



ADVANCED CENTRIC SYSTEMS B.V

LAND ROBOTIC SOLUTIONS

Product brochure



THE PROBLEM

Saving life by avoiding risks is an overriding principle of modern warfare. One of the practical ways to implement this principle and accomplish this goal is to keep the human element out of loops where it is not absolutely essential.

One way to keep the human element out of the loop is through the use of robotic systems.

The first experiments in the use of robotic systems on the battlefield date back to World War II, when the Germans and the Russians employed remotely-controlled platforms for various purposes. Since then, robotic systems have come a long way and are currently being employed for an extensive range of functions, from surveillance and reconnaissance to medical evacuation.

The tremendous success of Unmanned Airborne Vehicles (UAVs) led to the development of Unmanned Ground Vehicles (UGVs) and more recently to the development of Unmanned Surface Vessels (USVs) for marine applications.

Ground robotic systems can provide effective solutions for an extensive range of battlefield needs where human operators should be kept out of the loop, notably in Dull, Dirty or Dangerous (DDD) missions.

THE SOLUTION

ACS presents LaRS (Land Robotic Solutions) – an extensive range of robotic solutions for various military, HLS and civilian applications.

The various systems in our LaRS range offer solutions for the following activities:

- Combat operations
- EOD/IED detection/disposal & obstacle clearing
- Combat engineering operations
- Logistic support
- Perimeter security & border protection
- Training & simulation
- Civilian applications

Three notable examples of our LaRS range are ASIPS (Autonomous Surveillance & Intrusion Prevention System), RALCAMP (Robotic All-Terrain Load Carrying Autonomous Motorized Platform) and RMTAD (Robotic Multi-Task Autonomous Dozer).

Additionally, ACS offers robotic kits that convert standard vehicles into fully-robotic (autonomous) or dual-mode (manned/unmanned) platforms.

KEY FEATURES & MAJOR ADVANTAGES

Key Features & Major Advantages

- Cutting- edge, heavy duty land robotic solutions for various applications
- Excellent maneuverability and effective control, even under difficult terrain conditions
- Fully-robotic (autonomous) or dual-mode (manned/unmanned) solutions
- Selectable autonomy level & programmable modes of operation
- Day/night & adverse weather operation
- Typical missions:
 - Battlefield Intelligence, Surveillance, Target Acquisition & Reconnaissance (ISTAR)
 - Earth moving & heavy engineering
 - EOD/IED detection/disposal & obstacle clearing
 - Decoy & deception
 - Ambush & attack
 - Convoy protection
 - Logistic support

