

Portal Wheel Lathe 165 CNC



The HEGENSCHIEDT-MFD Portal Wheel Lathe (165 CNC) is a high production CNC wheel lathe that is easy to operate and maintain. Its portal design allows for wheel sets to roll through the lathe on shop rails. The mechanical elements and drive system are designed for cutting performance up to 32 mm² per tool post. This allows for a short floor-to-floor time for re-profiling, even for extreme wheel wear conditions.

Mounted to each side of the portal type bed are the headstocks, with integrated drivers, centers and a main drive system fitted to each headstock. Both headstocks are movable for ease of the load and unload functions.

Working Range

- Machining of new and worn wheelsets
- Wheel profile machining
- Machining of freight wheel set rims

Equipment make-up

- High performance machine capable of medium and heavy depth of cuts
- Portal type bed allowing roll-through of wheel sets
- Equipment installation on shop floor level
- Fully automatic machine control system



Machine Specifications 165 CNC

Machine dimensions

Machine Footprint (L x W x H)	9.0 m x 3.7 m x 3.4 m
Pit Dimensions (L x W x H)	16.2 m x 7.0 m x 3.4 m
Machine Weight	57000 kg

General Specification

Maximum Diameter Difference between Wheels of a Wheel Set*	≤ 0.3 mm
Maximum Radial Runout on Wheel Sets* with a diameter of ≤ 1000 mm	≤ 0.2 mm
Maximum Radial Runout on Wheel Sets* with a diameter of ≥ 1000 mm	≤ 0.3 mm
Maximum Chip Cross Section	32 mm ²

Optional Equipment

- Machining of Brake Disks
- Machining of Wheel Rim Face
- Reference Groove Re-cutting
- Smoke Extraction System
- Machine Enclosure
- Data Acquisition System

Utility Requirements

Rated Power	350 KVA
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Wheel Set Dimensions

Maximum Wheel Tread Diameter*	1250 mm
Minimum Wheel Tread Diameter*	600 mm

* Pending engineering review

