

Grease Pump

Rail Grease Pump – FP-112-GP

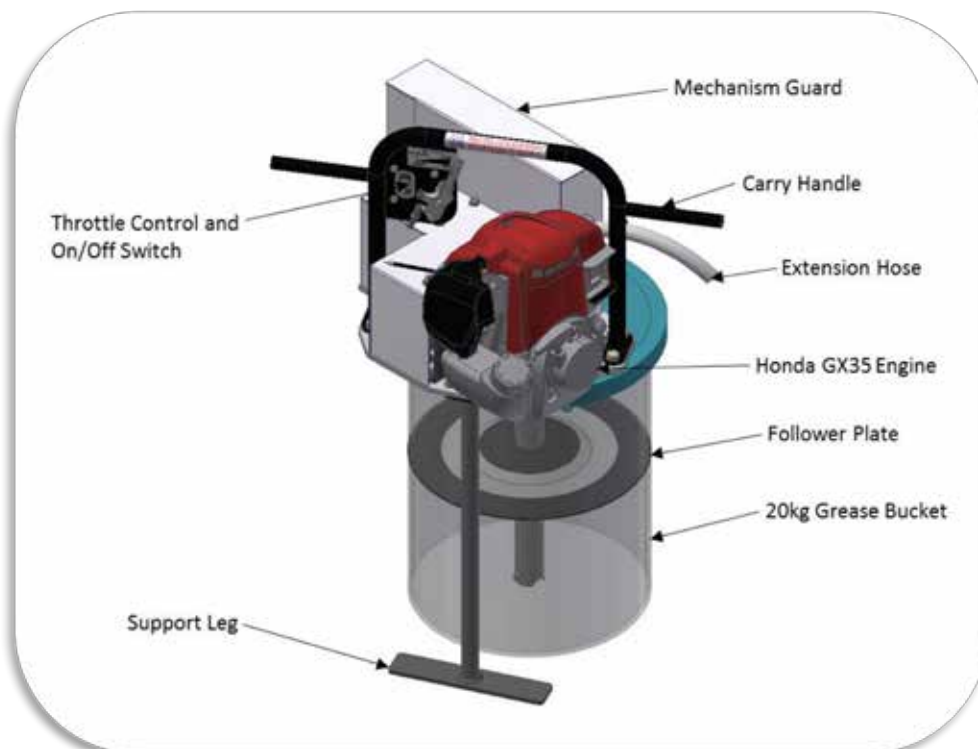
Features

- Mounts to a 20L grease bucket
- 4 stroke petrol engine, recoil start
- Tare weight < 21.5 kg
- 3.8 L/min pumping capacity
- Includes clutch and pressure cut off
- Includes carry handle and support leg
- Fully guarded

Lid locking points



Part No. FP-112-GP



Grease / Lubricants

Rail Curve & Wheel Flange Grease

Rail Curve Grease is a superior grease lubricant designed to prevent wear on both track and wheel flanges when curved track sections are encountered.

Rail Curve Grease contains lubricious solid graphite dispersed in highly refined mineral oil, providing very low friction and high load carrying capacity. It has a working temperature range from minus 10° C to plus 150° C.

Areas of application

The wheel flange/rail gauge face contact area on tangent or curved track

Features

- Extends the life of rail tracks
- Extends the life of wheel flanges
- Reduces rolling friction between tracks and wheels – reduces fuel consumption
- Reduces “hunting” as the contact time is reduced
- Reduces maintenance as wear of tracks and wheel flanges are reduced
- Reduces noise in tight curves



Part No. **1121358-CURVE**

Switch Plate Lubricant - Biodegradable

Rocol BIO - SPL is a specially formulated biodegradable oil for use on Railway Switch Plates. When tested to the internationally recognised CEC-L-3-T-82 Biodegradability Test, Rocol BIO-SPL shows greater than 90% oil loss within 21 days which indicates that the product will readily break down in the soil and is therefore regarded as biodegradable. Upon drying, a lubricious, thin film is left on the chair which provides excellent long term lubrication.

Areas of application

- Railway switch plates

Features

- Low toxicity - user friendly
- Biodegradable - will not contaminate soil or ground water
- Resists water washout
- Excellent corrosion protection
- Low coefficient of friction - good lubricity, easy points operation
- Low viscosity - can be applied by spray, oil can or brush



Part No. **1121358-SPL20**

Part No. **1121358-SPL05**

Part No. **1121358-SPLSPRAY**

Top of the Rail (TOR) compound

Rocol TOR Compound is specifically designed to reduce wheel squealing noise generated by the stick-slip oscillations, lateral creep forces and other resonances due to materials and wear of mating components when negotiating a curve.

The effectiveness of this product is due to its coefficient of friction consistency regardless of what pressure that may result when the train is turning.

Rocol TOR Compound has a wide operating temperature range to handle the extremes of the Australian climate.

Areas of application

- Top of the rail on curves where noise is generated

Features

- Consistent coefficient of friction
- Ability to operate over a wide temperature range from -10°C to 150°C
- Rain water resistant
- Pumpable by common track side lubricators
- Minimum usage is required for each application
- Good residue effect
- May reduce wear and short pitch corrugations
- Thin even film
- Will not cause braking difficulties



Grinders

Rail Grinder – FP-157

The Melville Equipment Grinder Diesel engine is modified in-house to operate at high tilt angles and give much greater torque under load than similar sized engines. Prior to despatch Rail Profile Grinders are supplied with a Melville Equipment proven fast cut grinding wheel for maximum bite into the rail and a high cutting rate and fully tested. The grinder has wide set rail rollers to achieve the smoothest finish possible. Flange rollers assist in supporting the weight of the grinder when grinding the rail face.

(Extended axles and Larger Flanged Rollers available for grinding Crane Rail)



Specifications

Models	157-CV	157-CVE	157-CK	157-DD	157-DC
	Yanmar	Yanmar	Robin		
Source	Diesel	D/Electric Start	Diesel	Hydraulic	Electric 3Ph-415V
Power (Hp)	4.8	4.8	5	-	5
Weight (kg)	75	90	79	57	79
Length (mm)	1150	1150	1150	1150	1150
Width (mm)	650	650	650	650	650
Height (mm)	1000	1000	1000	1000	1000

Conversion Kit

Rail Grinder conversion kits are available to mount to numerous other brand grinder frames. The kit includes a converted Diesel engine, engine mount adaptor plate, adaptor shaft, pulley wheel and belt. The kit is supplied assembled and tested, ready for installation straight onto the existing frame.

Conversion Model – Suit Geismar Grinders

Model	FP-157-CZ	FP-157-BG-2
Engine	Yanmar	Robin
Fuel	Diesel	Diesel
Power (Hp)	4.8	5
Weight (kg)	32	36



Yanmar Conversion
Kit – FP-157-CZ



Diesel – FP-157-CV



Electric – FP-157-DC



Hydraulic – FP-157-DC

For Grinding Stones please refer to Rail Accessories

Base Grinder

Base Grinders remove excess metal from the weld's joint base, thus assuring the rail matches the original rail profile allowing the rail to easily pass through the plates.

Features of the Hydraulic Base Grinder:

- Four single-flanged wheels for riding on the track
- 200mm diameter adjusting wheel rotated by a hydraulic motor to raise and lower the grinding stone
- Grinding stone tilt and gimbal adjustments on the grinding assembly gets within 38mm of sleeper
- Grinder assembly on a pivotal central point



Web Grinder (Dual Head)

The Dual Head Web Grinder/Polisher was designed for grinding the web of the rail ahead of the Flashbutt welders thus providing a good contact surface for the welder's electrodes and at times to provide good grip surfaces for the tensor used. It is also suitable for grinding non-essential areas of the rail web when deemed necessary.

The Dual Head Web Grinder/Polisher does not have a built-in source of power thus requiring a connection to a Mobile Welder or an external hydraulic power source.



Part No. 1120938

Specifications

Model	Dual Head
Height (mm):	533 with the grinder heads fully down (without main handle)
Length (mm):	476 without handles
Weight (kg):	44
Grinding Speed (rpm):	2,000-3,000
Pressure (psi):	3000
Flow (Litres):	45
Connections:	1/2" quick disconnect couplings

Refer page Rail Accessories Section for Air powered Angle Grinder

Handling Equipment

Lifting Beams – Fixed and Adjustable

A range of beams are available in a variety of lengths with capacities up to 300 tones.



Fixed Lifting Beams



Adjustable Lifting Beams

Switch and Crossings Lifting Beam

5T capacity Part No. 1121064

Sleeper Laying Beam

The standard range of Sleeper Lifting Beams with an odd number of Droppers (3, 5, 7) are configured for Sleeper Laying utilising alternate dropper chain assemblies.

When beams are ordered for laying purposes please advise your spacing requirements. Should you have multiple spacing requirements Melvelle Equipment can supply you with adjustable beams. Please call to discuss your specification.

Specification

Beam, chains and hooks

Part No.	No. of Sleepers (Laying)	Sleeper Centres (mm)
1120588	3	500
1120592	4	500
1120605	4	600
1120808	4	Adjustable
1120913	7	Adjustable



Other laying beam and sleeper centre configurations available upon request.

Sleeper Lifting Beams



Sleeper lifting beams are available in various styles with either fixed or adjustable centres, allowing for the differing sleeper spacing's.

In addition depending upon the type of beam, a wide variety of dropper chain configuration and sleeper hooks are available.

The standard range of Sleeper Lifting beams are configured for loading, with dropper chains fitted at half sleeper spacing.

E Clip Hook



E Clip dropper chain assembly

Part No. – 1120810

E-Clip Lifting Hook only

Part No. – 1120891

Fast Clip Hook



Fastclip dropper chain assembly

Part No. – 1120809

Fastclip Lifting Hook only

Part No. – 1120892

Sleeper Lifter



Sleeper Lifter only

Part No. – 1120893

Rail Handing Beams

Beams are available for handling 9m (30ft), 13.5m (45ft) and 18m (60ft) long rail sections.

These beams can be fitted with various types of rail clamps detailed in the section or can be used with webbing slings.

All beams are manufactured with a centre lifting eye as standard.

In addition to this they are also fitted with lifting lugs at each end for use with double leg sling.



Specifications

Part No.	Capacity (kg)	Beam Length	Rail Length
1120793	1,000	4.0m	9m (30ft)
1120793-B	1,500	7.5m	18m (60ft)

Camlok Rail Lifting Clamps – Type CR

These clamps are designed to lift most sizes of rail in use in Australia. The clamp is either fitted with a hook ring for direct connection to the crane, or with a plate link for fitment with a short chain assembly.

Beam Length	Rail Length	Capacity (kg)	Part No.
4.0m	9m (30ft)	1,000	1120589
7.5m	18m (60ft)	2,000	1120590

Description	Part No.
Chain & shackle (attaches to clamp)	1120966



Drag Clamp



The 12 ton Drag Clamp is for fitting over the head of the rail, and is a means of dragging or pulling lengths of rail up to 183m (600ft) long safely. The clamp is used with various formats of tow chain and wire ropes, the most popular being a 2m or 4m long, 16mm grade 8, twin chain sling with large master link at each end (minimum breaking load 42.4 tonnes).



Description	Part No.
Rail Drag Clamp 12T WLL (60kg,68kg)	1120796
Shear link assembly with shackles	1120797
Chain for drag clamp 16mm x 4m	1120798
Chain for drag clamp 16mm x 2m	1120799



Description	Part No.
Rail Dragging cam 20T WWL (41-60kg)	1121119
Rail Dragging cam 20T WWL (68kg)	112119-68
Rail Dragging cam chain assembly: Consisting of 1 leg x 5m long x 16mm chain	112119-CH

Ironman

For transporting, lifting and transposing rail, the Ironman is generally used in pairs. The standard model is fitted with a **1120791** – 1,500kg Yale Pull-Lift and a **1120589** – 1,000kg Camlok rail clamp.

Each unit requires two persons for assembly and is easily dismantled for storage and transportation.

Unit is fully braked and approved by Network Rail UK.

TOC Waver also available.



Part No. 1120790 - 1435
(includes 1170791 & 1120589)

Adaptor link



2-Rail Carrier



Red LED Light



Camlok Rail Clamp



LUL Rail Clamp



Rail Storage Bracket



Product	Part No.	Mass (kg)	Cert. No.	SWL
Ironman c/w lifting equipment	28957	153	PA05/03385	1500kg
LUL Ironman c/w lifting equipment	28717	141	PE007/1057	1500kg
Ironman w/o lifting equipment	28397	112		1500kg
LUL Ironman w/o lifting equipment	33273	104		1500kg
2-Rail Carrier	35212	4.0		1000kg
Rail Storage Bracket	28511	7.0		500kg
Adaptor Link (for use with Camlok)	27924	1.0		1500kg
Camlok Rail Clamp	04059005	12.5		1000kg
LUL Rail Clamp	06275	8.5		1500kg
Yale Pul-Lift	04059002	15.0		1500kg
S&C lifting chain	28640	6.0		3150kg
Red LED light	04082021	0.1		N/A
Top Beam		31		
Braked End Frame Assembly		36		
UnBraked End Frame Assembly		34		
Bottom Cross beam		11		

Multi-Rail Handler

3 Rail Lift

Part No. **1121020-3**

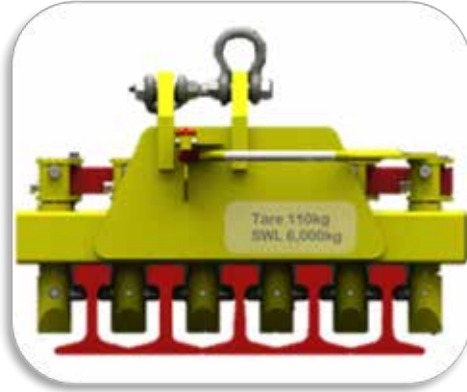
5 Rail Lift

Part No. **1121020-5**

8.5m Spreader Beam 10T Part No. **1120793-M**

The Multi-Rail Lifter is designed for the handling of bulk rail deliveries. Both manual and hydraulic versions are available.

Multi-Rail Lifters can be made to suit any rail section including conductor and grooved rails.



Rapid Loading and Unloading of Rails

Specification

Weight	115kg
Height (mm)	495
Width (mm)	290
Length (mm)	890
Max Hyd Pressure	190 Bar
Min. Hyd Pressure	90 Bar



Rail Handling "A" Frames



- "A" Frames are rated to 500kg each
- Total mass 78kg each
- Cross beam weight 34kg
- "A" Frame ends 22kg each
- Lifting block and tackle to 500kg capacity available on request

Part No. **1121147**