



PRODUCTION ASSOCIATION  
**FIRE-FIGHTING  
SPECIAL TECHNICS**

**PRODUCT CATALOGUE**





PRODUCTION ASSOCIATION  
**FIRE-FIGHTING  
SPECIAL TECHNICS**

## Contents

Company History .....	4
Import Substitution.....	5
Supply map .....	6
Firefighting Trucks .....	8
Fire pumps.....	14
Firefighting Trucks .....	16
Airport Crash Tenders.....	20
Special-Purpose Vehicles .....	24
Production.....	28
Service.....	30
Hydrodynamic testing and equipment certification.	
Contact.....	31

For the catalog, materials of JSC Fire-Fighting Special Technics are used. Photos by Mariya Barinova





## About us

Production Association Fire-Fighting Special Technics, JSC is a leading Russian producer of fire-fighting and special-purpose vehicles. The company was founded in 2008. Production is based on the aluminum fusing technology with innovative materials which are unique for the Russian fire engineering industry.

Frameless aluminum and plastic superstructure can be installed on each chassis type. Technology and materials provide reliability and safety, light weight and corrosion resistance for up to 25 years. Vehicles are equipped with electronic remote controlled pumps which are maintenance-free for the entire life cycle. Leading-edge compartment ergonomics enables to use the latest onboard rescue equipment to expand vehicle functionality and improve the efficiency of rescue operations.

Reliability, safety and comfort are valued by firefighters from 350 Russian cities and 7 countries worldwide.



# Company History

2008



## Start of localisation program

Registration of a joint venture with one of the world's leading manufacturers of fire and rescue equipment — Rosenbauer International AG (Austria).

2009

## Presentation of models at the Integrated Safety and Security Exhibition:

Launch of the serial production of AZ 3,2-40/4 on KamAZ 4x2 chassis. Delivery of first 24 units for the needs of Ministry of the Russian Federation for Civil Defense, Emergency Management and Natural Disasters Response.

AZ 3,2-40/4 (KamAZ 43253) AZ 2,0-20/2 (ZIL 433184)

AZ 2,0-20/2 (ZIL 4331M4) AZ 8,0-40 (KamAZ 65224)

2010



## Launch of mass production:

- AZ 2,0-40/4 on KamAZ 4308 chassis

- Deva fire pumps

Development of AZ 3,2 with CAFS foam system for operating in high-rise buildings.

R&D and serial production of vehicles for military mine-rescue units — VGSCb.

2011



## Development of a multi-purpose mobile package UMK-A

as part of the firefighting and fire rescue truck units based on all-terrain double-tracked vehicle ATTV BV-206.

2012

**A batch of Extra-capacity firefighting tankers AZ 6,0-70/4 MAN TGM 18.290** for the Moscow Administration for Provision of Civil Defense Measures



Production of airport crash tenders based on special chassis

**AA 11,8-100 6x6 Panther**

Production of airport crash tender **AA 8,0-90/6 on chassis KamAZ 65224.**

2013

2014



Development of **AZ 4,0-50/4 MAN TGM 13.290.**

2015



## Three new products for the Russian market:

Fire rescue truck PSA 3,2-40/4.

Fire rescue truck ACA-30 with electrical generator and articulated crane.

Prototype APP 0,2-0,3 UAZ (awarded a medal for Integrated Safety and Security Saloon ISSE)

2016



## An exclusive chassis KamAZ 5387 with drive wheel configuration 4x4.2 jointly developed with RIAT, JSC.

Mass production of AZ 3,2-40/4 fire-fighting tanker, AWD-based chassis. Developmental work on AZ 8,0-90/6.

Restyling of APP 0,2-0,3-100 UAZ.

A special award of the Integrated Safety and Security Saloon ISSE for development of the fire-fighting truck line.



2017



**AZ 3,2 with the new pump NH35** with a capacity of 3,000 l/min.

2018



Production of AZ 3,2-40/4 on **KAMAZ 4x4 Euro 5 chassis with the new pump NH-35.**



## Russian-manufactured materials and components

- ★ Aluminum upper structure
- ★ Upper structure frame
- ★ The water and foam tank made of polypropylene
- ★ Plastic sandwich panels
- ★ Plastic pump housing
- ★ Aluminum rollover doors
- ★ Crew cabin door with a step
- ★ Fiberglass body lining
- ★ LED flash beacons and lights
- ★ LED lighting
- ★ LED light tower
- ★ Mechanisms for lifting and lowering the ladder and delivery-suction hoses
- ★ Electrics and electronics
- ★ Chassis
- ★ Cardan driveline
- ★ ABS/ASR systems
- ★ Crew chief seat



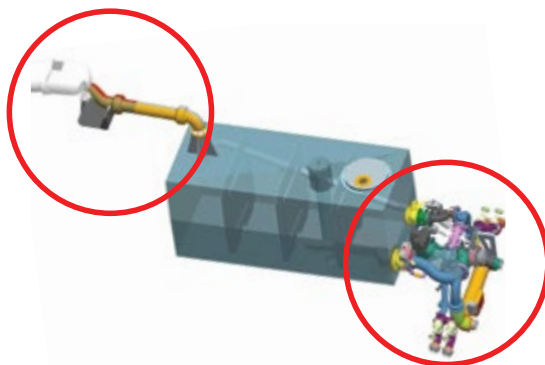
**2,978 localised items**

\* as in the case of standard AZ 3,2

## NON-localised items

Import

- ★ Pump station;
- ★ Water-foam lines;
- ★ Firewater monitor



**★ 83 Russian suppliers only for AZ 3,2**





# SUPPLY MAP

Supply Map



More than 350  
Russian cities

7 countries v



North Korea



Nicaragua



Serbia





# 1350 vehicles



## worldwide



Cuba



Cameroon



Tunisia



Jordan





## Fire-Fighting Tanker

# AZ 3,2-40/4



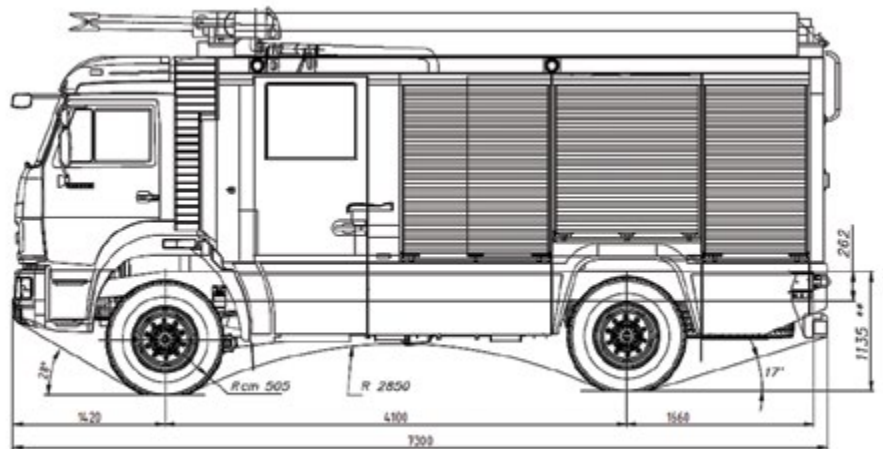
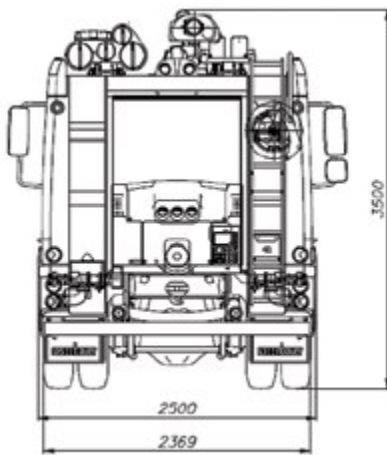
➔ AZ 3,2-40/4  
on KAMAZ 43253 4x2 chassis

➔ AZ 3,2-40/4  
on KAMAZ 5387 4x4 chassis

**Euro 5**

➔ AZ 3,2-40/4  
on MAN TGM 13.290 chassis

Medium-class firefighting tanker is the most popular and versatile firefighting truck model which is suitable both for urban and non-urban areas.







## SPECIFICATION

The model is available in three versions: with the 4x2 rear-axle drive, AWD with high maneuverability and off-road performance on the exclusive KAMAZ 4x4 chassis, and with high comfort on the MAN chassis. 4x4 chassis models are provided with the ABS traction control system and the ASR inter-wheel differential lock system.

	AZ 3,2-40/4	AZ 3,2-40/4	AZ 3,2-40/4
Base chassis	KAMAZ 43253	KAMAZ 5387	MAN TGM 13.290
Wheel arrangement	4x2	4x4	4x4
Engine type	Cummins 6 ISBe 340, Euro 4	Cummins 6 ISBe 340, Euro 5	MAN D 0836LFL70, Euro 5
Engine power	210 hp (150 kW)	340 hp (250 kW)	290 hp (213 kW)
Number of seats for the crew	6	6	6
Water tank capacity	3,200 liters	3,200 liters	3,200 liters
Foam tank capacity	200 liters	200 liters	200 liters
Fire pump	NH35	NH35	NH35
Pumping capacity	40 l/s at 10 atm, when high pressure section operates – 4.2 l/s at 40 atm	46.7 l/s at 10 atm, when high pressure section operates – 4.2 l/s at 40 atm	46.7 l/s at 10 atm, when high pressure section operates – 4.2 l/s at 40 atm
Gross weight	14,725 kg	15,400 kg	15,800 kg





The vehicle can be equipped with the compressed air foam system for operating in high-rise buildings (CAFS/Sky CAFS) and the waterjet fire suppression system.



## Waterjet fire suppression system

Fire suppression method involves the mixing of water and abrasive released through the dedicated outlet under the pressure (300 atm).

Small water drops vaporise upon contact with hot fire gases. It allows reducing the temperature in a closed space with minimum water consumption.



### ADVANTAGES

- Fire suppression from a safe place; time savings: flammable gas cooling and activity reducing
- Water supply – 60 l/min at 300 atm;
- Access to the fire in closed spaces with restricted access: double floor, walls, and assembly roofies, lofts, vent ducts, etc.
- Easy of operation. Hose line 80 to 100 meters long.





# Air and foam fire suppression system



Dual-channel pneumatic foam generating system (CAFS) is designed for suppressing various fire types, including those in high-rise buildings, with air and foam mix, as well as for preventing fires in adjusted buildings. Air and foam are mixed due to compressed air injection into the water and foaming agent mix.



## Air and foam fire suppression system

The system comprises of a powerful compressor which provides a pneumatic foam of any type (wet, dry, or high-rise) in any pump mode (water withdrawing from the tank or any external source).

### ADVANTAGES

- **Reliable isolation of fire front**  
High efficient foam film and ultra-stable foam blanket prevent air oxygen delivery to the burning substance.
- **High adhesion**  
Extended surface of the microscopic foam bubbles holds the foam on the burning substance surface, even on the vertical one.
- **Jet release on the long distance**  
On the nozzle outlet, fire extinguishing mix flows with increased speed due to the instantaneous compressed air expansion which leads to the jet release on the longer distance.
- **Lighter fire hose:**  
Due to the increased air content in the fire extinguishing foam, the hose line total weight is decreased.
- **Fire extinguishing agent supply height up to 400 m.**  
Due to pressure increase to 12 bar, the pneumatic foam can be supplied through the 110 mm pipe up to 400 meters high.
- **Easy of operation**
- **Reduced foaming agent and water consumption**  
Maximum mixing volume 22 l/min under the water pressure at 10 bar.  
Pump capacity when supplying foaming agent 0.5 to 24 l/min.  
System capacity 3,000 l/min of foam mix.





# Fire-Fighting Tanker

## AZ 3,2-40/4

### Features

The water tank is made of polypropylene and plastics reinforced with fiberglass to ensure long service life (up to 20 years), light weight and excellent reliability.

The tanks are equipped with an overflow control system and electronic level indicator. The water tank is suitable for potable water transportation.

Centrifugal combined fire pump NH-35 made of light-alloy materials. Automated control from the driver's cabin and pump compartment. Maintenance-free during the entire service life!

Automated foam mixing eliminates losses and overconsumption of foaming agent.

Foam pipelines are made of polymers, bronze, and stainless steel.

Pump heating system for the cold period and overheating protection for continuous use. Reduced noise level and fuel consumption. Automated pump station control system.

Pump compartment folding door providing the safety canopy over the operator when open.

Dustproof-and-moistureproof rollover doors. Automated actuation of compartment LED lighting.

Folding step plates with a maximum load of 250 kg. Antislip roof and floor of the crew cabin.



**Pump housing.**  
Additional thermal and sound insulation of the pump.



**Foam tank made of polypropylene. Automated compartment lighting.**  
Foam tank resistant to any foaming agent.



**Longer reinforced high pressure hose – 80 meters.**  
Electrically driven reel for automated winding off hose in vertical and horizontal position.



**New pump NH-35.**  
Efficient fire suppression with water and foam, working on the normal and two high pressure stages. Control in the compartment or from the driver's cabin. Pump durability allows using even sea water and passing objects up to 8 mm.



**Electronic pump control. Heat insulated compartment, heating of water and foam lines.**



**Ambulance kit.**







**Euro 5**



**Light tower**

Powerful and bright LED lighting at a height up to 6 m. Remote control from the ground.



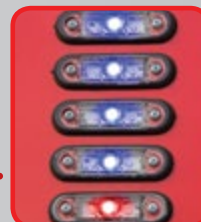
**Crew seats with mounts for breathing apparatuses.**

Reduced time for deployment and operation start, safety of firefighter personal things.



**Firewater monitor with electronic control from the driver's cabin.**

Safe and efficient fire suppression. Water supply distance up to 70 m.



**External indicator of the foaming agent level in the water tank.**



**LED lighting of the gallery**

Best visibility in the operation area, often the single lighting source on the fire suppression site.

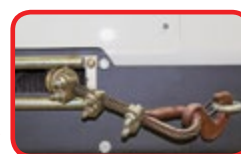


**Comfort system**

for quick lifting/lowering the ladders and cases for the delivery-suction hoses from the ground.



**Crew chief seat with the mount for RPE**



**Electric winch.**

Improved off-road performance and fire debris clearing. Pulling force 6 t.



**KAMAZ 5387 4x4 chassis.**

Low frame and short base ensure higher maneuverability and off-road performance. ABS/ASR systems. AZ gross weight is 15,400 kg.



**Dustproof-and-moistureproof rollover doors with automated lighting.**

Equipment integrity and easy opening.



**Door with integrated swinging step and lighting.**

Quick and safe entrance/exit to/from the crew cabin in full gear and upright.



**Swinging beds for firefighting equipment.**

Improved ergonomics and unique mounts allow locating more equipment.



**Folding steps with the antislip coating.**

Safe and easier access to the firefighting equipment.



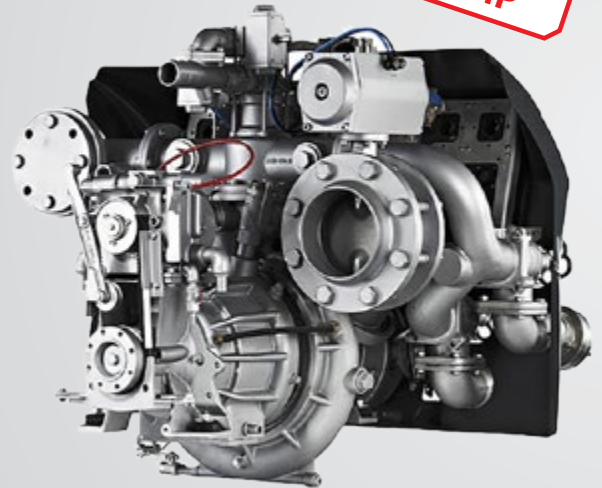
# Centrifugal combined fire pump

NEW PUMP

# NH-35

## CAPACITY

- 3,000 l/min at 10 bar
- 2 x 200 l/min at 40 bar



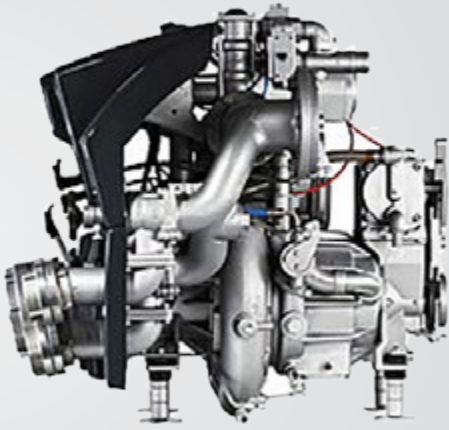
**Simultaneous operation of the normal pressure line and two high pressure lines**

## FEATURES

- Pump drive from the chassis engine through the power take-off => **fire suppression on the run.**
- **Electronic control** from the driver's cabin and pump compartment with soft keys (no need to take off gloves).
- 3 modes: automated (electro-pneumatic valve), semi-automated, and manual with no air in the system.
- Automated air purging: valves, hoses, hydrant lines.
- Pump dry run protection system.
- Automated foaming agent dosing system FIX MIX (foam expansion ratio 3% and 6%).
- Integrated module of electro-pneumatic valves controlled with a CAN-bus, automated activation of modes: high/low pressure lines on/off, foam mixing and supply on, firewater monitor operation, water withdrawing from the external tank, etc.
- **Maintenance-free** during the entire service life!



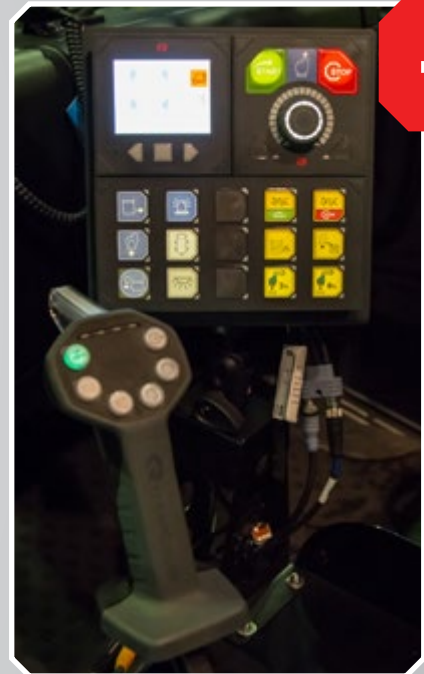




**3 l/s  
AT 40 ATM. PRESSURE**

- Electrically driven reel to automatically wind off the hose in vertical and horizontal position.
- Versatile high pressure firefighting monitor with adjustable jet spray cone angle. Capacity is 3 l/s at 40 atm.
- Thermal and sound insulating pump housing. Pump compartment is equipped with thermal insulating sandwich panels all around, including the bottom.

**Longer reinforced  
high pressure hose – 80 meters.**



## Firewater monitor RM-25E

### FEATURES

- Electronic control with the joystick from the driver's cabin.
- Capacity:
  - 46.7 l/s at 10 atm
  - 4.2 l/s at 40 atm
- Jet spray distance:
  - foam supply up to 40 meters
  - water supply up to 70 meters
- Automated and manual operation modes.
- Fire suppression area lighting with the spotlight.
- Rotation angle:
  - horizontally – 225°
  - vertically, degrees:
    - in the manual mode from -15° to +65°
    - in the remote mode from -15° to +45°



# Rapid intervention vehicle

## APP 0,2-30/100

Model 023-MS based on UAZ-23602 chassis

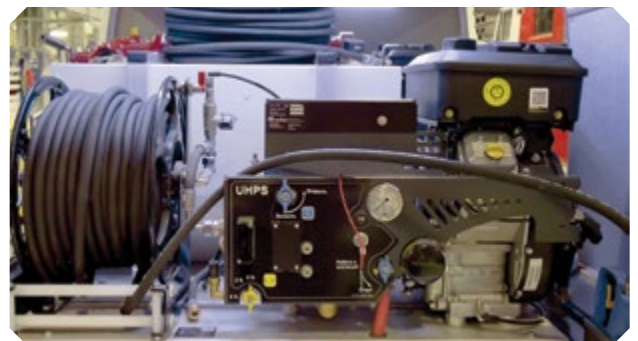
Firefighting Trucks



Firefighting truck on a light-class chassis, equipped with a pumping unit and tanks for liquid fire extinguishing agents. Designed to deliver personnel, firefighting and other technical equipment to the site of fire (accident), taking actions to extinguish fires at the early stage of their development, and primary rescue operations and first aid to victims. The vehicle is ideal for driving on rough terrain and off-road, by the narrow streets and quays, in closed areas of suburban settlements with limited space to maneuver and poor access for heavy equipment.

### SPECIFICATION

Base chassis	UAZ-23602
Wheel arrangement	4x4
Engine type	Diesel
Engine power	113.5 (83.5) at 3,500 rpm
Number of seats for the crew	2
Water tank capacity	200 liters
Foam tank capacity	20 liters
Fire pump	3-cylinder, ultra-high pressure
Pumping capacity	38 l/min
Gross weight	2,825 kg
Length	5,320 mm
Width, with / w/o mirrors	2,280 / 1,990 mm
Height	2,260 mm



### COMBINED HIGH PRESSURE MANUAL FIREFIGHTING MONITOR WITH THE FOAM NOZZLE TIP

Capacity: 38 l/min.

With two manual reels: 19 l/min.



### REEL HIGH PRESSURE

High pressure hose DN12,  
60 m long (on request, up to 90 m).





# Fire-Fighting Tanker

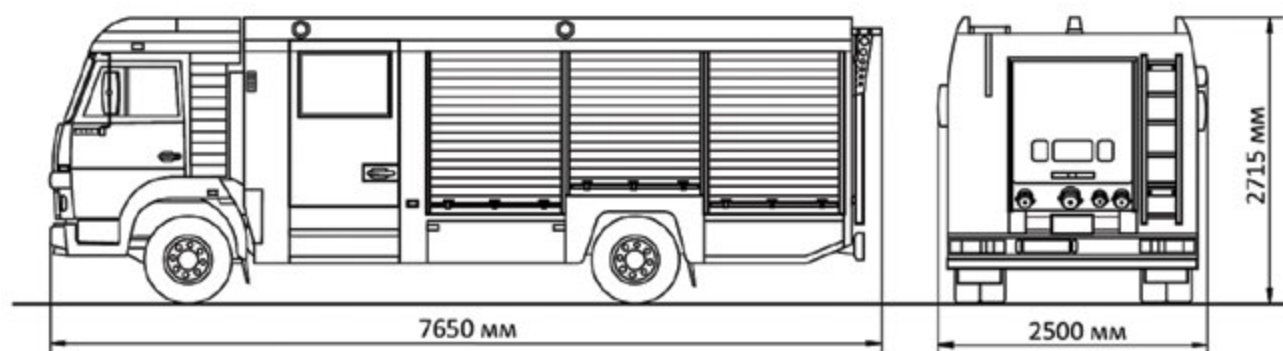
## AZ 2,0-40 KAMAZ 4308



Compact, lightweight and maneuverable firefighting tanker AZ 2,0 is dedicated for restrained urban conditions and restricted access roads. Low height allows the vehicle freely maneuvering in the historic town centre with low arch or bridge spans.

### SPECIFICATION

Base chassis	KAMAZ 4308
Wheel arrangement	4x2
Engine type	Cummins 4 ISBe 185, Euro 4
Engine power	185 hp (133 kW)
Number of seats for the crew	6
Water tank capacity	2,000 liters
Foam tank capacity	122 liters
Fire pump	N25
Pumping capacity	40 l/s at 10 atm
Gross weight	11,900 kg
Length	7,650 mm
Width	2,500 mm
Height	2,715 mm





# Fire-Fighting Tanker

## AZ 6,0-70/4

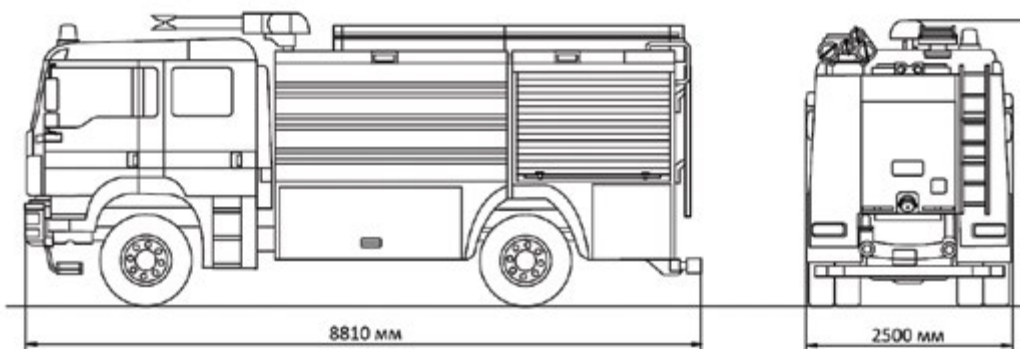
MAN 18.290 4x4



Heavy-duty firefighting tanker AZ 6,0 is designed for ensuring safety of sites with high fire risk level or restricted access to the water sources. It can be used as an industrial fire truck on industrial facilities, plants, petrochemical units, and gas stations.

### SPECIFICATION

Base chassis	MANTGM 18.290
Wheel arrangement	4x4
Engine type	MAN D0836LFL70
Engine power	290 hp (213 kW)
Number of seats for the crew	6
Water tank capacity	6,000 liters
Foam tank capacity	400 liters
Fire pump	NH 55
Pumping capacity	4,200 l/min at 1.0 MPa, when high pressure section operates – 240 l/min at 4.0 MPa
Gross weight	18,800 kg
Length	8,810 mm
Width	2,500 mm
Height	3,540 mm





# Fire-Fighting Tanker

## AZ 8,0-90/6

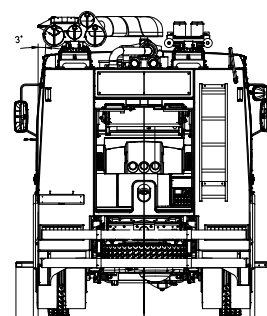
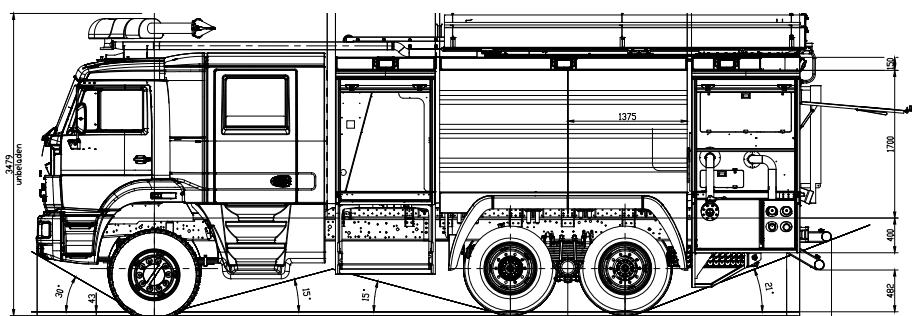
### Model 026-MS (65111)



Firefighting tanker AZ 8,0 of heavy-duty class on cross-country chassis. Designed to extinguish large fires when water sources are inaccessible or where an increased fire hazard exists: industrial facilities, oil-refineries and petrochemical plants.

#### SPECIFICATION

Base chassis	KAMAZ 65111
Wheel arrangement	6x6
Engine type	Cummins ISLe-C375 turbodiesel
Engine power	268 kW at 2,100 rpm
Number of seats for the crew	2 + 4
Water tank capacity	8,000 liters
Foam tank capacity	500 liters
Fire pump	NH55
Pumping capacity	5,500 l/min
Gross weight	25,200 kg
Length	10,000 mm
Width	2,500 mm
Height	3,670 mm





# Airport Crash Tender

## AA 11,8-100

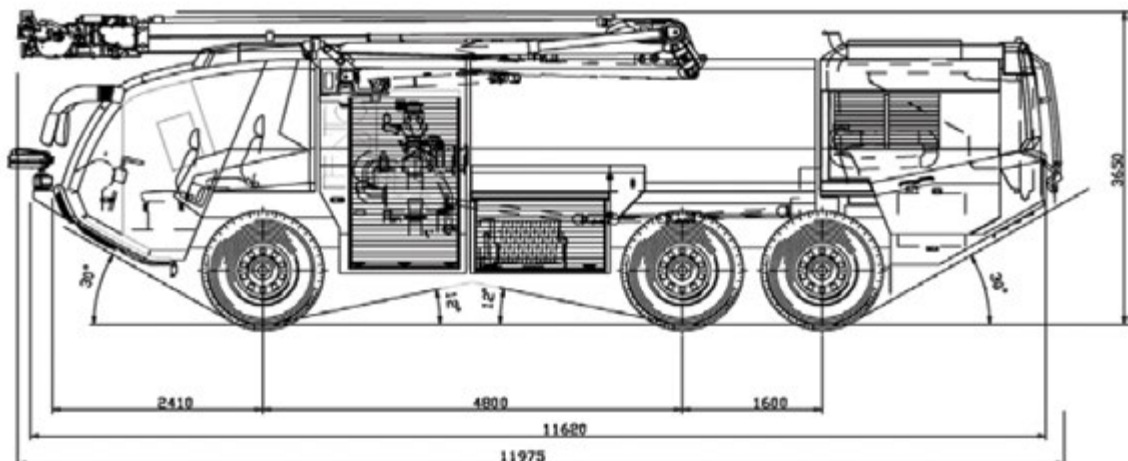


**Cutting-edge multi-purpose airport crash tender for fire suppression at the aircraft and on the aerodrome complex facilities.**

### Airport Crash Tender

AA 11.8-100 (RBI 39.700) Panther with the water tank capacity of 11,800 liters.

It can be equipped with the diffuser branch (puncher) which height and configuration ensure fire suppression at any airliner types, including the largest civil aircraft.







## SPECIFICATION

Base chassis	RBI 39.700
Wheel arrangement	6x6
Engine type	Volvo D, 6-cylinder or Caterpillar CAT C 18
Engine power	700 hp (515 kW)
Number of seats for the crew	4
Water tank capacity	11,800 liters
Foam tank capacity	1,500 liters
Fire pump	R600
Pumping capacity	103 l/s at 11 atm
Gross weight	37,000 to 39,000 kg
Length	11,975 mm
Width	2,500 mm
Height	3,650 mm



**Max. speed** 115 km/h

## FEATURES

- Centrifugal pump with a capacity of 7,000 l/min at 11 bar.
- Fully-automated foam production system with instantaneous changing foam expansion ratio.
- Retractable telescopic tower. Rotation radius of 180° horizontally and 180° vertically. The tower is equipped with the firewater monitor RM65 with the maximum water/foam supply rate of 6,000 l/min in the folded state and 3,800 l/min in the unfolded state.
- Puncher branch with a punch depth up to 520 mm and a function of fire extinguishing agent supply into the body.
- The tower is equipped with the water-proof IR camera and xenon spotlight ensuring view in poor visibility or smoke conditions.
- Bumper-mounted firewater monitor RM15 with the water flow of 1,500 l/min at 10 bar and water/foam jet supply distance up to 65 meters (with no wind).
- Runway foam carpet spreader controlled from the driver's cabin. Maximum foam carpet width is 8 meters.



## Airport Crash Tender

# AA 8,0-90/6



The airport crash tender on KAMAZ 6x6 chassis is designed to deliver crew firefighting and other technical equipment to the site of fire and to suppress fire on the aerodrome complex facilities. On the cabin roof, the firewater monitor for water and foam supply is installed. The front bumper is equipped with the firewater monitor, the rear bumper is equipped with the removable runway foam carpet spreader.

### FEATURES

- Centrifugal fire pump NH55 made of light-alloy materials.
- Removable runway foam carpet spreader with 6 foam generators.
- Roof-mounted firewater monitor with a capacity of up to 2,500 l/min at 10 bar. Bumper-mounted firewater monitor with a capacity of 1,500 l/min at 10 bar for suppression of spilled flammable fluid under the aircraft body.
- Remote control of the firewater monitors from the cabin with the joystick.

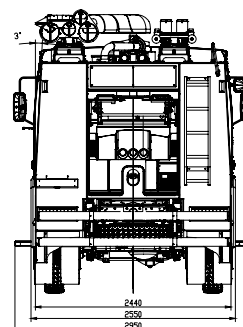
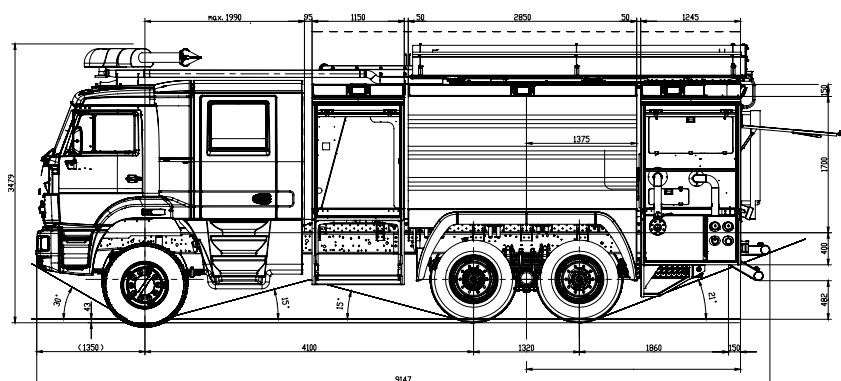
### SPECIFICATION

Model	KAMAZ 65224
Wheel arrangement	6x6
Crew	1 + 2
Wheelbase	4,115 + 1,440 mm
Vehicle gross weight, max.	27,500 kg
Engine	KAMAZ 740.632-400, Euro 4
Power	294 kW / 400 hp
Fuel tank	550 l
Gearbox	Mechanical, 16-speed, ZF-16S1822TO
Power take-off	clutch independent ZF, model NMV221
Overall length	10,000 mm
Overall width	2,500 mm
Overall height for transport	3,670 mm
Angle	approach angle of 25° departure angle of 18°
Clearance	min. 380 mm





<b>Water tank</b>	8,000 l
<b>Foam tank</b>	500 l
<b>Fire pump</b>	N 55
<b>Fire pump capacity</b>	5,500 l/min
<b>Pump control system</b>	automated with the electronic display
<b>Foam mixing system</b>	Fix Mix 3% or 6%
<b>Reel with the normal pressure hose</b>	of 40 m long and the branch RB-101
<b>Jet capacity</b>	4 l/s at 10 bar
<b>Roof-mounted firewater monitor</b>	RM25C
<b>Capacity</b>	up to 2,500 l/min at 10 bar
<b>Rotation angle</b>	horizontally: up to 270° vertically: 87° (from -17° to +70°)
<b>Water jet supply distance</b>	up to 65 m
<b>Bumper-mounted firewater monitor</b>	RM15C
<b>Capacity</b>	up to 1,500 l/min at 10 bar
<b>Rotation angle</b>	horizontally: up to 180° vertically: 105° (from -30° to +70°)
<b>Water jet supply distance</b>	up to 55 m
<b>Carbon dioxide extinguishing unit with the discharge nozzle and puncher branch</b>	Fixed, Volume of 50 l
<b>Hose length</b>	15 m





# Fire Rescue Truck with Articulated Crane

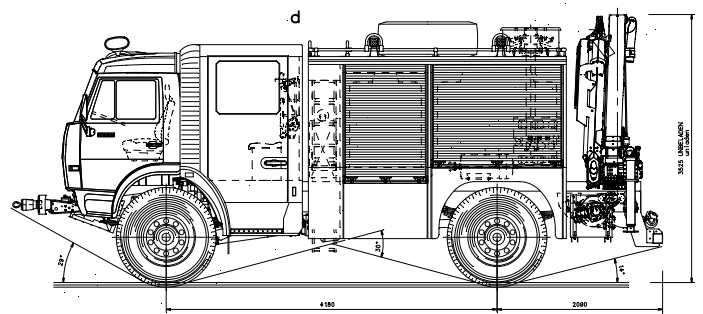
## ACA-30-0,8-0,6/100-3,0 Model 022-MS (5387)



Designed for extinguishing primary fires with water and foam, work in the emergency situations areas and elimination of consequences of accidents, providing first aid to victims, as well as for assessing the situation and the transmission of operational information to headquarters. It is equipped with an articulated crane, the electric power plant and powerful lighting equipment. AWD chassis and electric winch provide high off-road performance in inaccessible areas, including places with damaged or undeveloped infrastructure.

### FEATURES

- Electric power plant 30 kVA.
- High pressure fire pumping unit NUVD-38/100 with water flow 0.6 l/s.
- Electric winch with a pulling force up to 6 tons, with a possibility of continuous operation at rated speed.
- Versatile articulated crane.
- The water and foam tank of polypropylene and plastic, reinforced with fiberglass. Equipped with an overflow control system and electronic level indicator.
- The water tank is suitable for transporting potable water.
- Telescopic pneumatic light tower, resistant to wind loads of up to 15 m/s, is equipped with LED spotlights.
- LED-lighting in equipment compartments and cabin.
- Seats are equipped with universal mounts, and are suitable for one- and two balloon breathing apparatuses.







✓ The versatile articulated crane with a narrow base. Due to its small weight, fuel consumption and vehicle maintenance costs are reduced.



Load moment	7.5 tm
Maximum working load	3,000 kg
Working load at maximum outreach	1,100 kg
Boom outreach max.	6.8 m
Max. hook height	8.00 m
Maximum load-lowering height	5.00 m
The angle of the crane pillar rotation	390°
Control method	From the ground, Remote control, hydraulic

## Specification of KamAZ 5387 4x4.2 chassis

Base chassis	KAMAZ 5387
Wheel arrangement	4x4.2
Engine power	340 hp (250 kW), Euro 4
Number of seats for the crew	5 + 1
Max. speed	90 km/h (electronic speed limiter)

## FIRE PUMPING UNIT ULTRA-HIGH PRESSURE



## ELECTRIC POWER PLANT



Power	30 kVA
RPM	1,500 min-1
Current frequency	50 Hz
Voltage	400/230 V
Nominal current	42.3 A 1P

Capacity	38 l/min at 100 bar
Foam mixing system	0–6% of admixing, continuously adjustable mix level
Reel	with rubber high pressure hose DN12 60 m long and high pressure fog nozzle

## WATER TANK AND FOAM TANK



Water tank volume	800 l
Foam tank volume	120 l
Material	polypropylene

## ELECTRIC WINCH



Pulling force	rated 6,000 kg
Power supply voltage	24 V
Wire wind-up speed	1.5 m/min
Wire material	steel
Wire diameter	14 m
Wire length	25 m



# Special-purpose fire control unit

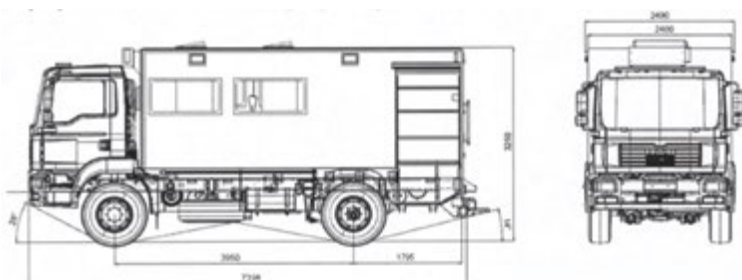
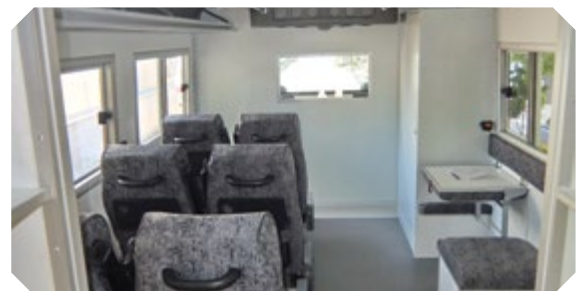
The special-purpose vehicle for transportation of military mine-rescue units



The special-purpose fire control unit on MAN TGM 13.250 4x4 chassis is designed to be a coordination centre for communications with the central staff. Furthermore, it can be used to deliver mine rescue unit specialists, rescue tools, as well as rescue and firefighting equipment to the site of rescue operations.

## SPECIFICATION

Base chassis	MAN TGM 13.250
Wheel arrangement	4x4
Engine type	MAN D0836LFL69 diesel, Euro 5
Engine power	184 kW (250 hp)
Gearbox	ZF 9S-1310 OD, mechanical, 9-speed
Maximum torque moment	1,000 Nm at 1,500 rpm
Fuel tank	150 l
Number of seats for the crew	2 + 6
Water tank capacity	800 liters
Brake system	electronic MAN BrakeMatic® involving: ABS, ASR traction control system, engine brake, disk brakes on each wheel, ESP electronic stability program, adaptive cruise control, downhill braking control.





# Motor Pump

# DEVA



## MP-600/6 ADVANTAGES

- Reliable design
- Air-cooled engine
- Easy engine start.
- Reduced fuel consumption.
- High pump capacity.
- Contamination resistance.
- Quick water withdrawing from 7.5 m with the manually controlled piston pump.
- Comfortable manual transportation.

Motor fire pump MP-600 DEVA is a mobile unit used for water supply from the fire ponds, local fire suppression, as well as for elimination of emergency flooding of cellars, buildings, excavation pits.

## MAIN CHARACTERISTICS

Pump	One-stage centrifugal pump made of corrosion-resistant light alloy with anodised coating.
Pump specification at the lifting capacity of 3 m	600 l/min at 6 atm 800 l/min at 5 atm 1,000 l/min at 4 atm Max. 1,100 l/min at 3 atm and lifting capacity of 1.5 m
Connections	Suction inlet 2 1/2", discharge outlet 2 1/2" with the check valve
Weight	Working weight 66 kg, unfueled weight 58 kg
Vacuum pump	Manually controlled piston pump, maximum lifting capacity 7.5 m
Power	13 kW (18 hp)
Fuel tank	8.5 l
Working weight	66 kg
Unfueled weight	58 kg
Length	510 mm
Width	560 mm
Height	630 mm

## PUMP WATER-FOAM LINES

- Pressure gauge and vacuum gauge, suction inlet F80, discharge outlet F70, connectors in acc. with GOST.

## PUMP PARTS

- Centrifugal impeller, stator, and spiral canal.

## SHAFT SEALING

- Maintenance-free end and axial mechanical sealing.

## ENGINE PARTS

- Breakerless transistorised ignition system and forced-feed lubrication system, manual starter.

## SUPPORT FRAME

- Rolled support frame with four folding capped handles.

## ADDITIONAL OPTIONS

- Mesh in the suction line.
- Other connection systems (BSS NST and others).
- Electrical starter with the 12 V battery.
- Spotlight.
- Bronze pump version.
- Motor pump without support frame.



# Production

## UNIQUE TECHNOLOGIES

### Aluminum fusing technology

Upper structure parts are fused and fixed with additional bolts in the highest transition places => no broken and corroded seams, more flexible and safe design.

### Patented frameless design

Ergonomic and versatile platform as a basis for various layout solutions: 4 to 6 compartments, variants of beds, mounts, equipment.

### Reliable and safe upper structure

Upper structure and crew cabin roof is a solid aluminum plate reinforced with sandwich panels => structural rigidity, personnel safety.

- Antislip coating of roof and floor.
- In the case of a road accident or other failure, frameless design allows recovering of a local upper structure element.

### INNOVATIVE SOLUTIONS



- Reduced weight of the upper structure => more equipment on board
- Corrosion-free => extended service life
- Extended service life => reduced owning cost

Production capacities  
up to 300 vehicles per annum

## HIGH TECHNOLOGY PRODUCTION

### Laser cutting of parts

- Highest accuracy and quality for further assembling.

### Bending

- High durability and yield strength/ corrosion resistance of parts.
- No welds.

### Edge processing

- Aesthetic appearance and safe production.

### MODERN PRODUCTION





## INNOVATIVE MATERIALS

**Upper structure made of aluminum** cold worked on a quarter (aluminum-magnesium alloy) => durability, flexibility, corrosion and vibration resistance.

- Maintaining of flexibility for bending and high-accurate laser cutting of parts.

**Water tank and foam tank made of polypropylene reinforced with fiberglass**

- Corrosion-free up to 25 years.
- Vibration and fracture resistant (internal breakwaters).
- Automated temperature control system to maintain temperature +5° or above.
- The water tank allows transporting potable water without quality compromising.
- The foam tank is suitable for any foaming agent type.

**Rustproof and acidproof fasteners. Polyurethane structural adhesives**

- Due to no welds, upper structure service life is guaranteed for 25 years without corrosion.

**Sandwich panels with aluminum and polypropylene honeycomb core**

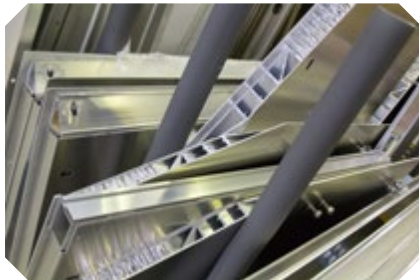
- Enhance the upper structure rigidity, heat resistance and sound insulation without weighing up.
- Used in aviation and space industry.

**Upper structure plastic lining**

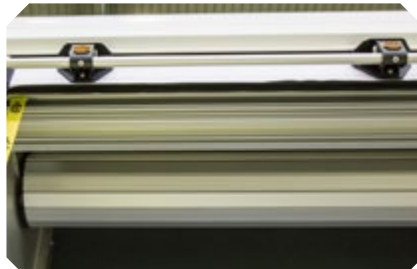
- Light weight
- Durability
- Maintainability
- No need for painting
- Corrosion-free

**CORROSION  
RESISTANCE  
UP TO 25 YEARS!**

## IMPLEMENTED INNOVATIONS



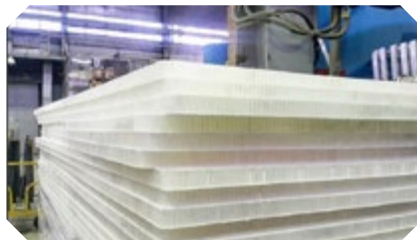
**Sandwich panels** ensure sealing, additional thermal and sound insulation, structural rigidity, and light weight.



**Roll up curtains with double sealing contour.** Special aluminum alloy => improved durability, reduced weight.



**Aluminum part fusing**



### Features:

High durability and weight ratio  
Corrosion resistance  
Excellent thermal insulating and dielectric properties  
High durability  
Thermal stability



### Rotor monocyclone

**9000 2R** ensures double cleaning of air fed to the engine => protection of the engine air filter, long service life and prevention of cylinder wearing



**Roof** is a solid metal plate reinforced with sandwich panels and combining the crew cabin with the compartments => structural rigidity and crew safety

**Polypropylene tanks, with the service life of 25 years.**



**UNIQUE MATERIALS**



# Maintenance

Service



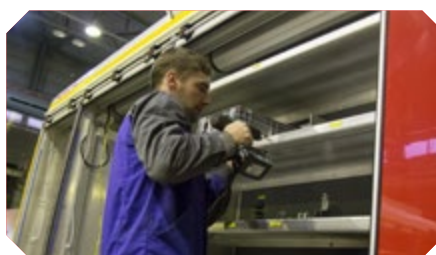
- ✓ **Maintenance and repair.**
- ✓ **Ordering original spare parts.**
- ✓ **Training.**

## WARRANTY 24 months!

*After receipt of the vehicle, please send information about its address and person in charge contacts to the Customer Service.*

**Email: [service@paffst.com](mailto:service@paffst.com)**

**Phone: +7 (495) 989 20 98 add. #512**



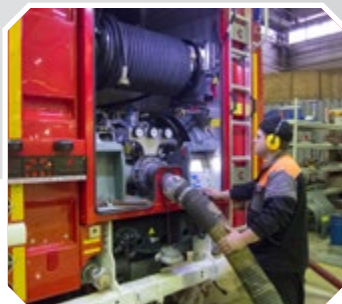


# Hydrodynamic testing and equipment certification



FPP 9V test bench for tests of fire pumps as part of fire trucks, pressure and other tests of water-foam lines, motor pumps, water tanks, foam and water tanks, branches and hoses.

For questions on equipment testing and certification, please contact the Customer Service: [service@paffst.com](mailto:service@paffst.com)



## Contact

On the site [www.paffst.com](http://www.paffst.com), you will find comprehensive information about company products and business.

In the **Service** section, typical operation failures and remedial actions are described.

In the **Video** section, you will find the educational video on AZ 3,2 and pump operation.

You can ask a question or discuss a problem on the site **Forum**.



+7 (495) 989-20-98



[office@paffst.com](mailto:office@paffst.com)



[www.paffst.com](http://www.paffst.com)



[www.shop.paffst.com](http://www.shop.paffst.com)



[www.forum.paffst.com](http://www.forum.paffst.com)



@paffst1

SHOP

Buy spare parts

FORUM

Ask a question, discuss a problem

For the catalog, materials of JSC Fire-Fighting Special Technics are used. Photos by Mariya Barinova

**Production Association  
Fire-Fighting Special Technics, JSC**

**23/15 Avtozavodskaya Str., Moscow, 115280  
Phone: +7 (495) 989-20-98**

**[www.paffst.com](http://www.paffst.com)**