

Reacher



Description

Reacher is a new state of the art bomb disposal robot with exceptional reach and dexterity. Reacher is the first robot in the industry to have a powered cargo bay to store tool, weapons and a smaller robot designed to go under cars. Reacher has a sliding turret with $\pm 220^\circ$ rotation which assists in accessing those difficult to reach areas.

Drive System

Reacher has a powerful 1200 Nm traction drive system with steerable back wheels. This ensures high battery efficiency due to consuming less power on turning and direction adjustments than traditional skid-steering only robots. Reacher can also provide skid steer for manoeuvring in tight spaces. The rocking back axle and central bogie ensure Reacher can easily traverse the most challenging of terrain.

Sliding turret

The forward and reverse sliding motion of the rotating turret further increases the reach and manoeuvrability of the robotic arm. Stability while reaching and lifting is ensured by central bogie locking mechanism.



Under car robot

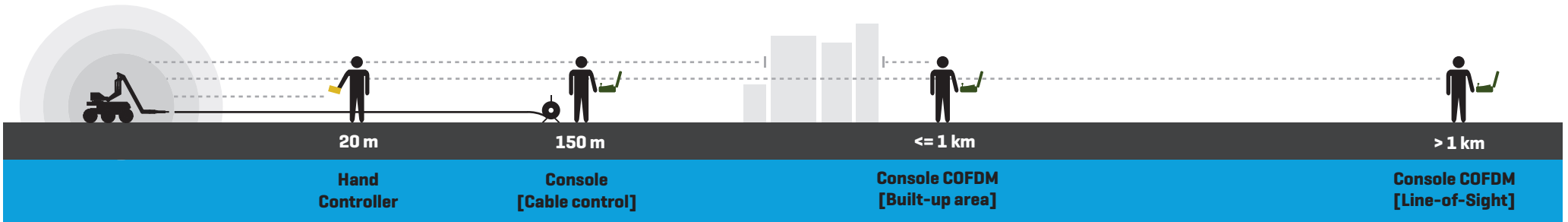
Reacher carries the Remote Disruptor Platform (RDP) within its cargo bay drawer and can deploy it when observation or disruptor capabilities are needed in low clearance situations.



Monavalley Business Park
Tralee, Co. Kerry, Ireland

Tel: + 353 [0] 66 7120500
Fax: +353 [0] 66 7117475

Email: info@reamda.com
Web: www.reamda.com



Mechanical Features

- Manipulator arm with 7 degrees of freedom
- Turret rotation: $\pm 220^\circ$
- Gripper rotation 360° continuous
- Arm lift capacity: 85 kg+
- Reach: 230 cm forward, 160 cm horizontal
- Reach: 300 cm vertical
- Stow dimensions: 156.5 x 75.1 x 105 cm
- Zero point turning capabilities
- Speed: 8 km/h
- Weight: 385 kg
- Climbing ability up to 42°

Optional Features & Accessories

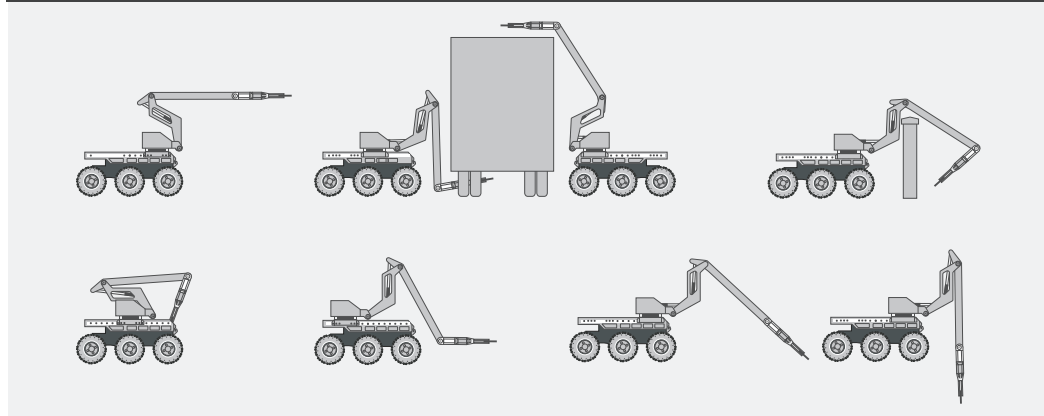
- Remote Disruptor platform (RDP) for under-car or low clearance operations
- 3rd party CBRN sensors
- Accessory cameras for custom views
- Optimised X-ray system for military narrow band radio systems [robot deployable]
- Reacher training simulator [Plug in unit for Command Console that simulates Robot in various scenarios]
- 150m Cable drum for ECM operations

Communication

- Command Console**
- Rugged hard-wearing weatherproof case
 - 19" high res daylight readable video display
 - Quick 5 second start
 - Easy to use intuitive user interface
 - Sensitive joysticks include twist to zoom
 - Advanced 10" TFT touch screen works in direct sunlight and while wearing gloves
 - Real-time graphical feedback gauges including robot inclination
 - Picture-in-Picture feature to show two switch-able camera feeds simultaneously
 - Camera environment settings for improved light levels
 - Key activated weapons screen with self-tests and diagnostic feedback
 - Weight 17kg



Range of movement



- Wireless Hand Controller**
- Rugged, portable, hand-held controller
 - Full electric actuator control
 - Dead man switch for drive control safety
 - LED indicator for battery and comms range
 - 4 hrs. battery life

