

Airfield Fire Safety Truck

FT-240

The FT-240 comes fully-equipped for airport firefighting and rescue. It is a fast and reliable way to control emergencies on the airfield using Water, Foam or Powder.

This Mercedes Benz ACTROS 3360 6 x 6 chassis includes intelligent maintenance system, twin-engine and left-hand drive

Highlights

Anti-lock braking system (ABS), Anti-slip control system (ASR), engine brake, disc brake on front axle, disc brake on rear axle, asbestos friction plate for brake, heating-type air dryer
 In times of emergency, the fire pump can be used while the vehicle is in operation to spray water, foam or powder.



Dimensions

Overall Dimensions(LxWxH).....	10,050mm x 2,500mm x 3,700mm
Acceleration (at full load).....	0 mph - 80mph in 35 sec
Minimum ground clearance.....	Front 364mm, Rear 347mm
Minimum Turning diameter.....	20.3 m
Departure angle.....	27,000 kg
Total mass (fully-loaded).....	130 mm
Wheelbase.....	4,500mm + 1,350 mm
Front Axle load capacity.....	9,000 kg
Rear Axle Load Capacity.....	2 x 9,000 kg
Maximun Speed	110 km/h

All operation switches, meters and instrument rack and vehicles should have qualified nameplates. The Quality of liquid tank should meet the standards in GA39.5-92. The quality of the whole vehicle should meet the standards in G. A39.4-92. All riveting should keep a certain density and all welding should be firm, smooth and flat.

Electrical System

Long-row warning lamp is installed in front of the compartment's roof (at top of cab). And at the rear, there is one red warning lamp (at the top of rear storage compartment) and output power of siren is 100W. At rear of vehicle top, there is one 24V 60W lighting lamp on both sides. Two 24V 60W spotlights, which can reciprocating rotate and do pitching, are mounted on the fire monitor on the vehicle roof. Safety 10 identification lamp is set underneath and meets the requirement of GB4785.

Included: Generator 28V/150A, maintenance-free 2x12V/220AH storage battery, single-tone electric horn, manual main switch for storage battery

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Chassis Specifications

Engine Manufacturer/ Make.....Daimler AG (Germany)/ Mercedes-Benz
 Outline (L x W x H).....9,190 mm x 2,500 mm x 3,720 mm
 Model/ Driving Type.....ACTROS 3360 (OM502 LA)/ 6 x 6 / L type (long)
 Chassis Weight (approx)..... 10,500 kg
 Rated Power..... 441 kW (600hp)
 Front/rear Overhang.....1,440mm /1,900 mm

Chassis Beam: U-type longitudinal beam, and high-strength steel frame made of E500TM materials. The yield point is 500N/mm², and the thickness is 9.5mm.

Drivers' Cabin

Mercedes Benz Actros L cabin, two doors, three seats including driver, comfortable air-spring driver's seat, automatic temperature-controlled air conditioner system, radio+CD, electric rearview mirrors on both sides, electric wide-angle mirror on both sides, electric lower-view mirrors on right side and right-front side, etc.

Engine

Displacement:.....15.928L
 Maximum Torque.....1080rpm could reach maximum torque 2700nm

Other Engine Specifications: V-type, 8 cylinders, in-line, turbine supercharging, intercooled, electric diesel engine. There are Mercedes Benz Injection System (1800bar pressure), Telligent® Management and Maintenance systems for engine.

Transmission: Automatic gearbox (G240-16) Ratio (16 forward gears and 2 reverse gears), Shift Type: Mercedes Benz Telligent® smart shift system.

Tire and Rim Requirements

Manufacturer.....Michelin Group
 Front:.....365/85 R20 Michelin off-road tires, 2pcs
 Rear.....365/85 R20 Michelin off-road tires, 4pcs
 Rim10.00-20
 Spare Tire.....1pc 365/85 R20 Michelin off-road tire with rim

Intelligent Maintenance System:

Automatic detection and fault diagnosis system, exible service reminder system without xed maintenance, 14 days in advance to prompt the warranty period, maintenance and inspection auxiliary judgment.

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Fire Safety Specifications:

Fire Pump Engine:

Manufacturer/ Model.....Cummins Engine Co. Ltd./ Cummins L360 20
 Power.....264kw/ 2,200rpm
 Torque.....1480N m/1400rpm

Fire Pump:

Flow Rate.....6000 L/min. at 1.03MPa, 3000L/min. at 1.72MPa
 Suction height..... 7 m
 Priming time.....less than 40 s
 Mounting type.....middle-mounted
 Pump material.....stainless steel

Priming type: prime water by full-automatic intelligent vacuum pump

Piping system

- Inner Inlet: One 150mm rear water inlet from tank to pump. With one Φ 150mm butterfly valve connected with water tank and pump
 - One 150mm suction orifices are mounted on both sides of the pump room.
 - One Φ 80mm & Φ 65mm outlets with valves on both sides of the pump room.
 - One 150mm monitor pipe controlled by pneumatic butterfly valves.
 - One Φ 80mm inner inlet. There are two Φ 80mm outer inlets on both sides of the truck.
- 4.4.5 Drain pipeline:
 In order to protect water pump and ball valves, drain ball valve is mounted in the pipeline.

Cooling pipes: There are cooling pipes and stainless steel ball valves to protect PTO in complicated situation.

Foam pipes: Foam pipes are stainless steel laying in the tank, and there are an external foam pipettes and clear connector in outward of vehicle.

Top Monitor

Brand/Model:.....POK/ PLC6000
 Flow Rate.....5000L/min (high-speed)
 Shot Range..... \geq 75m (water), \geq 70m (water / foam mixture)
 Horizontal rotation angle:340 °
 Pitch angle:..... -15 ° to +70 °
 Control:Joystick and LCD touch screen in cabin (monitor work status) .
 Attachment:Installed two 35W condenser Searchlights.
 Mounting position:front compartment.

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Front Fire Monitor

Brand/Model:.....EIKHART/ 8494/5000-24 (electric)
Flow Rate..... $\geq 1100\text{L}/\text{min}$
Shot Range..... $\geq 60\text{m}$ (DC wind conditions)
Horizontal rotation angle: $\pm 90^\circ$
Pitch angle:..... -20° to $+45^\circ$
Injection:Straight stream, spray
Control mode:Remote control joystick in the cab
Mounting position:in front bumper

Underbody Spray Self-protection

- Installation location: the front of the chassis, front and rear axles
- Installation: 4 sprinklers in the front of chassis; 1 sprinkler in the left and right side of front Axle; 2 sprinklers in the left and right side of rear Axle; There are two sprinklers between the front axle and the rear axle, 14 sprinklers in total.
- Flow rate: front sprinkler: $\geq 60\text{L}/\text{min}$; other sprinkler: $\geq 20\text{L}/\text{min}$
- Control: Control in cabin.

Liquid Tank

- 10,000L water / 1,000L foam (at full capacity)
- Standard: GA39.5-92
- Material: PP composite materials, corrosion resistance
- Structure: Frame welded, with vertical, horizontal anti-swing plate, elastic connection with the body.

Equipment:

- 2 entrance hole with quick opening and locking devices
- 2 relief valve device
- 2 stainless steel liquid level indicator
- 2 drain outlet with ball valves
- 4 outer inlet of $\Phi 80\text{mm}$
- 1 inner inlet of $\Phi 80\text{mm}$
- 1 $\Phi 150\text{mm}$ rear inlet pipe connecting tank and pump

Note: There is middle groove structure in tank, and equipped with an overflow pipe, vent valve for easy cleaning.

Painting

- Exterior Color: Meet GB/T3181 standard of R03 red in GB7258 regulation.
- Body painting: Use imported red varnish on the surface of compartment.

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Storage Compartment and Pump Room

• Material: Outer framework is high-quality steel and inner framework adopts aluminum alloy proximate material. Covering is aluminum diamond plate (Anodic oxidation Treatment).

- Outer Structure: steel jointing outer structure
- Inner framework: aluminum alloy proximate material related joint structure.

Note: Space is adjustable. Inner framework is firm and reliable to ensure intensity and rigidity. Covering is adhered by imported high strength glue for air (without rivet). Design reasonably and increase space to store equipment. Equipment space is separated by partition and this space is adjustable. Adopt sliding tray, suspension frame, slip drawer and rotary open frame in proper position to assure convenient use of equipment.

- Put three brackets of air atmosphere in the storage compartment. For the components which should be inspected in the compartment, there should be valve in proper position. And other places which need inner inspection and maintenance should open or have mobile board.
- Roller Shutter: All storage compartment and pump room adopt roller shutter with lock. Handhold and lock are firm and durable and not easy to distort. Seal performance passed water drenching test. In every storage compartment, there is lighting lamp which is controlled by the open and close of roller shutter. And these lighting lamps are controlled by concentrative switch in the cab. Guardrail on the roof is column type and column is made of metal.
- On the vehicle roof, there is roll-over stand of sectional ladder. And sectional ladder can be put on the roll-over stand. One person can use it on the ground.

Winding Extinguishing System

- Quantity: 2
- Mounting position: hand-held spray monitor is always connected to hose and equipped in the storage compartment with a fast pull shutter doors.
- Mode of operation: manual
- Diameter: DN25
- Length: 40m
- Piping leading to the reel has a separate switch
- Spraying the mixture of water and foam is available.

Instrument Panel and on-board equipments

- located in pump room
- Equipment included: a tachometer, a vacuum gauge, a water pump's pressure gauge, a lighting switch of storage compartment, two level indicating devices of water tank and foam tank.