

# HIGH PRODUCTIVITY EQUIPMENT FOR RAILWAY CONSTRUCTION & MAINTENANCE



**ROSENQVIST**  
**PANDROL**

© DELACHAUX GROUP

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

#### CONTENTS

Global Partners	04	Sleeper Layer SL800	28
Handy Clipper	06	Sleeper Layer SL850	30
Clip Driver CD200	08	Rail Grip RG2500	32
Clip Driver CD400	10	Roller Grip RG4800	33
Clip Driver CD400SP	12	Rail Trailer RT3230	34
High Output Clipper CD500	14	Rail Trailer RT3235	35
Track Renewal Clipper TRC	16	Hy-Rail Mini <5 TONS	36
Sleeper Replacer SB60	18	Hy-Rail Midi 5-9 TONS	38
Sleeper Lifting Tool SLT400	20	Hy-Rail 9-14 Tons	40
Sleeper Layer SL400	22	Hy-Rail 10-20 Tons	42
Sleeper Layer SL450	24	Next Generation Axle EQ AXLE	44
Sleeper Layer SL600	26	Notes	46



---

# ROSENQVIST RAIL AB

---

We are a leading global player in the development and manufacture of equipment and working methods for professional use within the railway industry.

Rosenqvist Rail is committed to develop, manufacture and market pioneering equipment and working methods for efficient construction and maintenance of railways. The head office including R&D, Technical Support and Manufacturing is located in the city of Hudiksvall, Sweden.

Rosenqvist Rail AB was founded by Mr Anders Rosenqvist in 1994. Anders had an assignment from the Swedish State Railroads to upgrade part of the Swedish East coast line. While working on the project Anders realised the enormous potential for efficiency improvements in the

railway construction and maintenance. This led him to develop new methods and design innovative equipment to safely speed up and increase productivity on the railways.

Rosenqvist Rail AB joined the PANDROL Group of companies in 2008 enabling PANDROL to bring engineering capabilities for the installation of the FASTCLIP system in-house.

To this day and facilitated by hands-on track work experience, Rosenqvist Rail AB continue to develop and successfully launch new methods and equipment for the benefit of the railway industry around the world.



# The Rosenqvist Website

[www.rosenqvistrail.com](http://www.rosenqvistrail.com)

Our website is the company's dynamic portal and hub of information. It is updated regularly to deliver the latest news and insight into Rosenqvist's product developments in a crisp and clean format.

In 2013 we conducted a major revamp of the website mirroring PANDROL's website, our parent company. You will find our website informative and easy to navigate. Each product page provides concise information, technical specifications, imagery and video clips where available.

The website provides a map activated, live links to our distributors to assist our customers and those wanting to obtain information from a local representative.

Over the coming months we will include case studies from the vast range of applications from around the world.

## YouTube

Our YouTube channel features many of our products in action. New clips are periodically uploaded, some videos are professional produced by our team and others are contributed by end-users or our distributors.

The website in conjunction with our YouTube channel act to support our global network of end-users and distributors as a central resource pool. They are also designed to reinforce the Rosenqvist brand and provide customers with the knowledge that they are collaborating with a highly respected and recognised manufacturer of equipment specifically for the railway industry.

Check out our  
YouTube channel



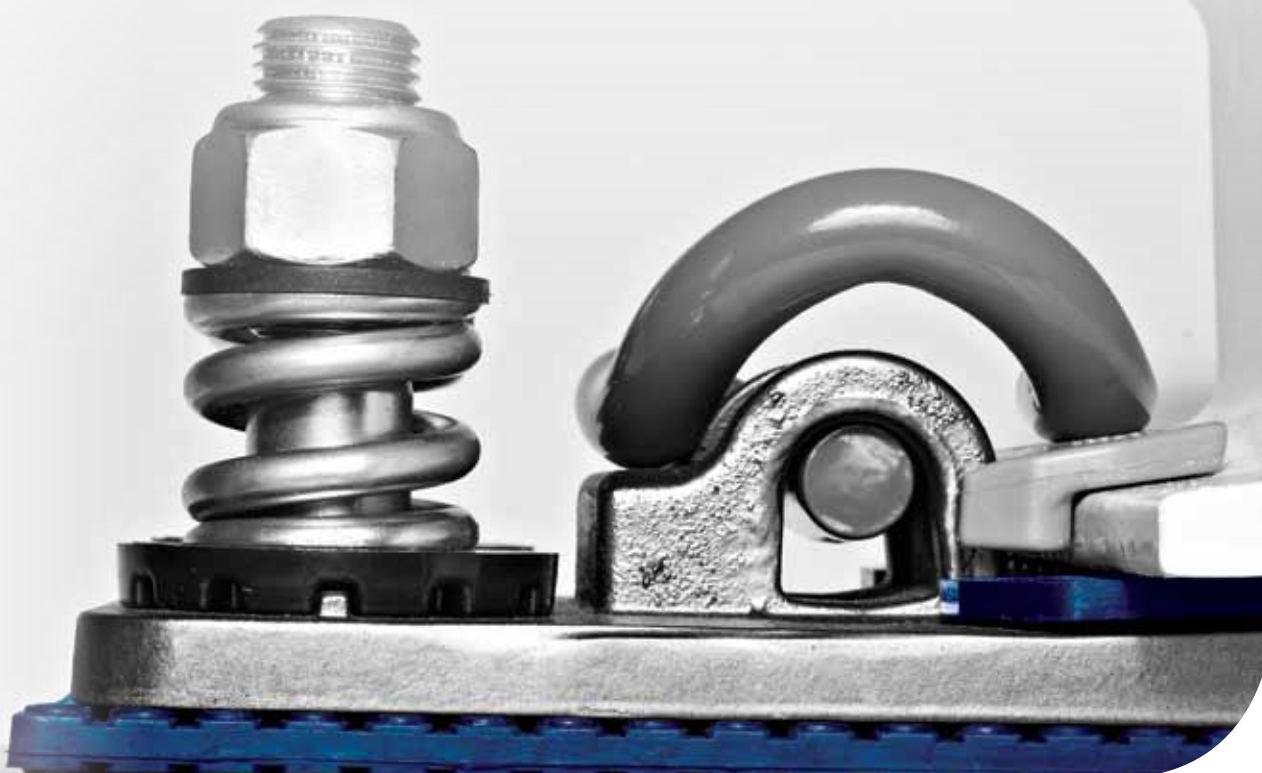
# GLOBAL PARTNERS



PANDROL has been producing rail fastenings since 1937 and is the global market leader.

By the end of 2009 PANDROL products had been installed on over 410 railway systems in more than 100 countries worldwide. Today there are some 1,420 million PANDROL rail fastenings in service.

This achievement owes much to designing products which meet customer needs, attention to detail, high quality standards and continued advancement in innovation to improve track standards through improved efficiency, greater durability and a confidence in the PANDROL Fastening System to perform far beyond industry norms.





# HANDY CLIPPER



The Handy Clipper is a versatile machine designed for smaller clipping and unclipping applications for the PANDROL FASTCLIP. It has its own power supply and its ergonomic design enhances operator comfort, together with efficient operation.

## PRODUCT FEATURES

Each modular unit less than 25kg.

Not suitable for 16mm clips.



Watch the  
HANDY CLIPPER  
in action



The unit(s) pictured may be equipped beyond the standard specification.

This brochure is subject to change without notice.

## PRODUCT OPTIONS

3 modular units consisting of:

- a/ Power Unit
- b/ Clipping Tool
- c/ Declipping Tool

## SPECIFICATION

### HANDY CLIPPER - Power Unit

**Weight** 18kg (33lb)

**Length** 450mm (17.7in)

**Width** 270mm (10.6in)

**Height** 350mm (13.8in)

**Maximum power** 1.0kW / 1.36Hp

**Engine** HONDA GX35

**Item number** 110-0150

### HANDY CLIPPER - Declipping Tool for PANDROL FASTCLIP

**Weight** 24 kg (50.7lb)

**Length** 560mm (22in)

**Width** 230mm (9.0in)

**Height** 380mm (14.9in)

**Maximum working force** 23kN

**Capacity** About 10 sleepers/min

**Item number** 110-0058

NETWORK RAIL PRODUCT ACCEPTANCE NO: PA05/03211  
SNCF PRODUCT ACCEPTANCE NO: 06044  
EPO patent no: 1 794 369  
Sweden patent no: 530 161  
Approved by NWR and SWCF

## INSTALLATIONS



Used globally. Locations include Norway, Sweden, Denmark, Australia, France, UK and Japan.

## SPECIFICATION

### HANDY CLIPPER - Clipping Tool for PANDROL FASTCLIP

<b>Weight</b>	24kg (50.7lb)
<b>Length</b>	560mm (22in)
<b>Width</b>	190mm (7.4in)
<b>Height</b>	370mm (14.5in)
<b>Max working force</b>	32.0kN
<b>Capacity</b>	About 10 sleepers/min
<b>Item number</b>	110-0201

## OPTIONAL ACCESSORIES

- 5000299 Bolt-on clip catcher. It can also remove the clip from parking position to insulator change position. 2pcs. required.

For further information on accessories, please visit our website.

# CLIP DRIVER CD200



The CD200 is for use by a single operator. It is a high-performance robust walk-behind clipping machine.

## PRODUCT FEATURES

Sleeper lifting capability of up to 50mm independent of the rail height.

Easy to operate and operator friendly.

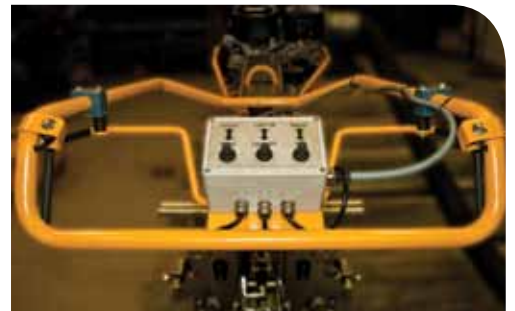
Easy to switch side and working direction.

Good lighting for night work.

Electric starter.

Easy to carry on and off track.

Suitable for all PANDROL FASTCLIP and FASTCLIP FE.



The unit(s) pictured may be equipped beyond the standard specification.

This brochure is subject to change without notice.



## PRODUCT OPTIONS

Interchangeable work head - able to carry other work tools.

Easily adjustable between different track gauges.

## SPECIFICATION

**Length** 2100mm (83in)

**Width** 1980mm (78in)

**Height** 1050mm (41in)

**Capacity (FASTCLIPS)**

Up to 30 sleepers/min

Watch the  
CLIP DRIVER CD200  
in action



SWEDEN PATENT NO: 535 945  
EPO, PCT PATENT PENDING  
SWEDEN PATENT NO: 535 365  
EPO, PCT PATENT PENDING

## INSTALLATIONS



Used globally. Locations include Norway, Sweden, USA, Malaysia, Russia, USA, Brazil, Denmark, Australia, Lithuania and Czech Republic.

## OPTIONAL ACCESSORIES

### Tropical Pack

Recommended at operating temperatures above 30°C/86°F

- 840202 for machines -2011
- 840203 for machines 2012+

- 595166 Toolbox
- 5007519 Additional work light
- 5007032 Heavy duty datum arms
- 5005888 Mechanical stop for FASTCLIP FC, FE

For further information on accessories, please visit our website.

# CLIP DRIVER CD400



The CD400 Clip Driver is an attachment designed and manufactured for use on a road rail vehicle (RRV) using the host machine's hydraulic power for operation.

There is a sleeper lifting unit included, but not with the e-CLIP option.

## PRODUCT FEATURES

Robust design including tools with tapered roller bearings for extra long life.

Intuitive control panel for use in cabin, handles all functions including automatics.

High productivity up to 40 sleepers/min.

Unique Pad design.



The unit(s) pictured may be equipped beyond the standard specification.

This brochure is subject to change without notice.



## PRODUCT OPTIONS

Tools for PANDROL e-CLIP, FASTCLIP, FASTCLIP FE and Deenik.

The CD400 can be fitted with proximity sensors for automatic fastening which increases the productivity potential of the machine.

Adjustable for most common track gauges.

Sleeper Lift.

## SPECIFICATION

**Weight** 1400kg (3087lb)

With tools for clipping and declipping of PANDROL FASTCLIP and sleeper lift.

**Length** 2500mm (98.3in)

**Width** 2100mm (82.7in)

**Wheels** Ø 250mm (9.8in)

**Height** 1030mm (40.6in)

**Capacity (FASTCLIPS)**

Up to 40 sleepers/min

**Item number** 2198-0401

Watch the  
CLIP DRIVER CD400  
in action



NETWORK RAIL PRODUCT ACCEPTANCE NO: PA05/1477  
Sweden patent no: 509316  
Approved by NWR and SWCF

## INSTALLATIONS



Used globally. Locations include Norway, Sweden, Estonia, Russia, USA, UK, France, Hungary, Australia, Mozambique, Malawi, Brazil, Czech Republic, Japan, Denmark and New Zealand.

## OPTIONAL ACCESSORIES

- |                                                  |                                                              |
|--------------------------------------------------|--------------------------------------------------------------|
| ■ 5001073 Declipping head Safelok I-III          | ■ 5006717 Spacer 56 mm e-CLIP offset/standard                |
| ■ 5001021S Clipping tools e-CLIPs standard       | ■ 5003090 PR 400 Series                                      |
| ■ 5002484S Safety cage                           | <b>Machine Brackets</b>                                      |
| ■ 5006362S Safety cage for offset tool           | ■ 5003248 S45                                                |
| ■ 5002775S Declipping tool e-CLIPs               | ■ 5003463 S60                                                |
| ■ 5004661S Clipping/declipping tool offset clips | ■ Universal bracket                                          |
| ■ 5007295 e-CLIP shoe offset                     | ■ 5006510 For fitting of the machine in a boom or equivalent |
| ■ 5003290 e-CLIP shoe standard                   | ■ Other brackets available on separate request               |
| ■ 5003280 e-CLIP shoe                            |                                                              |

For further information on accessories, please visit our website.

# CLIP DRIVER CD400SP



The Clip Driver CD400SP is a walk-behind machine when clipping and declipping clips of the following types: PANDROL FASTCLIP, PANDROL e-CLIPs, PANDROL PR-clips (PR400 series) and Heyback (clipping), depending on the choice of tool. The power pack can be removed when the CD400 is to be used as a conventional machine with a carrier.

CD400SP is self-propelled with a high-performance Diesel engine, and easy for a single operator to operate via a control panel. From the handheld control panel the operator controls the functions of the Clip Driver CD400 Power Pack e.g. speed, clipping and declipping. The clipping capacity is approximately 25 sleepers per minute.

The machine is CE marked on delivery. From here on the Clip Driver CD400 Power Pack is named only CD400PP.

## PRODUCT FEATURES

Guiding rollers to centre the machine in work mode for optimum precision.

Hatz diesel engine with outstanding reliability.

30 sleepers/min.\*

## PRODUCT OPTIONS

Can be equipped with a sleeper lift.

Proximity sensors for automatic clipping of PANDROL FASTCLIP - controlled via the control panel.



\*Based on fully trained and skilled operator working under certain conditions.

The unit(s) pictured may be equipped beyond the standard specification.

This brochure is subject to change without notice.



## SPECIFICATION

**Weight** Approx. 2890kg (6371lb)

Total weight with tools for clipping and declipping PANDROL FASTCLIP, sleeper lift and guiding rollers.

Power Pack: Approx. 830kg (1830lb)

**Length** 3150mm

**Width** 2100mm

**Track gauge** 1600mm / 1435mm / 1000mm

**Rail wheels** std UIC-profile Ø 250mm

**Clipping** 4 clips per cycle

**Declipping** 4 clips per cycle

**Sleeper lift** Lifting height 350mm

Grip force, sleeper 1,200 - 12,000K

Lifting force 350 - 3,500Kp

**Electrical system** 24V

**Hydraulic system**

Power Pack oil pressure: 200 bar

Clip Driver: See CD400 manual

**Engine** Hatz Diesel Type 3L41C

**Diesel tank** 70 liters

**Hydraulic tank** 70 liters

**Braking distance**

Mode normal - stop 300mm

Mode high speed - stop 1900mm

**Noise at 2 meter**

Full throttle on drive side 83dB (A)

Full throttle on brake side 80dB (A)

Idling on drive side 75dB (A)

Idling on brake side 73dB (A)

**Item number** 5003500

## INSTALLATIONS



Used globally. Locations include Brazil, USA and France.

## OPTIONAL ACCESSORIES

■ 5006900 Safety gates

■ 5006980 Foldable ladder

For further information on accessories, please visit our website.

Watch the CLIP  
DRIVER CD400SP  
in action



# HIGH OUTPUT CLIPPER CD500



The High Output Fast Clipping machine is a self-propelled rail-fastening machine for the PANDROL FASTCLIP. It has a computer-controlled system (PLC) and an off 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 centring position on rail.

## PRODUCT FEATURES

Will clip and de-clip (also de-clips SHC clips).

On/off tracking system – the CD500 is fitted with hydraulically maneuvered legs that enables fast and easy on and off tracking.

Rail lift.

50 - 60 sleepers/min FASTCLIP.\*



\*Based on fully trained and skilled operator working under certain conditions.

The unit(s) pictured may be equipped beyond the standard specification.

This brochure is subject to change without notice.



## PRODUCT OPTIONS

Tools for PANDROL e-CLIP, FASTCLIP FE and Deenik.

Sleeper lifting unit – to raise low lying sleepers and also has a sideways adjustment of + or – 35 mm.

Hammer for striking the rail during de-stressing.

Safety Guards – to protect track workers from the adjacent track when installing stressing rollers.

## SPECIFICATION

**Weight** 4500kg (excluding options)

**Length** min 3870mm max 4930mm

**Width** min 1810mm max 2380mm

**Max speed** 20km/h

**Rail type** UIC 60 and U 50

### Rail wheels

std UIC-profile Ø 350mm

### Brakes:

#### Transport

Hydraulic brakes / 4 wheels

#### Parking

Mechanically activated / 2 wheels

#### Emergency

Mechanically activated / 2 wheels

**Item number** 3199-0010

Watch the HIGH  
OUTPUT CLIPPER  
CD500 in action



## INSTALLATIONS



Used globally. Locations include France, UK, Australia and USA.

## OPTIONAL ACCESSORIES

- 31990750S Rail lift
- 31991906 Safety system for tilt limitation
- 31991602S Levelling system
- Safelok head
- 31992769S Support pads + storage. To stabilise machine on soft ground
- 31992680S Bridging unit + storage, to protect sleepers

For further information on accessories, please visit our website.

NETWORK RAIL PRODUCT ACCEPTANCE NO: PA05/03156  
Sweden patent no: 509316  
Sweden patent no: 512830  
Approved by NWR and SWCF

# TRACK RENEWAL CLIPPER TRC



The TRC is an automatic clipping unit for track renewal trains or equivalent. The TRC has an automated PLC-system for fully automated fastening. Built in sensors intends the clips and the clipping tools are fitted to a rigid frame structure and have a hydraulic controlled slide that enables clipping in motion.

## PRODUCT FEATURES

Manual operation is possible through the control panel.

The TRC is easy to fit to your track renewal train.



The unit(s) pictured may be equipped beyond the standard specification.

This brochure is subject to change without notice.

## SPECIFICATION

**Weight** 950kg (2094lb)

**Wheels** Ø 125mm (4.92in)

**Height** 1030mm (40.6in)

**Capacity (FASTCLIPS)**

Up to 25 sleepers/min

**Item number** 5001624

**Electrical system** 24VDC

Watch the TRACK  
RENEWAL CLIPPER  
TRC in action



## INSTALLATIONS



Used globally. Locations include Sweden and Holland.



# SLEEPER REPLACER SB60



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

It is designed for effective movement and recessing of the track ballast.

## PRODUCT FEATURES

The high performance SB60 Sleeper Replacer holds a key function in a versatile, high output, cost effective and safe working method.

Fits most types of sleepers.

Available for all different track gauges.



The unit(s) pictured may be equipped beyond the standard specification.

This brochure is subject to change without notice.

## PRODUCT OPTIONS

Clip Master - for fast and safe clipping of FASTCLIPS.

Buckets - for removing ballast on wet locations.

Auto Master for auto clipping of FASTCLIP.

## SPECIFICATION

**Weight** 1050kg (2315lb)

**Weight** (including Auto Master)  
1470kg (3241lb)

**Clamp force** 6000kg

**Torque** 295dNm (180bar)

**Blade width** 2700mm (106in)

**Height** 1000mm (39.4in)

**Depth** 1300mm (51.2in)

**Item number** 5001 0000

Watch the  
SLEEPER REPLACER  
SB60 in action



NETWORK RAIL PRODUCT ACCEPTANCE NO: PA05/04237  
Approved by NWR

## INSTALLATIONS



Used globally. Locations include Norway, Sweden, Australia, New Zealand, USA, Brazil, Russia, UK, Lithuania, Denmark, Italy, Japan, Turkey, Saudi Arabia and Poland.

## OPTIONAL ACCESSORIES

- 5006447 Slew-Drive Rotor
- 5006455 Worm-Screw Rotor

### Intermediate Section (Between grapple and blade)

- 5006441 S45 Bracket
- 5006456S Ridged post bracket
- 5006448S RRAB-Tilt bracket
- 5005617S SB-60 Grapple

### Grapple Claws

- 5003851 Adjustable claw
- 5001890 Ridged claw
- 5005671 Sleeper stand-off

### Machine Brackets

- 5001-0039 S45 machine bracket
- 5001-0040 S60 machine bracket
- 5001516 Geismar machine bracket
- 5003720 Liebherr 900 machine bracket
- 5006690 Vaiacar machine bracket
- 5003849 Plain top plate

### For Custom Fabrication

- 89003 S45 plain, without top plate
- 89011 S60 plain, without top plate

### Wet Spot Buckets

- 5006663 1000mm gauge
- 5007248 1067mm gauge
- 5007220 1435mm gauge
- 5007249 1520mm gauge
- 5005167 1600mm gauge

### Auto Master

For automatic fastening of FASTCLIP and FASTCLIP FE

- 5004540S 1435mm gauge
- 5007250S 1520mm gauge
- 5007251S 1600mm gauge

### Clip Master

For fastening of FASTCLIP and FASTCLIP FE

- 31960001S Factory fitting Clip Master

For further information on accessories, please visit our website.

# SLEEPER LIFTING TOOL **SLT400**



The Sleeper Lifting Tool - SLT 400 is designed to load and unload sleepers from railcars safely and efficiently.

The Sleeper Lifting Tool SLT 400 handles the sleepers by moving the telescopic frame in and out while the gripping claws are static.

## PRODUCT FEATURES

It is easy to adjust the SLT400 for different sleeper types including both timber and concrete.

The SLT 400 requires only 60 mm of space outside the sleepers for grabbing.

Foldable side supports enable the operator to swiftly position the SLT 400 for proper lifting.\*



\*Based on fully trained and skilled operator working under certain conditions.

Suggested tonnage of carrying machine, 12 ton plus.

The unit(s) pictured may be equipped beyond the standard specification.

This brochure is subject to change without notice.



## PRODUCT OPTIONS

As an option the unit can be equipped with a safety lifting device to prevent the operator from dropping sleepers.

It can easily be fitted to a crane, a railroad excavator or other suitable machine.

## SPECIFICATION

**Weight** 400kg (881.8lb)

**Width** 1340mm (52.8in)

**Length min** 2126mm (83.7in)

**Length max** 2846mm (112in)

**Height** 540mm (21.3in)

**Item number** 5000-540

Watch the SLEEPER  
LIFTING TOOL  
SLT400 in action



## INSTALLATIONS



Used globally. Locations include France and New Zealand.

## OPTIONAL ACCESSORIES

- 5000505 Safety lifting device
- 595526 Rotator Indexator GV6

For further information on accessories, please visit our website.

# SLEEPER LAYER SL400



Designed for high output sleeper laying.

Correct placement of sleepers is ensured by a precision gauging hydraulic system that spreads the sleepers to the desired distance.

Due to an unique linkage system the centre of gravity will not change when spreading the sleepers.

## PRODUCT FEATURES

Telescopic frame structure makes it compact and easy to manoeuvre safely.

Eliminates the risk of the unit hanging over adjacent track when grabbing sleepers from a rail cart.

Prepared for both rotator and rototilt.

Easy adjusted to fit most type of sleepers.

Quick change gripping claws.

60 to 80 metres per hour.\*



\*Based on fully trained and skilled operator working under certain conditions.

Suggested tonnage of carrying machine, 15 ton plus.

The unit(s) pictured may be equipped beyond the standard specification.

This brochure is subject to change without notice.

## PRODUCT OPTIONS

Safety device, eliminates risk of dropping sleepers.

## SPECIFICATION

**Weight** 814kg (179 lb)

**Width** 2578mm (101.5in)

**Length min** 1000mm (39.7in)

**Length max** 2500mm (98.5in)

**Height** 655mm (25.8in)

**Max distance between sleepers**  
750mm (29.5in)

**Item number** 1430-0001

Watch the  
SLEEPER LAYER  
SL400 in action



NETWORK RAIL PRODUCT ACCEPTANCE NO: PA05/03134  
USA PATENT NO: 7,380,506  
EPO PATENT NO: 1 627 109

## INSTALLATIONS



Used globally. Locations include Norway, Sweden, Denmark, UK, France, Mozambique, Malawi, Portugal, Turkey, Australia, New Zealand, USA, Brazil, Russia, Germany and Poland.

## OPTIONAL ACCESSORIES

- 5000505 Safety lifting device
- 595526 Rotator Indexator GV6

For further information on accessories, please visit our website.



# SLEEPER LAYER SL450



Designed for high output sleeper laying.

Correct placement of sleepers is ensured by a precision gauging hydraulic system that spreads the sleepers to the desired distance.

Due to an unique linkage system the centre of gravity will not change when spreading the sleepers.

## PRODUCT FEATURES

Telescopic frame structure makes it compact and easy to manoeuvre safely.

Eliminates the risk of the unit hanging over adjacent track when grabbing sleepers from a rail cart.

Prepared for both rotator and rototilt.

Easy adjusted to fit most type of sleepers.

Quick change gripping claws.

Easy to set for different sleeper lengths.

Gripping claws do not interfere with the ballast by effectively gripping the sleeper ends.

Suggested carrying machine tonnage 15 ton +.

60 to 80 metres per hour.\*



\*Based on fully trained and skilled operator working under certain conditions.

The unit(s) pictured may be equipped beyond the standard specification.

This brochure is subject to change without notice.

## PRODUCT OPTIONS

Safety device, eliminates risk of dropping sleepers.

Can be fitted with a sleeper gathering device to facilitate sleeper grab.

## SPECIFICATION

**Weight** 1050kg (2315lb)

**Width** 2905mm (114.1in)

**Length min** 1120mm (44.1in)

**Length max** 2500mm (98.5in)

**Height** 762 (30in)

**Max distance between sleepers**  
750mm (29.5in)

**Item number** 5007750

Check out our  
YouTube channel



USA PATENT NO: 7,380,506  
EPO PATENT NO: 1 627 109

## INSTALLATIONS



Used extensively in the USA.

## OPTIONAL ACCESSORIES

- 5000505 Safety lifting device
- 595526 Rotator Indexator GV6

For further information on accessories, please visit our website.

# 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.

## PRODUCT FEATURES

Telescopic frame structure makes it compact and easy to manoeuvre safely.

Eliminates the risk of the unit hanging over adjacent track when grabbing sleepers from a rail cart.

Prepared for both rotator and rototilt

Easy adjusted to fit most type of sleepers.

Quick change gripping claws.

Safety lifting device is built into the control system.

80 to 120 metres per hour.\*



\*Based on fully trained and skilled operator working under certain conditions.

Suggested tonnage of carrying machine, 23 ton plus.

The unit(s) pictured may be equipped beyond the standard specification.

This brochure is subject to change without notice.



## PRODUCT OPTIONS

Can be delivered with or without tilt rotating function.

## SPECIFICATION

**Weight** 1309kg (2885lb)

**Length min** 2000mm (78.7in)

**Length max** 4475mm (176.2in)

**Height** 1333mm (52.5in)

**Max distance between sleepers**  
762mm (30in)

**Item number** 5000-641

Watch the  
SLEEPER LAYER  
SL600 in action



NETWORK RAIL PRODUCT ACCEPTANCE NO: PA05/03134  
SWEDEN PATENT NO: 513910

## INSTALLATIONS



Used globally. Locations include Norway, Sweden, Australia, USA, New Zealand, Brazil and France.

## OPTIONAL ACCESSORIES

### ■ 20350095S Tiltrotator Machine Bracket

\*All types of machine brackets available on separate request

For further information on accessories, please visit our website.

# SLEEPER LAYER SL800



Designed for high output sleeper laying.

Up to eight 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.

## PRODUCT FEATURES

Telescopic frame structure makes it compact and easy to manoeuvre safely.

Eliminates the risk of the unit hanging over adjacent track when grabbing sleepers from a rail cart.

Prepared for both rotator and rototilt

Easy adjusted to fit most type of sleepers.

Quick change gripping claws.

Safety lifting device is built into the control system.

120 to 150 metres per hour.\*



\*Based on fully trained and skilled operator working under certain conditions.

Suggested tonnage of carrying machine, 25 ton plus.

The unit(s) pictured may be equipped beyond the standard specification.

This brochure is subject to change without notice.

## PRODUCT OPTIONS

Can be delivered with or without tilt rotating function.

## SPECIFICATION

**Weight** (including bracket)  
2410kg (5313lb)  
(excluding bracket) 2060kg (4541.5lb)

**Width** 2578mm (101.5in)

**Length min** 3005mm (118.3in)

**Length max** 5985mm (235.6in)

**Height** 1660mm (65.4in)

**Item number** 1035-0001

Watch the  
SLEEPER LAYER  
SL800 in action



NETWORK RAIL PRODUCT ACCEPTANCE NO: PA05/03134  
SWEDEN PATENT NO: 513910

## INSTALLATIONS



Used globally. Locations include Norway, Sweden, France, UK, Australia, USA, Sudan, New Zealand, Brazil and Poland.

## OPTIONAL ACCESSORIES

■ 20350095S Tiltrotator Machine Bracket

\*All types of machine brackets available on separate request

For further information on accessories, please visit our website.



# SLEEPER LAYER SL850



The Sleeper Layer SL850 is designed and manufactured for efficient positioning of concrete sleepers. It utilise standard couplings on heavy excavators 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 762mm (30in). (With fewer sleepers the distance can be extended further).

The Sleeper Layer SL850 can also be used to gather sleepers for storage in case they do not lie close to each other. Meticulously developed, extensively tested and utilised with high productivity and excellent results in alignment, spacing, and positioning. The Sleeper Layer SL850 is CE-certified.

## PRODUCT FEATURES

Telescopic frame structure makes it compact and easy to manoeuvre safely.

Eliminates the risk of the unit hanging over adjacent track when grabbing sleepers from a rail cart.

Prepared for both rotator and rototilt

Easy adjusted to fit most type of sleepers.

Quick change gripping claws.

Easy to set for different sleeper lengths.

Gripping claws do not interfere with the ballast by effectively gripping the sleeper ends.

120 to 150 metres per hour.\*



\*Based on fully trained and skilled operator working under certain conditions.

Suggested tonnage of carrying machine, 27 ton plus.

SWEDEN PATENT NO: 513910

The unit(s) pictured may be equipped beyond the standard specification.

This brochure is subject to change without notice.

## PRODUCT OPTIONS

Can be delivered with or without tilt rotating function.

Can be fitted with a sleeper gathering device to facilitate sleeper grab.

## SPECIFICATION

**Weight** Approx. 2800kg  
(6173lb) including tilt rotator

**Width** 2750mm

**Length** 3005-5985mm  
(118.3-235.6in)

**Height** Standard with tilt rotator  
825mm, 1375mm, 1525mm  
with tilt rotator & bracket (150mm)

**Lifting capacity**  
Max 3600kg (7937lb)

**Number of sleepers** Max 8pcs

**Sleeper distances** 765mm with 8  
sleepers. With fewer sleepers the  
distance can be extended further  
(customer adjustment)

**Performance** Any suitably  
excavator up to 150m/h (410ft/h)  
Any suitably front end loader up to  
100m/h (328ft/h)

**Electrics** Negative ground 24 volt DC

**Hydraulic** The hydraulic service shall  
be connected to the carrier  
Two-way hydraulic function, 2 hoses  
Drain line - 1 hose

**Recommended oil flow:**  
100 L/min (26.4 gal/min) min 50 L/  
min (13.2 gal/min) max 150L/min  
(39.6gal/min)

**Recommended oil pressure:**  
180 bar (2611psi) min 150 bar (2175  
psi) max 250 bar (3625 psi)

**Default set pressure:**  
Swing motor 120 bar (1740 psi)  
Main pressure 190 bar (2756 psi)  
Spreading pressure 20 bar (290 psi)

**Item number** 5003460

## INSTALLATIONS



Used extensively in the USA.

## OPTIONAL ACCESSORIES

■ 20350095S Tiltrotator Machine Bracket

\*All types of machine brackets available on separate request

For further information on accessories, please visit our website.

Check out our  
YouTube channel



# RAIL GRIP RG2500



The Rail Grip is a tool for lifting rails. The construction also allows towing of rails due to the towing support welded onto the side of it. When towing rails turn the support in the towing direction.

The Rail Grip is made of high-tensile steel, designed to be light weight and have a minimal number of moving parts.

## PRODUCT FEATURES

RG2500 is a tool for lifting rails.

The design allows limited towing of rails due to the towing support welded onto the side.

The Rail Grip is made of high-tensile Swedish steel.

## SPECIFICATION

**Weight** 5kg (11lb)

**Maximum load** 2500kg (5510lb)

**Height** 270mm (10.6in)

**Width** 160mm (6.3in)

## INSTALLATIONS

Used globally. Locations include Norway, Sweden, USA, Australia and Denmark.

SWEDEN PATENT NO: 504988, 504807

The unit(s) pictured may be equipped beyond the standard specification.

This brochure is subject to change without notice.



# ROLLER GRIP RG4800



The Roller Grip is a tool designed for efficient handling of rails. Due to its design it is easy to apply and minimises the risk of damaging the rail.

No hydraulics is required.

## PRODUCT FEATURES

The Roller Grip is a tool designed for efficient threading of CWR rails.

Its unique design make is easy to apply and remove. It minimises the risk of damaging the rail.

No Hydraulics required.

## SPECIFICATION

**Weight** 28kg (62lb)

**Maximum load** 4800kg (10580lb)

**Height** 335mm (13.2in)

**Width** 310mm (12.2in)

## INSTALLATIONS

Used globally. Locations include Norway, Sweden, USA, Brazil, Australia, India, New Zealand, Denmark, Estonia, Latvia, Lithuania, Russia, Finland, Turkey, Thailand, Poland and UK.

The unit(s) pictured may be equipped beyond the standard specification.

This brochure is subject to change without notice.

# 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.

The Rail Trailer RT3230 is delivered with an accompanying tow bar.

## PRODUCT FEATURES

The Rail Trailer RT3230 is designed for transport of material and equipment on railway.

It is designed to be towed by a railroad vehicle and it's equipped with lights, parking and emergency brake. The Rail Trailer is delivered with an accompanying tow bar.

## SPECIFICATION

**Weight** 3000kg

**Length** 5500mm

**Width** 2560mm

**Gauge, standard** 1435mm

**Loading capacity** 17000kg

## INSTALLATIONS

Used globally. Locations include Norway, Sweden and Denmark.

## OPTIONAL ACCESSORIES

- 5004221 Load bunk
- 5004222 Ballast box / dumper bucket

For further information on accessories, please visit our website.

The unit(s) pictured may be equipped beyond the standard specification.  
This brochure is subject to change without notice.

# 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 accompanying tow bar.

## PRODUCT FEATURES

The RT3235 is designed for transport of material and equipment on railway.

It is designed to be towed by a railroad vehicle and is equipped with lights and parking and emergency brake. The Rail Trailer RT3235 is delivered with a tow bar.

## SPECIFICATION

**Weight** 700kg

**Length** 2500mm

**Width** 1800mm

**Height (loading deck)** 550mm

**Gauge, standard** 1435mm

**Loading capacity** 3500kg

## INSTALLATIONS

Used globally. Locations include Norway, Sweden and Denmark.

## OPTIONAL ACCESSORIES

■ 5002931S Load dropsides

Gauges on request

Type of axle to be decided at the time of order of the trailer as this is not a bolt-on fitting

For further information on accessories, please visit our website.

The unit(s) pictured may be equipped beyond the standard specification.

This brochure is subject to change without notice.



# HY-RAIL MINI <5 TONS



For the most common types of mini excavators. Designed for stability and flexibility. All maneuvering from the driver's cabin. The hydraulics doesn't need extra swivel implements.

The rail wheels are designed according to UIC. Speed on track 20km/hour (12.4 mph).

## PRODUCT FEATURES

The front and rear Hy-rail adapters are devices intended for mounting on crawler-drive excavators.

The equipment facilitates safe and effective work on the railway.

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 rubber crawler belt in contact with the ground.

The adapter is operated up and down with the machine hydraulics.

The equipment is a bolt-on model.



The unit(s) pictured may be equipped beyond the standard specification.

This brochure is subject to change without notice.

## PRODUCT OPTIONS

Height and Swing limitation Safety Kit.

Various Country and Regional specific Safety Kit such as DB.

RCI (Rates Capacity Indicator) Kit.

Twist Axle.

Second brake axle.

350mm wheel, compliance to European standards.

## SPECIFICATION

**Weight** 500kg (1102lb)

**Gauge, standard** 1435mm (56.5in)

### Rail wheels

Run wheel 250mm (9.8in)

Traction wheel 350mm (13.8in)

Different gauge on request

Check out our  
YouTube channel



PATENT NO: 321673, HY-RAIL EXCAVATOR

## INSTALLATIONS



Used globally. Locations include Norway, Sweden, UK, Australia, Germany, Denmark and USA.

## OPTIONAL ACCESSORIES

**840120 Towing kit**  
consists of;

- 595012 Coupler
- 5000331 Towing bar 1.4m
- 5004812 Brackets towing bar (2 pcs) straps included (800019)
- 595174S Emergency towing wire 1.6 m

**840097 Towing Kit**  
consists of;

- 595012 Coupler
- 5000331 Towing bar 1.4m
- 5004812 Brackets towing bar (2 pcs)
- 595174S Emergency towing wire 1.6m
- 595575 Portopower (brake release)

### Other Optional Accessories

- 5004889 Weld on bracket
- 5003754 Towing bar 2m
- 595575 Portopower (brake release)
- 595177S Emergency towing wire 1.35m

- 595178S Emergency towing wire 1.85m
- 595179S Emergency towing wire 2.2m

### Safety Kit

- 840005 Safety kit  
Warning signs, signalling lamp, battery, connector clamp. This kit may not be complete for all markets  
Height and swing limitation system  
Key locked sector limitation  
Proximity switches

- 595584 Earth bonding cable 50mm<sup>2</sup> x 10m

We have a number of solutions, please contact us for further information

For further information on accessories, please visit our website.



# HY-RAIL MIDI 5-9 TONS



For the most common types of midi excavators. Designed for stability and flexibility. All manoeuvring from the driver's cabin. The hydraulics do not need extra swivel implements. The rail wheels are designed according to UIC. Speed on track 20km/hour (12.4 mph)

## PRODUCT FEATURES

The front and rear Hy-rail adapters are devices intended for mounting on crawler-drive excavators.

The equipment facilitates safe and effective work on the railway.

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 rubber crawler belt in contact with the railhead.

The adapter is operated up and down with the machine hydraulics.



The unit(s) pictured may be equipped beyond the standard specification.

This brochure is subject to change without notice.





## PRODUCT OPTIONS

Height and Swing limitation Safety Kit.

Various Country and Regional specific Safety Kit such as DB.

RCI (Rates Capacity Indicator) Kit.

Twist Axle.

AWD (All Wheel Drive).

## SPECIFICATION

**Weight** 400kg

**Gauge, standard** 1435mm

**Different gauges on request**

**Rail wheels** Run wheel 250mm

Traction wheel 350mm

Watch the  
HY-RAIL MIDI 5-9  
TONS in action



PATENT NO: 321673, HY-RAIL EXCAVATOR

## INSTALLATIONS



Used globally. Locations include Norway, Sweden, Denmark, UK and Finland.

## OPTIONAL ACCESSORIES

**840120 Towing kit**  
consists of;

- 595012 Coupler
- 5000331 Towing bar 1.4m
- 5004812 Brackets towing bar (2 pcs) straps included (800019)
- 595174S Emergency towing wire 1.6m

**840097 Towing Kit**  
consists of;

- 595012 Coupler
- 5000331 Towing bar 1.4m
- 5004812 Brackets towing bar (2 pcs)
- 595174S Emergency towing wire 1.6m
- 595575 Portopower (brake release)

### Other Optional Accessories

- 5004889 Weld on bracket
- 5003754 Towing bar 2m
- 595575 Portopower (brake release)
- 595177S Emergency towing wire 1.35m

- 595178S Emergency towing wire 1.85m
- 595179S Emergency towing wire 2.2m

### Safety Kit

- 840005 Safety kit  
Warning signs, signalling lamp, battery, connector clamp. This kit may not be complete for all markets  
Height and swing limitation system  
Key locked sector limitation  
Proximity switches

- 595584 Earth bonding cable 50mm<sup>2</sup> x 10m

We have a number of solutions, please contact us for further information

For further information on accessories, please visit our website.

# HY-RAIL 9-14 TONS



This Hy-Rail attachment is manufactured for excavators 9-14 tons.

Designed for stability and flexibility work on rail. All manoeuvring is done from the driver's cabin. The hydraulics does not need extra swivel implements.

The rail wheels are designed according to UIC.

## PRODUCT FEATURES

The front and rear Hy-rail adapters are devices intended for mounting on crawler-drive excavators.

The equipment facilitates safe and effective work on the railway.

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 rubber crawler belt in contact with the railhead.

The adapter is operated up and down with the machine hydraulics.



The unit(s) pictured may be equipped beyond the standard specification.

This brochure is subject to change without notice.



## PRODUCT OPTIONS

Height and Swing limitation Safety Kit.

Various Country and Regional specific Safety Kit such as DB.

RCI (Rates Capacity Indicator) Kit.

Twist Axle.

AWD (All Wheel Drive).

## SPECIFICATION

**Weight** 1800kg

**Gauge, standard** 1435mm

**Run wheel** 350mm

**Traction wheel** 450mm

Check out our  
YouTube channel



PATENT NO: 321673, HY-RAIL EXCAVATOR

## INSTALLATIONS



Used globally. Locations include Norway, Sweden and Denmark.

## OPTIONAL ACCESSORIES

**840120 Towing kit**  
consists of;

- 595012 Coupler
- 5000331 Towing bar 1.4m
- 5004812 Brackets towing bar (2 pcs) straps included (800019)
- 595174S Emergency towing wire 1.6m

**840097 Towing Kit**  
consists of;

- 595012 Coupler
- 5000331 Towing bar 1.4m
- 5004812 Brackets towing bar (2 pcs)
- 595174S Emergency towing wire 1.6m
- 595575 Portopower (brake release)

### Other Optional Accessories

- 5004889 Weld on bracket
- 5003754 Towing bar 2m
- 595575 Portopower (brake release)
- 595177S Emergency towing wire 1.35m

- 595178S Emergency towing wire 1.85m

- 595179S Emergency towing wire 2.2m

### Safety Kit

- 840005 Safety kit  
Warning signs, signalling lamp, battery, connector clamp. This kit may not be complete for all markets  
Height and swing limitation system  
Key locked sector limitation  
Proximity switches

- 595584 Earth bonding cable 50mm<sup>2</sup> x 10m

We have a number of solutions, please contact us for further information

For further information on accessories, please visit our website.



# HY-RAIL 10-20 TONS



This Hy-Rail attachment is manufactured for excavators 10-20 tons.

Designed for stability and flexibility work on rail. All manoeuvring is done from the driver's cabin. The hydraulics does not need extra swivel implements.

The rail wheels are designed according to UIC.

## PRODUCT FEATURES

The front and rear Hy-rail adapters are devices intended for mounting on wheeled excavators.

The equipment facilitates safe and effective work on the railway.

Propulsion and braking is done with the mounted Hy-rail adapter in transport mode.

Propulsion and braking in work mode is achieved with the machines wheels in contact with the railhead.

The adapter is operated up and down with the machine hydraulics.



The unit(s) pictured may be equipped beyond the standard specification.

This brochure is subject to change without notice.



## PRODUCT OPTIONS

Height and Swing limitation Safety Kit.

Various Country and Regional specific Safety Kit such as DB.

RCI (Rates Capacity Indicator) Kit.

Pivoting Axle.

## SPECIFICATION

**Weight** 1800kg

**Gauge, standard** 1435mm

**Run wheel** 350mm

**Traction wheel** 450mm

Check out our  
YouTube channel



PATENT NO: 321673, HY-RAIL EXCAVATOR

## INSTALLATIONS



Used globally. Locations include Norway, Sweden, Denmark, Russia and Turkey.

## OPTIONAL ACCESSORIES

**840120 Towing kit**  
consists of;

- 595012 Coupler
- 5000331 Towing bar 1.4m
- 5004812 Brackets towing bar (2 pcs) straps included (800019)
- 595174S Emergency towing wire 1.6m

**840097 Towing Kit**  
consists of;

- 595012 Coupler
- 5000331 Towing bar 1.4m
- 5004812 Brackets towing bar (2 pcs)
- 595174S Emergency towing wire 1.6m
- 595575 Portopower (brake release)

### Other Optional Accessories

- 5004889 Weld on bracket
- 5003754 Towing bar 2m
- 595575 Portopower (brake release)
- 595177S Emergency towing wire 1.35m

- 595178S Emergency towing wire 1.85m

- 595179S Emergency towing wire 2.2m

### Safety Kit

- 840005 Safety kit  
Warning signs, signalling lamp, battery, connector clamp. This kit may not be complete for all markets  
Height and swing limitation system  
Key locked sector limitation  
Proximity switches

- 595584 Earth bonding cable 50mm<sup>2</sup> x 10m

We have a number of solutions, please contact us for further information

For further information on accessories, please visit our website.

# NEXT GENERATION AXLE **EQ** AXLE



The EQ Axle is designed to protect operators of rail road vehicles RRVs. Developed for belted excavators, it is ideal for Midi excavators and larger vehicles alike, up to 20 ton.

The vastly improved operator safety and performance is achieved by the increased level of machine stability and traction. The Patent Pending mechanism enables the RRV to continuously self-adjust and distribute the working load across the 4 wheels. The load-bearing axle limits the forces transmitted as work is carried out, for example by a mechanical grab. Extension and rotation of the grab pulls the RRV's centre of gravity sharply to one side. This increases the risk of the least-loaded rail wheel lifting away from the rail and consequently posing a potential derailment.

## Introducing our revolutionary new product: The EQ Axle

The EQ Axle prevents this by bearing the load of the vehicle chassis through two joists, linked to an axle which supports a pair of rail wheels. The 'floating' axle is mounted within a cage, which limits the pivot travel during the transfer of load-forces as the RRV works at the line side.

Throughout the turning action, at least 20% of the Axle load is retained on the least-loaded rail wheel. When the cage stop position is reached there is 20% margin against RRV tipping.

The EQ Axle offers a substantially greater degree of stability than the other stabilising wheel-set designs currently available.



The unit(s) pictured may be equipped beyond the standard specification.

This brochure is subject to change without notice.



## PRODUCT FEATURES

Unique Pat Pending design enables continuous, self-adjusting wheel-load distribution.

Vastly reduces the risk of vehicle derailment.

Designed and Constructed for easy maintenance.

Modular build.

Simple to adjust for different rail gauges.

Improved working agility.

Better traction.

Improved operator experience and performance through reliable stability.

Tested according to EN15746.

2 Wheel Drive (2WD).

2 Wheel Braking.

RRVs do not require extra hydraulics to accept the EQ Axle.

Hy-Rail function operational from within the cabin.

2 gear/speed hydraulic function.

The most advanced 'Bolt-on' Hy-rail attachment available.

## PRODUCT OPTIONS

4 Wheel Drive (4WD).

4 Wheel Braking.

Special regional requirements accommodated.

Kits that confirm to various regional and agency demands.

We have provided RRVs fitted with our EQ Axle that conform to Deutsche Bahn AG standards.

Regional and international Patents Pending

## INSTALLATIONS



Used globally. Since introducing the EQ Axle it has sold far and wide to countries including Australia, Austria, Germany, Norway and Sweden.



Check out our  
YouTube channel











[www.rosenqvistrail.com](http://www.rosenqvistrail.com)

---

**ROSENQVIST RAIL AB**

Postal address Skördevägen 3  
824 34 Hudiksvall  
Sweden

Visiting address Skördevägen 3  
Hudiksvall  
Sweden

Telephone +46 (0) 650 165 05  
Fax +46 (0) 650 165 01  
Email [info@rosenqvistrail.se](mailto:info@rosenqvistrail.se)  
Website [www.rosenqvistrail.com](http://www.rosenqvistrail.com)

**ROSENQVIST**  
  
**PANDROL**

© DELACHAUX GROUP

---