



KALAN

AMPHIBIOUS TRACKED VEHICLE



NEW SPACE
TECHNOLOGIES




KALAN
AMPHIBIOUS TRACKED VEHICLE

**With today's heroes.
When nature forces strikes.**



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AMPHIBIOUS VEHICLE – SPECIAL PLATFORM FOR CIVILIAN RESCUE FORCES
is co-financed with the state support of the Technology Agency of the Czech Republic and the Ministry of Industry and Trade of the Czech Republic within the TREND Programme.



- / Evacuation of people and transport of the rescue teams with equipment or load, on water and tough terrain
- / Variability for another special use or missions
- / Designed and made in Czech republic

TRANSPORTER FOR PERSONEL TRANSPORT &/OR MATERIAL



- / Evacuation of endangered people or rescue teams
- / Transportation of bulk cargo, pallets and containers (up to 20")
- / Ground equipment and vehicles transportation

FIREFIGHTER VEHICLE



- / Amphibious special equipment

MILITARY VEHICLE



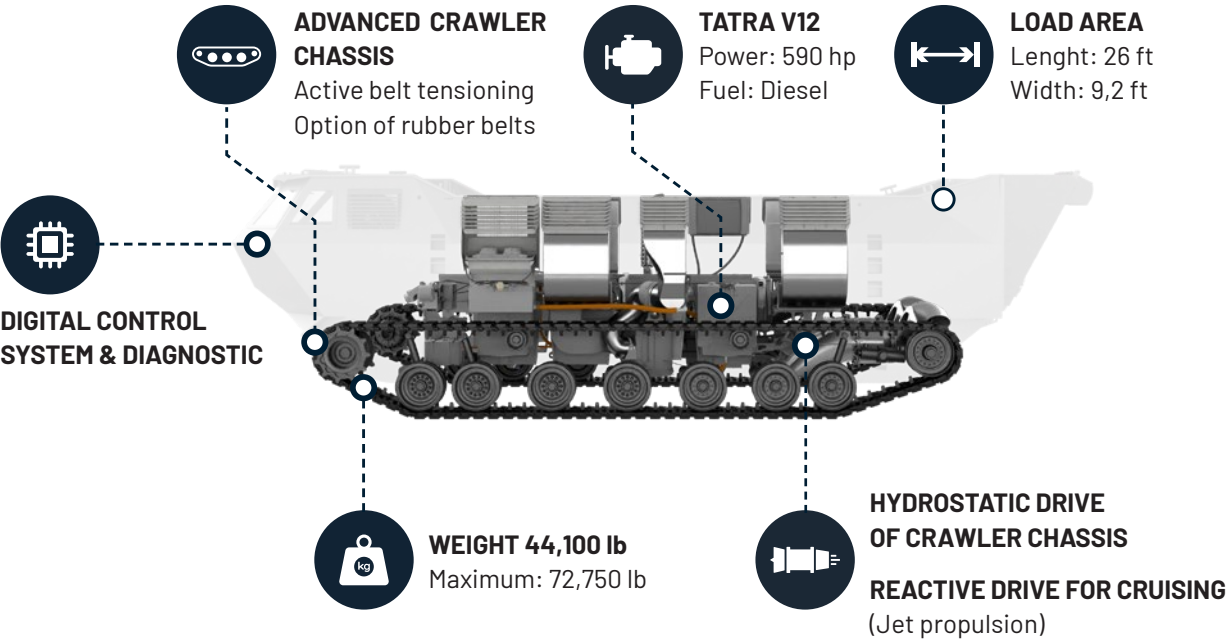
- / Transportation of military equipment &/or units
- / Advanced controlling systems
- / Ready for the defence

Designed for crisis situations



KEY FEATURES

Amphibious platform that adapts to your missions



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KALAN will get the rescue team and equipment where it's most needed.



SPEED

31 mph dry
22 mph terrain
7,5 mph cruising



CAPACITY

1+ 2 crew members
up to 70 evacuated people



SIZE

33,5 ft lenght
10,8 ft width
10,1 ft height



SIDE SLOPE

30%



GRADIENT

60%



OBSTACLES / APPROACH ANGLES

Vertical obstacles: 25,6 in
Departure: 40° / Approach: 42°



TRENCH CROSSING

3,2 ft

CREW CABIN

Ergonomically designed cabin for intuitive vehicle / vessel control.



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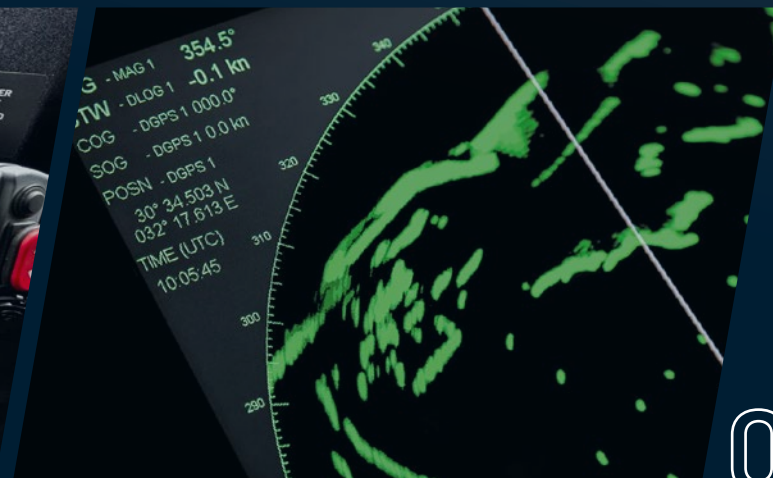
/ Main large touchscreen for clear display of important parameters for vehicle control



/ Electronic mirrors with option of 360° cameras for monitoring of vehicle surroundings



/ Easy drive and sailing control, smooth transition from land to water and back



/ Navigation systems (sonar, GPS, night vision)
/ Compatible with communication systems of rescue forces

TRANSPORT



Overcomes even difficult terrain

Tested in conditions where **conventional equipment fails**. Thanks to its **advanced tracked drive**, it can handle even the **toughest conditions**.



Maximum weight 72,750 lb

With **huge capacity** of load can transport supplies, heavy equipment, fuel, **humanitarian aid** and specialized equipment - exactly where it's **most needed**.



Rescue and towing

With its **integrated winch**, KALAN can **recover vehicles and equipment** from snowdrifts, deep mud or flooded terrain.



THROUGH
LAND
& WATER

Optional equipment



Hydraulic arm



Container loader

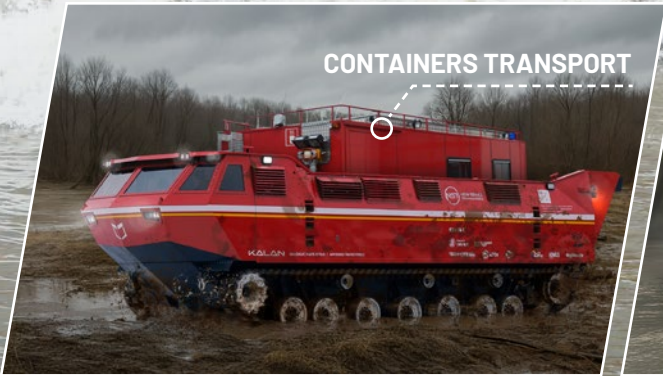


Floor-mounted rollers



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Pushing the boundaries of transport in crisis situations.



FIREFIGHTER VEHICLE



Fire-fighting

The vehicle can be equipped with **powerful remote-controlled fire-fighting monitors**, which are located on the roof and front of the vehicle.

The body is prepared for the installation of a tank with a capacity of up to **2113.4 gal** of water or **132.1 gal** of foam.

Roof
528-1057 gpm

Front
66-211 gpm



Pumping out flooded areas

Thanks to **powerful pumps**, water can be pumped out of **flooded areas** or lagoons.



Decontamination

KALAN can also help in the event of an **ecological disaster** and effectively pump out **contaminated material**.

*Developed in cooperation with Rescue Unit of
the Fire Department of the Czech Republic.*

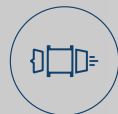


FLOODS AND FLOODED AREAS



Smooth transition from land to water

With **clever and straightforward** controls, KALAN makes the switch from land to water **smooth and easy**.



Deep water overcoming

Thanks to its **powerful water drive** with two **water jets**, it can overcome large **water surfaces** and rivers.



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TESTING WITH RESCUE UNIT
OF THE FIRE DEPARTMENT
OF THE CZECH REPUBLIC

RESCUE AND EVACUATION



Transport of endangered or injured

KALAN can carry up to **70 people** or **12 medical stretchers**, making it ideal for the **safe evacuation** of injured individuals in **difficult terrain** or flooded areas.



Rooftop, handrails

Evacuated or injured individuals, along with **rescue teams and paramedics**, are **protected** from external conditions. Handrails ensure **additional safety** during transport.



Rescue equipment

Optional **storage space** is available for **rescue and medical equipment**, life vests, or **lifeboats**.

Evacuation up to 70 injured people.



MILITARY VEHICLE



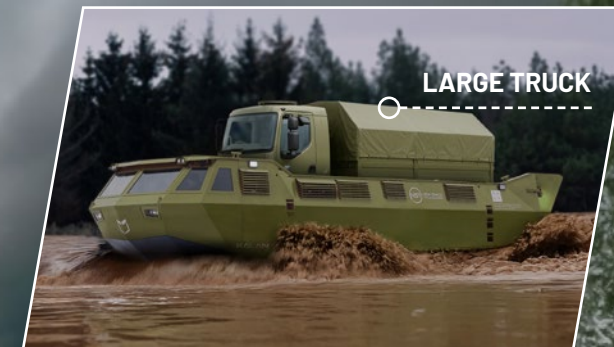
Amphibious platform for battle support

KALAN allows the **integration of various military systems**, including weapon modules, guided missiles, or radar equipment. It can carry and deploy systems such as **MLRS** (Multiple Launch Rocket System) or **SHORAD** (Short-Range Air Defense).



Force in formation – remote controlled gun batteries

Multiple KALAN vehicles can be deployed as a fully operational gun battery. The entire system can be **remotely controlled** from a command post, significantly enhancing operator safety and **expanding tactical capabilities** in the difficult conditions.



NEW SPACE TECHNOLOGIES

Company introduction

We are an established but growing engineering office, **specialized on complex custom development and design** for the defense sector, military and civilian special vehicles and unmanned aerial vehicles. The core of the NST team are **experts in structural design, strength calculations, simulations, and production technology**. We provide our customers complete design and development support from initial concepts, ergonomics and design, structural designs (virtual prototypes in 3D) to complete manufacturing and technical documentation.

Prototype production support is also our valued service, in which NST also participates by **supplying of structural units**.

Our competition:

Design | Analysis | Electro | Production





New Space Technologies s.r.o.

Zerzavice 2146, 686 01 Stare Mesto u Uherskeho Hradiste

Areal Slatina a.s., Turanka 1222/115, 627 00 Brno

Czech republic



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