

Shifting and Loading Module V+L



Technical Datasheet





Benefits

- / Efficient and flexible loading system for the STS transport system and third-party wagons
- / Minimal preparatory work required. Rails loaded/unloaded individually or in pairs
- / V + L can be combined with SWW to replace rails using an assembly-line procedure
- / Old rails taken up in a continuous process (onto STS)
- / Loading of old rails does not require cutting them to length or the removal of welding beads



Applications

- / Infrastructure with a track gauge of 1,435 mm
- / Rail lengths of 15 to 180 meters
- / Rail profiles 49E1, 54E1, 60E1, R65 and others on request
- / Track + rail 1/2 renewal measures
- / All lines especially with short track possessions

V + L Shifting and Loading Module:

Smooth workflow when it comes to rail transport

The V module pulls the rails from the transport wagons to the loading and unloading L module. Module L facilitates the loading of rails onto the transport wagons from the middle of the track or the sleeper heads and their unloading from the transport wagons onto the middle of the track or the sleeper heads. The V + L can be used in combination with the rail replacement wagon (SWW) to replace rails using an assembly-line procedure.



V + L Shifting and Loading Module Technical Data

Туре	Stahlberg Roensch
Track gauge	1,435 mm
Main dimensions	
Length over buffers	2 x 22.24 m = 44.48 m
Width	2.96 meters (working mode) 2.71 meters (transport mode)
Number of bogies	2 + 2
Number of wheelsets per wagon	4 + 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
Distance between inner wheelsets	14,700 mm
Loading gauge / structure gauge	G1 as per EBO
Speed Hauling speed as part of train set	100 km/h
Hauling speed as part of train set	100 km/h
•	100 km/h 32.5 t + 36.3 t = 68.8 t
Hauling speed as part of train set Weight	
Hauling speed as part of train set Weight Tare weight	32.5 t + 36.3 t = 68.8 t
Hauling speed as part of train set Weight Tare weight Maximum weight per meter	32.5 t + 36.3 t = 68.8 t 1.46 and 1.65 t/m
Hauling speed as part of train set Weight Tare weight Maximum weight per meter Maximum axle load	32.5 t + 36.3 t = 68.8 t 1.46 and 1.65 t/m
Hauling speed as part of train set Weight Tare weight Maximum weight per meter Maximum axle load Brake system	32.5 t + 36.3 t = 68.8 t 1.46 and 1.65 t/m 20
Weight Tare weight Maximum weight per meter Maximum axle load Brake system Brake system type	32.5 t + 36.3 t = 68.8 t 1.46 and 1.65 t/m 20
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Weight Tare weight Maximum weight per meter Maximum axle load Brake system Brake system type Brake blocks Braked weight	32.5 t + 36.3 t = 68.8 t 1.46 and 1.65 t/m 20 KE-GP cast iron F: 28 / P: 28 inside train set on completion
Hauling speed as part of train set Weight Tare weight Maximum weight per meter Maximum axle load Brake system Brake system type Brake blocks Braked weight Braking power percentage	32.5 t + 36.3 t = 68.8 t 1.46 and 1.65 t/m 20 KE-GP cast iron F: 28 / P: 28 inside train set on completion of brake bulletin
Weight Tare weight Maximum weight per meter Maximum axle load Brake system Brake system type Brake blocks Braked weight Braking power percentage Transport setting (F/P)	32.5 t + 36.3 t = 68.8 t 1.46 and 1.65 t/m 20 KE-GP cast iron F: 28 / P: 28 inside train set on completion of brake bulletin yes
Weight Tare weight Maximum weight per meter Maximum axle load Brake system Brake system type Brake blocks Braked weight Braking power percentage Transport setting (F/P) Handbrake / parking brake fitted	32.5 t + 36.3 t = 68.8 t 1.46 and 1.65 t/m 20 KE-GP cast iron F: 28 / P: 28 inside train set on completion of brake bulletin yes

Weather constraints		
Ambient temperature (operating mode)	between -20° and +40°C, restrictions with frozen water, observe safety provisions	
Power supply		
Central power supply	diesel generator, 59 kW generator fitted with HUSS particulate filter for on-board train power, conveyor drive, hydraulics and on-board lighting	
Equipment (basic equipment for each machine and features)		
Number of wagons	2	
Loading / unloading of the rails (middle of track, on sleeper heads etc.)	middle of track, on sleeper heads or one in the middle of the track and one on the outside	
Performance data	unloading: max. 5 pairs of rail/ hour under ideal conditions; loading: max. 600 meters of rail/ hour under ideal conditions	
Personnel / machine operators / crew (number & qualification)	unloading: 3 machinists and 2 crew, loading: 4 machinists and 2 crew	
Machinery	Note : direction-specific vehicle functionality; in combination with SWW, V + L enables rail replacement in assembly-line procedure	
Running gear and suspension	Niesky DG BA 962, wheel profile A	
Loading guidelines	Vossloh operating procedure	

Safety and communication equipment		
Communication	walkie-talkies, red-white flag, handheld signaling lamp with red filter	
Approvals for transport / operation on tracks	DB Netz NGT 35 Bln, Prorail, HSL BZA as ancillary vehicle, AAW operating instructions	

Samms

ROBEL TE, STS, DB Cargo and

private (only unloading): Rs, Rns,

systems

Compatible with transport

130 m (transport)

250 m (operating)

180 mm (operating)

no restrictions

rail length

max. 40 % depending on the

Smallest traversable curve radius

Max. uphill and downhill

Max. superelevation

(transport/operating) Transport inside train set Max. trailing load

gradients

(transport mode / operating mode)



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