ADVANCED CENTRIC SYSTEMS B.V

ROBOTIC ALL-TERRAIN LOAD-CARRYING AUTONOMOUS MOTORIZED PLATFORM

Product brochure

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THE PROBLEM

On today's battlefield, infantry units are called upon to employ not just their organic cutting-edge weapon systems, but an extensive range of additional communication, surveillance, fire support management and intelligence systems, from radio transceivers and binocular/laser rangefinder/pointer kits through antitank and antiaircraft missiles to man-portable UAVs. Additionally, modern-day operations present complex logistic situations where troops operating at the front line or behind enemy lines cannot be resupplied and need to carry food, water, ammunition and medical supplies that would last them for the duration of their mission.

Historically, infantry troops were always required to carry heavy loads on their person, but in recent years, technology and the range of additional equipment items currently available and required for effective combat operations have forced the individual trooper to the extreme limits of his load-carrying capacity.

In the past, horse-drawn carriages, mules and Jeeps were used to help combat troops carry their essential gear and supplies with them. This concept has been revised and updated for the 21st century with the introduction of the ACS RALCAMP – Robotic All-Terrain Load-Carrying Autonomous Motorized Platform.

THE SOLUTION

ACS presents LCAMP – Load-Carrying Autonomous Motorized Platform is a unique wheeled motorized platform capable of carrying weaponry (e.g. machine guns, mortars and missile systems), surveillance equipment, compact UAV systems, ammunition, food, water, medical supplies and any other dedicated systems or equipment items the user detachment may require during combat operations.

Based on reliable robotic technologies, LCAMP is programmed to follow the user detachment autonomously.

The use of a robotic load-carrying platform that requires minimum handling enables the user detachment to carry additional equipment, ammunition and supplies, thereby reducing its dependence on logistic support and extending the period it may remain deployed and operational. Additionally, the robotic platform relieves the individual troopers of some of the load they are forced to carry into the battlefield, thereby improving their combat performance, agility and alertness.

Dedicated loading and packaging systems make it possible to load function-specific kits (e.g. dedicated logistic and operational kits) onto the LCAMP, in accordance with the mission at hand.

KEY FEATURES & MAJOR ADVANTAGES

Key Features & Major Advantages

- Robotic load-carrying platform follows the user detachment autonomously
- Increases the amount of weaponry, equipment and supplies the user detachment can carry into the battlefield
- Minimizes dependence on logistic support
- Extends the user detachment's battlefield endurance
- Improves trooper combat performance, agility and alertness
- Adaptable to an extensive range of infantry and special operations missions
- Fully operational under adverse environmental and terrain conditions
- Specifications:
    - Carrying capacity: 250 kg
    - Top speed: 12 km/h
    - Dimensions: 160 cm (L) x 80 cm (W) x 75 cm (H)