

RAIL THREADER

MODEL MPR

The **Rail Threader model MPR** is specially designed to carry out operations of setting, clearing, gauging of flat bottom rails on railways site (track laying and maintenance).



1. DESCRIPTION AND OPERATION

The **Rail Threader model MPR** enables the handling of rails laid on the platform embankment or on sleepers and their correct gauging. It can also be used to replace an old LWR by a new one.

It handles both rails at once (it can handle only one as an option: see section 3: Accessories and Options at extra price) on wooden, concrete or steel sleepers. Handled rails can have any linear mass.

The Rail threader model MPR is mainly composed of:

- A central frame bearing the pump which is driven by a diesel engine;
- A double horizontal beam with dismountable extensions fitted with clamps and rollers at each end;
- Two transfer heads each composed of a slewing trolley travelling inside the double beam, and a lower self-propelled trolley fitted with an hydraulic rail clamp and single flange rollers;
- Two hydraulic rams driving slewing trolleys enabling to spread or close the rails;
- A lightening device for the clamps;
- Two hydraulic rams enabling the beam to raise or lower along with the rails;
- An additional distributor.

1. DESCRIPTION AND OPERATION (Cont'd)

Only one operator is necessary to control the MPR (hydraulic control), thus requiring only few manpower. Moreover, as it is self-propelled the MPR has a great autonomy to travel to site.

The Rail Threader model MPR is a machine operating in full safety. The rail clamps design avoids their opening when loaded. Hydraulic distributors for clamps opening are fitted with a locking device to be freed before controlling driving levers.

2. TECHNICAL DATA

- Track gauge: from 1 000 to 3 340 mm
- Diesel engine **Hatz 1D42C**, 4 stroke, air cooled, 7,1 hp (5.2 kW) à 3,600 rpm
soundproofed, electric starter:
- Travelling speed: from 0 to 3,5 kph
- Tanks:
 - Fuel: 15 L
 - Hydraulic oil: 40 L
- Output: 800 m/hour
- Maximum ramp: 35 ‰
- Rails to be handled: from 37 to 68 kg/m
- Lifting power: 4 500 daN (*i.e. 4.5 tonnes*)
- Slewing power per slewing ram:
 - When spreading: 1 000 daN (*i.e. 1 tonne*)
 - When closing: 500 daN (*i.e. 0.5 tonne*)
- Lifting stroke: 500 mm
- Roller diameter (1 flange): 100 mm
- Wheelbase: 800 mm
- Double horizontal beam length:
 - Length with extensions: 3 722 mm
 - Length without extensions: 3 058 mm
- Working pressure: 50 bar
- Additional distributor pressure: 100 bar
- Floodlights:
 - Power: 500 lumens (*equivalent to ≈ 50 W*)
 - Consumption: 1.2 A (in 12 V)
- Dimensions:
 - Length: 1 620 mm
 - Width: from 3 058 to 3 722 mm
 - Height: 1 273 mm
- Mass: 1 070 kg

3. ACCESSORIES AND OPTIONS (at extra price)

- **Equipment for single rail handling, by adding a third lifting ram**
- **Off tracking equipment and turntable**
- **Frame meeting road loading gauge 2,500 mm with swiveling extensions**
- **Hydraulic rail puller ATR6MPR, force 6 tons, to pull 120 m maximum long rails, or ATR16MPR, force 14 tons, to pull 240 mm maximum long rails**
(with 5 m long flexible hoses and quick coupling for the distribution box of MPR: ATR6MPR working pressure = 50 bar; ATR16MPR working pressure = 145 bar)
- **Carrying trolley with screw brake**
- **Removable frame for twin block concrete sleeper, for use on sleepers RS or SL**
- **Special removable extensions**
(length on request)
- **Additional working light**
- **Elevating frame**
This frame, bolted under the bearing base, enables the machine to rest on the ballast between two sleepers. It is to be used when lining the track or for transferring rails laying on RS or SL sleepers when the Railways authorities do not allow resting on the concrete blocks. This frame is supplied only on request.

*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.*