



HYT ENGINEERING COMPANY PVT. LTD.



YTB - 04MA

CNC AXLE TURNING AND BURNISHING LATHE (CNC ATBL)



CNC Axle Turning & Burnishing Lathe is capable of performing the following operations on bare axle, axle with gear wheel and on wheelsets of coaches, wagons, locomotives and electric / diesel multiple units:

- Turning of bare axle, axle with gear wheel and turning of in-board and out-board journals of wheelsets.
- Journal areas of bare axle, axle with gear wheel and in-board and out-board journals of wheelsets can be roller burnished.

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.
- Separate provision for wheelset rotation through a belt drive system
- Specially designed arrangement for rotating bare axles without wheel discs
- Single - operator control through a dedicated CNC pendant

TECHNICAL PARAMETERS

TECHNICAL DATA OF MACHINE

Main Drive Motor Capacity	11 kW
Tool Post Feed for Axle Turning & Burnishing	0.1 to 2.5 mm/rev
Max. Depth of Cut while Axle Turning	3 mm
Supply Voltage	3Ph, 415 VAC, 50Hz**

** Special electrical supply can be considered if required.

WHEELSET DATA FOR MACHINING

Max. Tread Diameter	1250 mm*
Min. Tread Diameter	540 mm*
Wheel Width	75 to 145 mm
Max. Axle Length	2650 mm*
Min. Axle Length	1200 mm*
Max. Weight of Wheelset	50 kN
Min.-Max. Axle Journal Diameter	70 - 230 mm
Min.-Max. Axle Journal Length	110 - 480 mm

* Depends on track gauge

ACCURACIES OF WHEELSET

Ovality of Journal	<0.01mm
Taper of Journal	<0.01/100 mm
Surface Finish of Journal after Burnishing	<0.2 μm Ra



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 | CNC Axle Turning Lathe

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Solutions For Rolling Stock Production & Maintenance



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