Rail Equipment Catalogue
Our products stand the test of time. Which is why they’re chosen by half the world’s rail networks – equivalent to the distance from the earth to the moon. Our customers trust us to help them achieve their goals. And if anything falls short of our shared standards, they know we’ll put it right, right away.
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Pandrol offers a range of equipment designed to support welders deliver high quality welds efficiently and effectively. From shearing and alignment, to sawing and tamping, the product range is designed to be used alongside all aluminothermic welding processes.

Rail Saw

00800A

The 00800A Rail Saw is a hydraulic powered abrasive rail saw that uses a 14” or 16” diameter blade to cut rail. A sturdy pivot arm securely clamps to the rail and guides the saw during operation. Free axis movement of the tool allows cutting on either side of the rail and clean separations average well under two minutes. Sturdy construction and quality components ensure low maintenance and long life of the tool.

Reversing Rail Saw

02900A

The 02900A Reversing Rail Saw is a hydraulic powered abrasive rail saw that can cut rail from either side of the rail safely without disconnecting or realignment; simply pivoting the saw to the other side of the rail provides the flexibility and safety that is needed on track.

---

**Technical data**

<table>
<thead>
<tr>
<th>Dimensions</th>
<th>36” (91.4 cm)</th>
<th>10” (25.4 cm)</th>
<th>11” (43.2 cm)</th>
<th>36” x 8” x 11”</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flow</td>
<td>10 gpm (38 lpm)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Pressure</td>
<td>2,000 PSI (140 bar)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>RPM</td>
<td>160</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Weight</td>
<td>40 Lbs (18.1 kg) / Clamp: 21 Lbs (9.5 kg)</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

---

**Accessories**

- 00897 14” Saw Blades
- 00899 16” Saw Blades

---

**Technical data**

<table>
<thead>
<tr>
<th>Dimensions</th>
<th>36” (91.4 cm)</th>
<th>10” (25.4 cm)</th>
<th>11” (43.2 cm)</th>
<th>36” x 8” x 11”</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flow</td>
<td>10 gpm (38 lpm)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Pressure</td>
<td>2,000 PSI (140 bar)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>RPM</td>
<td>3,200</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Weight</td>
<td>35 lbs (15.8 kg) / Clamp: 21 lbs (9.5 kg)</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
The EMB1 and EMB2 shearing machines are battery powered and ideal tools for working in tunnels and closed environments. The EMB1 is the narrow variant, ideal for shearing vignole rails as well as switches and crossings. The EMB2 has a wider design and is applicable to vignole rails and optimised for use with Pandrol’s Head Wash Repair welding process.

### EME1 / EME2

**Electric Shearing Machines**

The EME1 and EME2 shearing machines are used to cut excess metal around the rail head after aluminothermic welding. The EME1 is the narrow variant, ideal for shearing vignole rails as well as switches and crossings. The EME2 has a wider design and is applicable to vignole rails and optimised for use with Pandrol’s Head Wash Repair welding process.

### EMB1 / EMB2

**Battery Shearing Machines**

The EMB1 and EMB2 shearing machines are battery powered and ideal tools for working in tunnels and closed environments. The EMB1 is the narrow variant, perfect for shearing vignole rails including switches and crossings. The wide version, the EMB2, can also shear vignole rails and is optimised for use with Pandrol’s Head Wash Repair welding process.

### EPM2 / 05000

**Hydraulic Hand Pump Shearing Machine**

Pandrol’s range of hydraulic hand pump shearing machines deliver a consistently safe and precise shearing of the excess weld.

### EGH1 / EGH2 / Dead Head Cutter TM / 05100A / 05100B

**Hydraulic Shearing Machines**

Pandrol’s range of hydraulic shearing machines are designed to shear excess metal after welding. We offer shearing tools for all rail types and aluminothermic welding processes.

---

**Specifications**

**Technical data**

<table>
<thead>
<tr>
<th>Machine</th>
<th>Type</th>
<th>Energy</th>
<th>Weight (kg)</th>
<th>Dimensions (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>EMB1</td>
<td>Narrow</td>
<td>LiHD battery technology</td>
<td>57</td>
<td>1,200 x 470 x 450</td>
</tr>
<tr>
<td>EMB2</td>
<td>Wide</td>
<td>LiHD battery technology</td>
<td>60</td>
<td>1,200 x 470 x 480</td>
</tr>
</tbody>
</table>

**Technical data**

<table>
<thead>
<tr>
<th>Machine</th>
<th>Type</th>
<th>Energy</th>
<th>Weight (kg)</th>
<th>Dimensions (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>EME1</td>
<td>Narrow</td>
<td>Electrical</td>
<td>55</td>
<td>1,200 x 470 x 450</td>
</tr>
<tr>
<td>EME2</td>
<td>Wide</td>
<td>Electrical</td>
<td>60</td>
<td>1,200 x 470 x 480</td>
</tr>
</tbody>
</table>

**Specifications**

**Technical data**

<table>
<thead>
<tr>
<th>Machine</th>
<th>Type</th>
<th>Energy</th>
<th>Weight (kg)</th>
<th>Dimensions (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>EGH1</td>
<td>Narrow</td>
<td>Thermal</td>
<td>39</td>
<td>1,020 x 315 x 270</td>
</tr>
<tr>
<td>EGH2</td>
<td>Wide</td>
<td>Electrical</td>
<td>23</td>
<td>1,020 x 315 x 270</td>
</tr>
<tr>
<td>Dead Head Cutter TM</td>
<td>Narrow</td>
<td>Hydraulic</td>
<td>40</td>
<td>835 x 265 x 360</td>
</tr>
</tbody>
</table>

**Specifications**

**Technical data**

<table>
<thead>
<tr>
<th>Machine</th>
<th>Type</th>
<th>Energy</th>
<th>Weight (kg)</th>
<th>Dimensions (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>EPM2</td>
<td>Wide</td>
<td>Hydraulic</td>
<td>63</td>
<td>1,010 x 470 x 900</td>
</tr>
<tr>
<td>05000</td>
<td>Wide</td>
<td>Hydraulic</td>
<td>59</td>
<td>737 x 508 x 330</td>
</tr>
</tbody>
</table>

**Specifications**

**Technical data**

<table>
<thead>
<tr>
<th>Machine</th>
<th>Type</th>
<th>Energy</th>
<th>Weight (kg)</th>
<th>Dimensions (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>EPH2</td>
<td>Wide</td>
<td>Electrical</td>
<td>63</td>
<td>1,010 x 470 x 900</td>
</tr>
<tr>
<td>05000</td>
<td>Wide</td>
<td>Hydraulic</td>
<td>59</td>
<td>737 x 508 x 330</td>
</tr>
</tbody>
</table>

---

For more information visit the website www.pandrol.com
Alignment Beam
BA240
Pandrol’s Alignment Beams ensure accurate aligning of free rails prior to aluminothermic welding.

<table>
<thead>
<tr>
<th>Technical data</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Weight</td>
<td>60 kg</td>
</tr>
<tr>
<td>Dimensions</td>
<td>2,630 x 800 x 270 mm</td>
</tr>
</tbody>
</table>

**FEATURES**
- Easy to use
- For all types of rail
- Heavy duty construction
- Allows independent adjustment
- Ensure an accurate positioning

**ACCESSORIES**
- A detwisting system
- A support foot
- A pair of rail jacks
- An aluminium frame with 4 clamps

**SPECIFICATIONS**
- Spread: 510 mm
- Width: 160 mm
- Height: 600 mm
- Weight: 18 kg

**VARIATIONS**
- Universal A Frame
- For Fastclip fastenings
- For Grooved / Crane rails

Magnetic Straight Edge

The Magnetic Straight Edge enables the welder to properly crown the rail ends to the desired height with ease. The heavy duty magnet located at the end of the straight edge provides improved control and stability during the alignment process. The height adjustment knobs located at either end of the magnetic straight edge can be set to the appropriate height for crowning with the Starrett Taper Gage.

**FEATURES**
- Lightweight
- Maximum stability
- Adjustable height knobs

**SPECIFICATIONS**
- Length: 16¾”
- Width: 5”
- Height: 5”

**EASY TO USE**
The design of the Alignment Plates allows the user to replace individual parts as needed, rather than replacing the entire Pandrol Alignment Plate.
- Removable towers
- Easy installation and removal

**VARIATIONS**
- For Grooved / Crane rails

Alignment Plates
ap-1
The Alignment Plates make it possible for the welder to accurately align the rails through lift, twist and horizontal adjustment. The towers enable the rail to move vertically and reduce twist, while the base of the rail sits on the rail-saddle to stabilise and adjust by shifting horizontally.

**VARIATIONS**
- For Grooved / Crane rails

A Frame Rail Aligner
CR 97 / CR 61
The A Frame Rail Aligner delivers precision positioning of the rails prior to aluminothermic welding. Pandrol’s A Frame range is designed for easy lifting, carrying, and operation. The aligner jaws can be modified to a wide range of global rail types.

**FEATURES**
- Suitable for all kinds of rail
- Heavy duty construction
- Lightweight alloy
- Ensures accurate alignment
- Guarantees the welding geometry

**VARIATIONS**
- For Fastclip fastenings
- For Grooved / Crane rails

Alignment

Alignment Plates

**EASY TO USE**
The towers for the Alignment Plates are removable, allowing the user to easily situate the base plate under the rail base for quick set-up and convenient storage. The foot of the tower is grooved, which allows for a more stable and sturdier grip into the sleeper.
Wrenches & Drills

½” Hydraulic Drill / Impact Wrench
04500D

The 04500D ½” Impact Wrench is designed to offer the operator superior torque handling capabilities under the most adverse conditions. Operators will appreciate the lightweight aluminium body and the ergonomic trigger design. The Impact Wrench is shipped with a 7/16” quick change chuck for a wide variety of bits and accessories. A ½” square drive is included for use with ½” impact sockets.

ACCESSORIES

0450046 Adapter ½” Square Drive

Preheaters

Hydraulic Preheater

The Hydraulic Preheater is a compact, lightweight and easy-to-use tool for heating the rail-ends before welding. It features a hydraulically driven blower and uses bottled Liquid Propane (LP).

The Pandrol Hydraulic Preheater utilises oxygen pulled in from the air, eliminating the need for bottled oxygen. This Hydraulic Preheater ensures the rail-ends never melt during preheating with the QP Process and the torch safely extinguishes once removed from the moulds.

SPECIFICATIONS

Technical data

<table>
<thead>
<tr>
<th></th>
<th>Dimensions</th>
<th>Flow</th>
<th>Pressure</th>
<th>RPM</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hydraulic Preheater Unit</td>
<td>18” (45.7 cm) x 16” (40.6 cm) x 131/2” (34.3 cm)</td>
<td>10 gpm (38 lpm)</td>
<td>2,000 PSI (140 bar)</td>
<td>3,600</td>
<td>83 lbs (37.6 kg)</td>
</tr>
<tr>
<td>Precision Torch Stand</td>
<td>10” (25.4 cm) x 7” (17.8 cm) x 7” (17.8 cm)</td>
<td>5 gpm (19 lpm)</td>
<td>2,000 PSI (140 bar)</td>
<td>13 lbs (6 kg)</td>
<td></td>
</tr>
<tr>
<td>Flare Igniter Pistol</td>
<td>10” (25.4 cm) x 7” (17.8 cm) x 7” (17.8 cm)</td>
<td>5 gpm (19 lpm)</td>
<td>2,000 PSI (140 bar)</td>
<td>13 lbs (6 kg)</td>
<td></td>
</tr>
</tbody>
</table>

FEATURES

- Precision adjustment
- Better stability
- Sturdier grip

Preheating

Precision Torch Stand

The Precision Torch Stand is used during the preheating process to finely tune the torch position while preheating the rail ends.

The 2 adjustment knobs on the upper portion of the Torch Stand manipulate side-to-side and forward/backward movement while the smaller adjustment rings on the lower portion, the stem, allow the user to raise and lower the height of the torch when needed and lock it into place at the appropriate height.

FEATURES

- Precision adjustment
- Better stability
- Sturdier grip

ACCESSORIES

01635 Stand Up Handle
01649 Crossing Handle
01759 Sockets Available - Specify Requirements

Wrenches & Drills

5 GPM 1” Impact Wrench
01600A

The 01600A 1” Impact Wrench is capable of handling the toughest jobs. Crossing, frog or track bolts are no problem for this rugged tool. Optional handles allow the operator to modify the tool to provide an efficient, safe and ergonomic work position for the task at hand. A torque adjustment knob fine-tunes torque from 0-3500 ft/lb.

ACCESSORIES

01635 Stand Up Handle
01649 Crossing Handle
01759 Sockets Available - Specify Requirements

For more information visit the website www.pandrol.com
## Wrenches & Drills

### 10 GPM 1” Impact Wrench

<table>
<thead>
<tr>
<th>02500</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>The 02500 1” Impact wrench is capable of handling the toughest jobs. Crossing, frog or track bolts are no problem for this rugged tool. Its anti-vibration design and optional handle provides an efficient, safe, and ergonomic work position. A torque adjustment knob will fine-tune torque from 0-3500 ft/lb.</strong></td>
</tr>
</tbody>
</table>

### Self-Feed Rail Drill

<table>
<thead>
<tr>
<th>03500</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>The 03500 Self Feed Rail Drill is a lightweight maintenance tool that offers cost effective operation. Maintenance crews will appreciate the simple clamp for quick setup on track. The use of patented Arrowhead inserts allows for quick drilling time and precision holes. The drill includes a lubrication system.</strong></td>
</tr>
</tbody>
</table>

### Rail Drill

<table>
<thead>
<tr>
<th>01500</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>The 01500 Hydraulic Rail Drill is a small, dependable and efficient maintenance tool that offers cost-effective operation under adverse conditions. Simple clamp and height adjustment mechanisms allow quick set-up time on a variety of track configurations. The drill has a quick-set indexing bar that provides accurate hole spacing. Standard flat spade bits are used and can be changed in seconds without the need for wrenches. The rail drill includes a lubrication system.</strong></td>
</tr>
</tbody>
</table>

### 60 Ton Bridge Jack / Spreader

<table>
<thead>
<tr>
<th>02800A / 02800-6</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Pandrol’s range of Bridge Jacks are ideal for crews doing bridge maintenance. The hydraulic circuit is equipped with a remote power up and down control manifold with built in flow control for protection and comes with a 25 foot transmission hose. Cylinders are pre-piped, terminating at quick disconnect couplers which allow for quick setup time.</strong></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>02850-KIT</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Bridge Jack / Spreader Stool</strong></td>
</tr>
</tbody>
</table>

### Accessories

#### Technical Data

<table>
<thead>
<tr>
<th>Dimensions</th>
</tr>
</thead>
<tbody>
<tr>
<td>16” (40.6 cm)</td>
</tr>
<tr>
<td>23” (58.4 cm)</td>
</tr>
<tr>
<td>32” (81.3 cm)</td>
</tr>
<tr>
<td><strong>Flow</strong></td>
</tr>
<tr>
<td>10 gpm (38 lpm)</td>
</tr>
<tr>
<td><strong>Pressure</strong></td>
</tr>
<tr>
<td>2,000 PSI (140 bar)</td>
</tr>
<tr>
<td><strong>RPM</strong></td>
</tr>
<tr>
<td>4,000</td>
</tr>
<tr>
<td><strong>Weight</strong></td>
</tr>
<tr>
<td>48 lbs (21.8 kg)</td>
</tr>
</tbody>
</table>

### Specifications

<table>
<thead>
<tr>
<th>Rail Pullers &amp; Tamper</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Technical Data</strong></td>
</tr>
<tr>
<td><strong>Dimensions</strong></td>
</tr>
<tr>
<td>194” (492.8 cm)</td>
</tr>
<tr>
<td>6” (15.2 cm)</td>
</tr>
<tr>
<td>29” (73.7 cm)</td>
</tr>
<tr>
<td><strong>Flow</strong></td>
</tr>
<tr>
<td>5 gpm (19 lpm)</td>
</tr>
<tr>
<td><strong>Pressure</strong></td>
</tr>
<tr>
<td>2,000 PSI (140 bar)</td>
</tr>
<tr>
<td><strong>Weight</strong></td>
</tr>
<tr>
<td>02800A: 1,619 lbs (734.3 kg)</td>
</tr>
<tr>
<td>02800-6: 1,780 lbs (807.4 kg)</td>
</tr>
</tbody>
</table>

### Rail Templates

<table>
<thead>
<tr>
<th>Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>35” (89 cm)</td>
</tr>
<tr>
<td>9” (22.8 cm)</td>
</tr>
<tr>
<td>16½” (39.4 cm)</td>
</tr>
</tbody>
</table>

### Biodegradable Cutting Fluid

<table>
<thead>
<tr>
<th>Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 or 5 US Gallon</td>
</tr>
</tbody>
</table>

### Assortment Of Carbide Drill Bit Inserts

<table>
<thead>
<tr>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>Index Bars (Specify Size)</td>
</tr>
</tbody>
</table>

### Drill Bits

<table>
<thead>
<tr>
<th>Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>Specify Size</td>
</tr>
</tbody>
</table>

### Sockets

<table>
<thead>
<tr>
<th>Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>Specify Size</td>
</tr>
</tbody>
</table>

For more information visit the website www.pandrol.com
Two-speed design to ensure smooth motion
Safety trigger to prevent accidental activation
Design allows spike to be grabbed from either side
All moving parts fully enclosed for safety
Quick change jaws

Lightweight Two-Stage Spike Puller
01100RM

The 01100RM Spike Puller uses a new design that is 25% lighter than older models, weighing only 39 pounds. Despite the lighter weight, it generates the same pulling force of 13,000 pounds.

Bridge Jack / Spreader Stool
02850-KIT

Pandrol’s Bridge Spreader Stool is a complete system with no additional pieces or chains required. Quick and secure connection around pylons ensures streamlined setup at the work site. Designed for use along with the Pandrol Bridge Spreader, the system can quickly and safely be installed wherever the bridge repairs are required.

Technical data

<table>
<thead>
<tr>
<th>Dimension</th>
<th>145&quot; (36.8 cm)</th>
<th>12&quot; (30.5 cm)</th>
<th>16&quot; (40.6 cm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flow</td>
<td>5 gpm (19 lpm)</td>
<td>10 gpm (38 lpm)</td>
<td></td>
</tr>
<tr>
<td>Pressure</td>
<td>2,000 PSI (140 bar)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Weight</td>
<td>48 lbs (22 kg)</td>
<td>12 lbs (5 kg)</td>
<td>32 lbs (15 kg)</td>
</tr>
</tbody>
</table>

Special chain length available upon request.

ACCESSORIES

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>02875</td>
<td>Stand Up Handle</td>
</tr>
<tr>
<td>-</td>
<td>Sockets Available - Specify Requirements</td>
</tr>
</tbody>
</table>

FEATURES

- Two-speed design to ensure smooth motion
- Safety trigger to prevent accidental activation
- Design allows spike to be grabbed from either side
- All moving parts fully enclosed for safety
- Quick change jaws

ACCESSORIES

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>01145</td>
<td>Hair Pin Puller Kit</td>
</tr>
<tr>
<td>02575</td>
<td>Stand Up Handle</td>
</tr>
<tr>
<td>-</td>
<td>Sockets Available - Specify Requirements</td>
</tr>
</tbody>
</table>

For more information visit the website www.pandrol.com
**Rail Pullers & Tamper**

**Rail Puller 03100C**

The 03100C is a hydraulic actuated 120 ton rail puller. Operators will appreciate the single unit construction allowing quick set up time. The operator station houses an integrated intensifier and control valve manifold. Clamping blocks are captured and this self-aligning design is preloaded hydraulically for a safe and efficient pull.

### Technical data:

<table>
<thead>
<tr>
<th>Dimensions</th>
<th>Fully Extended</th>
<th>Pulling Cylinder Stroke</th>
<th>Width</th>
<th>Height</th>
</tr>
</thead>
<tbody>
<tr>
<td>105” (266.7 cm)</td>
<td>10” (25.4 cm)</td>
<td>34” (86.4 cm)</td>
<td>17” (43.2 cm)</td>
<td></td>
</tr>
<tr>
<td>Flow</td>
<td>5 gpm (19 lpm) or 10 gpm (38 lpm)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Pressure</td>
<td>2,000 PSI (140 bar)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Pulling Cylinder Pressure</td>
<td>Rated 5,500 PSI (385 bar)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Clamp Cylinder Pressure</td>
<td>2,000 PSI (140 bar)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Weight</td>
<td>1,350 lbs (612.3 kg)</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Flows & Pressure**

- 5 gpm (19 lpm)
- 10 gpm (38 lpm)

**Weight**

1,350 lbs (612.3 kg)

**Spike Driver 08300**

The 08300 Spike Driver is equipped with torsion dampened handles which reduce the vibration level to a minimum. An excellent heavy duty tool designed to drive spikes and hairpins into the toughest sleepers in seconds.

### Technical data:

<table>
<thead>
<tr>
<th>Dimensions</th>
<th>Fully Extended</th>
<th>Pulling Cylinder Stroke</th>
<th>Width</th>
<th>Height</th>
</tr>
</thead>
<tbody>
<tr>
<td>33” (83.8 cm)</td>
<td>18” (45.7 cm)</td>
<td>6” (15.2 cm)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Flow</td>
<td>5 gpm (19 lpm) or 10 gpm (38 lpm)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Pressure</td>
<td>2,000 PSI (140 bar)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Weight</td>
<td>48 lbs (21.7 kg)</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Tamper 08200**

The 08200 Hydraulic Tamper is equipped with torsion dampened handles which reduce the vibration level to a minimum. An excellent multi-purpose tool that can tamp asphalt, and break concrete.

### Technical data:

<table>
<thead>
<tr>
<th>Dimensions</th>
<th>Fully Extended</th>
<th>Pulling Cylinder Stroke</th>
<th>Width</th>
<th>Height</th>
</tr>
</thead>
<tbody>
<tr>
<td>18” (45.7 cm)</td>
<td>6” (15.2 cm)</td>
<td>36” (91.4 cm)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Flow</td>
<td>5 gpm (19 lpm)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Pressure</td>
<td>2,000 PSI (140 bar)</td>
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<tr>
<td>RPM</td>
<td>4,000</td>
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<tr>
<td>Weight</td>
<td>43 lbs (19.5 kg)</td>
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</table>

**Spring Clip Applicator 01200**

The 01200 Spring Anchor Applicator is a lightweight and labour saving tool for the maintenance-of-way crew. It is a safe and quick tool for installing spring anchor clips. The tool utilizes a pivoting foot design with seven tons of force available to install the toughest clips. Operators will appreciate the clear view during installation.

### Technical data:

<table>
<thead>
<tr>
<th>Dimensions</th>
<th>Width</th>
<th>Height</th>
</tr>
</thead>
<tbody>
<tr>
<td>15” (38.1 cm)</td>
<td>4.3” (11.4 cm)</td>
<td></td>
</tr>
<tr>
<td>Flow</td>
<td>5 gpm (19 lpm) or 10 gpm (38 lpm)</td>
<td></td>
</tr>
<tr>
<td>Pressure</td>
<td>2,000 PSI (140 bar)</td>
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<tr>
<td>Weight</td>
<td>48 lbs (21.7 kg)</td>
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**Accessories**

- **Head Worn Rail Kit 01225**

**Head Worn Rail Kit**

### Technical data:

<table>
<thead>
<tr>
<th>Dimensions</th>
<th>Width</th>
<th>Height</th>
</tr>
</thead>
<tbody>
<tr>
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**Accessories**

- **Head Worn Rail Kit 01225**

**Head Worn Rail Kit**

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<td></td>
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<tr>
<td>Weight</td>
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</table>

**Head Worn Rail Kit**

### Technical data:

<table>
<thead>
<tr>
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<th>Width</th>
<th>Height</th>
</tr>
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<td></td>
</tr>
<tr>
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</table>

**Head Worn Rail Kit**

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</thead>
<tbody>
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<td></td>
</tr>
<tr>
<td>Weight</td>
<td>48 lbs (21.7 kg)</td>
<td></td>
</tr>
</tbody>
</table>
Startwel® Ignition System

The Startwel® Ignition System allows the welder to easily ignite the weld charge to initiate the pour process for the Pandrol Aluminothermic Weld System, replacing the traditional "sparkler" igniter design.

Startwel® is engineered to fit precisely into the round opening in the lid of the Pandrol CJ One-Shot Crucible. Once the crucible is prepped and ready to pour, the Startwel® Ignition System can be placed in the lid and deployed safely by removing the metal clip grounding the prongs. The Startwel® Ignition System starter is comprised of the same charge material used in the bottom thimble of the Pandrol CJ One Shot Crucible and is activated by touching the prongs on the starter handle with the charge.

### Features
- Non-hazardous classification for transport
- Even disbursement of activated charge
- Ignites over 100 starters on one battery charge

### Startwel® Ignition Kit

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>82632506</td>
<td>1 Startwel® Starter</td>
</tr>
<tr>
<td>82632509</td>
<td>1 Starter Handle</td>
</tr>
<tr>
<td>82632504</td>
<td>14.4V battery</td>
</tr>
<tr>
<td>82632505</td>
<td>1 Battery Charger</td>
</tr>
<tr>
<td>82632502</td>
<td>1 Box of 10 Starters</td>
</tr>
</tbody>
</table>
Pandrol Connect

Pandrol Connect is a mobile app designed to support aluminothermic welders through the weld process, capture live data about the weld, save time and improve the traceability of welds for contractors and rail network operators.

Pandrol Connect consists of three modules: a mobile version for welders to record on-site data and for welding controllers to review data, an online monitoring app to review weld information from the office, and an online administration tool to apply settings to local standards. All data is hosted in the cloud for easy sharing.

**TECHNICAL FEATURES**

- **Full traceability of welding**
  Designed to record data before, during and after welding. Generate detailed records of your operations including the welder’s ID, geographic location, environmental factors, and various weld parameters.

- **Document welding operations in detail**
  Assign pictures and voice recordings to specific welds, to provide a comprehensive overview of all work carried out on site.

- **Compatibility with preheating systems**
  The application can be connected to preheating equipment to increase documentation.

- **QR Code integration**
  Consumables can be scanned using QR codes to record the specific items used on site.

- **Welding Instructions included**
  Contains a detailed welding instruction manual, which is then available at the contractor’s fingertips.

- **Works on track**
  A reliable reporting tool which uses an ergonomic interface specifically designed for use on track. Access weld information on site even without internet access.

- **Designed for the full life-cycle of the weld**
  Data can be reloaded for review at any point and additional information can be added including profiling and inspection data.

- **Available now for Android devices**
  Currently available on the Google Play store. For information regarding iOS, contact us for further details.

**ADVANTAGES**

- **Digitalise and enhance welding documentation**
  Increases welding traceability by making data transparent – easily identify defective welds and data anomalies

- **Reduced carbon footprint**
  Drastically cuts down paperwork whilst saving users time

- **News updates available**
  Includes a news function which updates users on the latest and best welding practices

- **A cost-orientated solution**
  This customisable app requires no capital outlay and reduces wasted time spent on paperwork

**PARAMETERS**

- **Location**
  Document the location, environmental conditions, line type, and various other geographic variables

- **Track Type**
  Specify the rail profile, wear, alignment, gap, and cutting method used

- **Weld Process**
  Record the full welding process from preheating, to the weld itself, to profile grinding

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For more information visit the website www.pandrol.com
Grinding Equipment

In addition to being ergonomically designed for safe use by the operator, Pandrol’s range of grinding equipment is developed to maximise the life of the track across all rail heads and profiles.

Alpha Grinder

The Alpha Grinder extends the life of the track by grinding the complete profile in one operation, delivering the ergonomic design and precision efficiencies that Pandrol are renowned for.

The Alpha Grinder supports all standards of rail heads/profiles, using standard grinding stones. Ergonomically built, the light weight unit enables easy raising and lowering of the carrying handles and includes an electric motor for auto-setting the height of the grindstone.

The Alpha Grinder is a robust product that’s safe and secure for rolling on track. Built with the operator in mind, the unit incorporates essential and smart safety features.

FEATURES
- Lightweight
- Quiet engine
- Automatic shut-down
- Ideal for corrugation grinding
- Faster reprofiling of the rail head
- Automatic adjustment of grinding height
- Easy raising and lowering of the carrying handles

ACCESSORIES
- Grinding stone 6” x 3” x 5/8”

Technical data
<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Weight</td>
<td>97 kg</td>
</tr>
<tr>
<td>Height</td>
<td>91 cm</td>
</tr>
<tr>
<td>Width</td>
<td>67 cm</td>
</tr>
<tr>
<td>Length</td>
<td>162 cm</td>
</tr>
<tr>
<td>Energy</td>
<td>Gasoline</td>
</tr>
<tr>
<td>Engine Power / Speed</td>
<td>5.1 kW / 3,600 rpm</td>
</tr>
<tr>
<td>Grindstone rotation speed</td>
<td>4,000 rpm</td>
</tr>
</tbody>
</table>

For more information visit the website www.pandrol.com
The 09300 Head-Wash Grinder (HWG) is a hydraulic powered, track-mounted machine that is designed to efficiently grind the ball of the rail in preparation for the Head-Wash Repair Weld (HWR). This specially designed grinder provides a precision grind to compliment the HWR process in defect removal. The compact and lightweight grinder allows for quick set-up and breakdown on track while the ergonomic profile allows the operator to quickly and comfortably grind the ball to the appropriate depth and width.

**Profile Grinder**

**MR150**

Designed to reshape vignol rail heads after aluminothermic or ARC welding.

**Technical data**

- Energy: Hydraulic
- Weight: 35 kg
- Dimensions (mm): 1,360 x 435 x 800
- Power: 2,600 W
- Rotation Speed: 4,000 rpm

**Profile Grinder**

**RPLE**

**Technical data**

- Energy / Motor: Electrical / 230V 1P
- Weight: 54 kg
- Dimensions (mm): 1,380 x 600 x 950
- Power: 2,600 W
- Rotation Speed: 3,600 rpm

**Head Wash Grinder**

**09300**

The 09300 Head-Wash Grinder (HWG) is a hydraulic powered, track-mounted machine that is designed to efficiently grind the ball of the rail in preparation for the Head-Wash Repair Weld (HWR). This specially designed grinder provides a precision grind to compliment the HWR process in defect removal. The compact and lightweight grinder allows for quick set-up and breakdown on track while the ergonomic profile allows the operator to quickly and comfortably grind the ball to the appropriate depth and width.

**Technical data**

- Energy: Hydraulic
- Weight: 29 kg
- Dimensions (mm): 817
- Pressure: 160 bar
- Rotation Speed: 4,000 rpm

**Profile / Frog Grinders**

**Technical data**

- Energy: Hydraulic
- Weight: 60.8 kg
- Dimensions (mm): 1,630.5 x 1,106 x 203.2
- Pressure: 140 bar
- Rotation Speed: 4,000 rpm

**Profile / Frog Grinders**

**09298**

8" x 2" x 1" Stone

**09281**

HWR Depth Gauge

**ACCESSORIES**
**Handheld Grinders**

**8" Cup Stone Grinder**

00600

The 00600 8" Cup Stone Grinder is designed for use in grinding the tops of frogs and rail. The unique stone adjustment feature allows the operator to easily adjust the guard as the stone wears without the need for wrenches. The double handles give the operator complete control of the tool. Note: Model 00600C has factory installed Type 6 Stone Adaptor (00733-KIT) for use exclusively for a Type 6 stone (00797).

**FEATURES**

- **Technical data**: 04400 04100 04100/4700 05400
  - Disc size
  - Flow
  - Pressure
  - RPM
  - Weight

- **Variations**

- **CUP STONE GRINDERS**
  - Ideal for the head profile grinding.

- **STRAIGHT GRINDERS**
  - Ideal for difficult access.

- **ANGLE GRINDERS**
  - Ideal for risers.

**SPECIFICATIONS**

<table>
<thead>
<tr>
<th>Technical data</th>
<th>04400</th>
<th>04100</th>
<th>04100/4700</th>
<th>05400</th>
</tr>
</thead>
<tbody>
<tr>
<td>Disc size</td>
<td>ø 90 / ø 115</td>
<td>ø 152 / ø 203</td>
<td>ø 152 / ø 203</td>
<td>ø 152 / ø 203</td>
</tr>
<tr>
<td>Flow</td>
<td>5 gpm (19 lpm)</td>
<td>10 gpm (38 lpm)</td>
<td>10 gpm (38 lpm)</td>
<td>10 gpm (38 lpm)</td>
</tr>
<tr>
<td>Pressure</td>
<td>2,000 PSI (140 bar)</td>
<td>2,000 PSI (140 bar)</td>
<td>2,000 PSI (140 bar)</td>
<td>2,000 PSI (140 bar)</td>
</tr>
<tr>
<td>RPM</td>
<td>4,000</td>
<td>4,000</td>
<td>4,000</td>
<td>4,000</td>
</tr>
<tr>
<td>Weight</td>
<td>1,285 lbs (582.87 kg)</td>
<td>1,285 lbs (582.87 kg)</td>
<td>1,285 lbs (582.87 kg)</td>
<td>1,285 lbs (582.87 kg)</td>
</tr>
</tbody>
</table>

**Grinding Equipment**

**Chamfer Tool**

07500

The 07500 Chamfer Tool is a light weight powerful maintenance-of-way tool ideal for chamfering drilled holes. Utilising low rpm & high torque permits the operator safe and long lasting service of chamfer bits.

**SPECIFICATIONS**

<table>
<thead>
<tr>
<th>Technical data</th>
<th>07500</th>
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<tbody>
<tr>
<td>Disc size</td>
<td>ø 14 / ø 10 / ø 7½</td>
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<tr>
<td>Flow</td>
<td>5 gpm (19 lpm)</td>
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<td>Pressure</td>
<td>2,000 PSI (140 bar)</td>
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<tr>
<td>RPM</td>
<td>4,000</td>
</tr>
<tr>
<td>Weight</td>
<td>18 lbs (8.16 kg)</td>
</tr>
</tbody>
</table>

**ACCESSORIES**

- 00799
  - 8" x 2" x 4" Plate Mounted Cup Stone (exclusive use with the model 00600)
- 00733-KIT
  - Type 6 Stone Adapter Kit
- 00797
  - 8" x 2" x 1½ Type 6 Stone

**Wired & Battery-Powered Handheld Grinders**

Pandrol’s extensive range of wired and battery-powered handheld grinders are designed to support the welder with all track grinding and finishing work.

**FEATURES**

- **Battery powered grinders**:
  - Autonomous battery: 2600 W, 2 x 18V / 6Ah
  - Fast battery chargers
  - Included accessories
    - Battery
    - Fast battery chargers
    - Accessories transport case

- **Wired grinders**:
  - Light weight (5 to 13 kg)
  - Powerful (2,600W, 50 Hz)
Multipurpose Grinder

**GML 24**

This light Grinding unit GML 24 is efficiently preparing the surface of the rail before fixing the connections. Easily handled equipment adapted to small track work.

**Technical data**

<table>
<thead>
<tr>
<th>Energy</th>
<th>Petrol</th>
</tr>
</thead>
<tbody>
<tr>
<td>Weight</td>
<td>57 kg</td>
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<tr>
<td>Dimensions</td>
<td>950 x 460 x 490</td>
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<tr>
<td>Rotation Speed</td>
<td>6,000 rpm</td>
</tr>
</tbody>
</table>

Multipurpose Grinder

**MFB / MFR**

The MFB Grinder uses a flexible shaft on a wheelbarrow frame, which allows the operator to easily tackle a variety of grinding operations.

**Technical data**

<table>
<thead>
<tr>
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<th>Petrol</th>
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</thead>
<tbody>
<tr>
<td>Weight</td>
<td>27 kg</td>
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<tr>
<td>Dimensions</td>
<td>450 x 370 x 420</td>
</tr>
<tr>
<td>Rotation Speed</td>
<td>4,800 rpm</td>
</tr>
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</table>

Multipurpose Grinder

**06950A / 06950**

The Multipurpose Grinder allows operators to remain in an ergonomic upright position while performing track weld grinding.

**Technical data**

<table>
<thead>
<tr>
<th>Energy</th>
<th>Hydraulics</th>
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<tbody>
<tr>
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<td>16.36 kg</td>
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<tr>
<td>Dimensions</td>
<td>1,016 x 610 x 863.6</td>
</tr>
<tr>
<td>Pressure</td>
<td>160 bar</td>
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<tr>
<td>Rotation Speed</td>
<td>6,000 rpm</td>
</tr>
</tbody>
</table>
Power Units

Offering a range of modular and mobile power units and work carts to meet all of your on-track power requirements. The range includes diesel, electric, and hydraulic solutions to suit all track maintenance activities.

Diesel Power Unit

02900A

The 02900A Diesel Power Unit can be optionally equipped with a catalytic convert, a mobility kit, and a mounted hose reel. Engine protection devices are installed to protect the engine from low oil and high temperature.

SPECIFICATIONS

<table>
<thead>
<tr>
<th>Technical data</th>
<th>24&quot; (61.0 cm)</th>
<th>36&quot; (91.4 cm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dimensions</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Engine</td>
<td>18 hp Kubota</td>
<td></td>
</tr>
<tr>
<td>Fuel</td>
<td>Diesel 4 US gal (15.14 l)</td>
<td></td>
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<tr>
<td>Start</td>
<td>Electric 12 v</td>
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</tr>
<tr>
<td>Hydraulics</td>
<td>(2) 5 gpm (19 lpm) or (1) 10 gpm (38 lpm)</td>
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</tr>
<tr>
<td>Fluid</td>
<td>Hydraulic 5 US gal (18.9 l)</td>
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</tr>
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<td>Pressure</td>
<td>2,000 PSI (135 bar)</td>
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<tr>
<td>Weight</td>
<td>321 lbs (145.5 kg)</td>
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</tr>
</tbody>
</table>
Power Units

Dual Circuit Power Unit
00100K

The 00100K Dual Circuit Power Unit is designed to deliver two 5 GPM or one 10 GPM circuit at 2000 PSI. A mounted hose reel is available with a 50 foot hose, as well as solutions for moving the machine manually or with powered assistance.

Electric Power Unit
03700A

The 03700A Electric Power Unit is designed to deliver two 5 GPM circuits or one 10 GPM circuit at 2000 PSI for hydraulic tool operations in buildings or other closed environments. This power unit is equipped with heavy duty wheels for mobility.

→ SPECIFICATIONS

<table>
<thead>
<tr>
<th>Technical data</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dimensions</td>
</tr>
<tr>
<td>Engine</td>
</tr>
<tr>
<td>Fuel</td>
</tr>
<tr>
<td>Start</td>
</tr>
<tr>
<td>Hydraulics</td>
</tr>
<tr>
<td>Fluid</td>
</tr>
<tr>
<td>Pressure</td>
</tr>
<tr>
<td>Weight</td>
</tr>
</tbody>
</table>

→ ACCESSORIES

| 00187-Kit | 00100K-Lift Handle Kit |
| 00195     | Power Point |
| 0320A     | Hose Reel with 50’ hose and mounting bracket |
| 04300     | Power Unit Mobility Cart |
| 04387     | Power Unit Mobility Kit |
| 04600     | Power Unit Transport Cart |

→ SPECIFICATIONS

<table>
<thead>
<tr>
<th>Technical data</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dimensions</td>
</tr>
<tr>
<td>Engine</td>
</tr>
<tr>
<td>Hydraulics</td>
</tr>
<tr>
<td>Fluid</td>
</tr>
<tr>
<td>Pressure</td>
</tr>
<tr>
<td>Weight</td>
</tr>
</tbody>
</table>
Power Units

Battery-Operated Hydraulic Power Unit

00100

Going green with your hydraulic equipment just became possible.

Pandrol introduces its battery operated hydraulic power unit with zero emission. Compatible with existing Pandrol hydraulic equipment, the unit permits clean and safe use of tools without fuel consumption making it an ideal solution for tunnels and clean working environments.
Mobile Diesel Power Unit
06700
The 06700 Mobile Diesel Power Unit is a 2WD power unit designed for remote areas that are not readily accessible by conventional high rail methods. The handlebar controls provide positive steering with forward and reverse travel at your fingertips. Track wheel outriggers allow for easy mobility down the rail.

Specifications
- Length: 45" (114.3 cm) Handle collapsed 32" (81.3 cm) Handle extended 38½" (97.8 cm)
- Engine: 19hp lambardini
- Fuel: Diesel 4 US gal (15.14 l)
- Start: Electric 12 v
- Hydraulics: (2) 5 gpm (19 lpm) or (1) 10 gpm (38 lpm)
- Fluid: Hydraulic 5 US gal (18.9 l)
- Pressure: 2,000 PSI (140 bar)
- Weight: 585 lbs (265 kg)

Accessories
- 0326 Hose Reel with 50' hose and mounting bracket
- 02900C Hose Reel with Catalytic Converter
- 02998 Power Unit Lift Handle Kit
- 06100 Tamper Cart w/ 2 hose reels

Modular Power Unit
02050RM
The 02050RM Modular Power Unit is designed to be easily transported in two lightweight sections and it simply couples together for immediate use. It delivers 9 GPM of flow which will operate all critical hydraulic tools. Where size and weight are primary concerns, this unit is perfect for the job. Two compact sections allow for ease of getting into tight work locations while being lightweight and safe for operators to carry to the work site.

Specifications
- Length: Handle collapsed 45" (114.3 cm) Handle extended 57" (144.7 cm)
- Width: 33" (83.8 cm)
- Height: 36" (91.4 cm)
- Max payload: 425 lbs (953 kg)
- Tires: Flat-free Foamfilled
- Weight: 187 lbs (84.8 kg)
## Power Unit Mobility Cart

**06300**

The 06300 Mobility Cart is lightweight, highly versatile, and simple to set up, allowing the operator to easily manoeuvre power units both on-rail and off-rail. It can also be used as a tool trolley when no power unit is secured to it. The handles and rollers on this unit collapse for compact storage.

### Technical data

<table>
<thead>
<tr>
<th><strong>Dimensions</strong></th>
<th>36&quot; (91.4 cm)</th>
<th>25&quot; (63.5 cm)</th>
<th>32&quot; (81.3 cm)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Generator</strong></td>
<td>5,000w 120/240 v</td>
<td>Single phase @ 60 hp</td>
<td>120V - 41.6 Amp rating</td>
</tr>
<tr>
<td><strong>Engine</strong></td>
<td>23Hp Kohler</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Fuel</strong></td>
<td>Gasoline 4 US gal (15.14 l)</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Start</strong></td>
<td>Electric 12 v</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Hydraulics</strong></td>
<td>(2) 5 gpm (19 lpm) or (1) 10 gpm (38 lpm)</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Fluid</strong></td>
<td>Hydraulic 5 US gal (18.9 l)</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Pressure</strong></td>
<td>2,000 PSI (140 bar)</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Weight</strong></td>
<td>506 lbs (229.5 kg)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Hose Reel with 50' hose and mounting bracket

### ACCESSORIES

| **06600** Power Unit Transport Cart | **06326** Hose Reel with 50' hose and mounting bracket |

## Power Unit Transport

**06600**

The 06600 Power Unit Transport Cart is a 2WD mobility package designed to transport Pandrol power units to remote areas that are not readily accessible by conventional high-rail methods. The handlebar controls provide positive steering with forward and reverse controls at your fingertips. Power to operate the cart (5 GPM @ 2000 PSI) is provided by the power unit being transported.

### Technical data

<table>
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<tr>
<th><strong>Dimensions</strong></th>
<th>29½&quot; (74.9 cm)</th>
<th>23½&quot; (59.6 cm)</th>
<th>25&quot; (63.5 cm)</th>
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</thead>
<tbody>
<tr>
<td><strong>Engine</strong></td>
<td>14hp Kohler</td>
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<td></td>
</tr>
<tr>
<td><strong>Fuel</strong></td>
<td>Gasoline 7.4 US Qts (7 l)</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Start</strong></td>
<td>Pull</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Hydraulics</strong></td>
<td>(1) 9 gpm (34 lpm)</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Fluid</strong></td>
<td>Hydraulic 3.5 US gal (13.2 l)</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Pressure</strong></td>
<td>2,000 PSI (140 bar)</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Weight</strong></td>
<td>165 lbs (74 kg)</td>
<td>Engine Module: 100 lbs (45 kg)</td>
<td>Hydraulic Tank Module : 65 lbs (27 kg)</td>
</tr>
</tbody>
</table>
Twin Power Unit
W/ Generator
05500

The 05500 Twin Power Unit is designed to deliver two 5 GPM circuits or one 10 GPM circuit at 2000 PSI for hydraulic tool operations. With the additional 5000 watt generator, AC powered equipment may be operated simultaneously. Quiet and efficient, this unit gives maintenance-of-way crews the versatility to operate safely and cost effectively in adverse conditions with a variety of equipment.

SPECIFICATIONS

<table>
<thead>
<tr>
<th>Technical data</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Dimensions</td>
<td>29” (73.6 cm) x 39” (99 cm) x 18¼” (46.3 cm)</td>
</tr>
<tr>
<td>Weight</td>
<td>96 lbs (43.5 kg)</td>
</tr>
</tbody>
</table>
Clipping Equipment

Pandrol develops and manufactures a wide range of modern clipping equipment which drives efficient construction and maintenance of rail infrastructure.

Pandrol clipping machinery adds value to tasks from track renewals and installation to welding and sleeper change operations.

Clipping Equipment

**Clip Driver CD100**

This versatile small clipping tool is perfect for clipping and declipping Pandrol Fastclips. The ergonomically designed CD100 is ideal for smaller clipping and declipping applications.

It has its own power supply and a weight bearing wheel that runs along the rail to prevent back injuries among operatives. Designed with a quick connect interface, the patented CD100 comes in three modules: the power pack, the clipping tool and the declipping tool. It can be coupled quickly and easily to other tools and can lift sleepers up to 10 mm if required.

**Clip Driver CD200 IQ**

Clip Driver CD200 IQ is the first machine in our new IQ series with intelligent control systems that streamline operations, whilst providing information on clips installed and operating hours.

CD200 IQ is modular built to enable it to be easily lifted on and off track. It is simple to change between the two tools for Fastclip and e-clip with the mechanical and hydraulic quick connections.

The CD200 IQ has the patented built-in sleeper lift function enabling a lift of low lying sleepers up to 50 mm. A fail-safe mechanical parking brake is available as an option.

### Specifications

<table>
<thead>
<tr>
<th>Technical data</th>
<th>Power Unit</th>
<th>Clipping Tool</th>
<th>Uncipping Tool</th>
</tr>
</thead>
<tbody>
<tr>
<td>Capacity</td>
<td>18 sleepers / min</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Weight</td>
<td>16 kg</td>
<td>24 kg</td>
<td>24 kg</td>
</tr>
<tr>
<td>Length</td>
<td>680 mm</td>
<td>580 mm</td>
<td>550 mm</td>
</tr>
</tbody>
</table>

### Advantages

- Easy to use
- Clips up to 10 sleepers per minute
- Can be transported in a car or pickup
- Small and portable tool that well suited to maintenance teams
Clip Driver CD300 IQ

Clip Driver CD300 IQ is a high-production clipping machine designed to install Pandrol Fastclip FC and FE. Its low weight makes it suitable for use on smaller road-rail machines from 6 tonnes and upwards.

The intelligent control system monitors the operation of the machine and actively controls the clipping operation. The tools are based on proven technology used by Pandrol’s Clip Driver CD400, but the tools are folded up when not in use and thereby eliminate the risk of collision with fishplates and clips in the track.

**ADVANTAGES**

- The intelligent and intuitive control system automatically adjusts the clipping speed to correlate with the speed of the carrier machine
- The system also ensures that tools are not activated in the wrong work mode, preventing damage to the machine and surrounding infrastructure
- Can be used on road-rail machines as light as 6 tonnes

**SPECIFICATIONS**

<table>
<thead>
<tr>
<th>Technical data</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Capacity</td>
<td>60 sleepers / min</td>
</tr>
<tr>
<td>Weight</td>
<td>975 kg</td>
</tr>
<tr>
<td>Height</td>
<td>1,030 mm</td>
</tr>
<tr>
<td>Length</td>
<td>1,730 mm</td>
</tr>
<tr>
<td>Width</td>
<td>2,250 mm</td>
</tr>
<tr>
<td>Wheels</td>
<td>ø 125 mm</td>
</tr>
</tbody>
</table>

- Combines time-tested technology of the CD400 with a newly designed control system
- Compatible with Pandrol Fastclip FC and FE
- Folds up the tools when not in use to avoid collision with fishplates, shoulders, clips etc.
Clip Driver CD500

This high-output clipping machine is a self-propelled fastening machine designed for the Pandrol Fastclip. It has a computer-controlled system (PLC) and a tracking system that enables it to “walk” on and off the track.

An electrical backup hydraulic system enables it to off-track in the event of engine failure. Built-in guiding rollers ensure centering position on rail.

Features
- Fits tools for both Pandrol Fastclip and e-Clip on the same machine
- Robust design including tools with tapered roller bearings for extra long life
- Covers and mechanical stop arms eliminates risk for pinch injuries and prevents clips to fly off

Accessories
- Safelok head
- 31990750S
- Rail lift
- 31991906
- Safety system for tilt limitation
- 319916022
- Levelling system
- 31992769S
- Supporting pads + storage, to stabilise machine on soft ground
- 31992680S
- Bridging unit + storage, to protect sleepers

Specifications
- Capacity: 60 sleepers / min
- Weight: 5,000 kg
- Length: 3,870 – 4,930 mm
- Width: 2,100 – 2,380 mm
- Max speed: 20 km/h
- Rail type: UIC60 & U50
- Rail wheels: std UIC-profile

Clip Driver CD400

A high-performance clipping machine for use with a rail road machine.

The robust Clip Driver CD400 clips and unclips Pandrol Fastclip and/or Pandrol e-Clip. The unit can also be equipped with a sleeper lift to be used for new construction (only compatible with Fastclip).

Features
- Designed to increase efficiency, allowing the user to simultaneously install 4 clips per cycle
- Guiding rollers to centre the machine for optimum precision
- Proximity sensors operated via the control panel support automatic clipping of Pandrol Fastclip

Specifications
- Capacity: 40 sleepers / min
- Weight: 5,000 kg
- Length: 3,870 – 4,930 mm
- Width: 2,100 – 2,380 mm
- Max speed: 20 km/h
- Rail type: UIC60 & U50
- Rail wheels: std UIC-profile

Clip Driver CD400 SP

The Rosenqvist CD400SP Clip Driver is a walk-behind machine which can clip and unclip a range of fastening systems.

Self-propelled, this track clipping machine is designed with a high-performance diesel engine to enable easy use for a single operator via a control panel. A handheld control panel allows the operator to easily control the speed, clipping and unclipping functions.

Features
- Clip and unclip (also unclips SHC clips)
- An electrical backup hydraulic system enables it to off-track in the event of engine failure
- Designed to increase efficiency of track installation and maintenance activities, with optimised clipping capabilities with a single operator
- Safety guards can be fitted which protect operatives from the adjacent track when installing stressing rollers

Specifications
- Capacity (Fastclips): 40 sleepers / min
- Weight: 1,400 kg
- Height: 1,030 mm
- Length: 2,500 mm
- Width: 2,100 mm
Track Renewal Clipper TRC

The Track Renewal Clipper TRC fits easily onto track renewal trains and similar machines to provide automated clipping of Pandrol Fastclip FC and FE fastenings. Powered by a PLC system, the machine has built-in sensors for clip detection and a hydraulically controlled slide to enable clipping whilst in motion. The TRC features a rigid frame structure to which the clipping tools are fitted.

- Has a stand-alone control system
- Easy to fit to a track renewal train
- Capability to lift sleepers up to 8 mm
- Can be fitted to any track renewal train
- Manual operation possible through the control panel
- Can be lifted up and secured in parked position when not in use

Technical data

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Capacity (Fastclips)</td>
<td>25 sleepers / min</td>
</tr>
<tr>
<td>Wheels</td>
<td>350 m</td>
</tr>
<tr>
<td>Height</td>
<td>1,030 mm</td>
</tr>
<tr>
<td>Weight</td>
<td>950 kg</td>
</tr>
<tr>
<td>Electrical System</td>
<td>24VDC</td>
</tr>
</tbody>
</table>

Track Renewal Declipper TRD

The TRD is fitted underneath a track renewal trains or equivalent and offers automatic unclipping of Pandrol Fastclip or FE. The unit consists of two unclipping tools, one for each rail. It has a stand-alone control system and built-in sensors that detects the clips and automatically triggers the unclipping operation. The TRD unit also has sensors to detect fishplates in the web of the rail and automatically raises the tools to eliminate the risk for collision and potential damage to sleepers and tools.

- Has a stand-alone control system
- Can be fitted to any track renewal train
- Detects fishplates or other obstacles in the rail web
- Can work efficiently also in curves due to its two independent tools

Technical data

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Width</td>
<td>715 mm (per tool)</td>
</tr>
<tr>
<td>Height</td>
<td>870 mm</td>
</tr>
<tr>
<td>Weight</td>
<td>500 kg (250 kg per tool)</td>
</tr>
<tr>
<td>Length</td>
<td>930 mm</td>
</tr>
<tr>
<td>Electrical System</td>
<td>24VDC</td>
</tr>
</tbody>
</table>
Hy-Rail Equipment

Pandrol has developed a range of Hy-Rail equipment to adapt the most common type of excavators for use on rail.

The Hy-Rail solutions, for use with excavators ranging up to 20 tons, offer significant advantages over heavy and immobile traditional machinery.

Hy-Rail 9–14T

Rail Road Conversion

Fit the innovative Hy-Rail system to tracked excavators and increase stability and flexibility when working on railways.

Designed specifically for machines weighing 9 to 14 tonnes, this 4WD Hy-Rail attachment gives drivers full manoeuvrability when working on rail tracks. Its wheels are designed according to UIC and its hydraulics work without extra swivel implements.

FEATURES

- 4WD as standard
- Brakes on all four wheels
- UIC wheel profile (diameter 450 mm)
- EQ Axle concept ensures all wheels in contact with the rail at all times
- Rail axles are manoeuvred using the original hydraulic functions on the machine
- The optional tool carrier attachment makes it possible to carry a bucket or forks

Hy-Rail 5–9T

Rail Road Conversion

Increase stability and flexibility for tracked excavators used on rail tracks with the Hy-Rail attachment. This innovative 4WD rail conversion kit is patented and designed for excavators weighing between five and nine tonnes, giving the driver full control of operations and confidence that work can be undertaken safely.

FEATURES

- 4WD as standard
- The EQ axle concept ensures that all wheels are in contact with the rail at all times, and thereby eliminate risk for derailment
- Delivered with CE certification
- On-track speeds of up to 20 km per hour (12.4 mph)
- Hy-Rail wheels are based on the patented EQ axle concept
- The rail wheels are designed in accordance with UIC and its hydraulics operate without extra swivel implements
Hy-Rail 10-16T
Rail Road Conversion

Manufactured specifically for wheeled excavators weighing 10 to 16 tonnes, this Hy-Rail system offers stability and flexibility when working on rail tracks. All movement is controlled from the driver’s cabin, and the hydraulics work without the need for additional swivel implements.

The machine has two modes of operation: lifted up with the rubber wheels in contact with the rail wheels, or lowered down onto the rail with the rubber wheels running on the rail with the rail wheels used as gudge wheels.

**FEATURES**

- The front and rear Hy-Rail adapters are devices intended for mounting on wheeled excavators
- Propulsion and braking is done with the mounted Hy-Rail adapter in transport mode
- Propulsion and braking in work mode is achieved with the machine’s wheels in contact with the head of the rail
- The adapter is operated up and down with the machine hydraulics
- The front and rear wheel axle kits are bolted to the undercarriage of the machine
- The wheel axles are operated up and down from the cab using the original machine hydraulics
- Parking and emergency brakes are fitted onto one axle
- Rail guards are fitted on all four wheels to clear the rail from obstacles

**ADVANTAGES**

- Designed for stability and flexibility when working on rail
- The equipment is designed to facilitate safe and effective work on the railway
- Rail wheels are designed in accordance with UIC
- The kit has one rigid and one pivoting wheel axle to ensure that all wheels remain in contact with the rail at all times
- The two modes of operation provides flexibility and ensures that the machine can work on all track lines
- The rail axle can be fitted with an optional tool carrier attachment which enables the machine to carry a bucket or forks.

**ACCESSORIES**

- Safety kit – for height and swing limitation
- Rates Capacity Indicator (RCI) Kit
- Towing Kit / Towing bar

**Additional information**

- **Weight**: 1,800 kg
- **Gauge, standard**: 1,435 mm
- **Wheel**: 450 mm

For more information visit the website www.pandrol.com
Carrier-mounted Attachments & Trailers

We design, manufacture and market high productivity machinery, equipment and working processes for efficient construction and maintenance of railways.

We developed new methods and design innovative equipment to safely speed up and increase productivity on the railways.

Auto Master for SB40 and SB60

Clip new sleepers onto the rail with just one press of a button. Minimise the number of people needed for clipping during re-sleeper operations by using the Rosenqvist Auto Master.

Developed as an accessory for the Sleeper Replacer SB40 and SB60, the Auto Master enables Pandrol Fastclips or Pandrol FE to be fitted automatically, ensuring a higher degree of site safety by reducing the amount of staff on track.

This self-centering machine can handle the normal varieties of rails and sleepers and is supplied with CE certification as standard.

**Features**

- Automatic clip installation controlled by the machine operator
- The working capacity with the Automaster is approx. 20-30 sleepers per hour
- Removes 6-8 people on the ground and is therefore an enormous advantage when looking at personnel safety.
- Automaster can be adjusted to accommodate a wide range of different clip assemblies
- Requires no extra hydraulics from the carrier machine

**Specifications**

- **Technical data**
  - Weight for SB60: 420 kg / unit
  - Weight for SB40: 222 kg / unit
  - Length: 530 mm
  - Width: 2,530 mm
  - Height: 510 mm
  - Max rail height: 213 mm
  - Track gauge standard: 1,435 mm
  - Min opening on tool (installation): 330 – 445 mm
  - Energy: Hydraulic
  - Flow recommended: 20-50 l/min
  - Installation force at 190 bar: 40 kN
  - Recommended oil pressure: 180 bar

For more information visit the website www.pandrol.com
Sleeper Layer SL400

Achieve fast and accurate sleeper handling with the SL400, an easily adjustable tool designed to fit most kinds of sleepers. The system can handle four sleepers simultaneously.

The SL400 has a telescopic frame that makes the unit compact and safe to operate, and thanks to a unique patented linkage system, the centre of gravity will not change during spreading. Spacing between sleepers can be set from 300 – 750 mm. The SL400 works in a hydraulic sequence and no electricity is required on the carrier machine.

Production rate 60 to 80 meters / hour

Telescopic frame structure

Grabs underneath the sleeper

Compact and easy to manoeuvre safely

Prepared for use both rotator and rototilt

Easy adjusted to fit most type of sleepers

---

Sleeper Layer SL450

This carrier-mounted attachment is designed for high output sleeper laying. Correct placement of sleepers is ensured by the SL450’s precision gauging hydraulic system that spreads the sleepers to the desired spacing, which can be set at 300 – 750 mm.

Its telescopic frame makes the Sleeper Layer compact and safe to operate. Thanks to its unique linkage system, the centre of gravity will not change during spreading.

- Production rate 60 to 60 meters / hour
- Prepared for rototilt
- Telescopic frame structure
- Grabs sleepers from the side
- Easy adjusted to fit most type of sleepers
- Suggested carrying machine tonnage 15 ton

---

Sleeper Replacer SB40

This light weight version of the reliable SB60, provides the same cost effective and safe working solution. It is intended for smaller carrier machines in the range 8-12 ton which are equipped with a permanently fitted tilt rotator.

Same as the SB60, the SB40 is compatible with most types of sleepers and is available in various track gauges to provide maximum flexibility.

---

Sleeper Replacer SB60

The Sleeper Replacer SB60 is a sleeper replacement attachment designed to provide safe and efficient replacement of sleepers. The SB60 has innovative tilt and rotate functions which allow sleepers to be changed from both the middle and side of the track.

Designed for effective movement and recossing of the track ballast, this high performance sleeper replacer supports a versatile, high-output method for track maintenance.

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ACCESSORIES

- Automaster clipping
- Bucket attachment

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SPECIFICATIONS

<table>
<thead>
<tr>
<th>Technical data</th>
<th>SL400</th>
</tr>
</thead>
<tbody>
<tr>
<td>Weight</td>
<td>814 kg</td>
</tr>
<tr>
<td>Height</td>
<td>655 mm</td>
</tr>
<tr>
<td>Depth</td>
<td>6,000 kg</td>
</tr>
<tr>
<td>Blade width</td>
<td>2,578 mm</td>
</tr>
<tr>
<td>Clamp force</td>
<td>5,000 kg</td>
</tr>
</tbody>
</table>

Sleeper Layer SL450

<table>
<thead>
<tr>
<th>Technical data</th>
<th>SL450</th>
</tr>
</thead>
<tbody>
<tr>
<td>Weight</td>
<td>1,050 kg</td>
</tr>
<tr>
<td>Height</td>
<td>762 mm</td>
</tr>
<tr>
<td>Width</td>
<td>2,985 mm</td>
</tr>
<tr>
<td>Length min–max</td>
<td>1,120 – 2,500 mm</td>
</tr>
<tr>
<td>Clamp force</td>
<td>1,300 – 2,500 kg</td>
</tr>
<tr>
<td>Flywheel capacity</td>
<td>295 dNm</td>
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Sleeper Replacer SB60

<table>
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<tr>
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<tbody>
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<td>1,050 kg</td>
</tr>
<tr>
<td>Height</td>
<td>1,000 mm</td>
</tr>
<tr>
<td>Depth</td>
<td>1,300 mm</td>
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<tr>
<td>Blade width</td>
<td>2,700 mm</td>
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<td>Clamp force</td>
<td>6,000 kg</td>
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</table>

Sleeper Replacer SB40

<table>
<thead>
<tr>
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<th>SB40</th>
</tr>
</thead>
<tbody>
<tr>
<td>Weight</td>
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<tr>
<td>Height</td>
<td>1,000 mm</td>
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<tr>
<td>Width</td>
<td>1,635 mm</td>
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<tr>
<td>Blade width</td>
<td>2,578 mm</td>
</tr>
<tr>
<td>Clamp force</td>
<td>6,000 kg</td>
</tr>
</tbody>
</table>

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For more information visit the website www.pandrol.com
Sleeper Layer SL550

Up to five adjacent sleepers can be laid simultaneously from an accompanying supply. Lifted into position, their correct placement are ensured by a precision gauging hydraulic system that spreads the sleepers to the desired distance. A major benefit is that the sleepers do not move sideways when the grab is released and also that it is possible to pick up the sleepers straight from the ground.

**Technical data**

- **Number of sleepers**: Max 5 pcs
- **Weight (without options)**: 1,505 kg
- **Length min - max**: 1,750 - 3,520 mm
- **Height standard, + str: rotator, + bracket**: 825, 1,175, 1,525 mm

Sleeper Layer SL600

Designed for high output sleeper laying - up to six adjacent sleepers can be laid simultaneously from an accompanying supply. Lifted into position, their correct placement is ensured by a precision gauging system that spreads the sleepers to the desired distance. Suggested tonnage of carrier machine is 23 ton plus.

**Technical data**

- **Performance**: 80 to 120 meters / hour
- **Weight**: 1,200 kg
- **Length min - max**: 2,000 - 4,675 mm
- **Height**: 1,333 mm
- **Max distance between sleepers**: 762 mm

Sleeper Layer SL650

Up to six adjacent sleepers can be laid simultaneously from an accompanying supply. Lifted into position, their correct placement are ensured by a precision gauging hydraulic system that spreads the sleepers to the desired distance up to maximum 765 mm.

**Technical data**

- **Performance**: 80 to 120 meters / hour
- **Weight (with str: rotator and bracket)**: 2,500 kg
- **Length min - max**: 2,000 - 4,675 mm
- **Height standard, + str: rotator, + bracket**: 825, 1,175, 1,525 mm
- **Max distance between sleepers**: 762 mm

Sleeper Layer SL800

Place up to 8 sleepers simultaneously with the Sleeper Layer SL800. Offering maximum effiency, the SL800 is our largest capacity sleeper layer and is compatible with most sleeper types. Its precision gauging system ensures an even spread of sleepers, laid correctly at the desired intervals, whilst the SL800's telescopic frame makes it compact and safe to operate.

The SL800 can be supplied with or without a tilt rotating function, which reduces the risk of anything pointing over the adjacent track whilst grabbing sleepers from a rail car.

**FEATURES**

- Easy adjusted to fit most type of sleepers
- Quick change of gripping claws for various sleeper lengths
- Safety lifting is ensure by the control system function
- Suggested tonnage of carrier machine is 25 ton plus

**SPECIFICATIONS**

- **Performance**: 120 to 150 meters / hour
- **Weight (including bracket)**: 2,410 kg
- **Length min - max**: 3,005 - 5,985 mm
- **Height with tilt rotator and bracket**: 1,660 mm

Sleeper Layer SL850

The SL850 is designed and manufactured for efficient positioning of concrete sleepers. It utilises standard couplings on heavy extractors and loaders.

Up to eight adjacent sleepers can be laid simultaneously from an accompanying supply. Lifted into position, their correct placement are ensured by a precision gauging hydraulic system that spreads the sleepers to the desired distance up to maximum 765 mm (30in). (With fewer sleepers the distance can be extended further).

**FEATURES**

- Possible to pick up sleepers straight from the ground
- Easy adjusted to fit most type of sleepers
- Safe lifting is ensured by the control system function
- Suitable for slab track or when the track bed must not be disturbed

**SPECIFICATIONS**

- **Performance**: 120 to 150 meters / hour
- **Number of sleepers**: Max 8 pcs
- **Weight (including tilt rotator)**: 2,600 kg
- **Length min - max**: 3,005 - 5,985 mm
- **Height standard, + tilt rotator, + bracket**: 825, 1,375, 1,525 mm
Rail Trailer RT3230

The Rail Trailer RT3230 is designed for transport of material and equipment between different work sites on railway. It is manufactured to be towed by a railroad vehicle and is equipped with an accompanying tow bar. The trailer can be fitted with load sides as an option.

<table>
<thead>
<tr>
<th>Technical data</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Weight</td>
<td>3,000 kg</td>
</tr>
<tr>
<td>Length</td>
<td>5,500 mm</td>
</tr>
<tr>
<td>Width</td>
<td>2,560 mm</td>
</tr>
<tr>
<td>Loading capacity</td>
<td>17,000 kg</td>
</tr>
<tr>
<td>Gauge, standard</td>
<td>1,435 mm</td>
</tr>
</tbody>
</table>

Rail Trailer RT3235

The Rail Trailer RT3235 is designed for transport of material and equipment between different work sites on railway. It is manufactured to be towed by a railroad vehicle and is equipped with an accompanying tow bar.

<table>
<thead>
<tr>
<th>Technical data</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Weight</td>
<td>785 kg</td>
</tr>
<tr>
<td>Length</td>
<td>2,500 mm</td>
</tr>
<tr>
<td>Width</td>
<td>1,800 mm</td>
</tr>
<tr>
<td>Loading capacity</td>
<td>3,500 kg</td>
</tr>
<tr>
<td>Gauge, standard</td>
<td>1,435 mm</td>
</tr>
</tbody>
</table>

Road Rail Trailer RRT

The trailer can easily be converted to tip right, left and backwards and the tipping angle adjusted to comply with maximum heights on particular work sites. The trailer has been designed for easy connection to the carrier machine and it has its own remote control system that makes it possible to manoeuvre all functions from the cab.

The rail axles can be manoeuvred individually, have parking/emergency brakes and one axle can pivot to increase safety. The hydraulic tow-bar can be adjusted up and down to make it easy to enter or exit the track.

<table>
<thead>
<tr>
<th>Technical data</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Weight</td>
<td>28 kg</td>
</tr>
<tr>
<td>Width</td>
<td>330 mm</td>
</tr>
<tr>
<td>Height</td>
<td>330 mm</td>
</tr>
<tr>
<td>Max load</td>
<td>4,800 kg</td>
</tr>
</tbody>
</table>

Rail Grip RG2500

Our Rail Grip RG2500 is specially designed to lift rail segments and pull them, thanks to the towing support welded to the side. Delivered with CE certification, the patented grip can be attached or removed from rails with a simple adjustment and is treated with linseed oil to improve lubrication.

<table>
<thead>
<tr>
<th>Technical data</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Weight</td>
<td>5 kg</td>
</tr>
<tr>
<td>Width</td>
<td>160 mm</td>
</tr>
<tr>
<td>Height</td>
<td>270 mm</td>
</tr>
<tr>
<td>Max load</td>
<td>2,500 kg</td>
</tr>
</tbody>
</table>

Rail Grip RG3000

The Rail Grip RG3000 is designed for the North American market and complies to the AREMA requirements. It safely lifts rail segments and can also be used to pull rail thanks to the towing support welded to the sides. With its two supports it holds the rail horizontal during the lift.

<table>
<thead>
<tr>
<th>Technical data</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Weight</td>
<td>715 kg</td>
</tr>
<tr>
<td>Width</td>
<td>160 mm</td>
</tr>
<tr>
<td>Height</td>
<td>270 mm</td>
</tr>
<tr>
<td>Max load</td>
<td>3,000 kg</td>
</tr>
</tbody>
</table>

Roller Grip RG4800

The Roller Grip RG4800 is great for handling rails. Thanks to its clever design, the non-hydraulic rail thimble tool is easy to use and will minimise the risk of damaging the rail. For added peace of mind, it is tested thoroughly and supplied with CE certification.

<table>
<thead>
<tr>
<th>Technical data</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Weight</td>
<td>28 kg</td>
</tr>
<tr>
<td>Width</td>
<td>330 mm</td>
</tr>
<tr>
<td>Height</td>
<td>330 mm</td>
</tr>
<tr>
<td>Max load</td>
<td>4,800 kg</td>
</tr>
</tbody>
</table>
Rail Clamp

The Pandrol Rail Clamp is an innovative temporary rail joint clamp used prior to welding and to safeguard rail defects prior to repair. The Rail Clamp has been engineered to eliminate many of the disadvantages of other traditional rail clamp designs and provides enhanced performance under all conditions of use.

The Pandrol Rail Clamp design is radically different to the legacy design and guarantees a positive pre-torque angle so as the bolt is tightened the bolt holes remain aligned, eliminating the risk of bent bolts. Pandrol tests have proved that bolts remain straight even at twice the recommended torque.

Features

- 4WD as standard
- Increased clamping force reduces rail creep due to temperature change
- Improved vertical deflection allows higher line speeds over the joint
- Hardlock anti-loosening nut system available
- Compatible with many different rail profiles
- Bolts can be reused unlike current designs

By minimising installation time we reduce or even eliminate the need for track possession. We create products suitable for all environments regardless of sleeper type, rail fastening or whether they are being used on ballasted or slab track. Operational efficiency, flexibility and reliability are critical factors in the design of every product.

For more information visit the website www.pandrol.com
Safety Barrier

The Pandrol Safety Barrier is designed for worker protection and is widely used in many countries including the UK, Germany, Australia, Belgium, Sweden & Norway. The barrier provides an effective safe zone for track workers (Green zone in the UK) and fits virtually all rail types internationally.

Pandrol manufacture two variants: the Telescopic Safety Barrier for varying line speeds and the Shoulder Clearance Safety Barrier for minimal ballast disturbance. Our proven barrier has insulation properties giving protection in overhead line and 3rd rail environments.

Cost savings
Improved track safety
Quick & easy to install
All components are fully re-usable

Adding Value

The Pandrol Safety Barrier is the UK industry standard for track working protection.

Features

- Cost savings
- Improved track safety
- Quick & easy to install
- All components are fully re-usable

Accessories

1. 111-1015 Bungee tool
2. 111-1001 Cocking lever
3. 111-1019 Corner post
4. 111-1016 Safe access gate
5. 111-1002 Light mast support
Vortok Stressing Roller

The VSR is designed to attach to the rail fastening and by means of a rotating lift arm and bearing, contact the underside of the rail head and lift the unclipped rail from the sleeper.

Lift action moves the bearing over centre which self-locks the VSR in the raised position, replacing under rollers and side-rollers and eliminates the need for rail jacks on site. Once lifted, the rail can be moved with very low friction for the purposes of rail stressing. The resultant stress distribution is therefore optimised. The VSR can also be used for changing rail pads.

FEATURES

- Higher productivity with a significant reduction in manpower and achieves time savings of more than two hours on a standard 900 m stressing operation
- No need for rail jacks which can slip during use therefore meaning that there is no need for operators to reach under the rail to fit under rollers.
- Stress distribution is significantly improved and rail breaks at the weld are reduced, as the localised tension is optimised

Example of installation times:

<table>
<thead>
<tr>
<th>eVSR</th>
<th>Technical data</th>
<th>Time taken to set up 190m</th>
<th>Time taken to remove 190m</th>
<th>Time taken to set up 800m</th>
<th>Time taken to remove 800m</th>
</tr>
</thead>
<tbody>
<tr>
<td>Vortok eVSR</td>
<td>10 minutes (2 men)</td>
<td>6 minutes (2 men)</td>
<td>40 minutes (2 men)</td>
<td>24 minutes (2 men)</td>
<td></td>
</tr>
<tr>
<td>Traditional</td>
<td>24 minutes (4 men)</td>
<td>17 minutes (4 men)</td>
<td>102 minutes (4 men)</td>
<td>73 minutes (4 men)</td>
<td></td>
</tr>
</tbody>
</table>

There are savings made in possession costs, which are worksite as well as country related, and are usually the greater savings as much as 75% on some jobs.

VARIATIONS

Designed for the majority of Pandrol rail fastenings and common rails irrespective of sleeper material. The Pandrol fastening and VSR combination enables the highest quality rail stress processes.
Rapid Fit Frames

Utilising our extensive experience with mounting beams, we have developed a range of rapid fit frames for use with our modular AWS magnets.

The frames can be configured for single, double or triple magnet installations and are easily installed on a wide range of rail fastening and sleeper designs. The system comprises of glass-reinforced plastic beams fitted over and around the existing rail fixing and galvanised steel stringers supporting and securing the AWS Magnets.

- Can be installed on a wide range of sleeper types and rail fastenings
- Does not require specialised tools to install or remove
- Can be retrofitted in existing installations
- Reduces the need for track possession
- Removes the need to drill into concrete sleepers
- High resistance to chemicals and climatic changes

Z Bond Mounting System

The Z-Bond Mounting System has been specifically developed for fitting components of Bombardier EBI Track 400 Z-Bond and SATU/CU circuit systems within the Network Rail infrastructure.

This mounting system facilitates quick in-track installation and is compatible with the majority of sleeper, rail and fastening combinations across the UK. It uses the same mounting technology as our Balise Beams, AWS Magnets and TPWS panels.

- Designed for use with Bombardier EBI Track 400 Z-Bond and SATU/CU circuit systems
- Reduced track downtime through increased installation speeds
- Can easily be installed in-track within minutes
- Glass-reinforced plastic (GRP) beams are used to fit over and around the existing rail fastening
- GRP channels and a cross connector securely guide and mount cables of EBI Track 400 systems

Track-mounted Equipment

Our range of track-mounted equipment has been designed with efficiency in mind. They support reduced track downtime and possession requirements.
Rail networks have an increasing need to understand the condition of their track, allowing them to implement efficient maintenance operations.

Pandrol’s inspection services and equipment are suitable to all types of network and provide valuable insights for the safety and longevity of the track.

**Geometrical Measurement**

Our Geometrical Measurement analyses the rail based on a variety of physical parameters, allowing rail operators to accurately plan their maintenance operations. Parameters including track gauge, alignment and twists are tested for conformity to network standards and specifications.

Identifying points of undulatory wear on the rail head will outline where grinding actions need to be taken to prevent further deterioration. This data is highlighted on the control panel of the machine, and feeds into a comprehensive report for the user.

**Geometrical Measurement**

- Gauge
- Cant
- Alignment
- Twist
- Top
- Undulatory wear

**Rail Profile Inspection**

A detailed inspection of the rail profile is carried out using laser technology. The rail profile is compared to an optimal profile to see the level of wear on the head on the rail.

**F E A T U R E S**

- Laser technology
- Determines the profile on the pad
- See the result at a glance

**REPORT**

The report compares the actual profile to the optimal profile and determines the causes of the damage.

**PARAMETERS**

The data collected is outputted into a comprehensive report, that shows all anomalies detected and their precise GPS locations.

**REPORT**

For more information visit the website www.pandrol.com
Ultrasonic Testing of a single rail

Pandrol’s ultrasonic rail testing uses high pitched waves to identify defects in the rail. A full track inspection service is available, which provides an exhaustive report of the location, characteristics and urgency of all defects.

Pandrol also sells a variety of ultrasonic testing equipment along with comprehensive training tailored to your infrastructure, delivered by certified inspectors. Our range of ultrasonic equipment includes both manual and motorised inspection tools, which can be operated at up to 20 km per hour.

Ultrasonic testing is one of the safest and most reliable solutions to effectively monitoring your track condition.

Ultrasonic Flaw Detector

USSTA001

This compact Ultrasonic Flaw Detector offers an ergonomic design and a variety of functionality for daily applications in workshops, laboratories, and on track. It has 2 channels, allowing the user to detect defects in two rails.

FEATURES

- A Scan and B Scan Display
- Standard DAC
- Automatic calibration
- Auto Gain and Auto Freeze

SPECIFICATIONS

Technical data
- Weight: 1.2 kg
- Dimensions: 224 x 188 x 34 mm
- Battery: 10 hours
- LCD Screen: 1024 x 768 pixels

Transform your smartphone or tablet into an Ultrasonic Testing tool using your device’s Bluetooth. With this system, you can easily make on track inspections.

Ultrasonic Flaw Detection for Mobile and Tablet

USBLU001

Conduct Ultrasonic Testing in environments that are difficult to access
- Works in high temperatures
- Can submit measurement data to local devices up to 8 meters away

FEATURES

- Conduct Ultrasonic Testing in environments that are difficult to access
- Works in high temperatures
- Can submit measurement data to local devices up to 8 meters away

SPECIFICATIONS

Technical data
- Weight: 240 g
- Dimensions: 112 x 32 x 79 mm
- Display: A-Scan
- Battery: 8h + battery backup
- Connection: Bluetooth

Pandrol's ultrasonic rail testing uses high pitched waves to identify defects in the rail. A full track inspection service is available, which provides an exhaustive report of the location, characteristics and urgency of all defects.

Pandrol also sells a variety of ultrasonic testing equipment along with comprehensive training tailored to your infrastructure, delivered by certified inspectors. Our range of ultrasonic equipment includes both manual and motorised inspection tools, which can be operated at up to 20 km per hour.

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SPECIFICATIONS

Technical data
- Weight: 240 g
- Dimensions: 112 x 32 x 79 mm
- Display: A-Scan
- Battery: 8h + battery backup
- Connection: Bluetooth
Geometrical Weld Analysis

This inspection allows the user to analyze the geometrical parameters of a recent weld to determine that it has conformed to network specifications.

**FEATURES**
- Determines conformity of the weld
- See the result at a glance

**REPORT**
Accurate tracking of the weld can be done in real time using the Pandrol Connect App.

Ultrasonic Weld Testing

Ultrasonic testing involves emitting high pitched waves into the welded section of rail in order to detect internal flaws. This comprehensive test is carried out on the head, web and foot to provide a detailed analysis of the entire weld.

This allows the user to determine whether or not the weld has conformed to the specifications of the rail network.

**FEATURES**
- Multiple angles are used to inspect 100% of the weld
- Prevents breaking in the weld
- Detects a variety of defects including blowholes, insufficient fusion and shrinkage

**REPORT**
The report will highlight the exact location, characteristics and cause of the defect inside the weld.

VERSE (Rail Stress Management)

Vortek VERSE is a reliable and low-cost method of checking the rail is at the correct stress-free temperature (SFT). The internationally accredited VERSE monitoring system significantly reduces the risk of buckling and fracturing, achieving new track quality acceptance and allowing operators to plan cost-effective re-stressing programmes.

The SFT can be determined trackside immediately, allowing for on-the-spot maintenance and safety decisions to be made. No additional tools or historical rail samples are required to make the calculations. VERSE is the only widely used, proven and accepted method of non-destructive SFT testing, in over 25 countries worldwide.

**FEATURES**
- Suitable for all rail profiles
- Instant results can be picked up on the handheld computer
- Small and lightweight handheld device with 20-hour battery life
- Exportable readings into databases including Excel and Access for integration with other track data
- Eliminates the need to cut the rail to measure rail stress
- Quick and easy measurement taking 20 to 30 minutes per measurement (depending on rail fastening)

**ADVANTAGES**
- Cost-effective re-stressing programmes allows operators to predict where track is vulnerable to stress free temperature change and plan cost-effective programmes
- Eliminates the need to cut the rail to measure rail stress
- Calculates the Stress Free Temperature without requiring knowledge of any residual stress history of the rail
- Quick and easy measurement taking 20 to 30 minutes per measurement (depending on rail fastening)
Measure & Detect

Multi-parameter sensor for monitoring stress in railways.

Conventional track-based monitoring systems face many challenges. Physical bulk, unfriendly connection systems, poor mounting techniques and fragility are the main problem areas.

The Vortok Measure and Detect Sensors integrates three measuring technologies into a compact, rugged, general purpose device that can simultaneously sense a number of parameters. Each M&D Sensor becomes part of the rail it is inserted into and measures.

**Features**
- Installed around 1/5 the time taken to install bonded gauges
- Immune of rain and cold temperature
- Remote data and alarms accessed via SMS, Email and FTP
- A complete monitoring installation can be complete in less than half an hour
- The M&D interface provides in excess of 1,000 volts isolation and can be battery powered for low speed logging situations

**Measures**
- Either vertical or horizontal strain
- Rail core temperature
- Vertical acceleration
- Lateral acceleration

**Challenge**
The challenge is to allow management decisions to be made and maintenance plans to be investigated, providing quality data via a low cost and high reliability compact rugged device.

Pandrol has developed a range of sensing technology that enables quick and extremely cost effective remote condition and fault monitoring of key assets in the railway. Built around the innovative Multi-Sensor product, the Measure and Detect system can be used to monitor a range of rail infrastructure conditions including wheel flats, bogie hunting, stress free temperature, core rail temperature, rail and bridge strain, and ground disturbance.

For more information visit the website www.pandrol.com
REAL TIME REMOTE MONITORING OF SFT

Using multiple power and communication methods the monitor will continuously assess the strain in the rail and calculate the stress free temperature in both rails at each location.

Automatic alerts sent to multiple systems and devices
Each unit can send data, and alerts, to a rail operators back-office system, by email, to smart phones and via our bespoke cloud based portal

Low Power Consumption
The SFT Monitor can connect to a power source up to 5km away. In addition, if no power source is available the monitor can be connected via a solar panel and/or battery.

Proven Technology
The Pandrol MultiSensor is a proven method of measuring the rail strain and core temperature of the rail. It will continuously measure, calculate and report the current stress free temperature.

Can be installed in known trouble areas for rail buckling/breakages.
Live data transmitted over 3/4G connection
Easy Installation – no need to bond gauges to the rail with associated maintenance issues
No need to use personnel to patrol the track.
Ideal for areas where track access is difficult.

FEATURES

Internal sensors continuously measure vertical and lateral accelerations, roll, pitch and yaw
The trains location is constantly and accurately tracked using GPS
An internal ARM processor monitors the sensors and sends an alarm to the Indigo cloud server when configurable thresholds are exceeded, along with a snapshot of the raw data spanning the event.
Accurate GPS directs track maintenance staff to target problems quickly.

SPECIFICATIONS

Input voltage
40 – 160 VDC
Power
< 20 W
Linear Accelerometers
3-axis, ±2g full scale
Gyros
3-axis, ±500 dps
Sampling rate
160 samples per second
Mobile telecommunications
2G / 3G
GPS
Yes
Wi-Fi
Dual band (802.3)

For more information visit the website www.pandrol.com
On Sleeper Beam

Uses the rail fastening to secure the Balise above the sleeper.

The system removes the requirement for drilling into sleepers, by making use of the existing rail fastenings, ensuring the installation process is very fast and simple using standard rail tools.

Any rail fastening type
Any sleeper type
Any balise type
No drilling sleepers
Install in seconds
Proven

AWS Magnet

Designed to fit all common track construction, the AWS Magnets fit into the national signalling system. All magnets can be fitted onto the Rapid Fit Frames or retrofitted to existing BR Magnet frames through the use of adaptor plates.

FEATURES
- Can be installed in minutes when coupled with Vortok’s Rapid Fit Mounting System, reducing possession time significantly
- Modular “plug and play”, simplifying the installation process
- Flexible range: Suppressor, Electro and Permanent in either standard strength or extra strength
- Minimal maintenance required - fully sealed units

FEATURES
- Any rail fastening type
- Any sleeper type
- Any balise type
- No drilling sleepers
- Install in seconds
- Proven

CLAMP BEAM

The Clamp Beam is designed to be mounted between sleepers on ballasted or slabtrack tracks and is retained by clamping to the foot of the rail.

Single clamp
Double clamp

VARIATIONS

Signalling & Detection

By minimising installation time we reduce or even eliminate the need for track possession. We create products suitable for all environments regardless of sleeper type, rail fastening or whether they are being used on ballasted or slab track.

Operational efficiency, flexibility and reliability are critical factors in the design of every product.
Partners in excellence
Contact your local team to discuss your requirements
pandrol.com/contact