Superior Innovation & Endless Pursuit of Excellence



MVT Vertical Boring Machine

Rolling stock (TGV type, locomotives, cars) requires an extremely low vibration level. This is achieved by a low hub offsetting compared to the thread outside circle. This machine is designed specifically for railway maintenance with the two essential wheel references, inner face and tread. MVT is made of SG cast iron which makes the structure solid.

Principal Operation:

The MVT is controlled by a CNC which automatically manages the entire boring cycle:

- Wheel loading
- Automatic wheel centering
- Dimensional measurements
- Machining
- Wheel unloading

Component of MVT

To ensure good ergonomics, the MVT comprises

- A control panel facing the working area
- An auto-diagnostic and tele-maintenance system
- An automatic wheel loading / unloading system
- A smoke extractor



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Technical Characteristics:

| Length | 9 200 mm |
|---------------------------|------------------------|
| Width | 3 660 mm |
| Height | 3800 mm |
| Approximate weight | 25 tonnes |
| Wheels external diameters | 590 to 1 250 mm |
| Wheels internal diameters | 150 to 250 mm |
| Rotation speed | 0 to 625 m/min |
| Vertical stroke | 800 mm |
| Feed speed range | 0 to 6 mm/tr |
| Fast feed speed | 8 m /min |
| Maximum chip section | 3 mm2 |
| Finish cutting feed speed | 0.15 to 0.35 mm/tr |
| Finish cutting depth | 0.2 to 1 mm |
| Cutting speed | 0 to 280 m/min |
| Radial stroke for tool | 35 mm |
| Maxi speed | 300 mm /min |
| CNC Model | SIEMENS 840D |
| Measure increment | 1 μm |
| Software increment | 1 μm, 10 μm, 100 μm |
| Measure display | 1 μm |
| Program language | SIEMENS Step7 (ladder) |
| | 1 µm |



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