

# Portal Wheel Lathe 165 CNC



The HEGENSCHEIDT-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 mm<sup>2</sup> 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*             | $\leq 0.3$ mm      |
| Maximum Radial Runout on Wheel Sets* with a diameter of $\leq 1000$ mm | $\leq 0.2$ mm      |
| Maximum Radial Runout on Wheel Sets* with a diameter of $\geq 1000$ mm | $\leq 0.3$ mm      |
| Maximum Chip Cross Section   | 32 mm <sup>2</sup> |

### 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 |
|-------------|---------|

### Wheel Set Dimensions

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

\* Pending engineering review

