



ZONE DEMINING SYSTEM



Zone Clearance System



SDZ: ZONE DEMINING SYSTEM



The mechanical mine/IED clearance solution

The SDZ (Zone Demining System) is a powerful, multipurpose and efficient machine able to respond to all demining needs. The SDZ is especially designed to mechanically clear extensive explosive contaminated areas or to create safe lanes quickly. After its use, all types of military or civilian activities (roads, agriculture, etc.) can be undertaken in safe conditions.

Anti-tank mine resistant, the SDZ can perform all EOD tasks when used with different, easy-to-fit tools: bucket, auger, grab, fork, etc.

For safety, the SDZ is remote controlled from armoured or other vehicles; it is equipped with cameras and a GPS system. It can also be controlled visually.



Several SDZ can breach through mine fields.

SDZ PERFORMANCES

- mine clearance depth: up to 30 cm
- clearance width: 2.10 m
- clearance performance: minimum 500 sqm/h



TOOLKIT OPTIONS

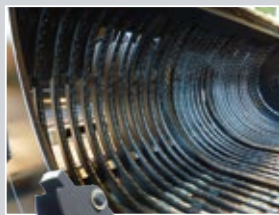


The main mission of SDZ is to clear a explosive contaminated zone. But, in addition, the SDZ is capable of safely carrying out the following operations:

- moving or removing explosive devices,
- destroying them,
- building protective structures to minimise blast effects, etc.

So, the SDZ has several tool kit options including:

- auger,
- backhoe,
- bucket,
- segregator bucket,
- dozer blade.





Exemple vehicle (VAB)



OPERATING CONFIGURATIONS

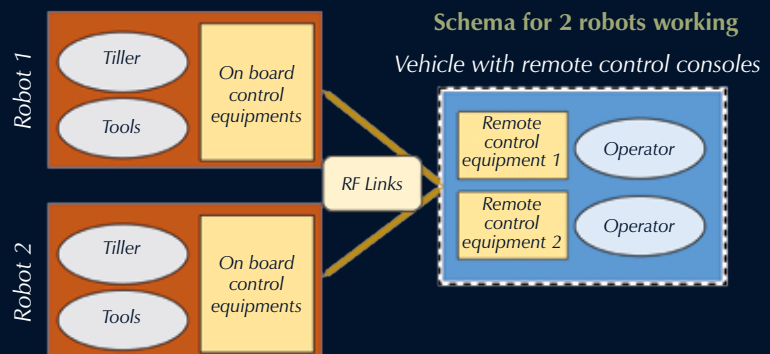
The operator can control the machine visually. If the remote control is used from a vehicle, he operates a console with a complete range of commands.

If two SDZ are working simultaneously, two operators are in the armoured vehicle and each can remotely control one machine. The two remote control channels are independent.

Operators control all functions like motion, demining process, and video feedback. In addition, automatic function is implemented.

Cameras allow operators to observe at the front and at the rear for motion control function. PTZ and panoramic vision sensor devices are also on vehicles in order to observe large or specific relevant area.

Embedded sensors like GPS and IMU are dedicated for localization.



on the VAB



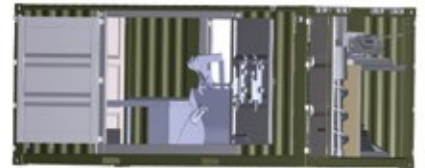
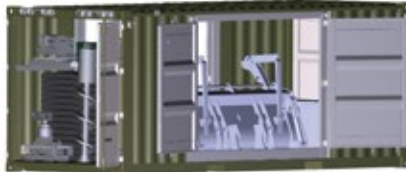
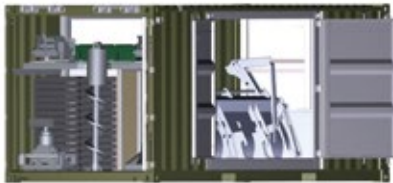
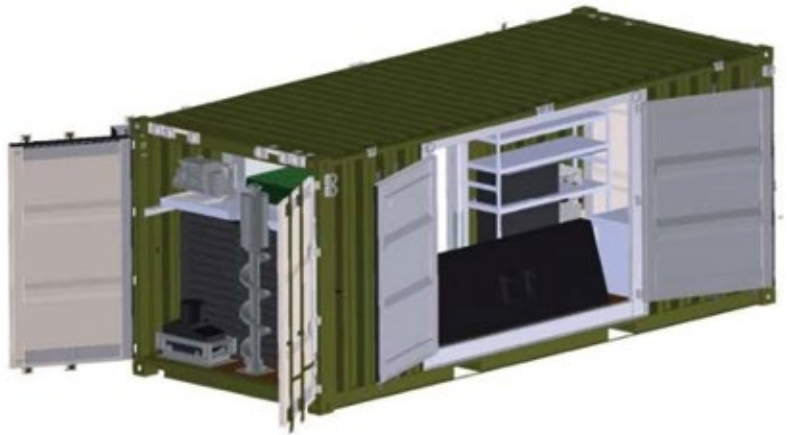
on the SDZ



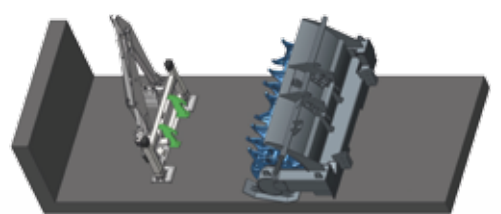
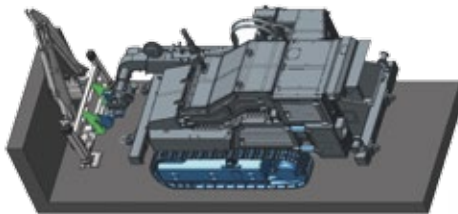
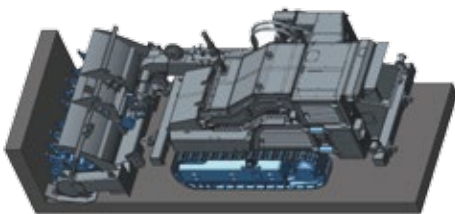
LOGISTICS ASPECTS

SDZ CONTAINER

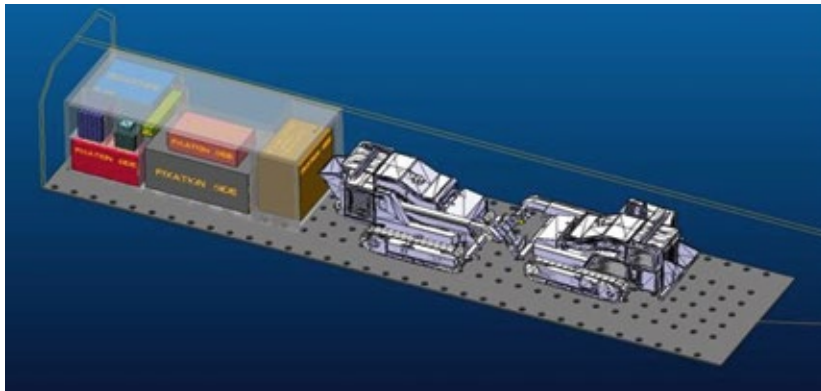
The shelter is used for the storage and the transporting of tools and teleoperation devices. It can also be usefully installed in the field to provide a shed and workshop for maintenance tasks.



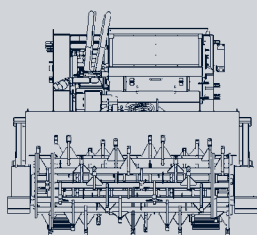
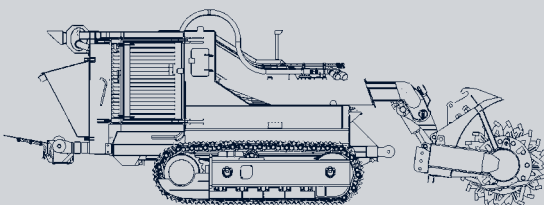
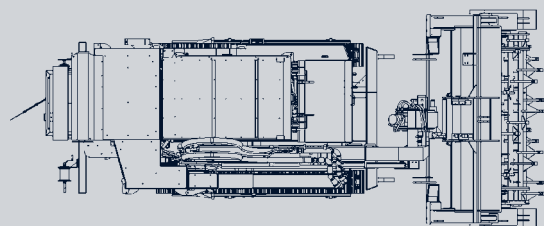
The SDZ is transportable on loading platform



The SDZ is air transportable by A400M or C17



GENERAL CHARACTERISTICS



DIMENSIONAL DATA

Overall length with tiller	6,400 mm
Overall width, tiller	2,800 mm
Working width	2,100 mm
Mass, vehicle alone	10 700 kg
Mass, tiller	2 600 kg
Mass Total with tiller	13 300 kg

DRIVING SPECIFICATIONS

Tracks	Steel
Ground clearance	430 mm
Maximum climbing ability	60 per cent
Maximum climbing ability when working	50 per cent
Maximum side slope	45 per cent
Maximum speed	10 km/h

ENGINE SPECIFICATIONS

A low-consumption, low-maintenance advanced technology engine.

Engine type	Deutz
Engine max power	250 CV
Engine max torque	1050 N.m (ISO 14396)
Fuel capacity	300 l
Average fuel consumption	25–32 l/h
Ambient temperature at full power	55°C



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CERTIFICATION & QUALITY

Our activities in the Defence and Pressure Vessels fields involve perfect mastery of our management and product processes. Our various certifications demonstrate our desire for excellence in satisfying your needs.

- ISO 9001 – 2008
- ISO 3834-2 + AD Merkblatt HPO
- PED 2014/68/UE

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