ipm<br>24.0 m/min |

| Accuracy      |                       |
|---------------|-----------------------|
| Positioning   | ±0.0002"<br>±0.005 mm |
| Repeatability | ±0.0001"<br>±0.003 mm |

| General         |                     |
|-----------------|---------------------|
| Power – 3-Phase | 195 - 260 V @ 100 A |
| Weight          | 9000 lb<br>4 082 kg |

<sup>1</sup> Max diameter varies with turret. VB=12" (305 mm); VDI=9" (229 mm).



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