UNIPART

Performance in motion

Rail Clipper

Unique self-propelled road-rail clipping machine

The Rail Clipper is a self-propelled, clipping machine with applications in rail construction, maintenance and renewal operations.

The powerful rubber tracks make this unique machine capable of loading and unloading itself onto delivery vehicles and to move on and off the rails, without need for a crane.

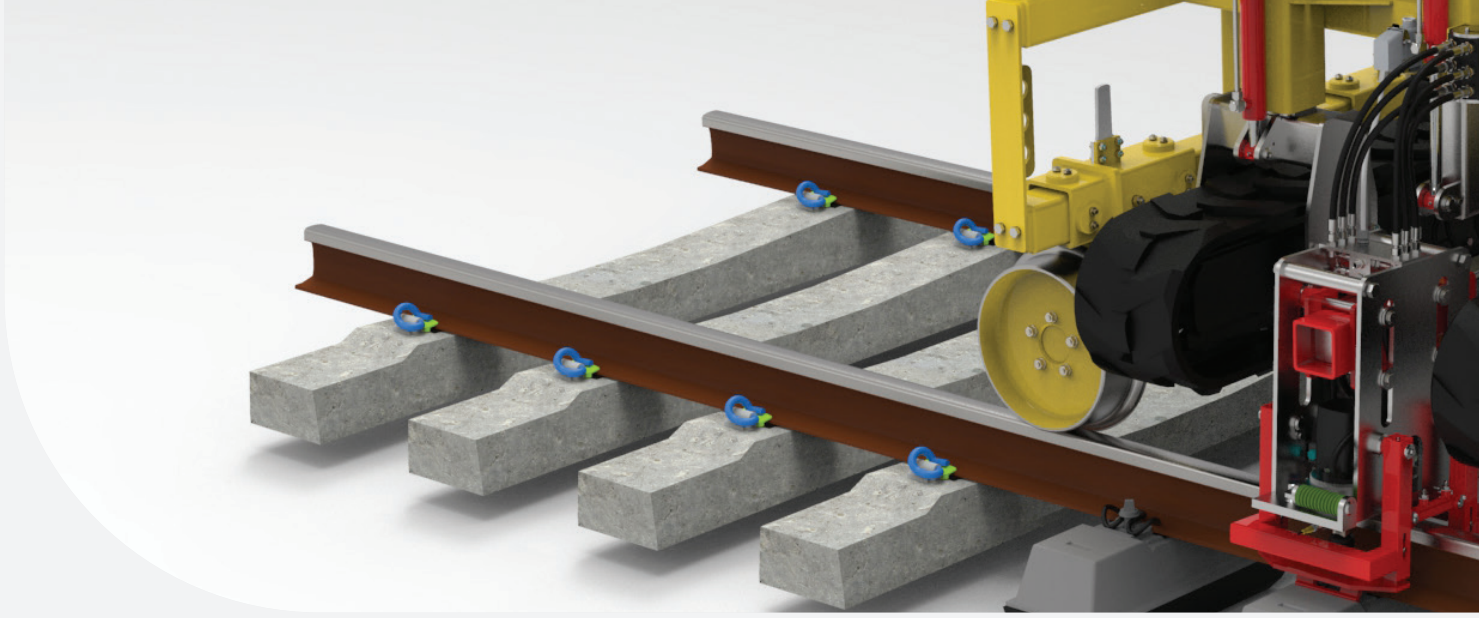
Once on the rails, the machine can lift sleepers in track renewals work, as well as either setting or releasing the clips, all at high speed as a result of the semi-autonomous mode.

The machine design incorporates interchangeable modules for the most popular clip types for Pandrol FC and FE Fastclips. Options for Pandrol PR and E-clips and Vossloh fasteners can also be requested, making it suitable for the majority of the global rail network.

All machines are supplied with an adapter head to connect to the client's machine and adjustable heads can be supplied, removing the need to swap heads for different host machines.

Benefits

- Self loading and unloading
- Self on and off-tracking
- Radio remote control increases safety for the operator
- Interchangeable Clipping / De-Clipping modules for different fastening systems
- Semi-autonomous operation - low training requirements and simple set up



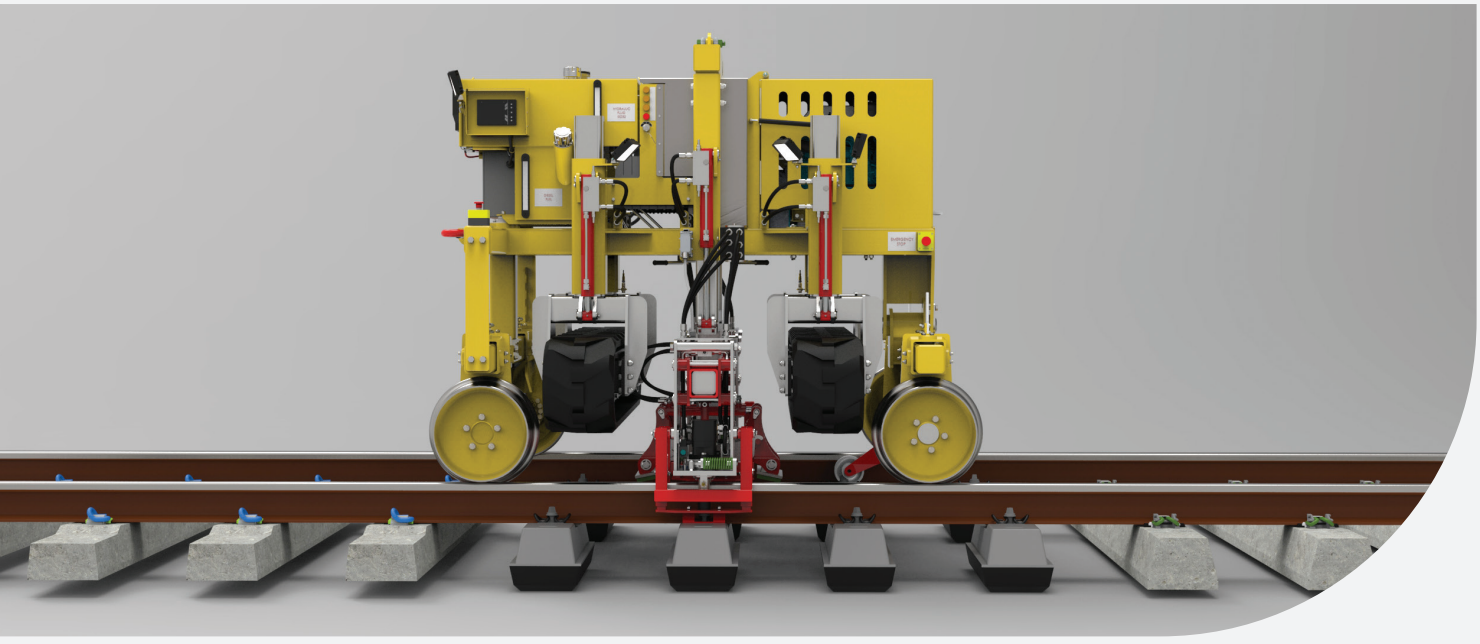
Key Features

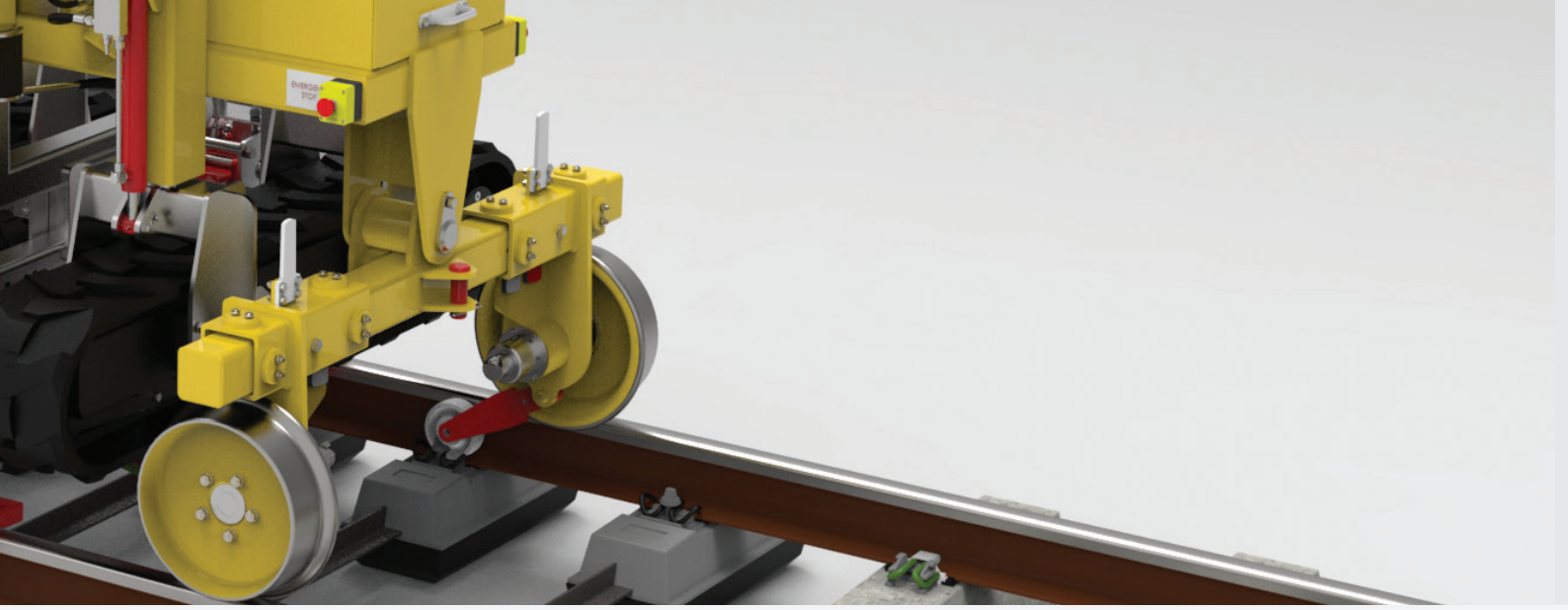
- Wheels of any profile may be specified.
- Manual Control - Radio Remote & Pendant Remote
- PLC Controlled for semi autonomous working modes.
- Tier 4 Stage 5 Emissions Diesel Engine.
- Modules for Pandrol E , Fast Clip and Vossloh Clips.
- Lift itself on and off the rails, no additional cranes required.
- Equipped with Braking System.
- Easy to Transport as a result of the rubber tracks and lightweight design.
- The sleeper lifting device can be hydraulically raised above DC fourth rails when renewing or re-stressing running rails.
- Clipping and de-clipping assemblies are quick and easy to set for different rail heights.
- Each of the clipping and de-clipping mechanisms can be individually disabled allowing the machine to work on one or both of the rails.
- Lamp irons are fitted as standard.
- Clip catcher plates fitted to limit the clip travel.
- Fitted with a solar re-charged battery system to run the marker lights and a document container as standard.
- Toolbox is provided for storage of spare sleeper lifting pads and equipment.
- The sleeper lifting device requires just one control to operate it and can be fitted with urethane pads for lifting concrete sleepers, or with a hooked steel pad for lifting steel sleepers.

Average Work Rates

- **Fastclip Releasing:** 700 to 1400 sleepers per hour
- **Fastclip setting with sleeper lifting:** 350 to 700 sleepers per hour
- **Vossloh™ clip setting / releasing:** Up to 600 sleepers per hour

Work rates vary according to site conditions and the type of clipping system being installed).





Technical Specifications

Tare Weight	2,900 kg / 6,380 lb
Engine Power	15 kW / 20 hp
Fuel	Diesel
Hydraulic System	Twin gear pumps driven directly from the engine flywheel
Drive to Tracks and Rail Wheels	Hydrostatic open centre with proportional valve
System Pressure	150 Bar / 2,175 psi
System Flow	2 x 20 1/min / 2 x 10.5 USgpm
Fuel Tank Capacity	47 l / 12.4 USg
Typical run time between refuelling	12 hours

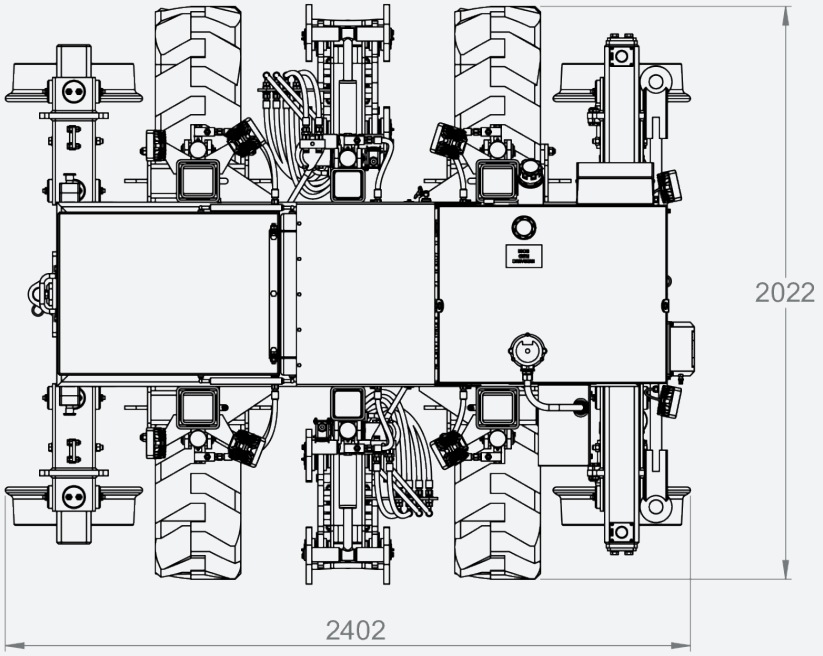
Rail Mode

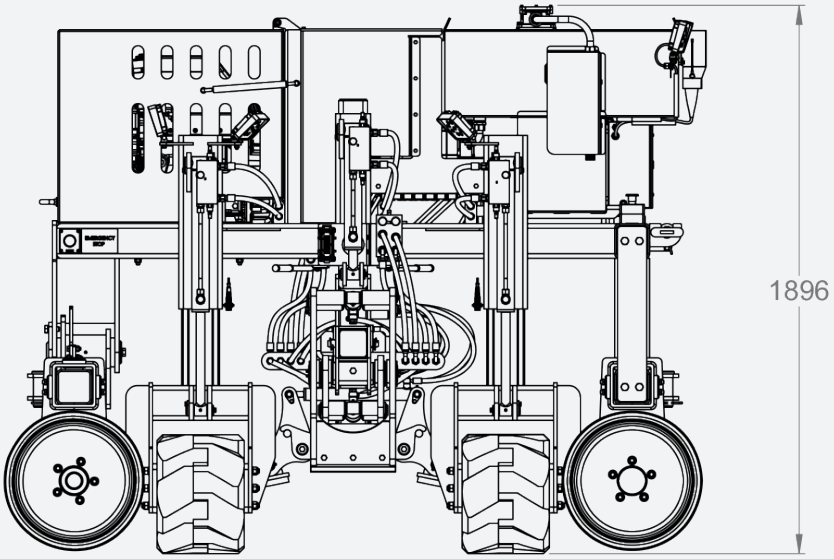
Wheel Diameter	340mm / 13.4 in
Wheel Profile	P1
Gauge	1000, 1067, 1219, 1435, 1495, 1600 & 1776 mm
Control System	Manual or Semi-Auto
Plc Safety Classification	ISO13849-1: Pld IEC62061: SIL 2
Plc Protection Class	IP67
Plc Vibration Resistance Test	30g / 6ms: 24,000 shocks
Max Travel Speed	5 km/h / 3 mph
Work Modes	Clip Release / Clip Fasten / Clip Fasten + Sleeper Lift

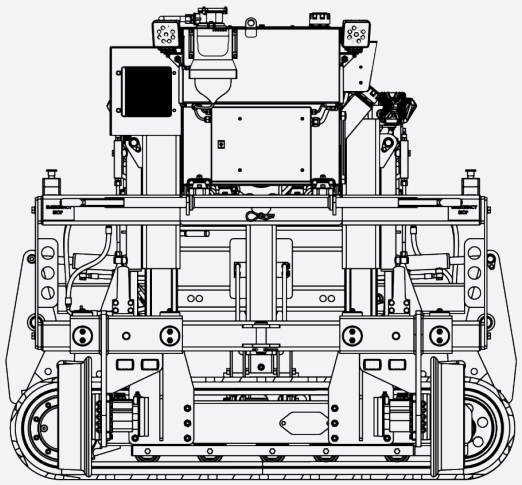
Road Mode

Track length	1,600mm / 5ft 2 in
Track Width	300mm / 11.8 in
Max Gradient Capacity	40 degrees
Approach Angle	90 degrees
Departure Angle	90 degrees
Ground Clearance	156mm / 6.1in
Transport dimensions (L x W x H)	2022 x 2402 x 1896 mm 79.6 x 94.6 x 74.6 in

Technical Drawings







Contact us today to learn how we can help your business improve reliability, efficiency and safety in railway operations.

UNIPART

Click or scan to contact us