

# Rail loading wagon SLW



**Technical Datasheet** 





## **Benefits**

- / Highly efficient, versatile loading system in combination with the ROBEL transport system
- / Minimal preparatory work required
- / Rails can be loaded and unloaded individually or in pairs
- / 2 independently-operable, outlying swivel arms
- / Hydraulic positioning equipment for loading and unloading rails up to 2 meters from the middle of the track with the SLW 1
- / Gantry crane pivots in the required direction
- / Individual rail lengths of 15 to 300 meters
- / Rail profiles 49E1/5, 54E3/4, 60E1/2, R65 and others on request
- / Operation can be done usually without deactivating overhead contact lines
- / Rails can be loaded through onto ROBEL transport systems: max. 2 x 120 m, 2 x 180 m or 1 x 120 m + 1 x 180 m
- / Ideal for combined and relay shipments
- / Serves as a rail shuttle for collective and staggered construction sites

# **Applications**

- / Infrastructure with a track gauge of 1,435 mm
- / Track + rail 1/2 renewal measures
- / High-speed lines with short track possessions
- / Serves as a rail shuttle for collective and

#### **SLW Rail Loading Wagon:**

#### Positioning rails with pinpoint accuracy

This rail loading unit loads and unloads long rails onto and from rail transport wagons. The SLW rail loading wagon places the rails in the correct position next to or onto the sleeper heads or in the middle of the track. This rail loading unit is able to rotate its gantry crane so that the vehicle can be deployed in any direction.





### SLW Rail Loading Wagon Technical Data

Туре	Rail Loading Wagon SLW 1	Rail Loading Wagon SLW 3	Rail Loading Wagon SLW 4 – SLW 7	Rail Loading Wagon SLW 8
Track gauge	1,435 mm	1,435 mm	1,435 mm	1,435 mm
Main dimensions				
Length over buffers (LoB)	2 x 13.86 m = 27.72 m	2 x 12.08 m = 24.16 m	2 x 12.04 = 24.08 m	2 x 14.5 = 29.00 m
Width	2.71 meters	2.75 meters	2.61 meters	2.61 meters
Number of bogies	none	none	none	none
Number of wheelsets per wagon	2 x 2	2 x 2	2 x 2	2 x 2
Distance between last wheelsets and front buffer	2.93 meters	2.06 meters	2.02 meters	2.75 meters
Distance between inner wheelsets	8.00 meters	8.00 meters	8.00 meters	9.00 meters
Height above TOP of vehicle floor	1.25 meters	1.26 meters	1.23 meters	1.23 meters
Loading gauge / structure gauge	G2	G2 as per EBO	G2 as per EBO,	G1
Speed				
Hauling speed as part of train set	100 km/h	100 km/h	100 km/h	100 km/h
Max. speed (self-propelled)	gantry crane max. 10 km/h	gantry crane max. 10 km/h	gantry crane max. 10 km/h	gantry crane max. 10 km
Masse				
Tare weight	48 t (max. permitted 54 t)	41 t (max. permitted 45 t)	47 t (max. permitted 51 t)	65 t
Maximum weight per meter	1.73	1.86	2.12	2.4
Maximum axle load	20 t (for all line categories EN 15528 C-D)	20 t (for all line categories EN 15528 C-D)	20 t (for all line categories EN 15528 C-D)	22.5 t (for all line categories EN 15528 C-D
Brake system				
Brake system type	2 x KE GP	2 x KE GP	2 x KE GP	2 x KE GP (K)
Brake blocks	cast iron	cast iron	cast iron	K
Braked weight	F: 54 / P: 54	F: 40/ P: 40	F: 40 / P: 40	F: 46/ P: 58
Braking power percentage	dependent upon loading weight	dependent upon loading weight	dependent upon loading weight	dependent upon loading weight
Transport setting (F/P)	dependent on operation and network			
Handbrake / parking	yes (2x)	yes (2x)	yes (2x)	yes (2x)

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## SLW Rail Loading Wagon Technical Data

Type	Rail Loading Wagon SLW 1	Rail Loading Wagon SLW 3	Rail Loading Wagon SLW 4 – SLW 7	Rail Loading Wagon SLW 8
On-track operability				
Shunting maneuvers not permitted (e.g. hump-shunting or loose shunting)	Hump-shunting, loose shunting, banking, separation not permitted	Hump-shunting, loose shunting, banking, separation not permitted	Hump-shunting, loose shunting, banking, separation not permitted	Hump-shunting, loose shunting, banking, separation not permitted
Sequencing restrictions	no restrictions	no restrictions	no restrictions	no restrictions
Smallest traversable curve radius (transport/operating)	150 m / 300 m	150 m / 300 m	150 m / 300 m	150 m / 300 m
Max. uphill and downhill gradients	max. 40 ‰ depending on the rail length	max. 40 ‰ depending on the rail length	max. 40 ‰ depending on the rail length	max. 40 ‰ depending on the rail length
Max. superelevation (transport/operating)	180 mm	180 mm	180 mm	180 mm
Transport inside train set	yes	yes	yes	yes
Max. permissible trailing load	no restriction	no restriction	no restriction	no restriction
Weather constraints				
Ambient temperature (operating mode)	freezing water between -20° and 40° C	freezing water between -20° and 40° C	freezing water between -20° and 40° C	freezing water between -20° and 40° C
Power supply				
Central power supply	diesel generator	diesel generator	diesel generator	diesel generator
Equipment (basic equip	ment for each machine ar	nd features)		
Equipment (basic equipment)  Max. loading capacity loading / unloading	ment for each machine ar	nd features) 5 pairs per hour	5 pairs per hour	5 pairs per hour
Max. loading capacity			5 pairs per hour 2 (as a unit)	5 pairs per hour 2 (as a unit)
Max. loading capacity loading / unloading	5 pairs per hour	5 pairs per hour		2 (as a unit) middle of track, on sleeper heads or one in the middle
Max. loading capacity loading / unloading Number of wagons Loading / unloading of the rails (middle of track, on sleeper	5 pairs per hour  2 (as a unit)  middle of track, on sleeper heads or one in the middle of the track and one on the sleeper heads, 2 meters	5 pairs per hour  2 (as a unit)  middle of track, on sleeper heads or one in the middle of the track and one on the sleeper heads, 2 meters	2 (as a unit) middle of track, on sleeper heads or one in the middle of the track and one on the sleeper heads, 2 meters	2 (as a unit) middle of track, on sleeper heads or one in the middle of the track and one on the sleeper heads, 2 meters
Max. loading capacity loading / unloading Number of wagons  Loading / unloading of the rails (middle of track, on sleeper heads etc.)  Personnel / machine operators / crew	5 pairs per hour  2 (as a unit)  middle of track, on sleeper heads or one in the middle of the track and one on the sleeper heads, 2 meters from middle of track  3 machine operators	5 pairs per hour  2 (as a unit)  middle of track, on sleeper heads or one in the middle of the track and one on the sleeper heads, 2 meters from middle of track  3 machine operators	2 (as a unit) middle of track, on sleeper heads or one in the middle of the track and one on the sleeper heads, 2 meters from middle of track  3 machine operators	2 (as a unit) middle of track, on sleepe heads or one in the middle of the track and one on th sleeper heads, 2 meters from middle of track  3 machine operators



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