



LMDE

The Limpet Mine Disposal Equipment (LMDE) has been developed to disrupt thin cased mines that have been attached to the hull/structure of a ship or underwater installation.

The LMDE comprises of a disruptor system mounted in a stand which is attached to the hull or structure using magnets. The LMDE is diver deployable and has buoyancy blocks fitted to the stand to assist carrying and placement.

The system would normally be prepared on deck or land then positioned adjacent to the target. Once in position the stand has features to allow the barrel to be accurately adjusted and positioned against the target.

In operation, the LMDE projects a "slug" of water at high velocity into the target. This water penetrates the box of the target and disrupts the explosive filling and detonation mechanism providing a high degree of confidence that detonation will be avoided. The energy required to project the water is derived from an electrically initiated power cartridge.

The power cartridge may be initiated from a safe distance either on land or the ship's deck using an electronic exploder such as ABP's Minex.

The LMDE is manufactured from corrosion resistant materials throughout, the stand being of hard anodised aluminium and stainless steel construction. The disruptor is of stainless steel construction which is pressure tested and flaw detected before supply.





EQUIPMENT

BOX 1

Block Buoyancy Centre	100091-0001-001
Block Buoyancy RH	100091-0001-002
Block Buoyancy LH	100091-0001-003
Stand Magnetic	100091-0002
Sleeve (2)	100091-0002-005
Clamp (2)	100091-0002-006
Securing Band (Buoy blocks) (2)	100091-0002-007
Spanner Open Jaw Fixed	100091-0002-008
Case (LMDE)	100091-0010
Parts Kit Stand Magnetic	100091-0012-001
Rod Ejector	100091-0013-001
Handbook	AB8525
Magnet Permanent (4)	A1717/99
Magnet Permanent (4)	A1717/100
Spanner Open Jaw Fixed	
Wrench Key Socket Head Screw	
Adhesive Rubber Synthetic Liquid	

BOX 2

Case Assy (LMDE)	3296-021
Injector Assembly (2)	TX52GA
Screwdriver Large	3320-002
Screwdriver Small	3320-003
Brush	
Brush Handle	
1litre Bottle with Cap	GH390
	ABL1000/19

TECHNICAL DATA

DISRUPTOR

Length:	485mm
Main Body Diameter:	Ø 30mm
Rear Body Diameter:	Ø 51mm

BOX 1

Weight:	15kg
Length:	500mm
Width:	300mm
Height:	300mm

BOX 2

Weight:	7.5kg
Length:	500mm
Width:	300mm
Height:	100mm



CARTRIDGES

3476-0600 TRAINING CARTRIDGE 3476-0650 WARSHOT CARTRIDGE

The LMDE is operated using a bespoke electrically initiated Training or Warshot cartridge. Each batch of cartridges are ballistically tested to ensure correct and consistent performance. The cartridges are supplied in multiples of 18 packaged within an M2A1 container complete with all consumables.

The training cartridge limits operating pressure and avoids barrel damage such that operational equipment can safely be used in training underwater.

When operated in service using a Warshot cartridge, the barrels of the disruptor are sacrificial due to the large pressures generated. Two disruptors are supplied as standard with each kit.

