

# Underfloor wheelset lathe U 2000 - 150



## CNC-controlled, automatic measuring system

### Fields of application and uses

The U2000-150 is a universally applicable, dynamically rigid and operator- and service-friendly wheelset lathe.

It represents the state of the art in wheelset machining technology. The machine's high degree of utilization, precision, long service life and minimal maintenance costs guarantee ideal cost-effectiveness.

### Function

HEGENSCHEIDT-MFD underfloor wheelset lathes machine wheelsets of light rail vehicles in the installed

and dismantled state by reprofiling to the highest degree of accuracy.

The machine is operated by a means of a central control panel so that the operator has continuous access to all machine functions in an ideal working position. During machining, the operator is protected from flying chips. The automated machining takes most of the work out of the operator's hands, making the machine easy to operate.

**A tandem version - U2000-150D - is also available for the simultaneous machining of wheelsets in bogies with mechanically non-coupled axles.**

## Machine Specifications U2000-150

### Machine dimensions

Machine Footprint (L x B x H)	5.0 m x 2.5 m x 2.3 m
Pit Dimensions (L x B x H)	7.0 m x 6.0 m x 2.3 m
Machine Weight	16000 kg

### General Specification

Maximum Diameter Difference Between Wheels of a Wheel Set*	$\leq 0.1$ mm
Maximum Diameter Difference Between Wheels of a Bogie*	$\leq 0.3$ mm
Maximum Radial Runout on Wheel Set*	$\leq 0.1$ mm
Maximum Chip Cross Section per Tool Post	6 mm <sup>2</sup>

### Optional Equipment

- Machining of wheel brake discs
- Machining of inboard and outboard axle brake discs
- Smoke Extraction System
- Machining of coupled wheel sets
- Slippage monitoring
- Data Acquisition System
- Auto Lubrication
- Battery powered shunting car

### Utility Requirements

Rated Power (Per Machine)	80 KVA
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### Wheel Set Dimensions

Maximum Wheel Tread Diameter**	1250 mm
Minimum Wheel Tread Diameter**	375 mm
Maximum Axle Load	180 kN

\* Applicable to non-resilient wheels    \*\* Pending engineering review

