

FIRE FIGHTING VEHICLE — TANKER

VP 7000 / 200

Technical specification number



A photo of a similar vehicle

PURPOSE OF THE VEHICLE

The fire rescue vehicle for extinguishing fires with water and foam, according to its construction and equipment, belongs to the group of tank trucks that are used to supply water to naval vehicles as well as fire extinguishing interventions. The vehicle allows extinguishing fires of solid combustible materials (class "A" fires), fires of highly flammable liquids (class "B" fires) and gases (class "C" fires). The vehicle is equipped with fire extinguishers, a pump, water, and foam tanks and fire rescue equipment.

CHASSIS

- Brand and type: **Renault D 18 HIGH 4X2 R 280 E6**

The chassis is supplied with original factory parts, homologized, year of production 2026. The chassis is new, i.e. unused.

New fire truck 4x2 vehicle, unused, the year of production 2026 single cab.

The under carriage is supplied with original factory parts and assemblies, homologized

Engine: Diesel, four-stroke, turbo

Exhaust gas control: Euro 6

Engine power: 210 kW; Engine torque 1071 Nm.

Fuel type: Euro Diesel

Transmission: automatic 8+1 speed.

Characteristics of the vehicle undercarriage

Permitted vehicle weight: 11,500 kg for rear (power) axle and 7.100 kg for front axle

Wheelbase: 3800 mm

The steering wheel on the left side, power steering. Multifunctional power steering. Adjustable.

Voltage of the electrical installation of the vehicle: U=24 V

Drive, suspension and braking system

Drive configuration: 4x2

Rear axle: drive with differential lock

Front and rear suspension: leaf springs

Engine brake: Yes

Cabin space

3 seats

2 doors

Color: Red RAL 3000

Switching on the pump from the cabin: Yes

Reversing lights

GPS with an integrated map of Europe

TETRA radio station on the vehicle

Other equipment on the vehicle

Tools, a crane

A set of accompanying tools

Spare wheel kit

Parking wedges

Connection for maintaining air pressure in the system

Elements of additional equipment:

hauling connection on the front bumper

air conditioning

pneumatic suspension of the driver's seat

front fog lights

sound signal when driving backwards
electrically adjustable rearview mirrors with a heater
rearview mirror for curbs on the passenger side
electric windows
Central lock, remote unlocking
rearview camera with display
voltage converter in the cabin 24V to 12V

SUPERSTRUCTURE

The water tank with a volume of 7000 liters, supported by elastic supports.

Around the tank there is a paneling in the color of the vehicle.

The construction is made of aluminum profiles and aluminum sheet.

There are 4 side compartments and one at the back with roller doors and with protection against external influences and external locking in accordance with EN 1846-2.

The equipment in the compartments is fixed. Built-in mobile storage shelves, boxes, and panels are additionally secured against slipping and have additional locking mechanism in order to prevent movement during the drive.

Access to the equipment is in accordance with EN 1846-2.

The upper part of the superstructure is coated with anti-slip material. The equipment on the upper part of the superstructure is fixed and protected.

Light signaling is protected on the roof of vehicle. A light console with flashing blue lights with multiple modules is installed on the upper part of the vehicle. The modules are installed on the front and rear of the vehicle. There are two flashing blue lights on the left and right side of the vehicle and two lights in the hood on the front of the vehicle.

Light signaling is homologized in accordance with the regulations in the Republic of Serbia.

Sound signaling with a multiple tones 100W wailing siren with loudspeaker is installed. A microphone is built into the cabin.

Brackets for ladders, hooks, and brooms are placed on the upper part of the superstructure.

The ladder complies with EN 1846-2.

Superstructure lighting complies with EN 1846-2 with manual activation; external and internal lighting.

Halogen reflector on the front right side of the vehicle. Possibility for controlling the reflector from the cabin. Variable vertical and horizontal beam angle full 360 degree rotation and ± 90 degree elevation

Power 70W and with 24 V voltage installation

WATER TANK

The volume of the water tank is 7000 liters ($\pm 5\%$) and is supported by the auxiliary frame and elastic supports, which prevent torsional twisting on the main supporting frame. The tank is placed transversely in relation to the chassis - the auxiliary chassis of the vehicle. The tank is made of high-quality stainless steel and has baffles to prevent water sloshing..

The water tank has:

- 500 mm diameter inspection cover, placed at the top, opening from the upper part of the superstructure.
- Connection for supplying the pump with water $\varnothing$ 110 mm
- On the side, a connection for filling the tank with water from a hydrant $\varnothing$ 75 mm
- Drainage connection for water discharge $\varnothing$ 52 mm on the lowest part of the tank with ball valve
- Overflow system and an air vent
- Electric water level gauge

The tank has a guarantee of 10 years in operation. Chlorine must not be poured into the tank.

FOAM TANK

The foam tank with a volume of 200 liters ($\pm 5\%$) is made of plastic material (GFK), square in shape. It is supplied with an opening for pouring foam at the top of the tank, a vent for overpressure and vacuum, an electric level gauge and connections for the installation of a system for mixing water and foam. The outlet connector for the pump mixer is $\varnothing$ 25 mm in diameter. The foam drainage connector is $\varnothing$ 25 mm.

FIRE PUMP

The combined medium- and high-pressure fire pump is located in a storage compartment at the rear of the vehicle and is fixed to the supporting frame of the superstructure. It is made in accordance with EN 1028

The pump is made of quality light aluminum alloy, and the shaft is made of stainless steel.

The drive of the pump is obtained through the cardan shaft from the auxiliary drive on the transmission (PTO), which enables long-term operation of the pump.

For suction from external sources, the pump is equipped with a vacuum device.

- Manufacturer (Brand): Jöhstadt, Germany
 - Type: Centrifugal
 - Designation: TO 3001
 - Nominal pump capacity: 2000 l/min at 10 bar, 3 m suction height
- High pressure: 250 l/min at 40 bar

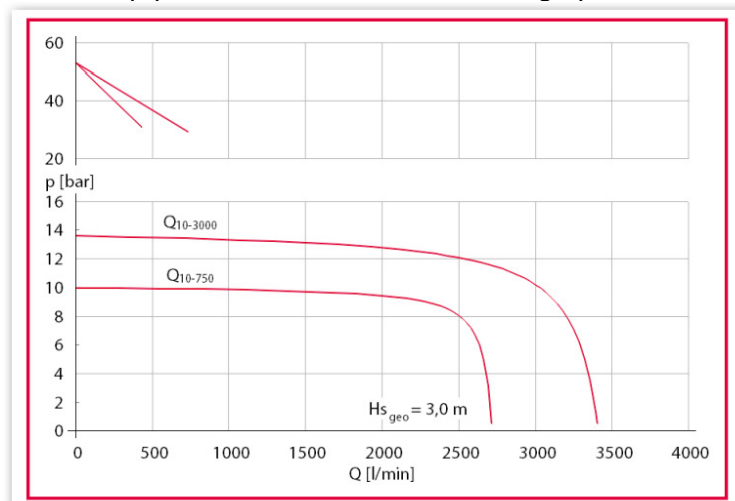
The pump is equipped with an automatic pre-mixer that enables dosing in all pump operating ranges from 1% to 6%, regardless of the consumer. The installation enables the foam to be withdrawn from the outer vessel.

Pump Jöhstadt TO 3001



The pump has the possibility of simultaneous operation in medium and high-pressure mode as well as operation during vehicle movement (at lower speed).

Pump performance - medium and high pressure



The pump is supplied with the following connectors:

- 2 outlets with pressure check valves with a diameter of 75 mm from the back of the vehicle (left and right of the pump),
- 1 connection with butterfly valve diameter 75 mm for monitor - cannon,
- 1 connection with a diameter of 32 mm for a medium pressure hose reel.
- 1 connection with a diameter of 25 mm for a high pressure hose reel.
- 1 connection for suction with a diameter of 110 mm
- Vacuum priming system

3.4 CONTROL INSTRUMENT PANEL

Waterproof IP65 with manual on/off of all functions via switch. It is positioned in the rear part of the superstructure.

Commands and Instruments:

- command for turning on the medium and high pressure hose reel
- the command to turn on the vacuum device
- return line
- valve for releasing water from the tank to the pump
- premixer
- medium pressure manometer
- high pressure manometer
- manovacuumeter
- working hours counter
- water level indicator in the tank
- foam level indicator in the tank
- Regulation of the pump speed.
- STOP switch
- All labels are in Serbian language.

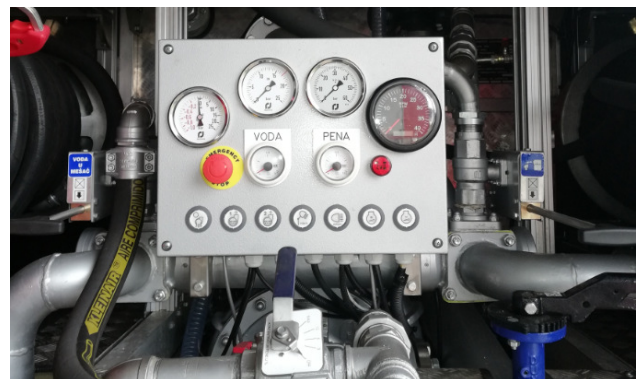
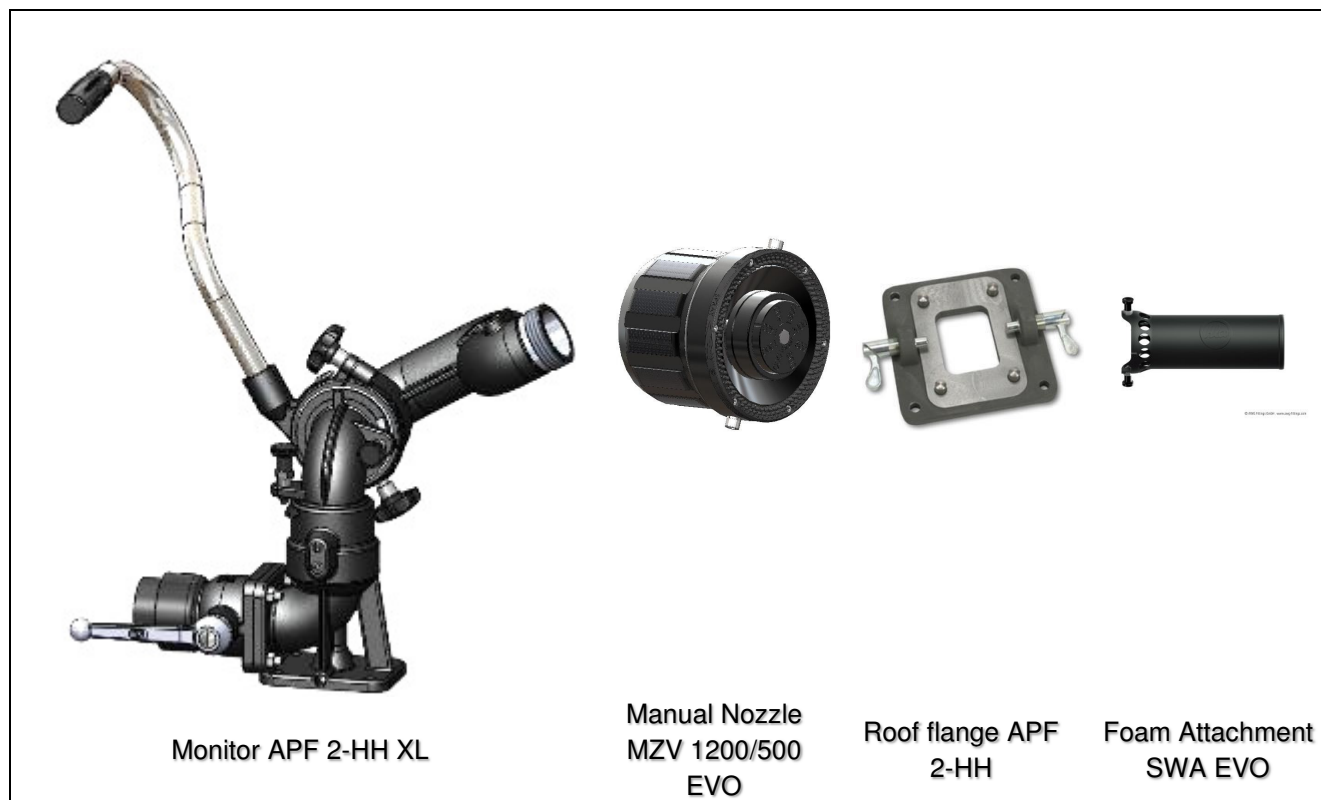


Photo of control instrument panel

MONITOR NOZZLE

Monitor Alco Nr. 31476238 Ø75 mm, water + foam with flow of 2000 lit/min at 8 bar with monitor nozzle Alco MZV 1200/500 EVO Nr. 31474540 is positioned on the roof of the superstructure and can be operated manually. For safer driving, it is easy to mount and dismount, with the requirement that this operation can be performed by a single person, Roof Flange Nr. 800 625 34. When not in use, the monitor nozzle is securely stored on the roof of the superstructure and is delivered with a foam extension, Alco Schaumaufsatz SWA EVO Nr. 31468299, one piece.



Technical characteristics:

- water capacity with adjustable flow nozzle: $Q = 2000 \text{ l/min}$ at 8 bar

Water installation

Water installation is made of stainless steel pipes protected from the outside by painting.

Suction line:

- Ø 110 mm, for external water withdrawal, with stable and blind Storz "A" couplings,
- Suction line Ø 110 mm with gate valve for supplying water from the tank to the pump.

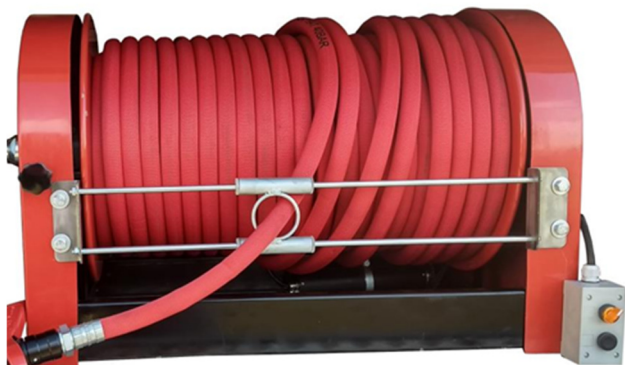
Delivery line:

- two outputs with Ø 75mm connectors and with stable and blind Storz "B" couplings,
- one outlet for medium pressure hose reel,
- one outlet for a high-pressure hose reel,
- return line for delivery relief,
- premixer line,
- pipe for circular pump operation
- self-protection system protection line

Hose reels

Medium pressure hose reel

Medium pressure reel Vatrosprem proizvodnja doo: Reinforced rubber hose VITILLO, Nr. TH1SN20 according to DIN EN 853, length 25 m, Ø32.5 mm, with pistol nozzle POK Turbokador 240 Nr. 28643. Manual and electric hose reeling with safety brake, one piece.



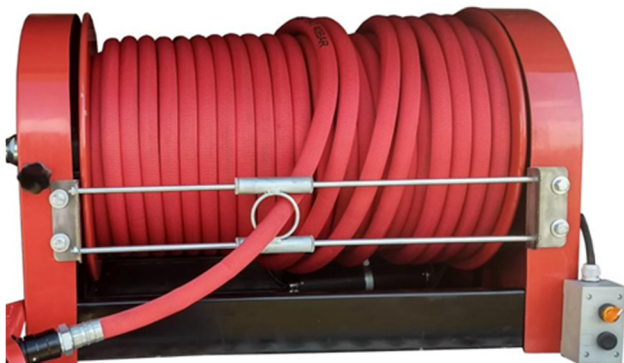
Medium pressure hose reel



POK Turbokador 240

High pressure hose reel

High pressure reel Vatrosprem proizvodnja doo, Reinforced rubber hose according to DIN EN 853 VITILLO Nr. TH1SN16, length 60 m, Ø25 mm, with pistol nozzle and quick coupling AWG Turbo Strike 150HP, Nr. 11208033. Manual and electric hose reeling with safety brake, one piece



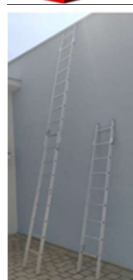
High pressure hose reel



AWG Turbo Strike 150 HP

4. FIRE RESCUE EQUIPMENT

Nr	TYPE OF EQUIPMENT	Piece	Offered
1.	First aid kit SRPS Z.B2.001, Galenika, one piece	1 pc	
2.	Manual fire extinguisher filled with ABC powder of 9 kg (S-9) Vatrosprem Nr. 4.1.05.00.000 (2 pieces)	2 pcs	
3.	Adapter coupling JMW Fire: Nr. 1010507 A/B forged (2 pieces)	2 pcs	
4.	Adapter coupling JMW Fire: Nr. 1010506 B/C forged (2 pieces)	2 pcs	
5.	Adapter coupling JMW Fire: Nr. 1010502 C/D forged (2 pieces)	2 pcs	
6.	Universal water nozzle Ø52 mm with ergonomic hand grip, ball valve handle and turbine POK Turbokador 400 Flow rate 60-130-250-400 lit/min at 6 bars Nr. 49930. at 6 bars in accordance with EN 15182 (3 pieces)	3 pcs	
7.	Plastic foam container Metaplast 25 lit, one piece.	1 pc	
8.	Delivery hoses OSW Fire Ø25 mm, length 20 m, with holders. In accordance with the DIN 14811 standard, with forged couplings type STORZ (4 pieces)	4 pcs	

9.	Delivery hoses OSW Fire Ø75 mm, length 15 m, with holders. In accordance with the DIN 14811 standard, with forged couplings type STORZ. (8 pieces)	8 pcs	
10.	Delivery hoses OSW Fire Ø52 mm, length 15 m, with holders. In accordance with the DIN 14811 standard, with forged couplings type STORZ (10 pieces)	10 pcs	
11.	Universal key ABC for Storz couplings, JMW Fire Nr. 1052101 one piece.	1 pc	
12.	Universal key for pillar type hydrant, JMW Fire Nr. 1017007, one piece.	1 pc	
13.	Line foam inductor POK MIXY EDUCTOR Nr. 40924.C52, 200 lit./min. With a flexible hose and a connector for the foam suction extract POK Nr. 40894, 1.5 m. According to std. EN16712-1, one piece	1 pc	
14.	Aluminium section ladders Pramoal doo three-part assembly ladder, total length 7.1 m., one piece	1set	
15.	Medium foam nozzle JMW Fire Q13 Nr. 1013005, 200 lit/min., one piece	1 pc	
16.	Heavy foam nozzle JMW Fire S2 Nr. 1012508, 200 lit/min., one piece	1 pc	

17.	Collecting breaching JMW Fire Nr. 1051936, A/2B, one piece	1 pc _	
18.	Dividing breaching AWG Nr. 10048733, B/CBC with ball valve according to EN17407, one piece	1 pc	
19.	Blank cap coupling JMW Fire Nr. 1010404, Ø52 mm, one piece	1 pc	
20.	Blank cap coupling JMW Fire Nr. 1010406, Ø75 mm, one piece	1 pc	
21.	Suction basket JMW Fire Nr. 1051906, Ø110 mm, one piece	1 pc	
22.	Suction hose JMW Fire Ø110 mm, length 1.6 m, (4 pieces)	4 pcs	
23.	Rope with a pouch Dönges Nr.212610, for the suction line, Ø10 mm (2 pieces)	2 pcs	
24.	Hydrant standpipe JMW Fire Nr. 1014005, B/CC, one piece	1 pc	
25.	Key - T for underground hydrant with replaceable nut, JMW Fire Nr. 1017001, one piece.	1 pc	

26.	Shovel 1.5 m long, Dönges Nr. 210515, one piece.	1 pc	
27.	Universal water nozzle JMW Fire Nr. 1012507, Ø75 mm with ball valve. The possibility of varying the jet from full to spray, as well as the possibility of interrupting the flow of water. According to std. DIN14365 (2 pieces)	2	
28.	Jet reaction compensator JMW Fire Nr. 1051989, Ø75, one piece	1	
29.	Water nozzle AWG Nr. 30095333, Ø25 mm with ball valve. The possibility of varying from full jet to spray. According to EN15182 (2 pieces)	2	

NOTE

The vehicle complies with the standard: SRPS-EN 1846-2

Fire protection production has an implemented system: SRPS ISO 9001:2015

After the fully formed specialized vehicle will be submitted, from an accredited laboratory, a Report on the testing and control of the vehicle according to the current SPRS EN 1846 standard for testing and controlling safety, controlling the completeness and functionality (functional compliance) of the basic and installed equipment with a positive report.

All the documentation necessary for the registration of the completed vehicle will be provided in accordance with the applicable legal regulations in the Republic of Serbia, including the Certificate of the Agency for Traffic Safety on the examination of the vehicle, as well as the registration sheet from the technical inspection, on the basis of which further registration of the vehicle would be possible.

VEHICLE MARKING

Marking on the sides and on the back of the vehicle is done with a white reflective strip, 15 cm wide. The strip is placed along the entire length of the sides of the vehicle, in the lower part of the door, over the superstructure to the rear of the vehicle.

Fluorescent strip shall not be placed over the roll-up door of the equipment compartment. A reflective strip shall be placed on the rear of the vehicle in line with the side reflective strip.