

# Weld Shears

## Rail Weld Shears –FP-168 & FP-172

Melville Equipment Rail Weld Shears come in a variety of models, including models for tram and crane rail. Each can be powered by a hand pump mounted on the shears or by a petrol or diesel power pack. The shearing force is centred to equalise the lifting and driving in forces on the blades which ensures an inherently stable and flat cut surface on the rail head.



Part No. **FP-168-DU**

### Hand Pump Models

	168-DU	172-DS	172-FP
<b>Rail Size</b>	Standard	Tram	Crane
<b>Weight (kg)</b>	54	65	65
<b>Dimensions (mm)</b>	1000 x 450 x 450	1150 x 530 x 600	100 x 475 x 450
<b>Pressure (max)</b>	297 bar/ 4300psi	297bar / 4300psi	297bar / 4300psi
<b>Pump Flow (max)</b>	8L/min	8L/min	8L/min
<b>Hydraulic Oil</b>	ISO68	ISO68	ISO68
<b>Hydraulic hose Connection Size</b>	½"	½"	½"
<b>Pressure Settings:</b>			
<b>Hand Pump Pressure Relief</b>	297bar/4300psi	297bar / 4300psi	297bar / 4300psi

**Note: 172-DS is used for Tram Rails; does not cut into Groove**



Part No. **FP-168-EL**

### Control Valve Models

	168-EL	172-FO
<b>Rail Size</b>	Standard	Crane
<b>Weight (kg)</b>	48	65
<b>Dimensions (mm)</b>	1000 x 450 x 450	1100 x 475 x 450
<b>Pressure (max)</b>	276bar / 4000psi	248bar/ 3600psi
<b>Pump Flow (max)</b>	8L/min	6.8L/min
<b>Hydraulic Oil</b>	ISO68	ISO68
<b>Hydraulic hose Connection Size</b>	½ "	½"
<b>Pressure Settings:</b>		
<b>Hand Pump Pressure Relief</b>	297bar / 4300psi	-
<b>Valve Relief</b>	-	3600psi

### Features

- Never undercut the weld
- Weld cuts are flat to minimise grinding
- Handles balance weight of shears & easier to carry shears up rail ballast.
- Long internal guiding to stop jack knifing
- Rollers under the rail head minimise movement

**The weld shear range can shear hot rail welds from 62.5mm to 150 mm rail heads.**

**Blades are available for all sized Standard, Tram and Crane Rails. Other sizes are available on request.**

**Note: Weights quoted include the two shear blades.**

## Hydraulic Powerpacks for Weld Shears



Hydraulic oil temperature control is carried out at every step of the design and manufacture process. The hydraulic oil reservoir is an aluminium casting with heat dissipating fins shaped to maximise the surface area in contact with the atmosphere. Heat transferred from the engine crankcase through the pump bell housing to the pump is restricted with an insulating gasket as well as air ventilating holes through the bell housing. The pump receives attention at our factory to further improve its efficiency and reduce heat generation. The whole design concept is for a reliable working unit.

### Specifications

Model	FP-115-1	FP-115-4	FP-115-5
Engine	Honda 5.5HP Petrol	Yanmar 4.8HP Diesel	Electric Diesel
Dimensions (mm)	510 x 400 x 420	510 x 400 x 500	580 x 475 x 415
Weight (kg)	36.5kg	37.5	50
Pressure (psi)	3,650	3,650	3,600



Part No. **FP-115-1**

Honda Recoil Start



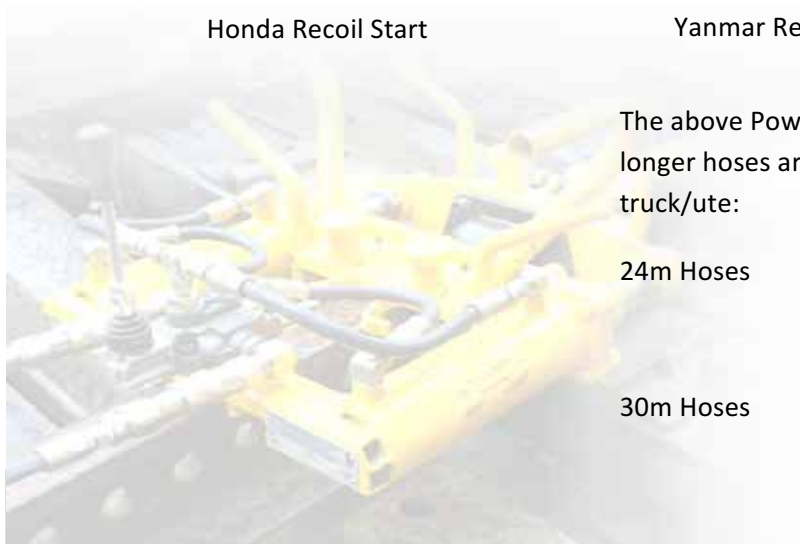
Part No. **FP-115-4**

Yanmar Recoil Start



Part No. **FP-115-5**

Yanmar Electric Start



The above Powerpacks come standard with 4.6m hoses, however longer hoses are available allowing the Powerpack to be left on the truck/ute:

24m Hoses Part No. **H062-24000-008**

Part No. **H062-24000-034**

30m Hoses Part No. **H062-30000-008**

Part No. **H062-30000-034**

# Rail Accessories

## Ballast Bucket (rubber)

Part No. **1120981**

The ballast Bucket is used to fill up with Ballast or Tools



## Ballast Fork

Part No. **1120900**

The all steel Ballast Fork is used by Railway workers for moving roadbed ballast allowing dirt to fall through the forks



## Ballast Shovel (Pelican Pick)

Part No. **1120511**

Ideal for picking & scraping loose surfaces and moving loose ground materials. Hardened and tempered point for durability with a lacquered premium Australian hardwood handle.



## Bonding Drill Bit

Part No. **DR9/32STCOB**

9/32 inch Bonding (other sizes available on request)



Part No. **1121105**

Adaptor to take bonding drill bit, suits Rotabroach Rail Drill



## Bow Plates

Bow plates – 31kg/m Rail	Part No. <b>1120641</b>
Bow plates – 40kg/m Rail	Part No. <b>1120145</b>
Bow plates – 47kg/m Rail	Part No. <b>1120144</b>
Bow plates – 50kg/m Rail	Part No. <b>1120351</b>
Bow plates – 53kg/m Rail	Part No. <b>1120143</b>
Bow plates – 53/60kg/m Rail	Part No. <b>1121189</b>
Bow plates – 60kg/m Rail	Part No. <b>1120142</b>
Bow plates – 68kg/m Rail	Part No. <b>1120702</b>



## Chock (Double) with Flag

Double Chock with Flag for Flush Rail Part No. **1120953**



## Clamps

### G-Clamp and Universal Clamp

Suits 50kg/m Rail	Part No. <b>1120875</b>
Suits 60kg/m Rail	Part No. <b>1120594</b>
Suits 68kg/m Rail	Part No. <b>1120703</b>
Suits 68/m Rail with Packer Block	Part No. <b>1120703-B</b>

Holds fish plates against web of the rail

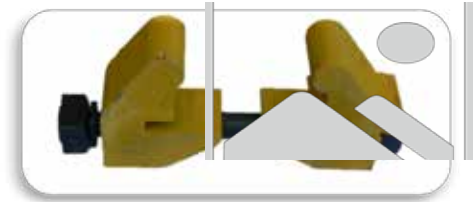
Universal Rail clamp Part No. **1121328-GCU**  
Suits 41-68kg/m rail



## Temporary Fassetta Clamp

Part No. 1120660

Single clamp designed to hold rail together prior to welding  
Approved for use with Aurizon



## Cut-off Rail Saw Wheels

PFERD Rail Cut off Wheels 350mm (14") Part No. **GRIN044**

PFERD Rail Cut off Wheels 400mm (16") Part No. **GRIN029**

Other brands available on request



## Cutting Fluid

20 L Bio-Degradable Water Soluble Cutting Fluid Part No. **1120941**



## De-Clipping Bar

Part No. **1120887**



## Fastclip hand tools

Narrow Clip FC1509-FC1511 Installation Tool Part No. **1120445**

Narrow Clip FC1509-FC1511 Extraction Tool Part No. **1120447**

Wide Clip FC1501-FC1507 Installation Tool Part No. **1120970**

Wide Clip FC1501-FC1507 Extraction Tool Part No. **1120971**



## Fish Bolt Spanners

Spanner for 42mm nuts, 800mm OAL Part No. **1120330**

Spanner for 22mm nuts, 800mm OAL Part No. **1120839**

Other sizes available on request



## Flares

Eflare Safety Beacons are visible for more than one kilometre at night.

Various colours are available in either steady on or flashing.

Accessories range from magnetic base caps and clips, cone clips, lanyards, straps and EFlare carry bags.





## Grinder – Air operated with deadman

Part No. 1121311

**Features:** Rugged, lightweight aluminium alloy housing angle grinder for many applications. Removes rust and paint fast. Great for dressing up welds and grinding complex shapes. Capacity...5"/125mm Free speed...11000rpm Hose size...3/8 Air Inlet...1/4 Length...246mm Weight...1.6Kg Air Pressure...90 psi



## Grinding Stones

Melville Equipment General  
150x76x55m

Part No. **GRIN021MEC-GPR**

Head Hardened Rail 150x76x55mm

Part No. **GRIN021MEC-HHR**

Switch Grinding Wheel 250 x 32 x 25.4  
Bore

Part No. **GRIN031**

Erico Grinding wheel 150 x 19.05 Bore

Part No. **GRIN024**



## Hammer sledge

10 lb with Hickory Handle  
14 lb with Hickory Handle

Part No. **1120972-10**

Part No. **1120972**

Replacement Hickory Handle  
900mm OAL

Part No. **1121135**



## Kicking Tool

Part No. **1120806**

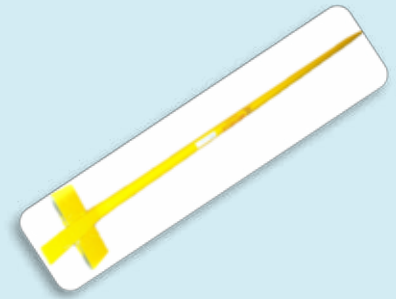
Sleeper Eye Cleaner, Removes Dirt from Sleeper Holes



## Nipping Bar

**Nipping bar has flat plate attached at the head of the bar to give platform base for leverage on rail ballast**

Part No. **1120414**



## Pad Scraper – Heavy Duty

Part No. **1120890**

The Rail Pad Scraper is used to remove grease and debris from pads whilst refurbishing or servicing and carrying routine track work. Built to cope and tackle the debris that can build up over long periods the synthetic handle assists easy removal of stubborn rubbish



## Panpuller hand tools

Panpuller (As Shown in Picture)

Part No. **1120830-MEC**

Panpuller (Genuine Pandrol)

Part No. **1120356**

Panpuller Replacement Hooks (Genuine Pandrol)

Part No. **1120443**

Panpuller Timber/Concrete 5 hole

Part No. **1120468**

Panpuller replacement 5 hole Hook and Pin

Part No. **1120602**

Panpuller is specifically designed for Pandrol brand type 'E', 'P' and 'PR' series clips. All Steel construction supplied painted with synthetic handles.

Weight = 6.0kg



## Pansetter hand tools

Pansetter (As Shown in Picture)

Part No. **1120831**

Pansetter (Genuine Pandrol)

Part No. **1120357**

Pansetter Replacement Rollers

Part No. **1120444**

Pansetter is specifically designed for the installation of Pandrol clips.

All steel construction supplied in spray painted finish with synthetic handles.

Weight = 6.5kg





## Pin Punches

Rail bolt and rivet punch and handle, available in a range of sizes with or without neoprene

	Flexible without Neoprene End	Flexible with Neoprene	Solid without Neoprene End	Solid with Neoprene	Solid Handle - Offset Pin No Neoprene
D14 x100			<b>1120705-S</b>		
D15 x 40	<b>1120680-F</b>	<b>1120680-FN</b>	<b>1120680-S</b>	<b>1120680-SN</b>	
D16 x 100					<b>1120603-SO</b>
D19 x 100	<b>1120305-F</b>	<b>1120305-FN</b>	<b>1120305-S</b>	<b>1120305-SN</b>	<b>1120604-SO</b>
D19 x 40	<b>1120306-F</b>	<b>1120306-FN</b>	<b>1120306-S</b>	<b>1120306-SN</b>	
D22 x 100	<b>1120307-F</b>	<b>1120307-FN</b>	<b>1120307-S</b>	<b>1120307-SN</b>	
D22 x 40	<b>1120308-F</b>	<b>1120308-FN</b>	<b>1120308-S</b>	<b>1120308-SN</b>	



## Pigs Feet

Standard Pattern

Part No. **1120218**



Thorley and Sons Pattern

Part No. **1120219**



Lock Spike Extractor ( 200mm OAL)

Part No. **1120152**



## Podges

Straight Podger

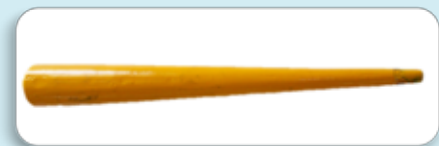
Part No. **1120902**

Curved Podger

Part No. **1120257**

Bar Wedge and Podger End (Cone End) Part No. **1120266**

40 mm DIA to 10mm DIA, 300mm Long



## Point Clip

Part No. **1120309**



Holds switch blade flange and foot of rail together & allows the barrel nut to be locked

## Point Scraper Tool

Part No. **1120888**



## Possession Limit and Marker Boards

Possession Limit Board



Part No. **1120983**

Marker Board



Part No. **1121051**

## Pressure Gauges

Part No. **1120706**

**14,000psi** (1,000 Bar) 100mm diameter, gauge mount 3/8, glycerine filled gauge

Part No. **1120706-700B**

**10,000psi** (700 Bar) 100mm diameter, gauge mount 3/8, glycerine filled gauge

Other Pressure Gauge Available on Request

