

SPARK III

SPARK III enables freedom of manoeuvre and maintenance of operational tempo in the face of a range of on- and off-route explosive threats with the ability to DETECT, PROTECT and DEFEAT.



SPARK III

SPARK III delivers a scalable and modular suite of route proving and clearance capabilities for integration with a wide range of vehicles.

Commonality of spares and training ensures a minimal logistical burden for the deployed force.

DETECT

Ground Penetrating Radar (GPR) is available for detection of low metal content threats. Selection of GPRs available for integration to meet operational requirements.

Metal Detector can be integrated for detection of higher metal content threats.

Deployment of sensors using the manipulator arm maximises detection stand-off and available stopping distance. Dextrous control over a large range of motion enables off-route detection.

Active height control and terrain following ability maximises sensor performance and ease of operation.

High definition visible and infrared vision systems enable positive identification of surface laid threats and ground-sign at a distance.

Threat Marking System automatically marks the locations of detected objects with highly visible dye.

DEFEAT

A range of Manipulator Arm attachments can be interchanged rapidly, allowing one vehicle to transition from DETECT to DEFEAT missions in minutes:

- + Grapple
- + Ripping Tine
- + Bucket
- + Hydraulic Shears/Spreaders
- + Disruptors

A high velocity Air Lance can be deployed for non-invasive excavation and debris removal, aiding in threat confirmation and ground interrogation.

PROTECT

Vehicle and crew survivability are enhanced through use of a Route Proving Roller to protect the host vehicle from pressure-initiated threats. Hydraulic pushdown maximises ground pressure with minimum impact on mobility.

Full width roller gangs actively check the route for the presence of IEDs, acting as a 'decoy' for follow-on vehicles.

Steered roller and sensor ensure effective vehicle coverage on complex routes.

An optional Infrared (IR) Decoy disrupts Passive Infrared (PIR)-initiated threats such as off-route Explosively Formed Projectiles.

Large stand-off from threats is provided by combination of Route Proving Roller and Manipulator Arm during interrogation tasks.

SUITABLE FOR:

- + Medium weight wheeled vehicles
- + MRAPs

