
# Milling Machine VTM-compact

vossloh
enabling green mobility

Technical Datasheet

## VTM-compact: variable and powerful

The VTM-compact machine corrects serious damage to rails and turnout hotspots in commuter and urban transit systems and tunnels, removing up to 2 mm of metal per machining pass. The VTM-compact's size and light weight make it easy to transport and compatible with virtually every structure clearance gauge. The machine can be transported a number of different ways and put into operation immediately. The VTM-compact can be adjusted for use on all common track gauges and can operate on Vignoles rails, grooved rails, ballasted tracks and slab tracks.

## Benefits

/ Optimum milling finish thanks to up-cut milling
/ Gauge convertible: 1.000–1.676 mm.
/ Up to 2 mm of metal removed per pass
/ Operating speed: approx. 180 m/h, max. 240 m/h
/ Fire risk: none
/ Suitable for use in tunnels (no dust or sparks)
/ No removal of trackside switching equipment needed
/ Flexible control and operation

## Applications

/ Rail and turnout machining
/ Suitable for standard gauge and light rail
/ Suitable for Vignoles and grooved rails
/ Suitable for ballasted or slab tracks

Video

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# VTM-compact
# Technical Data

| Main dimensions | |
|---|---|
| Length over buffers (LoB) | 6.153 mm |
| Height | 2.243 mm |
| Width | 2.230 mm |
| Number of bogies<br>Number of axles | 2 (+ 2 milling axles) |
| Wheelbase between bogie pins | 4.220 mm (transport mode running gear), 2.500 mm (operating mode running gear) |
| Distance between bogie axles | no bogies but 2 axles |
| Height of vehicle floor above TOR | 144 mm |
| Vehicle gauge / structure gauge | Berlin "tight" metro |

| Speed | |
|---|---|
| Hauling speed when transported as part of train set | transport in train sets not permitted |
| Hauling speed | 30 km/h according to the licence, 60 km/h technically possible |
| Max. speed (self-propelled) | 3 km/h |
| Operating speed | 180 m/h bei 1,5 mm, max. 240 m/h |

| Weight | |
|---|---|
| Tare weight | 16,2 t |
| Max. permitted overall weight | 17,5 t |
| Maximum axle load | 8,75 t |

| Brake system | |
|---|---|
| Brake system type | hydraulic dual-chamber piston brakes (parking and service brakes), Ortlinghaus-Werke GmbH – Series 0992-009-43-014000 |

| On-track operability | |
|---|---|
| Shunting maneuvers not permitted (e.g. hump-shunting or loose shunting) | not permitted |
| Smallest traversable curve radius (transport mode/operating mode) | $R_{min}$ = 30 m (transport)<br>$R_{min}$ = 50 m (operating) |
| Max. uphill and downhill gradients/cant (transport mode / operating mode) | 40 ‰ uphill and downhill (dry conditions), downhill preferable in wet conditions |
| Transport in train set / as end vehicle | transport in train sets not permitted, only as end vehicle |

| Weather constraints | |
|---|---|
| Ambient temperature (operating mode) | between -10 °C up to +35 °C, modifications possible |

| Equipment / features | |
|---|---|
| Performance data | one milling unit on each side, trailing finish-grinding units (optional)/ flap-disc grinding units, finish-grinding units |
| Material removal | 2 mm max. material removal per pass |
| Applicable standards | DB Ril 824, EU Standard 13231:2-2020 |
| Personnel: machine operator, crew (number, qualifications) | 3 personnel for operation + 1 person for maintenance shift |

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05/25