

Rail Replacement Wagon SWW



Technical Datasheet SWW 1 and SWW 2





Benefits

- / Can be used in combination with the loading train in an assembly line process
- / Minimal preparatory work required
- / Rails replaced in pairs or individually in a continuous process
- / Precise positioning of the new rail



Applications

/ Infrastructure with a track gauge of 1,435 mm

/ Rail 1/2 renewal measures



SWW 1 and SWW 2 Rail Replacement Wagons: designed for assembly-line rail replacement

The SWW 1 combined with the V + L module and the SWW 2 combined with the V + L modules and the loading and unloading wagon 3 can simultaneously unload and replace rails using an assembly line method. The new rails are delivered using the Robel or STS transport systems or public network wagons. The SWW 2 can also lay rails that are lying on the ground.



-40°/ -20°, restrictions

when the water is freezing,

observe occupational savety

SWW 1 Rail Replacement Wagon Technical Data

Ancillary vehicle	SWW 1 Rail Replacement Wago
Track gauge	1,435 mm
Main dimensions	
Length over buffers	22,240 mm
Width	2,860 mm
Number of bogies	2
Number of wheelsets per wagon	4
Wheelbase between bogie pins	16,700 mm
Distance between last wheelset and front buffer	1,770 mm
Distance between axles on bogie	2,000 mm
Bir I r I I r	14,700 mm
Distance between inner wheelsets	
Loading gauge / structure gauge	G2 as per EBO
Loading gauge / structure gauge Speed	G2 as per EBO
Loading gauge / structure gauge	
Loading gauge / structure gauge Speed Hauling speed as part of train set	G2 as per EBO 100 km/h
Loading gauge / structure gauge Speed Hauling speed as part of train set Max. shunting speed	G2 as per EBO 100 km/h
Speed Hauling speed as part of train set Max. shunting speed Weight	G2 as per EBO 100 km/h construction site specification
Speed Hauling speed as part of train set Max. shunting speed Weight Tare weight	G2 as per EBO 100 km/h construction site specification 33.6 t
Speed Hauling speed as part of train set Max. shunting speed Weight Tare weight Maximum weight per meter	G2 as per EBO 100 km/h construction site specification 33.6 t 1.51 t
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Speed Hauling speed as part of train set Max. shunting speed Weight Tare weight Maximum weight per meter Maximum axle load Brake system	G2 as per EBO 100 km/h construction site specification 33.6 t 1.51 t 20

Power supply	
Central power supply	diesel generator, 20 kW gene- rator for on-board train power, hydraulics and on-board lighting
Equipment (basic equipment fo	or each machine and features)
Number of wagons	1
Rail types replaced	UIC 60, S49, S54, R65, others on equest
Performance data	max. 2.5 pairs of rails per hour
Personnel / machine operators / crew (number & qualification)	6 machinists
Technical drawing of machines	see TI Wagon Catalogue
Wagon equipment	Attention: Direction-specific vehicle functionality; in combination with V + L, the SWW 1 enables simultaneous unloading and rail replacement in an assembly-line procedure. Also combinable with SLW and ROBEL TE
Safety and communication equipment	communication via walkie- talkies, red and white flag, red dimmable hand lamp
Running gear and suspension	Niesky DG BA 962, wheel profile A
Approvals for transport / operation on tracks	DB Netz NGT 35 Bln, Prorail, HSL DB Netz NGT 35 Bln BZA as ancillary vehicle

Weather constraints

Ambient temperature

(operating mode)

On-track operability	
Shunting maneuvers not permitted	hump-shunting, loose shunting not permitted
Sequencing restrictions	none
Smallest traversable curve radius (transport mode / operating mode)	150 m (transport), 350 m (operating)
Max. uphill and downhill gradients	max. 25 ‰
Max. superelevation (transport / operating)	180 mm (operating)
Transport possible inside train set	yes
Max. trailing load	no restrictions

Braking power percentage

Handbrake / parking brake fitted

Transport setting (F/P)

inside train set on completion

of brake bulletin



SWW 2 Rail Replacement Wagon Technical Data

Ancillary vehicle	SWW 2 Rail Replacement Wag
Track gauge	1,435 mm
Main dimensions	
Length over buffers	24,700 mm
Width	2,860 mm
Number of bogies	2
Number of wheelsets per wagon	4
Wheelbase between bogie pins	19,400 mm
Distance between last wheelset and front buffer	1,650 mm
Distance between axles on bogie	2,000 mm
Distance between inner wheelsets	17,400 mm
Loading gauge / structure gauge	G2 as per EBO
Loading gauge / structure gauge	
Loading gauge / structure gauge Speed	
Speed	G2 as per EBO
Speed Hauling speed as part of train set Max. shunting speed	G2 as per EBO 100 km/h
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Speed Hauling speed as part of train set Max. shunting speed Weight Tare weight	G2 as per EBO 100 km/h construction site specification
Speed Hauling speed as part of train set Max. shunting speed Weight	G2 as per EBO 100 km/h construction site specification 48.5 t
Speed Hauling speed as part of train set Max. shunting speed Weight Tare weight Maximum weight per meter	G2 as per EBO 100 km/h construction site specification 48.5 t 1.96 t
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Ambient temperature (operating mode)	-40°/ -20°, restrictions when the water is freezing, observe occupational savety
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Central power supply	diesel generator, 20 kW gene- rator for on-board train power, hydraulics and on-board lighting
Equipment (basic equipment f	or each machine and features)
Number of wagons	1
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Personnel / machine operators / crew (number & qualification)	6 machinists
Technical drawing of machines	see TI Wagon Catalogue
Wagon equipment	Attention: Direction-specific vehicle functionality; in combination with V + L, the SWW 1 enables simultaneous unloading and rail replacement in an assembly-line procedure. Also combinable with SLW and ROBEL TE
Safety and communication equipment	electric horns for acoustic signals, communication via walkie-talkies
Running gear and suspension	Niesky DG BA 962, wheel profile A
Approvals for transport / operation on tracks	DB Netz NGT 35 Bln, Prorail, HSL DB Netz NGT 35 Bln BZA as ancillary vehicle

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Max. trailing load	no restrictions	

Braking power percentage

Handbrake / parking brake fitted

Transport setting (F/P)

inside train set on completion

of brake bulletin

yes

yes



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