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## CONCEPT OF OPERATION

The Forward Repair System NATO (FRSN) is a deployable workshop and versatile multitool that enables military mechanics to solve almost anything, anywhere and in any conditions.

The FRSN is built on a reinforced NATO STANAG flatrack and with the on-board crane, powerful generator, air compressor, welder, cutting and full range of diagnostic and hand tools, the FRSN crew

will be equipped to support a wide spectrum of operations. From installation of weapons and sensitive equipment in base locations to urgent field repairs of damaged vehicles to get them back into battle quickly.

The FRSN is transported and carried by a tactical truck and can be operational on the ground within 5 minutes of arrival.



7 ton
360 degrees
5 m height

70 kVA 230/400V

GENERATOR

50 Hz Multi-fuel COMPRESSOR

10 bar 900 l/min 100 liter 20 m hose WELDER

MIG MAG TIG IH

## SAFETY

4 m reach

First aid kit
Fire extinguisher
Eye washer
Emergency shower

TOOLS

Manual
Electrical
Pneumatic
Diagnostic

## FOOTPRINT

Approx. 12.000 kg
ISO 1CC 20ft DIMS
Max. 63A (Grid)
Max. 85A (Generator)

## STANDARDS

CE CSC AECTP STANAG



## SYSTEM OVERVIEW

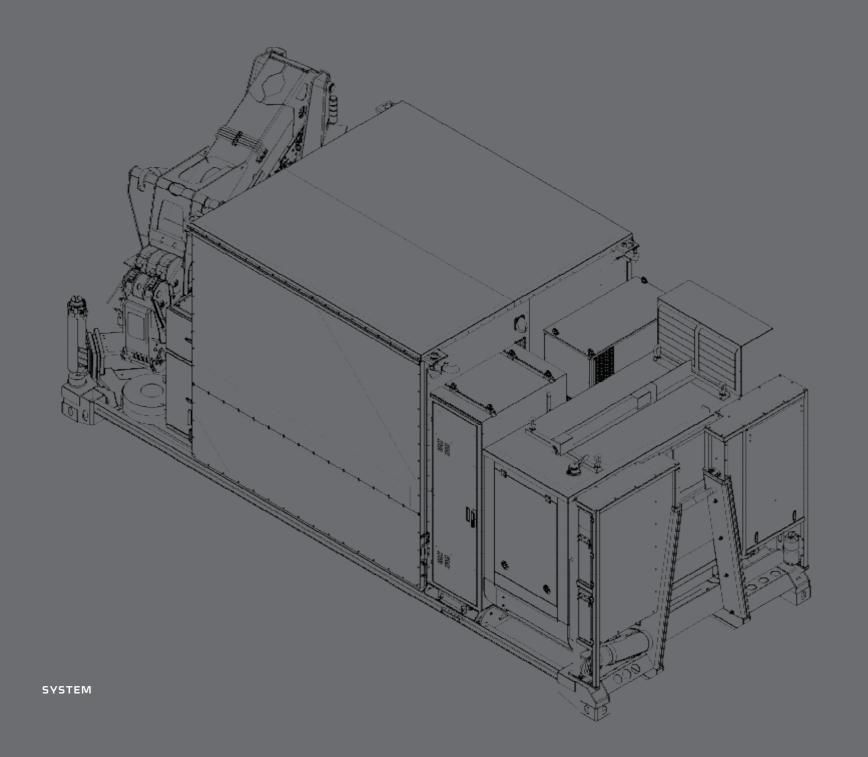
Shelter Assembly: The FRSN shelter assembly is a cube-shaped enclosure approximately 2200x2200x 2300mm square with a reinforced ceiling. The doors on each side of the shelter hinge out to provide additional covered area. The shelter assembly houses and stores the majority of the FRSN tool load. Equipment is stowed and secured in cabinets and customized drawers. A detachable PVC fabric screen can snap around the open shelter to provide additional protection during inclement weather. Lashing points on flooring for securing an EPAL-pallet with spare parts and equipment.

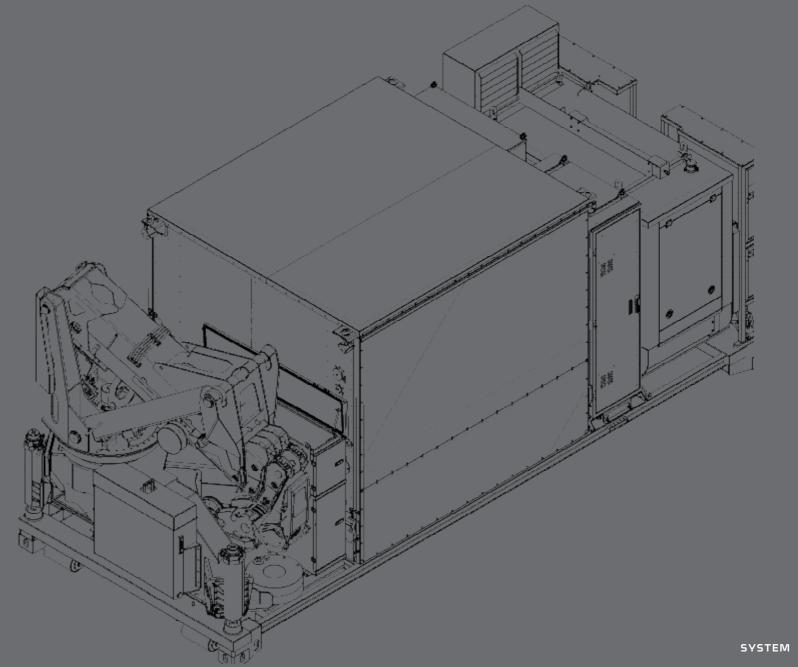
Crane: The FRSN crane can move and replace major components from tracked and wheeled vehicles, including the 6.800 kg heavy power pack from the Leopard 2 main battle tank. The crane can lift

and maneuver up to 7.000 kg in a 4m radius and 5m height from the rear. Stabilizing hydraulic legs are deployed for full stabilization and 360° operations. The crane is controlled on the main panel or via a remote control.

Generator: The FRSN is powered by a 70 kVA diesel generator. The generator is capable of simultaneously providing electrical power for all subsystems, including lighting, induction heater and power take-off for the crane. The FRSN can also be connected to an external power source like a transporting vehicle or power grid. The generator can be modified to accommodate specific user requirements e.g. 110V/60 Hz. The generator has a 120 liter tank capacity and runs on multifuel (F54, F34/JP8 and F35/A1).







## SYSTEM OVERVIEW

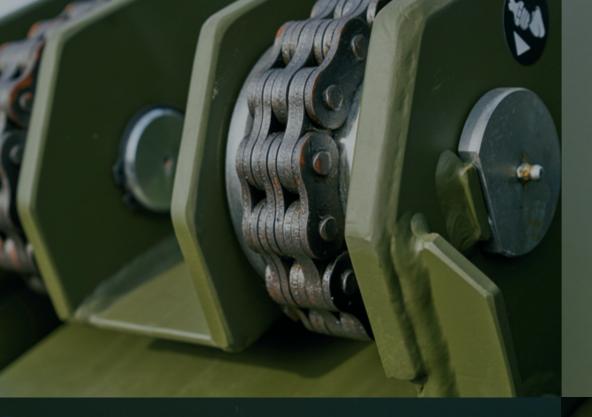
Air Compressor: The FRSN includes an electrical compressor capable of providing 900 liters per minute and 10 bars with 100-liter storage vessel. The air compressor supplies air for on-board pneumatic tools, inflation of tires and compressed air cleaning via the internal distribution line.

Welding Cabinet: The FRSN has a dedicated welding cabinet that can stores multiple hose reels and four pressurized vessels for different gasses and current capabilities includes shielded metal arc,

metal inert gas, induction heater and exothermic cutting/brazing.

Tool Load: The FRSN contains multiple storage cabinets for tools and lashing points for securing of heavy spare parts and cargo. Foam organizers allow for visual inventory of tools and equipment. Shelter interior and tool load is modular for ease of customization to accommodate desired operational profile and vehicle setup.

















#### TOOLS

A key component of the FRSN is the workshop tool load. This can be supplied as a custom made toolkit or directly by the end user as GFE.



#### DOCUMENTATION

The FRSN is delivered with a comprehensive documentation package for operation, maintenance and certification of the entire system.



#### SPARE PARTS

The delivery of the FRSN includes spare parts and consumables catalogues for various maintenance programs. Parts are shipped worldwide.



#### TRAINING

The FRSN user training consists of an extensive operator and maintenance course, usually completed in 5 days by our experienced instructors and engineers.



#### MAINTENANCE

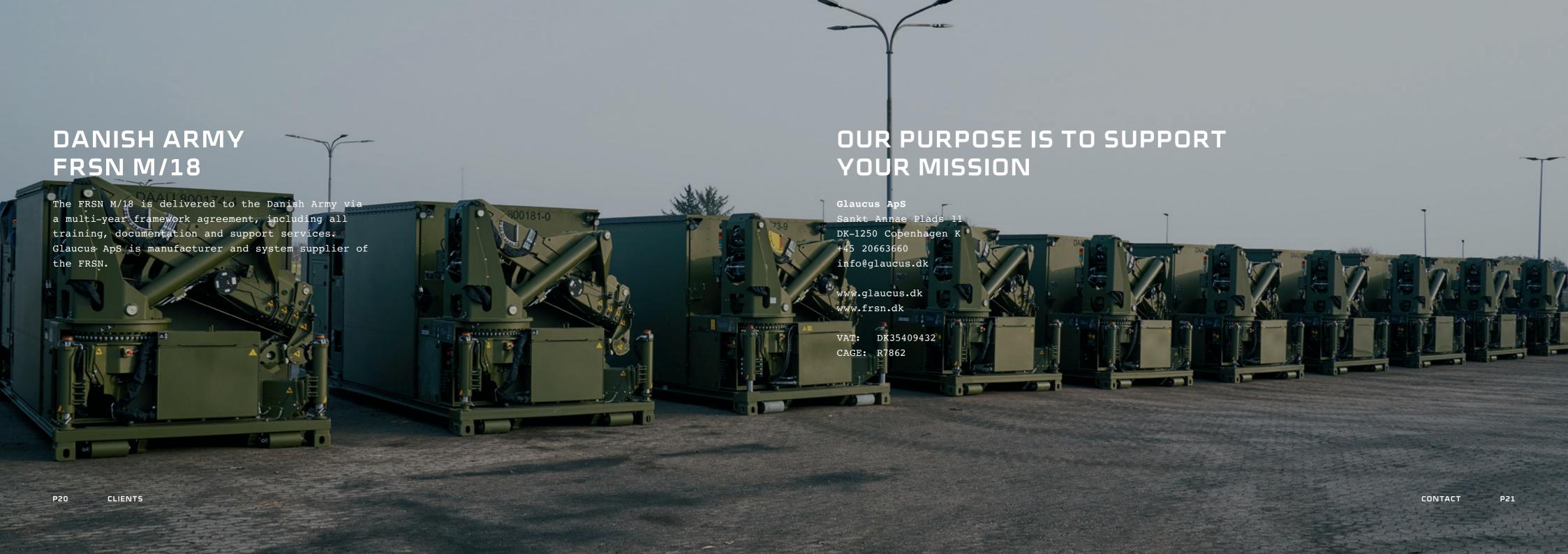
The periodic and preventive maintenance of the FRSN is scheduled to ensure operational readiness and can be provided as a service to our clients.



### CUSTOMIZATION

The existing design of the FRSN can be customized to fulfill specific user requirements and operational profiles, e.g. generator power output, workshop interior.







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