

Tailor-made ROBEL Transport System



**For Kölner Verkehrs-Betriebe AG (KVB),
Cologne**

www.robels.com

 **ROBEL**

The newly developed ROBEL Transport System consists of:

3 Track Vehicles 54.17

1 Ballast Lorry

2 Low-Floor Trailers with different attachment options

1 Long-Welded Rail Wagon for rails of up to 18 m

1 Transport Wagon for high-pressure water jetting and vacuum system

Operation in urban areas

- Mixed operations acc. to BOStrab (German Regulations on the Construction and Operation of Light Rail Systems) and EBO (German Railway Construction and Operating Regulations)
- Cologne-Bonn transport network for transport of material and maintenance of KVB urban railway routes, Bonn municipal network as well as port and freight transport
- 325 km network of tunnels, regular railway services and high-speed lines

Increased operational efficiency

- Transport of ballast, rails, sleepers, construction materials (such as rail fastenings, debris, pre-fabricated concrete sections, cable drums, escalators, switch cabinets, cleaning equipment)
- Rescue of city railway coaches

TECHNICAL SPECIFICATIONS

Gauge	1435 mm
Max. gradient	60 ‰
Draw gear and buffer gear Rockinger and Scharfenberg couplings	

RORUNNER Track Vehicle with Loading Crane

54.17

In use on all railway systems with mixed operations acc. to BoStrab and EBO, in particular in urban and suburban environments for new construction and maintenance.



TECHNICAL SPECIFICATIONS

Drive	6-cylinder diesel engine with double SCR system
Type	Deutz
Output	390 kW; Hydrostatic transmission of power onto 3 axles
Weight	~37 t total weight incl. 2 t payload
Working mode	60 km/h under own power, 60 km/h hauled
Dimensions	14.5 m total length over draw gear
Braking	Pneumatic direct/indirect, spring actuated, magnetic rail brake, wheel slide protection (WSP also active during hauled drive)
Loading crane	PK 11502 B with height limiter and adjacent track locking
Max. outreach	10.4 m

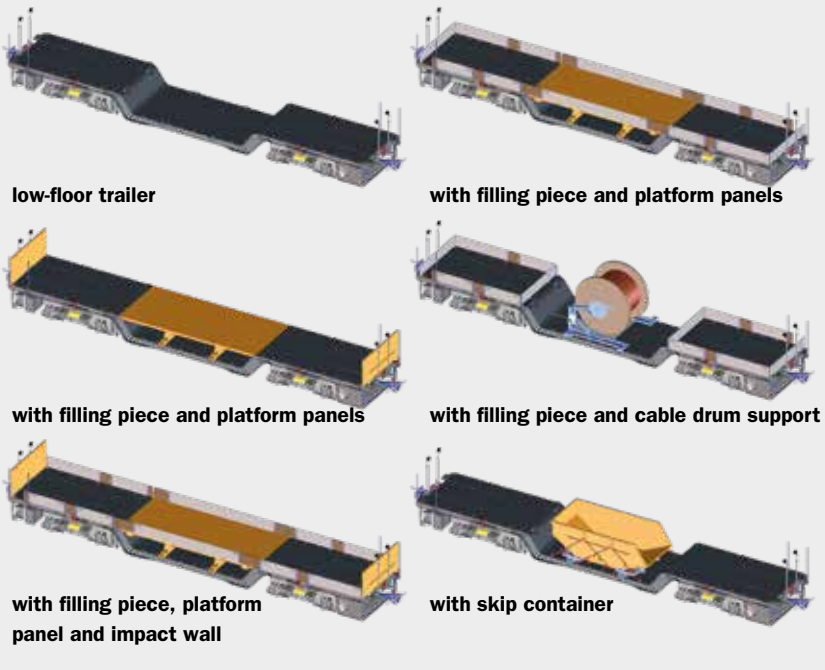


For the transport of sleepers, construction materials of all types (e.g. rail fastenings, debris, prefabricated concrete sections), cable drums, escalators, switch cabinets, cleaning equipment and construction machines for low-floor areas.

TECHNICAL SPECIFICATIONS

Total length over buffers (LOB)	15500 mm
Total width	2632 mm
Frame top edge FTE	459 mm
low-floor level	
King pin distance	9,000 mm
Gauge	1435 mm
Wheel diameter	730 mm
Max. overall weight	39.8 t
Tare weight (operational)	20.3 t
Net payload	16.8 t

Modular design for versatile tasks



For transporting rails of up to 18 metres in length.

TECHNICAL SPECIFICATIONS

Total length over buffers (LOB)	19900 mm
Total width	2632 mm
Frame top edge platform area	1120 mm
King pin distance	13400 mm
Gauge	1435 mm
Wheel diameter	730 mm
Max. overall weight	~39.6 t
Tare weight (operational)	~20.4 t
Payload	18.2 t
Max. axle load	10 t



For transport and managed supply of ballast to the track bed.

TECHNICAL SPECIFICATIONS

Total length over buffers (LOB)	15000 mm
Total width	2632 mm
Frame top edge platform area	1120 mm
King pin distance	8500 mm
Gauge	1435 mm
Wheel diameter	730 mm
Max. overall weight	~38.6 t
Tare weight (operational)	~21.6 t
Payload	17 t
Max. axle load	10 t



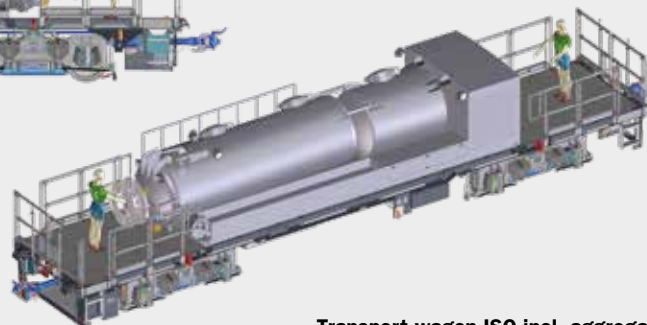
For transporting materials of all types. Designed for installation of a high-pressure water jetting and vacuum system.

TECHNICAL SPECIFICATIONS

Total length over buffers (LOB)	15000 mm
Total width	2632 mm
Frame top edge platform area	1120 mm
King pin distance	8500 mm
Gauge	1435 mm
Wheel diameter	730 mm
Max. overall weight	~38.7 t
Tare weight (operational)	~19.8 t
Payload	18.2 t
Max. axle load	10 t



Transport wagon incl. aggregate



Transport wagon ISO incl. aggregate