

Sleeper Layer

SL400/SL450/SL550/SL650/SL850

Rail and Sleeper Handling



Rosenqvist Rail's range of carrier-mounted Sleeper Layers achieve fast, accurate sleeper laying and spreading, with an easily adjustable tool designed to fit most kinds of sleepers. The SL400 can handle four sleepers simultaneously, while the SL850 can handle up to eight at a time.

A telescopic frame makes the Sleeper Layers compact and safe to operate. A unique, patented linkage system ensures that the centre of gravity does not change during sleeper spreading. The SL400 and SL450 work in hydraulic sequence and no electricity is required on the carrier machine.

→ TECHNICAL FEATURES

Telescopic frame

A telescopic frame structure makes the Sleeper Layers compact and easy to manoeuvre safely..

Easy-to-change components

Quick-change gripping claws make changing components quick, simple and safe..

Compatibility

The Sleeper Layers are prepared for both rotator and rototilt and can be easily adjusted to fit most types of sleepers.

High-speed installation

When operated by a fully-trained, skilled operator working under optimal conditions, the Sleeper Layers can cover from 60 to 80 metres per hour (the SL400) to 120 to 150 metres per hour (the SL850)..

Precision gauging hydraulic system

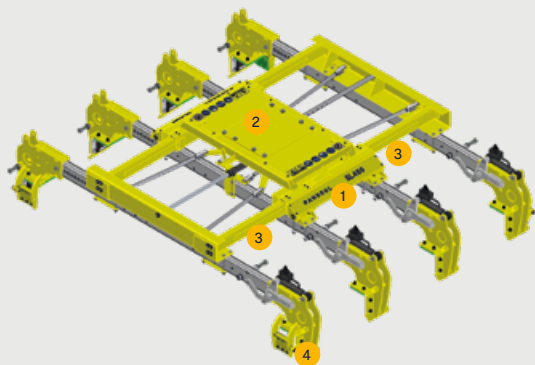
A precision gauging hydraulic system ensures the correct placement of sleepers, which can be set at 300–750mm. No electricity is required on the carrier machine.

Linkage system

A linkage system ensures that the Sleeper Layer's centre of gravity does not change during sleeper spreading.

→ ADVANTAGES

- Rosenqvist Rail's Layers achieve a high output of sleeper laying, from 60 to 150 metres per hour (dependent on the model).
- A precision gauging hydraulic system enables the accurate placement of sleepers.
- The Sleeper Layers' unique linkage system ensures their centre of gravity does not change while spreading sleepers.
- The attachments are compact and easy to manoeuvre safely.
- Easy-to-change components increase efficiency and save time.
- Unlike similar tools, there is no risk of the unit hanging over adjacent track when grabbing sleepers from a rail cart.



→ COMPONENTS

1. Fixed frame
2. Installation plate
3. Telescopic frame
4. Grapple arms

→ SPECIFICATIONS

Technical data					
Description	SL400	SL450	SL550	SL650	SL850
Number of sleepers (Max)	4 pcs	4 pcs	5 pcs	6 pcs	8 pcs
Lifting capacity	Max. 1600 kg	Max. 1800 kg	Max. 2250 kg	Max. 2700 kg	Max. 3600 kg
Length	1000 – 2585 mm	1120 – 2640 mm	1790 – 3770 mm	2000 – 4475 mm	2800 – 6015 mm
Height – Standard	655 mm	780 mm	945 mm	945 mm	945 mm
Height with tilt rotator	N/A	N/A	1400 mm	1400 mm	1400 mm
Height with tilt rotator & bracket (150 mm)	N/A	N/A	1550 mm	1550 mm	1550 mm
Width standard gauge	2 705 mm	Min. 2 855 mm Max. 3 170 mm	Min. 2855 mm Max. 3170 mm	Min. 2855 mm Max. 3170 mm	Min. 2855 mm Max. 3170 mm
Width broad gauge	N/A	N/A	Min. 2965 mm Max. 3335 mm	Min. 2965 mm Max. 3335 mm	Min. 2965 mm Max. 3335 mm
Weight	814 kg w/o rotator/ tilt rotator	1060 kg w/o rotator/tilt rotator	1595 kg w/o bracket 1670 kg w bracket 1870 kg w tilt rotator and bracket	1860 kg w/o bracket 1935 kg w bracket 2210 kg w tilt rotator and bracket	2350 kg w/o bracket 2425 kg w bracket 2700 kg w tilt rotator and bracket
Sleeper distances	750 mm	750 mm	762 mm	762 mm	762 mm
Sleeper lengths	Per request	STD: 2490–2800 mm Narrow: 2220–2530 mm Broad: 2490–3000 mm	STD: 2410–2800 mm Narrow: 2145–2530 mm Broad: 2410–3000 mm	STD: 2410–2800 mm Narrow: 2145–2530 mm Broad: 2410–3000 mm	STD: 2410–2800 mm Narrow: 2145–2530 mm Broad: 2410–3000 mm
Performance: any suitably excavator	Up to 60m/h	Up to 60m/h	Up to 90 m/h	Up to 110 m/h	Up to 150 m/h
Performance: any suitably front end loader	Up to 40m/h	Up to 40m/h	Up to 60 m/h	Up to 75 m/h	Up to 100 m/h

Standard compliance

- Machinery directive 2006/42/EC

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