



ZWIEHOFF
Zweiwege-Fahrzeuge

e-POWER
electric drive

ROTRAC RRe

Shunting capacity up to 4000 t



ROTRAC RRe

- **Concept for heavy shunting operations**
- **All-welded, robust steel frame construction**
- **High manoeuvrability with steered rear wheels**

Powertrain

- All-wheel drive
- Infinitely variable electric drive with regenerative braking
- One Pedal Drive – maximum energy recovery

Safety Equipment

- Dead man's handle
- Signal light and warning system
- Emergency stop buttons
- LED – work lights

Specification

- Liquid-cooled permanent magnet motor
- NMC Lithium-Ion - 620 V DC battery
- Energy capacity: 140 kWh / 210 kWh (optional)
- Battery and thermal management system (BTMS)
- Charging plug: Automotiv standard CCS2
- Optional diesel range extender
Deutz TD2.9 L4 40 kW
- Fully automatic transmission Dana eRTE14

Wagon brake system

- Robust, powerful and long-living
- Huge air storage
- Emergency air storage
- Air dryer
- KNORR-Bremse BP-Compact brake control

ROBUST - POWERFUL - ECO-FRIENDLY



Base frame

Frame

- Low centre of gravity
- Buffers and hooks
- Heavy and robust welded construction



High-performance electronics

Vehicle Handling

- Small space requirement for tracking-on
- High manoeuvrability with rear wheels steered
- High tractive forces due to the high friction coefficient between tyres and steel



Rail guidance system

Rail Guidance System

- Track gauge: 1076 to 1676 mm
- Safety device against derailling due to full floating rail axles
- Pressure compensation automatically
- Self-regulating system



Automatic coupler

Coupling Systems

- Mechanical drawbar
- Automatic coupler
- UIC hook
- SA3 and AAR coupler
- Centre buffer coupler
- Special coupler executions
- Hydraulic height and side adjustment



Control panel

System

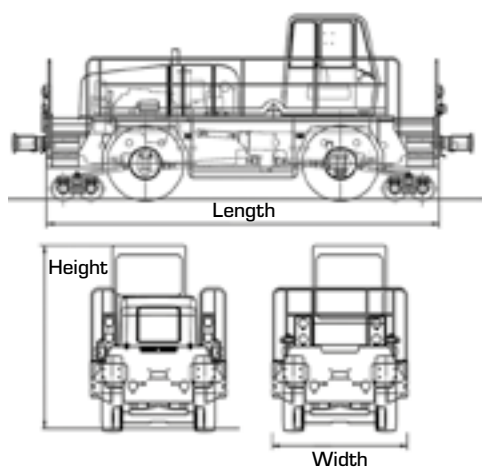
- Easy operation due to clearly arranged components
- Identical-parts philosophy
- 12" Touchdisplay

Options

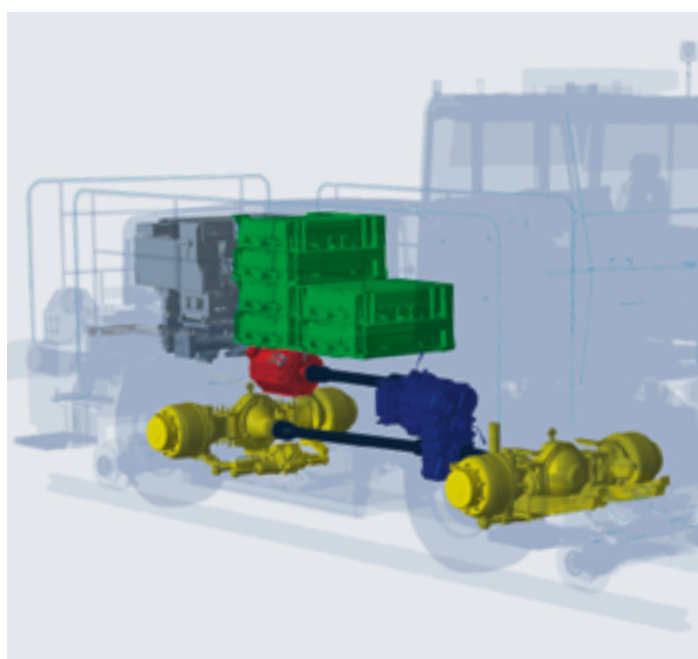
- Rear wheels steered
- Air conditioning
- Radio remote control
- Control console for reverse drive with turning seat
- Automatic central lubrication system
- Sensors for security against derailed
- Heating on windscreen
- Heating on the mirrors
- Auxiliary heating
- Additional air hose
- Sanding system
- Various front-mounted attachments
- Winter execution -20 °C / -40 °C
- Additional corrosion protection for extreme operating conditions
- Tyre pressure monitoring
- Rail drying unit
- IoT-Telemetry – external control functionality

VEHICLE DESIGN

ROTRAC RRe



	RRe18	RRe24	RRe30	RRe35B	RRe40B
Gross weight	18 t	24 t	30 t	35 t	40 t
Tractive force (at $\mu=0,7$)	95 kN	125 kN	155 kN	185 kN	210 kN
Shunting capacity	1800 t	2400 t	3000 t	3500 t	4000 t
Wheels	12.00R24	12.00R24	14.00R24	14.00R24	14.00R24
Rail axis	2	2	2	4	4
Air capacity for wagon brake system	800 l	800 l	800 l	800 l	800 l
Power	174 kW	174 kW	174 kW	260 kW	260 kW
Length approx.	6250 mm	6550 mm	6550 mm	7740 mm	8170 mm
Width approx.	2550 mm	2550 mm	2550 mm	2550 mm	2550 mm
Height approx.	3665 mm	3665 mm	3665 mm	3665 mm	3665 mm

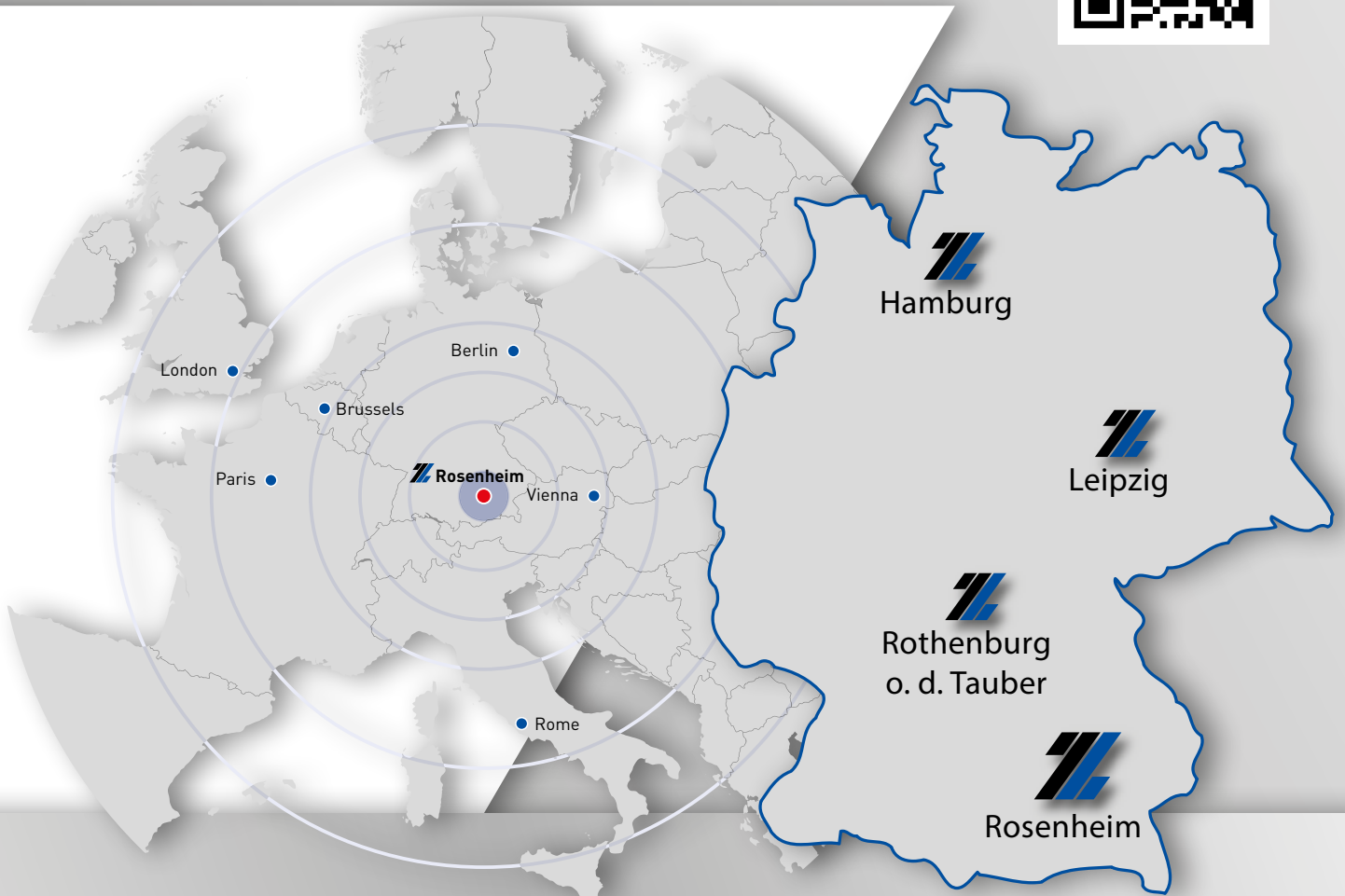


Energy concept

Advantages

- Performance similar to a diesel version
- No emissions
- No operating costs when the vehicle is at a standstill
- Low maintenance requirement due to the omission of a large number of moving parts
- More precise control of vehicle movement
- Quiet drive, more comfort for the driver
- High tractive force
- Recharging the batteries when braking
- Radio remote control

WHERE TO FIND US:



FURTHER PRODUCT RANGE:



ROTRAC E2
Shunting capacity up to 250 t



ROTRAC E4
Shunting capacity up to 500 t



UNIMOG
Shunting capacity up to 1000 t

