

# RTE Robot

## Chassis - Model 2022



### Description

The RTE Robot (Rosenbauer Technical Equipment) is a radio remote-controlled, electrically powered multi-functional crawler vehicle. It is available in two widths, 800 mm or 1070 mm. It combines compact dimensions, high payload and unique modularity. This makes it an indispensable helper for all rescue organizations.

### Advantages

#### Multifunctional

- Quick and easy change between payload modules via standardized interface

#### Developed for firefighting use

- Suitable for the most adverse environmental conditions up to temporary submersion of the chassis
- Good maneuverability
- Good off-road performance
- Suitable max. speed of 5 km/h

#### Firefighting payloads

- Standardized payload with a dimension of 800 x 1.200 mm or 800 x 540 mm - possible payloads analog to mobile equipment carriers
- Transport of mobile equipment carriers
- Payload modules with electronically controlled turrets (RM 15C or RM 35C)

#### Alternative chassis width 1,070 mm

- Greater stability when transporting heavy loads with a high center of gravity off-road
- Transport of compatible roll containers on fixed rails in optimum center of gravity position

#### Compact Design

- Length 1.200 mm
- Width 800 mm / 1.070 mm
- Height 360 mm

#### Lightweight Design, high payload

- Weight for basic version approx. 375 kg / 385 kg
- Payload approx. 625 kg / 615 kg
- Max. total weight 1.000 kg

#### Easy to control

- Industrial wireless remote control
- One-hand operation
- Optional 3,5" display for showing the live stream of a camera mounted on a payload module

#### Light and horn

- Fully-integrated LED front light
- Flashing blue light
- Acoustic warning device

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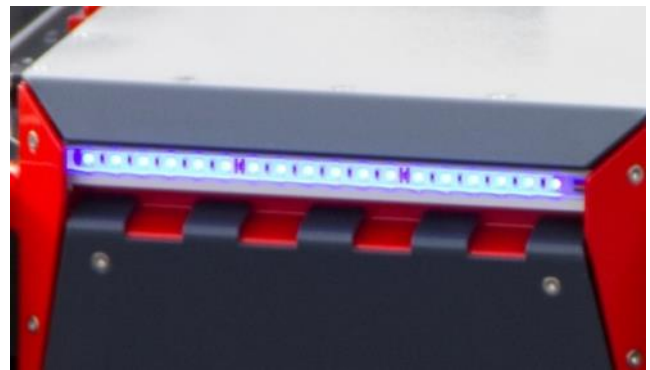
Powerful 48V electric drives for chains



Rubber chains with 150 mm width for good traction



Integrated LED light at the front



Additionally blue light—integrated in the front light

## Remote Control



T3 with 1 joystick - for Robot chassis



T3 with 2 joysticks - for Robot chassis and f.e. turret



T5 with 2 joysticks and 3,5" display



Video feedback

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### Payload locking system

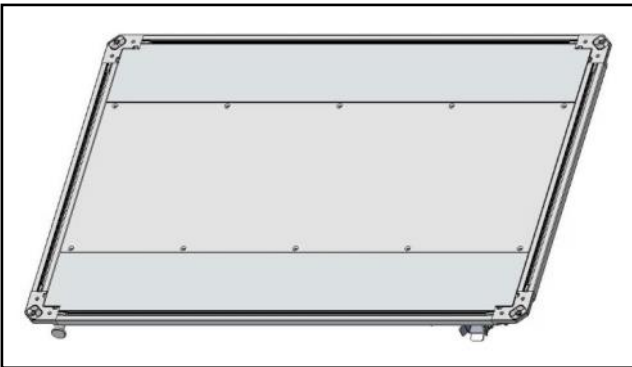


Locking system locked



Locking system unlocked

### Payloads modules



CC81A - payload module 800 x 1200 mm



CC81A - payload module grid box



CC81G - module RM15C (up to 2.000 l/min at 10 bar)



CC81J - module RM35C (up to 3.800 l/min at 10 bar)



CC81E - transport roller container (high position)



For chassis 1070 - transport roller container (low position position)

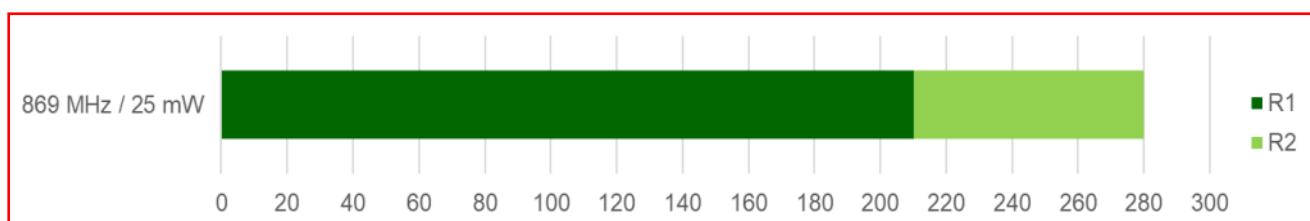
### Technical data

	Version 800	Version 1070
<b>Dimensions</b>	<ul style="list-style-type: none"> <li>▪ Length 1.200 mm</li> <li>▪ Width 800 mm</li> <li>▪ Height approx. 360 mm</li> </ul>	<ul style="list-style-type: none"> <li>▪ Length 1.200 mm</li> <li>▪ Width 1.070 mm</li> <li>▪ Height approx. 360 mm</li> </ul>
<b>Weight</b>	approx. 375 kg for the basic version	approx. 385 kg for the basic version
<b>Total weight</b>	1.000 kg	
<b>Chassis</b>	<ul style="list-style-type: none"> <li>▪ Width of rubber chains: 150 mm</li> <li>▪ Ground clearance: approx. 80 mm</li> </ul>	
<b>Motors</b>	<ul style="list-style-type: none"> <li>▪ 2x 48 V electric motors</li> <li>▪ 1,38 kW continuous power</li> </ul>	
<b>Batteries</b>	<ul style="list-style-type: none"> <li>▪ 4x 12V AGM batteries</li> <li>▪ 80 Ah per battery</li> </ul>	
<b>Wireless remote control</b>	<ul style="list-style-type: none"> <li>▪ Industrial radio remote control with robust housing</li> <li>▪ Radio frequency and transmission power depending on legal conditions in the target country</li> <li>▪ Variants T3 with one or 2 joysticks or T5 with 2 joysticks and 3.5" display</li> <li>▪ Video transmission is separate system-see separate data sheet</li> </ul>	
<b>Protection class</b>	<ul style="list-style-type: none"> <li>▪ Suitability for the most adverse environmental conditions up to temporary submersion of the chassis. <ul style="list-style-type: none"> <li>▪ Protection class of the drive motors IP69K</li> <li>▪ Protection of the electronics compartment in reference to IP67</li> </ul> </li> </ul>	
<b>Speed</b>	<ul style="list-style-type: none"> <li>▪ Stepless adjustable</li> <li>▪ max. 5 km/h</li> </ul>	
<b>Obstacle clearance</b>	> 20 cm - depending on total weight, center of gravity and surface	
<b>Slope</b>	> 50% (26°) - depending on total weight, center of gravity and surface	
<b>Slide-Slope</b>	> 70% (35°) - depending on total weight, center of gravity and surface	

#### Definition of range of remote control:

- R1: Distance without any signal losses
- R2: Maximum distance with single signal losses, but re-connection still possible

Tested with RTE robot chassis 800 and module RM15C under defined conditions, on free field, under good weather conditions, without major electromagnetic interferences.  
Different conditions can lead to reduced ranges of the remote control!



### Contact

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