

# Weld Shear Hand Pump EPM2

Welding & Maintenance Equipment



Pandrol's Weld Shear Hand Pump (EPM2) is a manual shearing machine designed to shear off excess metal after aluminothermic welding.

Excess metal remaining above the rail head during welding was traditionally removed manually with a hammer and chisel. The Weld Shear Hand Pump automates this process and reduces the risk of damaging the rail.

The shear is operated by a manual lever and fitted with a hydraulic pump. As a result, it is lighter and simpler to use than other shearing machines.

## → TECHNICAL FEATURES

### **Wide beams**

The beams of the Weld Shear Hand Pump are wide, allowing for shearing directly through the moulds.

### **Integrated manual pump**

The machine includes an integrated hydraulic pump – there is no need to plug in a separate pump.

### **Integrated blades**

Two integrated blades, one on either side of the weld, cut off the excess metal. These are high-quality, full-cast tipped shear blades, powered by hydraulic rams with a built-in guidance system. Replacement shear blades are readily available and easy to fit.

### **Height and lateral adjustments**

Adjustment screws enable the blades' cutting edge to be adjusted precisely, both laterally and vertically.

### **Retractable locking systems**

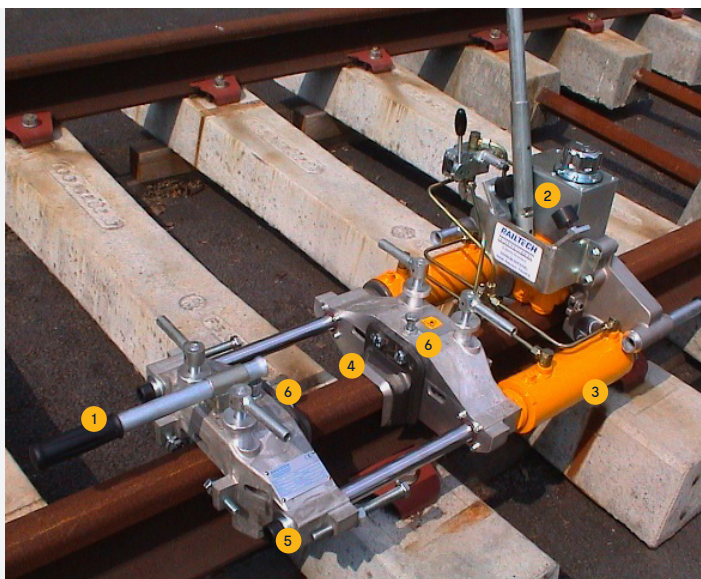
Locking systems fixed under the rail head prevent the shearing machine from rising up and adjust the cutting operation to the thickness of the metal deadhead.

### **Clean, efficient use**

The Weld Shear Hand Pump is simple to set up and its hydraulically-assisted, manual operation makes it quick, clean, efficient and straightforward to use.

## → ADVANTAGES

- The Weld Shear Hand Pump's wide beams allow for shearing directly through the mould, preventing the need to remove it manually. This reduces the time taken for testing, saving time and money.
- A guide and rollers under the rail head guarantee a constant shearing thickness, increasing the accuracy of welding.
- The ability to make precise height and lateral adjustments makes the grinding process faster as the majority of the excess metal is removed during the shear. With the Weld Shear Hand Pump, there is no risk of damaging the rail.
- Because the hydraulic pump is integrated rather than plugged in, it saves time and effort on every weld.
- The machine is extremely versatile, suitable for all moulding processes and types of flat-bottom rails. It can also be used during a head wash repair.



## → COMPONENTS

1. Retractable handles
2. Integrated hand pump
3. High pressure cylinders
4. Strong bi-material blades (not included)
5. Lateral adjustment system
6. Height adjustment system

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## → SPECIFICATIONS

| Technical data                              |                                                                                                                             |
|---------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------|
| Description                                 | <b>EPM2 Wide Hydraulic Shearing machine</b>                                                                                 |
| Item number                                 | 11334004                                                                                                                    |
| Application                                 | Specially designed for wide gap ATW process such as PLA68, WG68 and HWR (Head Wash Repair) Excluding switches and crossings |
| Shearing force                              | 212 kN (21.5 tons)                                                                                                          |
| Maximum hydraulic power                     | 250 bar                                                                                                                     |
| Opening between blades                      | 165 mm                                                                                                                      |
| Energy                                      | Manual                                                                                                                      |
| Dimensions                                  | 1200 x 490 x 500 mm                                                                                                         |
| Weight without blades (Blades not included) | 56 kg                                                                                                                       |

| Accessories |                                |
|-------------|--------------------------------|
| 11335018    | Vignole pair of blades type 32 |
| 11335019    | Vignole pair of blades type 36 |
| 11335024    | Vignole pair of blades type 40 |
| 11335022    | Vignole pair of blades type 45 |
| 11335023    | Vignole pair of blades type 48 |

### Standard compliance

- Machinery directive 2006/42/CE
- European norm NF EN 13977

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