

Fire fighting
Fast. Safe. Everywhere.



RENKA'S FIRE ENGINE No. 1

Flexible module frame

Range of applications: Fire fighting

Renka's Fire Engine No.1

Renka's Fire Engine No.1 is a new concept for fighting fires more quickly and safely.

The range of applications is diverse: Small and initial fires, forest fires or surface fires can be extinguished completely autonomously from fire engines and pumps.



Fast.
Fire fighting

For quick deployment - everywhere!



The high quality transport rack makes it easy to transport the complex system consisting of the high pressure pump unit with diesel motor, water tank and foaming agent canister.

The advantages are plain to see: Because of the very low consumption, it is possible to extinguish for 10 minutes with the separate 200 litre water tank and the 20 litre foaming agent tank. Optionally, an additional rack with two water tanks can supplement the system and increase the extinguishing time to 30 minutes.

The long extinguishing time with low water

consumption but high extinguishing effect is achieved by the high pressure and rotation at the Vario extinguishing pistol. In the process, the water/foaming agent mixture is finely atomised to ensure the reduction of oxygen at the source of fire and the penetration of the extinguishing agent in the burning material. The advantage of water atomisation is that it increases the surface of the water, enabling it to absorb the high energy from the source of fire and dissipate the heat.

Renka's Fire Engine No. 1 can be transported and stacked in many different ways.

- Each module has two holding fixtures for tanks, high pressure extinguishing devices or other technical equipment. Located between the two fixture rails is a bearing device for a foaming agent canister. Also, each module is equipped with a delivery tray.



Fast deployment



Easy to transport



Flexible use

Moduleframe

Renka's Fire Engine No.1 is a flexible module frame, with holding fixtures for different technical equipment.



Safe.

Fire fighting

For flexible use!



The module frame is characterised not only by its robustness and high quality workmanship but also by its high degree of operational tactical advantages.

Different loading concepts are possible.

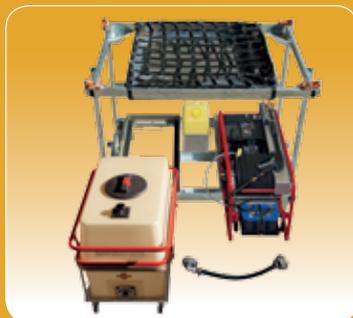
For fire fighting, the first module frame of **Renka's Fire Engine No. 1** can be equipped with a high pressure extinguishing device and a 200 L tank.

An additional foaming agent canister can be included, and hoses and other consumables

can be transported on the delivery tray. The second module frame can carry two additional water tanks. A bearing device for a foaming agent canister can be found here as well.

All units or devices having a frame substructure in accordance with DIN 14 685 may be loaded in the module frame.

- The devices can be individually removed from the module frame for, e.g., refilling. The supplied flexible hose enables tanks to be connected to the high pressure extinguishing device without having to remove them from the module frame.



Transport options

The modular concept of Renka's Fire Engine No.1 provides a multitude of transport options.



Subject to technical modifications / 04-2013

Everywhere. Fire fighting

For easy transport to the deployment location!

Transportation to the deployment location without expending a great amount of strength is possible with the additionally available castors. A single person is able to move the loaded module despite the high weight.

Even loading and stowing by crane can be realized as well.

Four lifting eye bolts in the upper area of the module frame have been mounted for this purpose.

Each module frame has holding fixtures for secure transportation by lift truck or fork lift.

The individual module frames can be stacked and secured with lashing straps for transportation.

Stowing onto a lorry is ensured by a multitude of lashing points.



High pressure extinguishing devices

Extinguishing with high pressure.

The high pressure extinguishing method is based on finely atomised water. When using Renka's Fire Engine No.1 you have a choice of either a diesel or a petrol unit.



HLG WATERJET Diesel



HLG WATERJET



Subject to technical modifications / 04-2013

Fast. Fire fighting

Technical data HLG WATERJET

(EN ISO 12100-1)

Art. No. 800120

Engine

Engine type: Air-cooled 1 cylinder 4-stroke petrol engine
Make: Honda
Engine capacity: 390 cm³
Maximum power: 9.5 kW (13 PS)
Battery: 12 volt, 18 Ah (optional)
Starter: Reversing starter (optional: electric starter)
Tank capacity: 6 litres

Reduction gear

Transmission ratio: 1:2

High pressure pump

Pump type: 3-piston high pressure pump
Volume flow rate: max. 20 litres/min
Maximum pressure: 220 bar
Operating pressure: max. 180 bar
Speed: 1800 rpm
Max. suction height: 2.5 m

Pressure regulator

Pressure: 40-180 bar

Drive unit in total

Overall dimensions:
Width x Depth x Height 500 x 885 x 640 mm
Empty weight: 94.5 kg

Hose drum

Pressure hose: DN 8 mm, approx. length 30 m

Vario extinguishing pistol

High pressure pistol with spray jet:
Water and foam operation
High pressure pistol with full jet:
Foam operation

Tech. data HLG WATERJET Diesel

(EN ISO 12100-1)

Art. No. 800100

Engine

Engine type: Air-cooled 1 cylinder 4-stroke diesel engine
Make: Hatz
Engine capacity: 462 cm³
Maximum power: 7.5 kW (10.2 PS) / 3600 rpm
Battery: 12 volt, 50 Ah (optional)
Starter: Electric starter and reversing starter
Tank capacity: 5 litres

Reduction gear

Transmission ratio: 1:2

High pressure pump

Pump type: 3-piston high pressure pump
Volumetric flow: max./nominal 20/17 Litre/min
Maximum pressure: 150 bar
Speed: 1800 rpm
Max. suction height: 2.5 m

Pressure regulator

Pressure: 10-220 bar, factory adjusted to 150 bar

Drive unit in total

Overall dimensions:
Width x Depth x Height 890 x 430 x 590 mm
Empty weight: 118.5 kg

Hose drum

Pressure hose: DN 8 mm, approx. length 30 m

Vario extinguishing pistol

High pressure pistol with spray jet:
Water and foam operation
High pressure pistol with full jet:
Foam operation



Rack frame for modular fire fighting system "RENKA'S FIRE ENGINE No. 1"

Art.-No. 800160

Rack frame of steel pipe, galvanized with bearings and transportation locks to receive a high pressure extinguishing device HLG Waterjet Diesel as well as a 200 L water tank, portable
suitable for loading by stacker and crane
Lashing eyes for transportation on pickup truck or trailer
Storage tray with locking device and safety net
Dimensions: (LxWxH) approx. 1430 x 920 x 1165 mm



200 litre water tank, portable

Art. No. 800150

C Storz water connection, lockable
Water overflow,
Supporting frame of steel pipe,
Powder coating red RAL 3000,
suitable for 8 KVA DIN storage,
Dimensions: (LxWxH) 900 x 600 x 760 mm
Weight: approx. 40 kg



Set of wheels for rack frame

Art. No. 800165

consisting of:
2 pneumatic tyres 380 mm, slip on
2 pneumatic tyres 260 mm with lift gear
steerable and towing bar

Michael Renka GmbH

Kasernenstraße 23
40213 Düsseldorf, Germany

Phone: +49 (0) 2 11 - 8 48 00

Fax: +49 (0) 2 11 - 32 90 00

eMail: info@fire-engine.de
www.fire-engine.de



Scan the QR-code and watch our film!