

FROG POINT AND CHECK RAIL GRINDING MACHINE

MODEL MC3

The **Frog Point and Check Rail Grinding Machine model MC3** is especially designed for **de-burring and grinding flat bottom rails and check rails** in any type of crossing and switch.

The machine design allows easy off and on-tracking by two operators. Ergonomic, precise and sturdy controls enable excellent visibility over the grinding area (including the top of the rails).

Very easy to use, this mobile grinding unit permits a 30° inclination of grindstone on either side of the vertical and 25° on either axis of the track, while obtaining high grinding output.

The MC3 conforms to EC standards.



1. DESCRIPTION AND OPERATION

The Frog Point and Check Rail Grinding Machine model MC3 offers excellent visibility over the working area (see drawing next page) without modifying the grindstone height.

It is composed of the following elements:

- An **under-carriage of light construction** moving on track fitted with 4 insulated single-flanged rollers (extended life-time), suitable for your track gauge;
- A **mobile grinding assembly** fitted with 3 deep-grooved rollers permitting 30° inclination of grindstone on either side of the vertical, which eliminates any mistake and defect of the guiding system (perpendicular to the track);

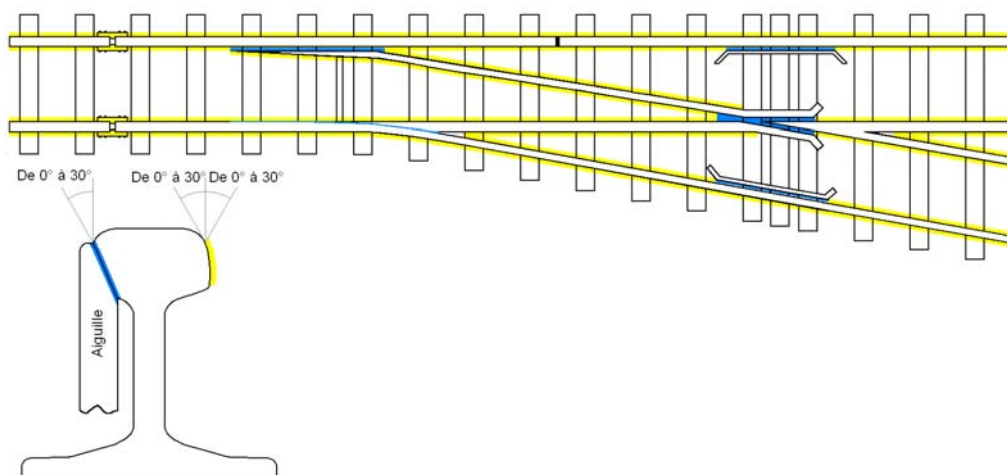
1. DESCRIPTION AND OPERATION (Cont'd)

- A vertical and lateral grinding adjustment by means of a lever with a locking device;
- An amply dimensioned transversal stroke;
- Transmission by means of a belt made from neoprene rubber with triangular teeth, poly-V, fully resistant to abrasives, oil and weather variations;
- Separated hand-wheel for height and inclination control enabling:
 - Quick and accurate adjustment;
 - No modification of pre-set height in case of inclination adjustments.
- A graduated dial to show the angle;
- Four handles enabling two men to easily off-track the machine;
- An aluminium casing for belt and a metal one for grindstone;
- A tool kit;
- An instruction manual.

The machine can be equipped with either a holder for double sided grindstones (works on both lateral faces) or a holder for single sided grindstones (works on one lateral face only). The type of holder must be indicated on the order.

All mechanical parts are made of special steel. They are treated, machined and set on ball bearings, which ensures their interchangeability and the sturdiness of the machine.

The machine is supplied without grindstone and painted as standard in bright yellow RAL 1004 paint.



Drawing of grinding areas for MC3

Blue area: sides of rail in grooves (frog points, between rails and check rails, between rails and switchblades)

Yellow area: sides of rail elsewhere

2. TECHNICAL DATA

- Track gauge: 1 435 mm (*other on request*)
- 4-stroke **Honda GX200**, air-cooled, recoil starter, super silencer with protective grid and engine stop remote control: 5,5 hp (4 kW) at 3,600 rpm
- Grindstone angle up to: 25° to the axis of the track
(*enabling the grinding of the top of the rail*)
- Grindstone speed rotation: 3 570 rpm
- Grindstone lowering per capstan turn: 5 mm
- Grindstone movement:
 - Vertical angle: 30°
 - Horizontal stroke: 385 mm (*i.e. 240 mm inside and 145 mm outside the track*)
 - Vertical stroke: 185 mm (*i.e. 110 mm above rail top and 75 mm under rail top*)
- Tool holder for:
 - Single sided grindstone: 254 x 32 x 25,4 mm
 - Or double sided grindstone: 254 x 40 x 76,2 mm
- Noise level during grinding: 85 dB(A) (*at operator's ear*)
- Colour: RAL1004 (yellow)
- Dimensions:
 - Length: ≈ 2 160 mm
 - Width: ≈ 1 120 mm
 - Height: ≈ 1 050 mm
- Total mass: 99 kg

3. ACCESSORIES AND OPTIONS (with extra price)

- **Grindstone lighting device**
(*as original supply*)
- **Spark protector**
(*as original supply*)
- **One roller braking device with "dead man's" handle**
(*ref. 28250FM – as original supply*)
- **Two rollers braking device with control lever (parking)**
(*ref. 28250EX*)
- **Speed adjustment with manual control**
(*as original supply*)
- **Wheel barrow for on/off-tracking of the machine and moving over rough ground**
(*ref. 28250BM*)

3. ACCESSORIES AND OPTIONS (with extra price – cont'd)

- **Standard return stand**
(ref. 28250AV)
- **Protective cover**
(ref. 28157)
- **Power take-off for tool-holder flexible shaft use**
(as original supply)
- **Flexibles**
(for tool holder use)
 - Flexible without clutch:
 - 3 m length (ref. 16300A);
 - 4 m length (ref. 16300B).
 - Flexible with clutch:
(compulsory with E.C. standards with power take-off):
 - 3 m length (ref. 16300E);
 - 4 m length (ref. 16300G).
- **Tool holders**
For flexible shafts:
 - Straight tool holder for frog points, rail web and rail ends grinding operations (ref. 600W (except for France) or ref. 600W1 (USA) or ref. 600AL);
 - Right-angle tool holder for welds grinding operations (ref. 600AK or ref. 600X);
 - Other tool holders are available on request.

4. CONSUMABLES (with extra price)

- **Grindstones for MC3**
 - Single sided recess: 254 x 32 x 25,4 mm (code N00740);
 - Double sided recess: 254 x 40 x 76,2 mm (code N01952).
- **Tool-holder grindstones (use with power take-off and flexible shaft):**
 - For straight tool-holder 600 W:
 - Grindstone 230 x 20 x 16 mm (code N00742).
 - For straight tool-holder 600 W1:
 - Grindstone 203 x 25 x 16 mm (code N02447).
 - For straight tool-holder 600 AL:
 - Grindstone 200 x 25 x 18 mm.
 - For right-angle tool-holder 600 AK:
 - Grindstone 115 x 50 x 5/8".
 - For right-angle tool-holder 600 X:
 - Grindstone 230 x 3,2 x 22,2 mm (code N00728);
 - Grindstone 230 x 4,8 x 22,2 mm (code N00729);
 - Grindstone 230 x 6,4 x 22,2 mm (code N00730).

*We reserve the right to modify any equipment specification of the present offer to take into account the latest technical improvements and working conditions at the date of manufacturing.
Pictures and drawings may include some options and are not contractual.*