

TELESCOPIC MANIPULATOR AXIS-2



ROBOTIC HEAD TELESCOPIC MANIPULATOR AXIS-2 NSN : 1385 99 905 0766

The **AXIS-2** robotic telescopic manipulator has been developed with leading EOD operators in the British Army.

The manipulator offers the following advantages:

- Operators may carry out tasks at a 3 meter stand off, offering increased levels of safety.
- Ability to place disrupters, X ray equipment and a host of other tools used in device disposal and investigation.
- Jaws open/close and rotate under powered control. The angle of the jaws is achieved by manual adjustment.
- Adjustable counterweight for perfect balance.
- Telescopic tube sections, that simply plug together.
- Transport case (1700 Pelican).
- Rechargeable battery (charger included).
- Twice the rigidity of other telescopic manipulators.



The claw is positioned at the end of a 3 metre telescopic arm. This standoff distance significantly increases operator safety, in the event of an unplanned detonation. The manipulator also hosts a frangible section. In the event of an unplanned detonation, this section will fail first, significantly reducing the force transferred along the manipulator to the operator.



The extendable counterweight at the rear allows balance to be maintained when working. The counterweight may be preset, so that once a suspect device is lifted, perfect balance is obtained, thus making handling easier for the operator. Fine adjustment of balance may be achieved by moving the manipulator forwards or backwards on the shoulder strap.



The robotic claw is able to manipulate disrupters, X-ray equipment and a host of other tools used in disposal or investigation techniques. The ability to grasp, and rotate objects in the claw also offers the options of moving devices into containment vessels, or to reposition them in.

Once a device is held in the jaws, the ability to rotate the jaws ensures that the device may be moved in the safest orientation for the operator.

TECHNICAL DATA

Distance of operator to claw : 3 meters
 Maximal length : 5,1 meters
 Maximum weight that can be lifted : 15 kg
 Maximum gripping force : 20 kg
 Manipulator weight, assembled, ready to use : 14 kg
 Manipulator weight, collapsed down, in transit case : 21,5 kg
 Claw maximum opening : 200 mm
 Claw rotation : 360 degrees continuous
 Power supply : rechargeable battery 12V 3Ah Ni-MH
 Operating time : manipulator used in a typical EOD operation : +/- 18 h