

BRIMSTONE ON TRX UGV

PRECISION SURFACE ATTACK OVERWATCH SYSTEM

The challenges of the modern battlefield increasingly demand that tactical land forces have the organic capability to engage adversaries with precision at range and in volume.

Brimstone offers 'one missile, multi-platform' versatility and is designed to be integrated onto helicopters, fixed wing aircraft (including fast jets), land vehicles, naval platforms and UAVs. The TRX UGV is a robust, electric-drive, tracked UGV that can carry a variety of mission payloads. The surface-launched Brimstone payload provides the tactical commander with the capability to deliver precision anti-armour effects at long ranges, with minimal integration, whilst maintaining the high mobility and autonomy of the TRX platform. The surface-launched Brimstone and TRX can be controlled through the full-range of options from remote control, teleoperation and semi/full autonomy.

Capability

- Engaging quickly and effectively, the Brimstone/TRX payload allows for enhanced flexibility across light and heavy combat teams
- High loadout offers MBT denial and mobile counter-mass capability for a dispersed force
- Fire support in all weather, all terrain, day or night
- Persistent capability regardless of CBRN attacks
- Compact, allowing multiple options for theatre entry
- Rapid into/out of action times
- Broadside firing maximises missile range compared to vertical launched systems
- Line-of-sight or non-line-of-sight engagements
- High off-boresight agility
- Flexible engagement via third party targeting from a variety of sensor options within the battlespace
- Salvo launch option to achieve co-ordinated effects on multiple targets during a single mission

Effector – Brimstone

- **Battle proven – over 98% success rate in defeating static, moving and manoeuvring target sets including MBTs and other armoured vehicles**
- **One common missile for all missions and platforms**
- **Organic battlegroup capability**
- **Low collateral damage in restrictive engagement scenarios**
- **All-weather fire-and-forget capability**
- **Defeats all known Defensive Aid Suites/ Active Protection Systems**
- **Extends effects coverage and points of presence**
- **Repels adversary formations and single point targets**
- **Simple integration into platform architectures**
- **Best in class Insensitive Munitions-compliant for safety**

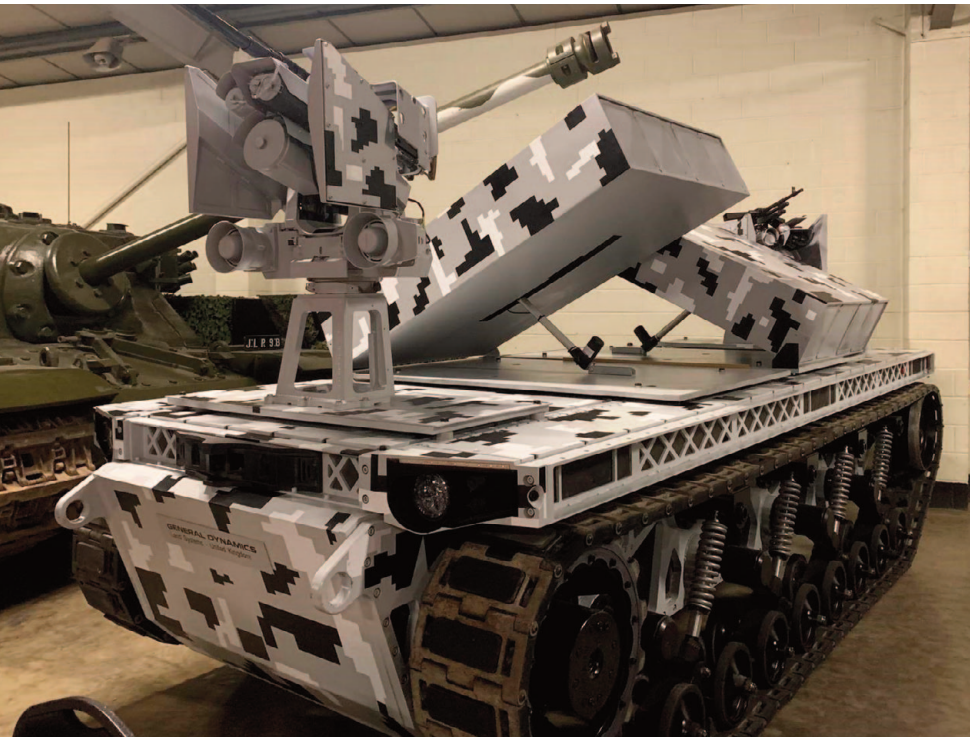
Platform – TRX UGV

- Low-profile inconspicuous Brimstone module silhouette disguises capability and ensures self defence weapon not impeded, giving increased platform survivability
- Missile efflux controlled vent produces a minimal launch signature compared to vertical launched systems
- Able to self-reload in action without the support of logistic equipment
- Rapid reload using standard battlefield support assets
- Communications capability with other friendly assets in the battlespace
- Options for integration with battlefield management system software

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LAND

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Seeker

- 94GHz millimetric Wave (mmW) radar
- Semi-Active Laser (SAL)

Flexible modes of engagement

- SAL, SAL/mmW, mmW modes. In dual mode, SAL guidance can handover to mmW guidance for increased accuracy once the missile determines the exact target being designated
- Rapid salvo capability (mmW only mode) for area, column and point kill
- Point attack utilising mmW guidance for all-weather, low visibility engagements

Effects

- Effective against a wide variety of targets for land (including all known conventional and reactive armour), maritime and air
- Low collateral damage in restrictive engagement scenarios

Navigation and guidance

- Next generation IMU and autopilot for precision at range
- Inertial mid-course navigation and seeker determination for target acquisition
- High bandwidth guidance and agility for fast manoeuvring targets

Propulsion

- Cast double base propellant rocket motor
- Strip steel laminate motor case

Technical characteristics/specifications

Weight:	**50kg**
Length:	**1.8m**
Diameter:	**180mm**
Guidance:	**Millimetric wave radar and semi-active laser**
Warhead:	**Multi-effect, tandem-shaped charge with adaptive fuzing**



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