



\* Example image

## FIRE-FIGHTING LORRY WITH WATER AND FOAM WITH CAPACITY 4.000 Lt. CAPACITY ON MAN TGM 18.320 4X4

### Utility and advantages:

The MAN TGM 18.320 4x4 4,000 litre fire engine with MAN TGM 18.320 chassis is an ideal vehicle for:

- Access in rough terrain;
- Average transport capacity: 5+1 passengers;
- Quick access and movement in inaccessible places;

### This vehicle is ideal for:

- Hill or mountain areas;
- Urban or rural areas with medium-large population

# 1. TECHNICAL CHARACTERISTICS

## 1. CHASSIS MAN TGM 18.320 4X4

- Double cab: 5+1 seats, with 4 doors, foldable, all seats will be equipped with safety belts as required by law; Diesel engine, engine power 320 hp;
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- Maximum authorised total mass 18.000 kg;
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- Diesel engine;
- Semi-automatic gearbox: 12 + 2 ratios;
- Power socket for operating the pumping unit;
- Traction: 4x4, front axle decouplable, rear axle with twin wheels;
- Maximum speed: min. 100 km/h;
- Air conditioning in the cabin;
- Spare wheel, jack, 2 wheel chocks;
- Minimum 150 litre fuel tank;
- Manual in Romanian.



\* Example image

## 2. SUPERSTRUCTURE FIRE BRIGADE

### • SPECIAL INSTALLATIONS:

The fire-fighting intervention installation consisting of:

- **The water installation, consisting of:** water tank, foam tank, **VOLKAN** pumping unit for low and high pressure, discharge cannon positioned on the roof of the superstructure, suction, connection and discharge pipes.
- **The command and control system is centrally located at the rear of the truck, in a place accessible from the ground, equipped with:** high/low pressure gauge, pressure gauge; water pump speed indicator, engine speed indicator, analogue water temperature indicator in the pump, analogue water and foam level indicator, engine throttle control.
- **Acoustic and optical warning installation, consisting of a** ramp of lights, mounted on the cab, warning lights positioned on the cab bonnet, sides and rear of the superstructure and separate acoustic warning installation. The ramp lights and warning lights shall be controlled by a switch mounted in the cab and shall be protected by a protective grille.

### • FIRE-FIGHTING INTERVENTION INSTALLATION

1. **VOLKAN pumping aggregate** located at the rear, with automatic priming device, with two pressure stages, as follows:

- **Low pressure stage** with the following nominal parameters: flow 3000 l/min at 8-10 bar;
- **High pressure stage** with the following nominal parameters: min. flow 250 l/min at 35-40 bar.

- **Automatic priming device** which is an integral part of the pumping unit.
- **Foaming agent dosing system** with supply from the tank of the lorry and from external unpressurised sources.

## 2. Inlet and outlet manifolds

- **The inlet (suction) manifold** shall contain a type A suction pipe for the supply of water from unpressurised natural sources and a connecting pipe between the suction manifold and the water tank, necessary for the supply of water to the pumping unit in the water tank, fitted with an isolating valve with automatic pneumatic actuation.
- The low-pressure stage **discharge manifold** shall consist of two type B and two type C discharge pipes, a pipe for filling the water tank by means of the fire-fighting pump, a discharge pipe for the discharge gun on the superstructure.

## 3. The high-pressure stage delivery system comprises 2 drums with 30 ml high-pressure hose and a high-pressure jet/spray delivery device pre-mounted on the drum hose.

### • WATER/FOAM TANKS

- **The water tank** is fitted with a wave breaker and is equipped with a pre-seal pipe and a removable manhole cover to allow access for maintenance. The water tank shall be made of stainless steel or glass fibre reinforced polyester with a capacity of approx. 4,000 litres.
- **Foam tank** made of stainless steel or fibreglass-reinforced polyester with a capacity of approx. 200 litres.

### • WATER AND FOAM CANNON

- **Water and foam cannon** with electric or manual actuation located on the superstructure roof.

### • SUPERSTRUCTURE

- The body structure will be made of rectangular steel sections, the partition walls will be made of glass fibre reinforced polyester monobloc.
- The superstructure compartments can be closed with anodised aluminium blinds with Key locks.

### • MARKING AND LABELLING

- The superstructure will be painted in RAL 3000 red colour, will be coloured and labelled according to customer specifications.

- **Telescopic lighting pole FIRECO**

- It will be part of the vehicle's fastening. The place and method of installation will be specified in the offer.
- Fully electro-pneumatically operated.
- Controlled electrically by remote control with cable; the power supply will be taken from the vehicle's electrical system.
- Telescopic pole cylinders made of anodised aluminium.
- 360° vertical lamp rotation.
- Horizontal lamp swivelling 315°.
- 2 (two) LED lamps/projectors, min 15.000 lumens/lamp, cool white light, with protection system against accidental knocks. The power supply of the projectors shall be provided by the (electrical) installation of the vehicle, through a current inverter or another solution chosen by the manufacturer depending on the LED lamps/ projectors.
- Working height measured from the ground: minimum 5.000 mm.
- Automatic return to transport position.