



Team Information – Remotec UK Ltd



Remotec Wheelbarrow Revolution



Remotec Cobra

Name of Vehicles:

Remotec Wheelbarrow Revolution

Picture of team leader:

Remotec Cobra



Name of team leader:

Philip Ripley

Team Name:

Remotec

Team E-mail:

pringley@remotec.co.uk

Website:

www.remotec.co.uk

Location:

Coventry, UK

Institution/Company:

Remotec UK Ltd

Address:

Unit 5, Quinn Close,
Manor Park, Whitley,
Coventry CV3 4LH

Telephone:

++44 (0)2476 516001

Fax:

++44 (0)2476 516044

Team Description:

The Remotec Team entry into ELROB2006 is for two vehicles, as named above. The Team itself is led by Philip Ripley, Business Development Manager at the Coventry site, with assistance from a range of Engineering and EOD specialists. Remotec is a subsidiary of Northrop Grumman, which is one of the leading global players in the Defence Industry. It is our intention to demonstrate two vehicles, as described below:

Remotec Wheelbarrow Revolution

Wheelbarrow is generally regarded internationally as the benchmark for EOD operation, based as it is upon the experience of the UKMoD through the long standing terrorist threats arising from the

Troubles in Northern Ireland and elsewhere on the UK Mainland, from the mid-1970s onwards. The Wheelbarrow Revolution is the latest development to the Wheelbarrow range and is proving to be exceptionally popular with operators requiring deployment in confined locations, such as between parked cars.

Revolution's rotating turret offers a 7DOF, 360° continuous turn of the manipulating arm coupled with a 4m reach and potential 150Kg payload. Command is by cable, fibre-optic link or by radio. In this latter mode, 1 Km line-of-sight operation comes as standard. The vehicle also features revised track geometry to ensure retention of full mobility in the harshest of battlegrounds. The ability to control each function to the finest level and 45° stair climbing capability make for a highly versatile piece of equipment. Revolution also features four cameras with multiple Picture-in-Picture views, two-way audio, class-leading mobility and stability, the availability of a wide range of EOD attachments available, multiple weapon release capability (up to seven max), a unique stance change facility for enhanced stability, and remote battery trickle charge option. The vehicle is designed to be capable of internal as well as external operation, and has a top speed of up to 5kph.

There are 400 Wheelbarrow EOD vehicles in the field, with current significant activity in UK and Middle East locations.

Remotec Cobra

COBRA is a totally new vehicle from the home of EOD unmanned vehicles, Remotec UK. Its speed, mobility and dexterity will dramatically raise operational expectations. The application of the latest design concepts, coupled with leading edge material specifications, make for a vehicle that performs exceptionally in the harshest of conditions. The vehicle is the result of a major three year development exercise to identify the next generation of equipment for use in the fight against terrorism on the ground.

From the patented tyre design to the "Fly from the Head" 9- degrees of freedom manipulating arm, COBRA sets tough new standards – and delivers results quietly and very quickly. Features include high speed of operation (in excess of 10kph), creep mode (0.01m/s), Six cameras with multiple Picture-in-Picture views, 6x6 high articulation wheels with stability feature, maintenance-free, puncture-proof tyres, remote tool changing device, programmable arm configurations, auto-rewind Fibre Optic with safety features, "Fly the head" design for operational simplicity, multiple "Plug and Play" sockets for variety of accessories and modular, expandable open architecture software design.

This vehicle is at an advanced stage of development and will be commercialised within the next eighteen months.

Sponsors: Remotec UK Ltd
Selection of scenario: urban ✓ non-urban ✓ EOD/IEDD/UXO ✓ exhibition ✓