

Sleeper Layer Attachments

SL400/SL450/SL550/SL650/SL850

Rail and Sleeper Handling



Pandrol'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

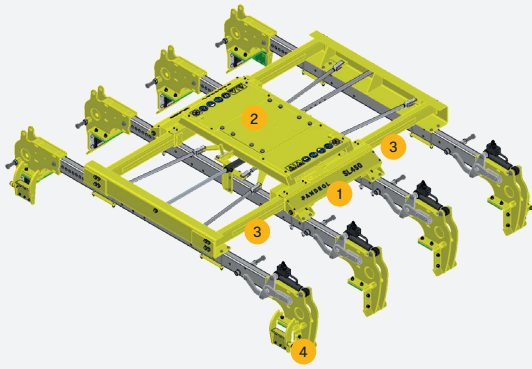
A precision gauging hydraulic system ensures the correct placement of sleepers, which can be set at 300–750mm. No electricity is required on the carrier machine.

Linkage system

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

→ ADVANTAGES

- Pandrol's Sleeper 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
Item number	14300001	5007750	5013260	5008200	5008600
Number of sleepers (Max)	4 pcs	4 pcs	5 pcs	6 pcs	8 pcs
Length	1000 – 2585 mm (39.7 – 101.7 in)	1120 – 2640 mm (44.1 – 103.9 in)	1790 – 3770 mm (70.4 – 148.4 in)	2000 – 4475 mm (78.8 – 176.1 in)	2800 – 6015 mm (110.2 – 236.7 in)
Height - Standard	655 mm (25.8 in)	780 mm (30.7 in)	945 mm (37.2 in)	945 mm (37.2 in)	945 mm (37.2 in)
Height with tilt rotator	N/A	N/A	1400 mm (55.1 in)	1400 mm (55.1 in)	1400 mm (55.1 in)
Height with tilt rotator & bracket (150 mm)	N/A	N/A	1550 mm (61 in)	1550 mm (61 in)	1550 mm (61 in)
Width standard gauge	2 705 mm (106.5 in)	Min. 2 855 mm (112.4 in) Max. 3 170 mm (124.8 in)	Min. 2855 mm (112.4 in) Max. 3170 mm (124.8 in)	Min. 2855 mm (112.4 in) Max. 3170 mm (124.8 in)	Min. 2855 mm (112.4 in) Max. 3170 mm (124.8 in)
Width broad gauge	N/A	N/A	Min. 2965 mm (116.7 in) Max. 3335 mm (131.2 in)	Min. 2965 mm (116.7 in) Max. 3335 mm (131.2 in)	Min. 2965 mm (116.7 in) Max. 3335 mm (131.2 in)
Weight	820 kg (1810 lbs) w/o rotator/tilt rotator	1060 kg (2335 lbs) w/o rotator/tilt rotator	1595 kg (3515 lbs) w/o bracket 1670 kg (3680 lbs) w bracket 1870 kg (4120 lbs) w tilt rotator and bracket	1860 kg (4100 lbs) w/o bracket 1935 kg (4265 lbs) w bracket 2210 kg (4870 lbs) w tilt rotator and bracket	2350 kg (5180 lbs) w/o bracket 2425 kg (5345 lbs) w bracket 2700 kg (5950 lbs) w tilt rotator and bracket
Lifting capacity	Max. 1250 kg (2755 lbs)	Max. 1800 kg (3970 lbs)	Max. 2250 kg (4960 lbs)	Max. 2700 kg (5950 lbs)	Max. 3600 kg (7935 lbs)
Sleeper distances	750 mm (29.5 in)	750 mm (29.5 in)	762 mm (30 in)	762 mm (30 in)	762 mm (30 in)
Sleeper lengths	Per request	STD: 2490-2800 mm (98 - 110.2 in) Narrow: 2220-2530 mm (87.4 - 99.6 in) Broad: 2490-3000 mm (98 - 118.1 in)	STD: 2410-2800 mm (94.8 - 110.2 in) Narrow: 2145-2530 mm (84.4 - 99.6 in) Broad: 2410-3000 mm (84.4 - 118.1 in)	STD: 2410-2800 mm (94.8 - 110.2 in) Narrow: 2145-2530 mm (84.4 - 99.6 in) Broad: 2410-3000 mm (84.4 - 118.1 in)	STD: 2410-2800 mm (94.8 - 110.2 in) Narrow: 2145-2530 mm (84.4 - 99.6 in) Broad: 2410-3000 mm (84.4 - 118.1 in)
Performance: any suitably excavator	Up to 60m/h (200 ft/h)	Up to 60m/h (200 ft/h)	Up to 90 m/h (240 ft/h)	Up to 110 m/h (300 ft/h)	Up to 150 m/h (410 ft/h)
Performance: any suitably front end loader	Up to 40m/h (110 ft/h)	Up to 40m/h (110 ft/h)	Up to 60 m/h (160 ft/h)	Up to 75 m/h (200 ft/h)	Up to 100 m/h (330 ft/h)

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