

[ Special Series ]

# Haas ST-20 Y-Axis Lathes



## The High-Performance Turning Centers

4 000-rpm high-torque spindle;  
14,9 kW vector drive

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



5 000-rpm high-speed spindle;  
22,4 kW vector dual drive

$\pm 51$  mm Y-axis travel for off-center milling, drilling and tapping

Belt-type chip conveyor available

Warranty: 1 Year Parts and Labor

### [ Standard Features ]

- 210 mm Hydraulic Chucking System
- A2-6 Spindle Nose
- 51 mm Bar Capacity
- $\pm 51$  mm Y-axis travel
- Live Tooling with C Axis
- 15" Color LCD Monitor w/USB Port
- 1 MB Program Memory
- Rigid Tapping
- Made in the USA

### [ ST-20Y ]

- 305 x 533 mm Max Capacity
- 4 000-rpm Spindle
- 14,9 kW Vector Drive
- 12-Station BOT Turret

### [ ST-20SSY ]

- 254 x 533 mm Max Capacity
- 5 000-rpm Spindle
- 22,4 kW Vector Drive
- 24-Station BOT/VDI Turret

### [ Options ] partial list

- Programmable Hydraulic Tailstock
- High-Pressure Coolant Systems
- Automatic Tool Presetter System
- Belt-Type Chip Conveyor
- Ethernet Interface
- Haas Intuitive Programming System
- Servo Bar Feeder
- Parts Catcher



Haas Automation Europe | [www.HaasCNC.com](http://www.HaasCNC.com) | +32 2 522 99 05 | Made in U.S.A.

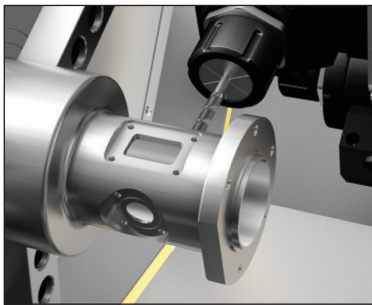
Specifications subject to change without notice. Not responsible for typographical errors. Machines shown with optional equipment.

# Haas ST-20 Y-Axis Lathes

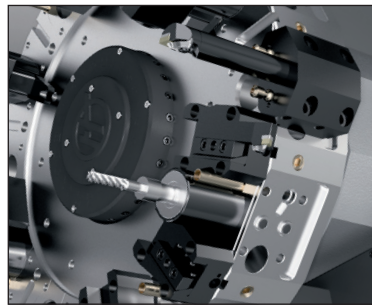
## The High-Performance Turning Center



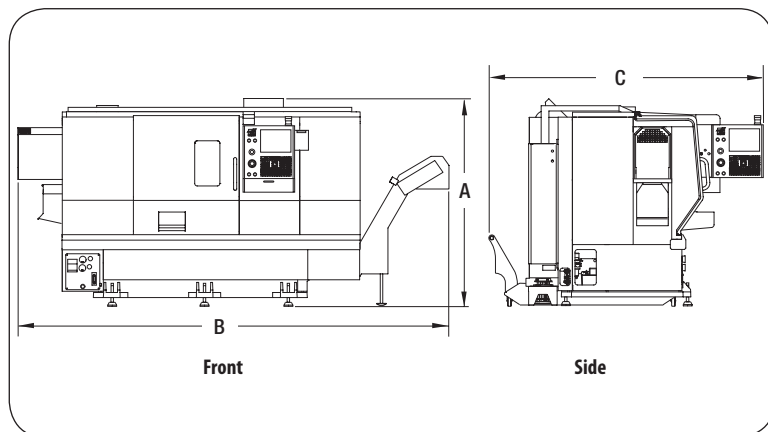
The ability to turn and mill complex parts and perform multiple operations on a single machine increases throughput, reduces handling, and improves part accuracy. The Haas ST-20 Series Y-axis turning centers provide 101 mm of Y-axis travel ( $\pm 51$  mm from the centerline) for off-center milling, drilling, and tapping, and come standard with high-torque live tooling and a servo-driven C axis for versatile 4-axis capability. They are available in standard and Super Speed configurations.



Generous Y-axis travel combined with high-torque live tooling and C axis motion allow multiple operations in a single setup to reduce part handling and increase accuracy.



Both Y-axis machines are equipped with a hybrid turret that accepts BOT tools, OD tools and VDI 40 tools. The ST-20Y has a 12-station turret, and the ST-20SSY has a 24-station turret.



### [ Specifications ]

Capacities	ST-20Y	ST-20SSY
Chuck Size	210 mm	210 mm
Max Cutting Dia.	305 mm	254 mm
Max Cutting Length without workholding	533 mm	533 mm
Std. Bar Capacity	51 mm	51 mm

### Spindle

Max Speed	4 000 rpm	5 000 rpm
Max Motor Rating	14,9 kW	22,4 kW
Max Torque	203 Nm @ 500 rpm	190 Nm @ 1 450 rpm
Spindle Nose	A2-6	A2-6
Spindle Bore	88,9 mm	88,9 mm

### Swing Diameter

Over Front Apron	806 mm	806 mm
Over Cross Slide <sup>1</sup>	527 mm	527 mm
Over Tailstock	584 mm	584 mm

### Travels & Feedrates

X Axis	236 mm	236 mm
Y Axis	$\pm 51$ mm	$\pm 51$ mm
Z Axis	533 mm	533 mm
X-Axis Rapids	12 m/min	12 m/min
Y-Axis Rapids	12 m/min	12 m/min
Z-Axis Rapids	24,0 m/min	30,5 m/min

### General

Power – 3-phase	354 - 488 VAC	354 - 488 VAC
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<sup>1</sup> With Y-axis at 0



### Operating Dimensions

### ST-20Y/ST-20SSY

A. Max Operating Height	1 956 mm
B. Max Operating Width	4 191 mm
C. Max Operating Depth*	2 921 mm

\*With control swung forward and coolant tank in place. Additional 508 mm required to open rear service panel.



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