

Monobloc Electrical Weld Shear EME1/EME2

EQC



The Monobloc Electrical Weld Shear EME1/EME2 is an electrical rail shearing machine designed to shear off the red-hot metal remaining around the rail head after aluminothermic welding of Vignole rails. During aluminothermic welding, a deadhead of excess metal remains above the rail head. This was traditionally removed manually with a hammer and chisel. The Monobloc Electrical Weld Shear automates this process and removes the risk of damaging the rail.

Two hydraulically operated blades, on either side of the rail, move and cut off the excess metal. The shear is powered by an embedded electrical hydraulic pump.

→ TECHNICAL FEATURES

Monobloc design

The shear comes as an integral unit, with an embedded electrical hydraulic pump.

Available in two versions

The Monobloc Electrical Weld Shear EME1 is a narrow unit, able to operate in turnouts thanks to its small size. The EME2 is wider, bringing more comfort when shearing through the mould.

High power

The shear is fitted with two hydraulic jacks that are able to produce a force of 21.5 tons under a pressure of 250 bars.

Hydraulically-operated, adjustable blades

Two blades, one on either side of the weld, move and cut off the excess metal. Adjusting screws enable the blades' height, lateral position and stroke to be fully adjusted.

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.

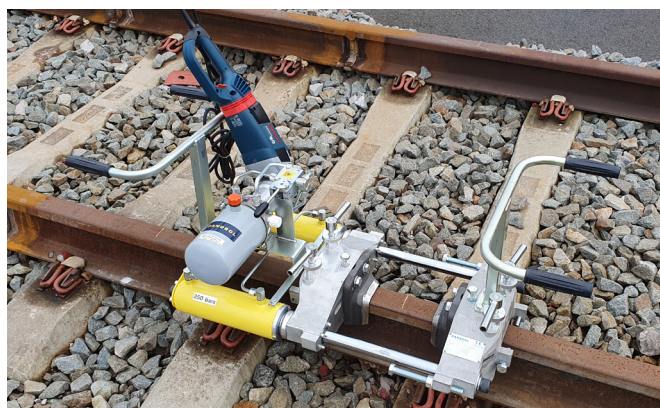
→ ADVANTAGES

- The Monobloc Electrical Weld Shear is much safer to use than the traditional hammer and chisel method of reducing excess metal, which was hard work and exposed workers to projections of metal.
- The adjustable blades and guiding rollers result in much greater precision than possible when removing the metal deadhead manually.
- The powerful hydraulic unit significantly reduces grinding time, saving money and decreasing downtime.
- The upper positioning of the handles on the shearing machine ensures the operator remains at good distance from the hot area, increasing safety.
- The Monobloc Electrical Weld Shear's compact design allows for excellent user flexibility.

→ NARROW SHEARING MACHINE EME1



→ WIDE SHEARING MACHINE EME2



→ SPECIFICATIONS

Technical specifications		
	EME1	EME2
Motor type	Bosch GWS 26.230	Bosch GWS 26.230
Power @ rpm	2.6 KW @ 6,500 rpm	2.6 KW @ 6,500 rpm
Voltage	230V Single phase @ 50 Hz	230V Single phase @ 50 Hz
Hydraulic pressure (max)	250 bar	250 bar
Flow	6.5 litre / min	6.5 litre / min
Shearing force	212 kN / 21.5 tons	212 kN / 21.5 tons
Opening between blades	175 mm	175 mm
Inner width free space	210 mm	325 mm
Dimensions	1200 x 470 x 450 mm	1200 x 470 x 480 mm
Mass without blades	53 kg	55 kg

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