

RAIL PROFILE GRINDER

Model **MP23** (ST290A01-11-A)



The Rail Profile Grinder model MP23 is designed to grind the whole profile of flat bottom rails (running surface, sides & radii of curvature) in one operation.

It is ergonomic, safe and simple to use and requires only one operator who does not have to support the weight of the machine during the grinding operation.

1. DESCRIPTION AND OPERATION

The outstanding features, easiness of use and robustness of the Rail Profile Grinder model MP23 afford the operator total control, safety and comfort during the grinding operation whilst delivering an excellent finish to the weld.

Thanks to the rotation system of the grinding head, the Rail Profile Grinder model MP23 can work on the complete rail profile without the need for the operator to turn the machine. Moreover, during the grinding operation, the operator is always located safely between the running rails.

Irrespective of the position of the grinding head the engine remains in a vertical position.

The machine is fitted with:

- A control system limiting the lowering of the grindstone, which avoids over-grinding (hollowing) of the weld;
- An adjustment wheel (in an ergonomic position near the operator) allows the operator to modify at any time the angle of the grinding head;

- An electric driving control of lowering and raising of the grindstone; the control of this device and the control of the start of the engine are located in an ergonomic position convenient to the operator;
- A removable outrigger that is not in the axis of the grindstone thus avoiding interference with unground welds on the adjacent rail;
- A working bar for the operator. This bar is almost parallel to the rail to be ground and faces the operator.
- Six rollers (three on each side of the grindstone) which ensure a perfect planarity during the grinding operation;
- Four carrying foldable handles allowing the machine to be easily handled by 2 men;
- The machine is fitted with 4-screw stone holder plate.
- The machine is supplied without a grindstone and painted as standard in RAL 1004 bright yellow colour.

2. TECHNICAL DATA

- Petrol engine **Honda GX270**, four stroke, recoil starter:..... 9 hp (6.6 kW) at
3,600 rpm
- Engine speed: 3,600 rpm
- Grindstone rotation speed: 4,000 rpm
- Distance between centres of rolling rollers: From 1,000 to
1,120 mm
- Angular range of inclination of the grindstone: 180°, ±90° (*according to
the vertical axis*) (*a wheel
turn corresponds to an
inclination variation of 3°30'*)
- Grindstone down feed: 2 mm per rotation
- Maximum grindstone diameter:..... 150 mm
- Acoustic level: ≈ 84 dB
- Dimensions:
 - Length: 1,600 mm
 - Length: 640 mm
 - Height:..... 880 mm
- Mass of the machine:..... 97 kg
- Mass of the machine in working conditions: 109 kg (*104 + 5 kg
equilibrating bar which can
be fastly removed*)

In the interest of our customers and in anticipation of the constant improvements that we wish to bring to our equipment, we reserve the right to modify certain characteristics (without modifying its functions) during production. The track gauge and network type should be sent to us beforehand for verification, to ensure that the equipment offered is compatible.

Any modification and / or technical change arising after the date of the offer may result in a revision of the commercial offer.

Drawings and pictures may include some options and are not contractual.

Masses and dimensions may vary by ± 5%.