

Tailor-made ROBEL Transport System



For Kölner Verkehrs-Betriebe AG (KVB), Cologne

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 DATA

Gauge	1,435 mm
Max. gradient	60 ‰
Draw gear and buffer gear	Rockinger and Scharfenberg couplings



54.17 TRACK VEHICLE WITH LOADING CRANE

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 DATA

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

55.70/2 LOW-FLOOR TRAILER

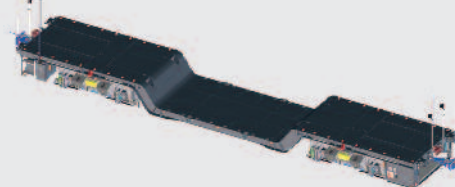
For the transport of sleepers, construction materials of all types (e.g. rail fastenings, debris, pre-fabricated concrete sections), cable drums, escalators, switch cabinets, cleaning equipment and construction machines for low-floor areas.



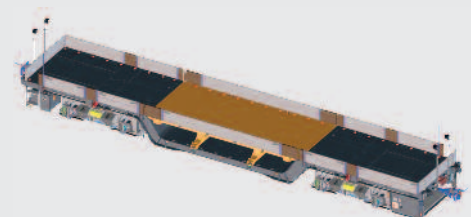
TECHNICAL DATA

Total length over buffers (LOB)	15,500 mm
Total width	2,632 mm
Frame top edge FTE low-floor level	459 mm
King pin distance	9,000 mm
Gauge	1,435 mm
Wheel diameter	730 mm
Max. overall weight	39.8 t
Tare weight (operational)	20.3 t
Net payload	16.8 t

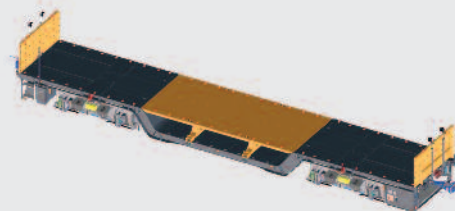
Modular design for versatile tasks



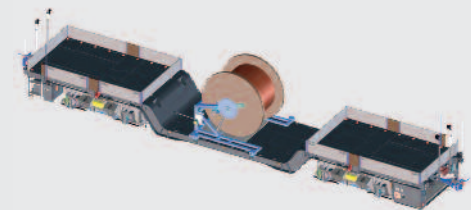
low-floor trailer



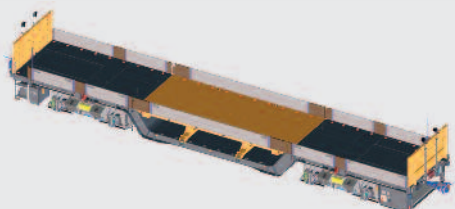
with filling piece and platform panels



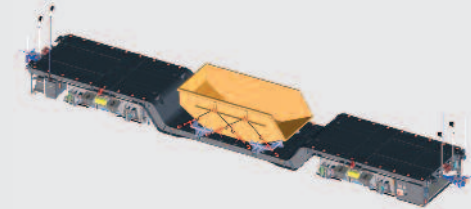
with filling piece and platform panels



with filling piece and cable drum support



with filling piece, platform panel and impact wall



with skip container

55.70/3 LONG-WELDED RAIL WAGON

For transporting rails of up to
18 metres in length.



TECHNICAL DATA

Total length over buffers (LOB)	19,900 mm
Total width	2,632 mm
Frame top edge platform area	1,120 mm
King pin distance	13,400 mm
Gauge	1,435 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

55.70/4 BALLAST LORRY

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



TECHNICAL DATA

Total length over buffers (LOB)	15,000 mm
Total width	2,632 mm
Frame top edge platform area	1,120 mm
King pin distance	8,500 mm
Gauge	1,435 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

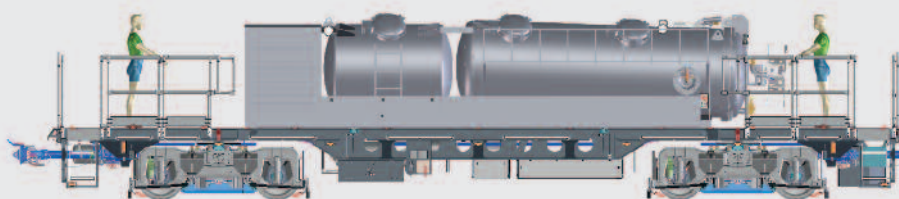
55.70/5 TRANSPORT WAGON

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

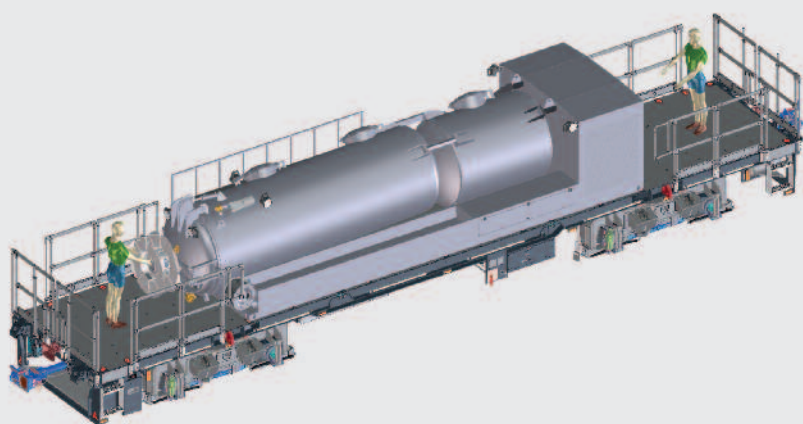


TECHNICAL DATA

Total length over buffers (LOB)	15,000 mm
Total width	2,632 mm
Frame top edge platform area	1,120 mm
King pin distance	8,500 mm
Gauge	1,435 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

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