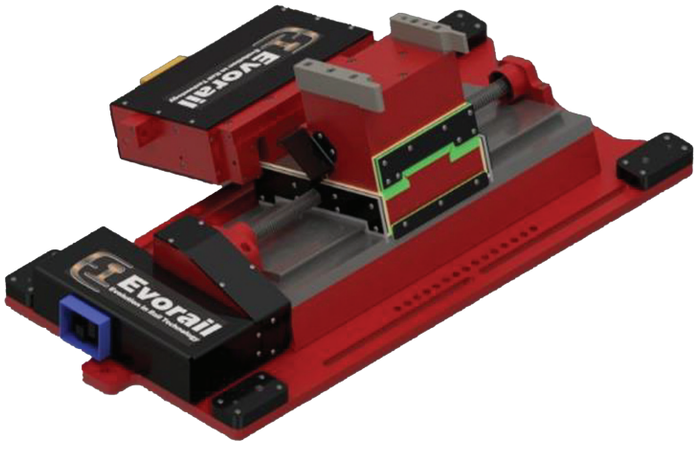
# EVOLATHE

# MOBILE WHEEL LATHE


Unlike obsolete manual lathes, our CNC-controlled mobile wheel lathes enable safe, precise, and fast wheel turning onsite or in-shop. Wheel-related service disruptions can easily cost rail operations R150,000 or more per incident, including downtime. This includes time waiting for repairs, the cost of shipping wheel sets or moving entire locomotives to reconditioning facilities, outsourcing wheel profiling to mobile contractors and lost revenue. The losses associated with the poor maintenance of wheels is equally great including possible penalties from the railway safety regulatory authorities.

Our mobile lathe machines are designed to provide railway operators with the flexibility to accurately and timely maintain the wheels on their rolling stock with minical down time and reduced cost.

EVORAIL

Evolution in Rail Technology

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**Evorail (Pty) Ltd 2017 / 001207 / 07 - VAT No 4300276161**

# GENERAL SPECIFICATIONS

**Designed for mobile maintenance of locomotive and railcar wheels.**

| | | |
|---|---|---|
| **Rail gauge** | Narrow to broad | |
| **Wheel size** | Min Diameter: | 712mm (28”) |
| | Max Diameter: | 1142 (45”) |
| **Wheel profile** | Fully customizable to customer specification | |
| **Dimensions** | Length: | 1100mm |
| | Width: | 667mm |
| | Height: | 254mm |
| **Machine weight** | 180kg | |
| **Shipping weight** | 764kg | |
| **Paint scheme** | Light machine gray \| Flat black | |

# PROGRAMMABLE CONTROLLER

| | |
|---|---|
| **Max power rating** | 20 AMP, 220/230 VAC, 1 Phase, 50/60Hz |
| **Chassis** | Width: 635mm<br>Depth: 458mm<br>Height: 355mm |


# ASSEMBLY SPECIFICATIONS

| | |
|---|---|
| **Adjustable cutting feed:** | 0 to 150mm per minute |
| **Rapid travel** | up to 500mm per minute |
| **Depth of cut** | 0.0254mm to 1.5mm |
| **Average cutting time** | 1 to 4 hours per wheel depending on condition |
| **X-axis travel range** | 350mm overall |
| **Y-axis travel range** | 76mm overall |

**Automatic lubrication system**

# ADVANTAGES OF MOBILE WHEEL LATHE

1. Use in shop or on-site
2. Easy set-up and operation
3. The low Profile of the mobile locomotive wheel lathe allows for minimal component removal while providing better access to all axles of the locomotive
4. Greater safety for the operator who does need to go under the locomotive
5. Automated CNC controlled for accurate profile cutting
6. Perfect profile with superior finish
7. Custom profiles can be programmed into the unit
8. Maximum wheel life with minimal wheel loss
9. Eliminates the cost associated with shipping the wheel sets or moving the entire locomotive to a reconditioning facility
10. Reduces labour and maintenance cost