

Vehicle Mounted Mine Detection System (MVMMS)

MINE PROTECTED VEHICLE

MVMMS was designed to detect metallic landmines, including those with minimum metal content, as well as UXO'S, from a mine-protected vehicle platform. An array of mine detectors, covering an area of between 1.0m and 6.0m in width, is fitted onto a drawmat and drawn behind or to the side of a mine-protected vehicle, to indicate the positions of the source of each signal on the ground. The system is linked to a computer inside the mine-protected vehicle, displaying a continuous indication of the metal objects detected by the array. The system is capable of operating at speeds of up to 10 km/h while providing real-time detection.

The MVMMS system can be mounted on any mine-protected vehicle with limited preparation and is controlled and monitored from inside the vehicle. Although the system is designed to be used on established routes, it does have a limited rough terrain capability. The system is modular in design and consists of a mine detector array and a marking system.

CAPABILITIES

- Mobile metal detection
- Flexible all terrain application
- Ease of integration
- Electronic data processing
- Environmentally friendly marking paint
- GIS compatibility.



USE TO DATE

MECHEM has used one Casspir and one Tapir configured system up to date in Mozambique and trails in South Africa since 1997.

TEST & EVALUATION

MECHEM has done vast evaluations of the system over a period of 4 years and find the system ideal to be part of the mechanical demining toolbox.

Test reports of the system are available on request.



TECHNICAL SPECIFICATION DETECTION ARRAY

Effective detection width	1000 mm (39.40")
Dimensions	1168 mm (45.60") wide 613 mm (24.10") deep
Weight	27 kg (59 lbs)
Number of detection heads	8
Bend angle per detection head	+/- 2°
Bend angle per segment	+/- 14°
Operational temperature range	-40°C to + 85°C
Storage temperature range	-55°C to + 85°C

The given weights and dimensions include the drawbed, for wider array configurations add 1000 mm (39.40") in width and 27 kg (59 lbs) in weight for each additional meter of segmented array.

MAINTENANCE, SUPPORT ETC.

The operators can do first and second line repairs after training.

The MVMMS system requires an operator who is familiar with Windows 95/98 or 2000. Basic knowledge of computer and software diagnostics, installing drivers and software, Windows explorer and e-mail. Basic knowledge of electronics, pneumatics and hydraulics.

For the vehicle, normal maintenance mechanics are sufficient.

