

# Haas TL Series



## The Toolroom Lathes



**1.** The Haas Intuitive Programming System allows full CNC operation without knowing G-code

**2.** CE-compliant chip and coolant enclosure available

**3.** 1 800-rpm Vector Dual Drive Spindle

**4.** The tailstock, with a manually adjustable quill, provides additional support for long workpieces

**5.** Handwheels and precise DRO make manual operation simple, and the heavy-duty cross-slide accepts a variety of tool post options



Warranty: 1 Year Parts and Labor

### [ Standard Features ]

- Vector Dual Drive Spindle
- Haas Intuitive Programming System
- 38 cm Color LCD Monitor w/USB Port
- Integral Chip-Flow Channel
- 1 MB Program Memory
- Manual Handwheels
- Cross Slide, Tool-Post Ready
- Three-Phase Power

### [ Options ] *partial list*

- 4-Station Automatic Tool Turret<sup>1</sup>
- 3 500-rpm Spindle (requires enclosure)<sup>1</sup>
- Full Chip and Coolant Enclosure<sup>2</sup>
- 8-Station Bolt-On Style Tool Turret<sup>3</sup>
- 22,4 kW High-Torque Spindle<sup>4</sup>
- Manual Tailstock w/Adj. Quill
- Manual Three-Jaw Chuck
- Manual Steady Rest
- Tool Post/Toolholders

- Spindle Orientation
- Coolant Pump Kit
- Rigid Tapping
- Work Light
- User-Definable Macros

<sup>1</sup> TL-1 and TL-2 only. <sup>2</sup> Except TL-3W.

<sup>3</sup> TL-3 only; requires enclosure. <sup>4</sup> TL-3 only.



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.

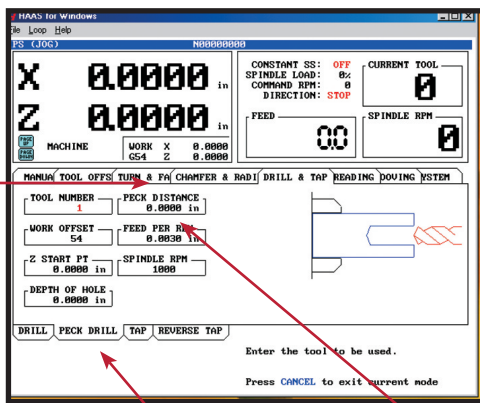
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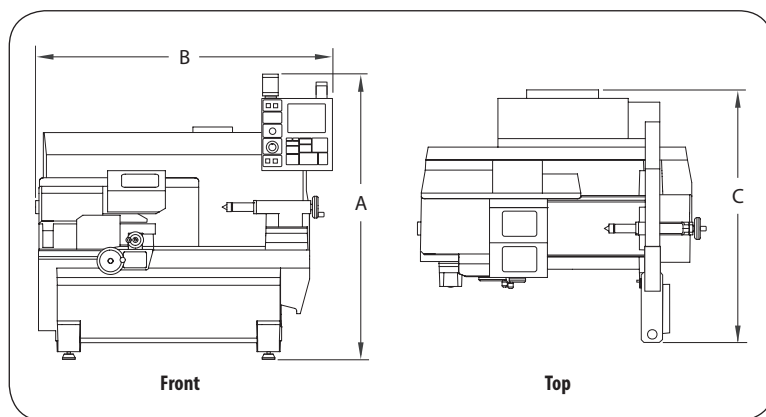


The Haas Toolroom Lathes combine the functionality and simplicity of a manual lathe with the power and flexibility of the easy-to-use Haas CNC system. With standard handwheels and high-accuracy DRO, manual machinists will be cutting parts in minutes. And with the Haas Intuitive Programming System, they'll transition quickly and easily into automatic modes and full CNC.

### Intuitive Programming System



- 1 Use the top tab menu to select the type of operation to perform.
- 2 Choose from the lower tabs to define the specific cutting operation.
- 3 Fill in the requested information and press Cycle Start.



Operating Dimensions	TL-1	TL-2	TL-3	TL-3W
A. Max Operating Height	1956 mm	1981 mm	2032 mm	2083 mm
B. Max Operating Width	2057 mm	2515 mm	3073 mm	3099 mm
C. Max Operating Depth**	1727 mm	1727 mm	2083 mm	2159 mm

\*\* With control swung forward. Additional 914 mm required to open rear service panel.

### [ Specifications ]

Capacities	TL-1	TL-2	TL-3 <sup>1</sup>	TL-3W <sup>2</sup>
Workholding Chuck (opt.)	203 mm	254 mm	305 mm	305 mm
Between Centers	762 mm	1219 mm	1524 mm	1524 mm
Max Cutting Dia.	406 mm	406 mm	508 mm	762 mm
Max Cutting Length	762 mm	1219 mm	1524 mm	1524 mm

Spindle	TL-1	TL-2	TL-3 <sup>1</sup>	TL-3W <sup>2</sup>
Max Speed	2 000 rpm <sup>3</sup>	2 000 rpm <sup>3</sup>	1 800 rpm	1 800 rpm
Max Motor Rating	5,6 kW	8,9 kW	13,4 kW <sup>4</sup>	22,4 kW
Max Torque	136 Nm @ 375 rpm	203 Nm @ 150 rpm	277 Nm @ 417 rpm	2 169 Nm @ 60 rpm
Spindle Nose	A2-5	A2-6	A2-6	A2-6
Spindle Bore	58,7 mm	76,2 mm	88,9 mm	88,9 mm

Swing Diameter	TL-1	TL-2	TL-3 <sup>1</sup>	TL-3W <sup>2</sup>
Over Front Apron	406 mm	406 mm	508 mm	762 mm
Over Cross Slide	241 mm	282 mm	330 mm	457 mm

Travels & Feedrates	TL-1	TL-2	TL-3 <sup>1</sup>	TL-3W <sup>2</sup>
X Axis	203 mm	203 mm	305 mm	406 mm
Z Axis	762 mm	1219 mm	1524 mm	1524 mm
X-Axis Max Thrust	13 772 N	13 772 N	13 772 N	13 772 N
Z-Axis Max Thrust	6 886 N	10 409 N	13 727 N	18 843 N
X-Axis Rapids	1,9 m/min	1,9 m/min	1,9 m/min	1,9 m/min
Z-Axis Rapids	3,8 m/min	3,8 m/min	3,8 m/min	3,8 m/min

General	TL-1	TL-2	TL-3 <sup>1</sup>	TL-3W <sup>2</sup>
Power	354 - 488 VAC - 3 Phase			
Machine Weight	1 860 kg	2 087 kg	2 948 kg	3 062 kg

<sup>1</sup>Big-Bore version available.  
<sup>2</sup>Only available in non-CE countries.  
<sup>3</sup>3 500-rpm available; requires enclosure.  
<sup>4</sup>22,4 kW high-torque available; 881 Nm @ 150 rpm.

