

Concept Fire Truck - CFT



**20 x brighter
than conventional
lighting systems**

Scene Lighting

- > Integrated high performance and shadowless LED surround illumination
- > Extreme light intensity
- > Shadowless illumination
- > No lightmast required, but optionally available
- > Curve lights
- > Integrated warning lights



Electric drive

- > 350 kW/475 hp electrical power
- > 30 min electrical operation
- > Range Extender for unlimited operation
- > Zero/Low Emissions
- > Reduced Noise Levels

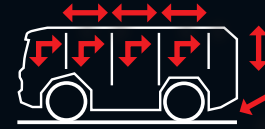
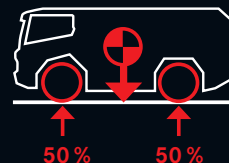
Fully connected

- > WLAN access point
- > Wireless command operation panel
- > EMEREC Data Center
- > Background Assistance
- > Operational Support via Drone



Driving dynamics

- > Fast Acceleration
- > All-Wheel Drive
- > Low center of gravity
- > Optimal load distribution



Flexible Design

- > Flexible vehicle architecture with customization of all modules
- > More compartment space
- > Various water and foam tank sizes
- > Various pump and foam mixing configurations
- > Variable rear compartment options
- > Multi-purpose crew cab



Lifting Capacity
up to 2 t

Manipulation system

- > Lifting platform at the rear end
- > Containers with heavy tools to be transported to the scene of the emergency
- > Simple manipulations system for roof equipment (roof ladder and roof box)

Driving Safety

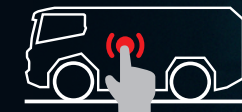
- > Safety cell
- > Electronic mirror system
- > Rear cameras
- > ESP in 4x4 drive mode
- > Rollover protection
- > Driver warning system
- > Force feedback system in driver seat



- Blind Spot Detection
- Object Detection/Identification
- Less impeded field of vision

Simple Operation

- > Intuitive Touch Screens
- > Focus on Main Functions
- > One Button Operation
- > Driver Control Panel
- > Commander Control Panel
- > Main Control Panel serves as Crew Info Screen
- > Individualization





Designed and developed for the fire departments of tomorrow!

Innovative CFT technology in response to fire fighting megatrends.

Safety, ergonomics, and easy operation - created for the toughest jobs.





Cockpit

- > Turnable driver and commander seat
- > Conference seat configuration for improved communication
- > Main screen as central info point

Outstanding Ergonomics

- > Expected development of grip heights
- > All equipment can be reached from the ground
- > Initial assault equipment in the crew cab

Adjustable ground clearance

- > On-road mode 10 in.
- > Vehicle can be lowered down to 6 in. ground clearance
- > Comfortable access for driver and crew
- > Increased off-road ground clearance 21 in.



Mode
ON-ROAD

Ground clearance
10 in.



Mode
OPERATIONS

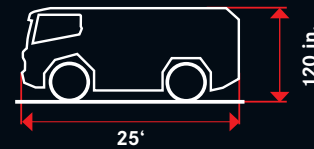
Ground clearance
6 in.



Mode
OFF-ROAD

Ground clearance
21 in.

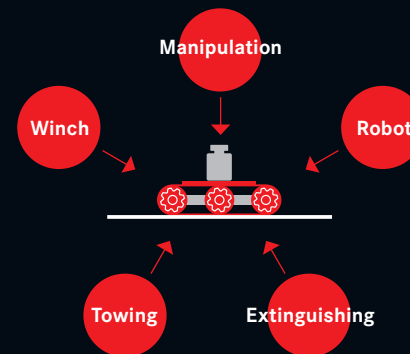
Narrow Dimensions (in.)



Narrow sliding doors
6 in.

Tracked manipulator

- > Remote controlled
- > Live load 1600 lbs.
- > Easy manipulations of containers
- > Multifunctional



Agility

- > Small turning circle
- > All-wheel steering
- > Crab steering



Rosenbauer Extinguishing Systems

- > 264 gallon water tank
- > NH35 Rosenbauer pump
- > Optional Rosenbauer Foam proportioning systems



The uniqueness of the Concept Fire Truck (CFT).

Ergonomics

- > Optimized Ergonomics
- > Low removal heights
- > Low entry heights
- > Headroom
- > Lowerable chassis
- > Ladder and roof box lowering device

Driving Performance

- > Permanent All-Wheel Drive
- > Dynamic acceleration
- > Low center of gravity
- > Optimal weight distribution (50/50)
- > High curve velocity
- > ESP with all-wheel drive
- > Hight adjustable chassis

Operation

- > Special emergency driver workspace
- > Commander & Driver Cockpits
- > Large central screen
- > Simple Operation (ONE Button Operation)
- > Remote control of vehicle functions
- > Tablet with integrated EMEREC application
- > Assistance function (integrated Service4Fire)

Agility

- > Compact Dimensions
- > 93 in. width
- > Steered Rear Axle
- > Small turning circle (<40 ft)
- > Sliding doors

Safety

- > Safety cell
- > Seat arrangement in the cabin
- > Electronic rear view mirror with increased field of vision
- > Driving assistance systems
- > Force Feedback System in the driver's seat
- > Rear cameras
- > Object recognition

Communication

- > Team Cockpit – enhances optimal (non-verbal) communication
- > Good noise insulation in the cabin
- > Side indication - external graphic displays
- > Networked vehicle (WLAN Access Point)

Light

- > Integrated scene lighting
- > High light intensity
- > Cornering light

Operational Suitability

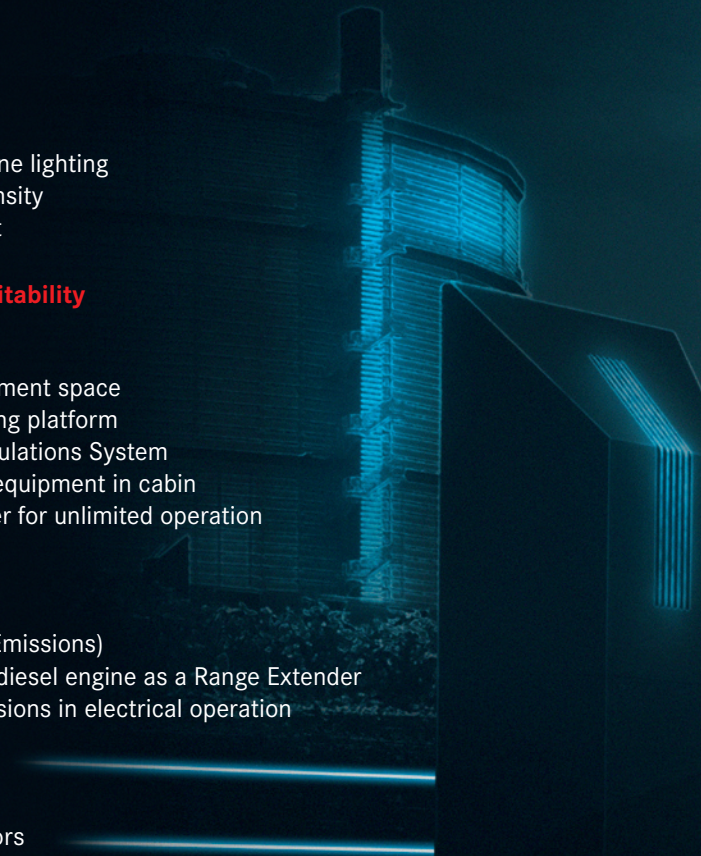
- > High payload
- > More compartment space
- > Integrated lifting platform
- > Flexible Manipulations System
- > Initial assault equipment in cabin
- > Range Extender for unlimited operation

Emissions

- > E-Drive (Zero Emissions)
- > Low emission diesel engine as a Range Extender
- > No noise emissions in electrical operation

Service

- > Status indicators
- > Remote diagnostics
- > Integrated operation manual
- > Integrated service manual
- > Guided operation
- > Digital operation report



The electric drive enables a unique vehicle architecture and supports a clean environment.



Rosenbauer conceives the future - today.

