



**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

## **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: Automotive 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

# 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 derauling 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



*Control panel*

## Options

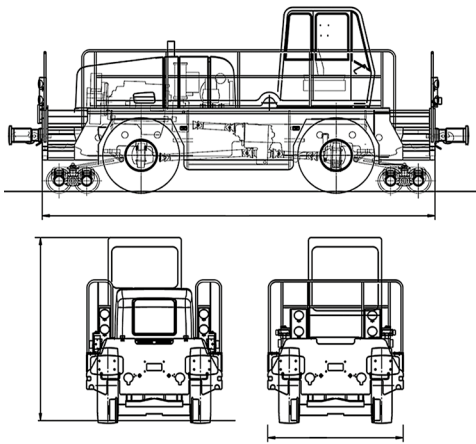
- Rear wheels steered
- Air conditioning
- Radio remote control
- Control console for reverse drive with turning seat
- Automatic central lubrication system
- Sensors for security against derailment
- Heating on windscreen
- Heating on the mirrors
- Auxiliary heating
- Additional air hose
- Sanding system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

## System

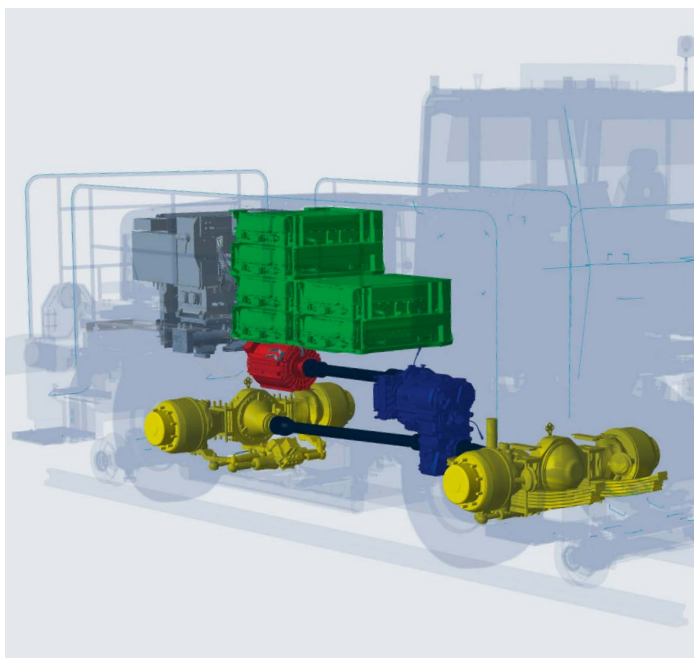
- Easy operation due to clearly arranged components
- Identical-parts philosophy

# 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	135 kN	165 kN	185 kN	225 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	500 l	800 l	800 l	800 l	800 l
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	3550 mm	3665 mm	3665 mm	3665 mm

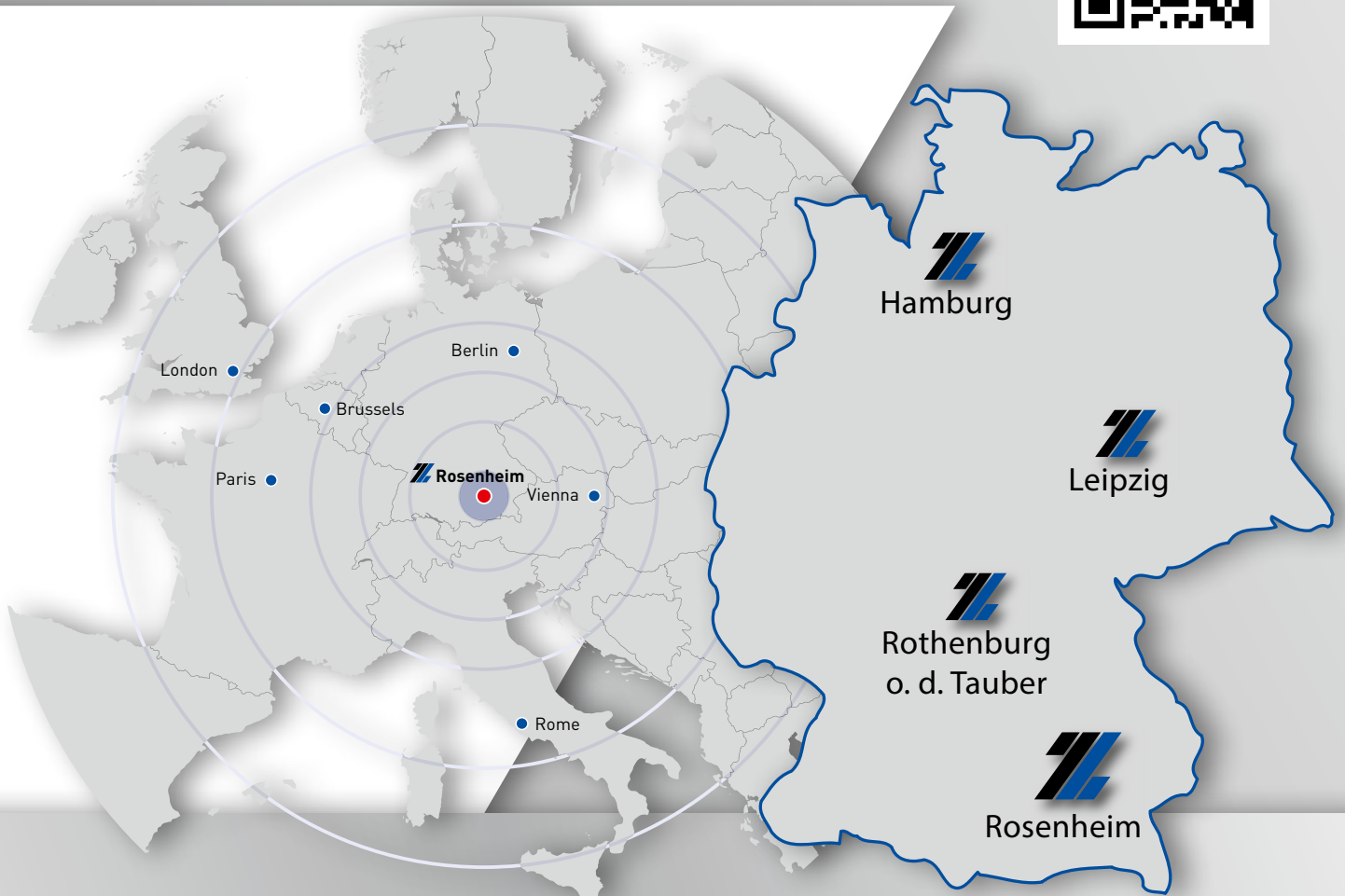


Energy concept

### 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
- IoT - Telemetry - External control functionality
- Radio remote control

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## OUR FURTHER DELIVERY PROGRAM:



**ROTRAC E2**  
Shunting capacity up to 250 t



**ROTRAC E4**  
Shunting capacity up to 500 t



**UNIMOG**  
Shunting capacity up to 1000 t

