



HYT ENGINEERING COMPANY PVT. LTD.



YTB - 04

CNC AXLE JOURNAL TURNING AND BURNISHING LATHE



CNC Axle Journal Turning & Burnishing Lathe is capable of performing the following operations on wheel sets of coaches, wagons, locomotives and electric / diesel multiple units:

- Turning of in-board & out-board journals of axles of wheel sets
- Roller burnishing of in-board & out-board journals of axles of wheel sets

UNIQUE PROPOSITION

- Fully floating burnishing roller arrangement to avoid loading on revolving centers.
- Burnishing roller inclination adjustment for effective burnishing.
- Extremely wear-resistant linear motion guide ways.
- Faster Operation due to CNC Control.
- More accurate axle diameter control.
- Uninterrupted axle turning.
- Burnishing Pressure Control through HMI.
- Extremely heavy duty revolving centers for Durability.

TECHNICAL PARAMETERS

TECHNICAL DATA OF MACHINE

○ Main Drive Motor Capacity	11 KW
○ Cutting Speed for Axle Turning & Burnishing	50 to 400m/mins
○ Tool Post Feed for Axle Turning & Burnishing	0.1 to 2.5mm/rev
○ Max. Depth of Cut while Axle Turning	2mm
○ Supply Voltage	415VAC, 50 Hz**

** Special electrical supply can be considered if required.

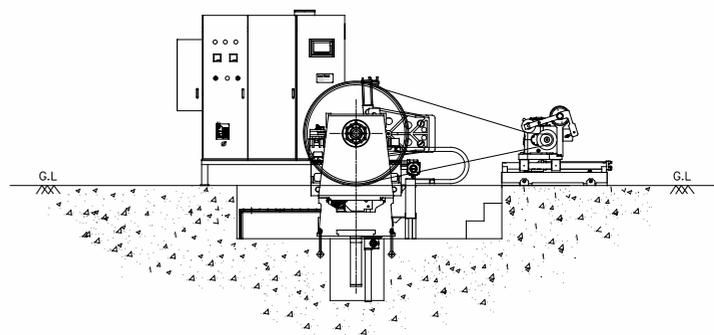
WHEEL SET DATA FOR MACHINING

○ Max. Tread Diameter	1250mm*
○ Min. Tread Diameter	540mm*
○ Wheel Width	75 to 145mm
○ Max. Axle Length	2750mm*
○ Min. Axle Length	1200mm*
○ Max. Weight of Wheel Set	50 kN
○ Min.-Max. Axle Journal Diameter	70-320mm
○ Min.-Max. Axle Journal Length	110 – 480mm

*Depends on track gauge

ACCURACIES OF WHEEL SET

○ Ovality of Journal	<0.01mm
○ Taper of Journal	<0.01/100mm
○ Surface Finish of Journal after Burnishing	<0.2 μ m Ra



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OTHER PRODUCTS

CNC Tandem Underfloor Wheel Lathe | CNC Underfloor (Pit) Wheel Lathe | CNC Surface (Above floor) Wheel Lathe
 CNC Vertical Turning & Boring Machine | CNC Axle Journal Turning & Burnishing Lathe

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Economical Rolling Stock Maintenance



Work: Plot No. 29/10, 29/10/1, 29/10/2, D - II Block, MIDC, Chinchwad, Pune - 411 019, Maharashtra, India. Ph: +91 20 66343900/06

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