

USER-FILLED EXPLOSIVE CHARGE CONTAINERS & DISRUPTOR TOOLS

Product Catalogue



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INTRODUCTION Page 3

INNOVATIVE EXPLOSIVE TOOLS

Alford Technologies is the global market leader for innovative explosive charge containers and disruptor tools. Founded by Dr. Sidney Alford in 1985, the company now called Alford Technologies has been at the forefront of water-disruption techniques since the 1970s when Dr. Alford invented the world's first liquid-lined explosive disruptor. Alford explosive tools are now some of the most highly regarded tools in the industry.

WORLDWIDE COVERAGE

Alford products are fielded throughout the globe in operational theatres by the military, and in peace-time operations by major humanitarian demining organisations, and are widely used to support domestic security programmes. The range of versatile charge containers and disruptors includes products chosen by the Counter-Improvised Explosive Device (C-IED) / Improvised Explosive Device Disposal (IEDD), Breaching / Explosive Method of Entry (EMoE), Conventional Munitions Disposal (CMD) and Explosive Demolition communities from around the world.

SUPERIOR EXPERTISE

Alford couples a wealth of knowledge with unrivalled scientific and engineering expertise, which delivers supremely precise and efficient explosive products. Not only are the products optimised for performance, they are extremely affordable. Spanning a wide range of applications, Alford explosive tools deliver omni-directional, linear and point-focal disruptive effects suitable for most explosive cutting tasks.



Page 4 C-IED / IEDD

Alford Counter-Improvised Explosive Device (C-IED) / Improvised Explosive Device Disposal (IEDD) tools are recognised as some of the best in the world. Renowned for delivering explosive accuracy for a minimal net explosive quantity (NEQ), the Alford range of charges offer superb performance. Used by Military and EOD professionals across the globe.

VEHICLE-BORNE IED DISRUPTORS BootBanger™

BootBanger™ is a powerful water disruptor for use against vehicle-borne IEDs (VBIEDs) which are typically in the boot/trunk of the vehicle. Using patented technology, BootBanger™ projects a jet of water which penetrates and ejects the contents of the boot/trunk. Component parts of a device are disrupted and separated by the jet without initiation.

Contents 1 Charge

1385-99-503-3673 NSN:

Part No.: BB4001 Dimensions: 460 x 340 x 110mm

Weight Full:

Total Water: 13.8 litres

250g (8.8 oz) single layer of 10g/m detcord Load

225g (8 oz) of sheet explosive

450g (16 oz) C2

675g (24 oz) SX2 (C3)



$MLVD^{TM}$

MLVD™ is a powerful modular water disruptor used against vehicle-borne IEDs which are typically in the load carrying area of the vehicle. Using patented technology, the MLVD™ projects a jet of water which penetrates the vehicle and expels its contents without causing detonation. Modularity allows the charges to be configured in multiples dependent upon target size.

Contents 1 set of 3 charges 1375-99-315-0156 NSN:

Part No.: ML2001

Dimensions (per charge): 565 x 150 x 120mm

Weight Full: 5.5kg Total Water: 4 litres

145-720g per module Load

MLVD™ Deployment Stand

A trolley stand on wheels for delivering the $MLVD^{\intercal M}$ charges. Can be deployed by a remotely operated

vehicle (ROV).

Contents 1 per pack

1385-99-820-6759 NSN: Part No. MS2001

MLVD™ Connecting Strips Wooden strips for connecting the MLVD™ charges.

Contents

Part No.



VEHICLE ACCESS

Van Trepan™

Van Trepan™ is an access charge, used to gain access to the inside of a vehicle explosively in order to examine the interior and deliver a second disruptor. It can be deployed on a remotely operated vehicle or manually.

Contents: 1 product

NSN: 1375-99-253-4558

Part No.: VT3001

Load: 11-22g (10g/m, 50 grains/foot) detcord



MS2302



WindowBreaker™

WindowBreaker™ is a single shot explosive window breaker designed for gaining access to vehicles while causing minimal shock or vibration to the vehicle.

Contents: 5 per pack 1385-99-968-8325 NSN:

Part No.: WB1005 Dimensions: 150 x 30mm

Weight Full: 1g (single detonator) Load







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PACKAGE / PARCEL BOMB DISRUPTORS DemiMod™

DemiMod™ is a lightweight water disruptor for use against small to medium sized IEDs. Sharing the same patented geometry as the MiniMod™ but half the length, DemiMod™ has a more cutting and penetrating projectile than the QMod™ or MajorMod™. DemiMod™ can be mounted on an ROV or manually deployed and provides disruption equivalent to that of barrelled water disruptors. Weighs 0.5kg when

Contents: 3 charges per pack (incl. filler cap)

NSN: 1375-99-880-3695

Part No.: DM1001

170 x 70 x 50mm Dimensions: Weight Empty: 0.2kg

Weight Full: 0.5kg Total Water: 0.3 litres

Load: 20g Single layer of SX2 (C3)

4.5g for 10g/m Detcord (3 strands)

DemiMod™ Special Forces (SF)

DemiMod™ without any branding and produced in a discrete grey colour for Special Forces use.

4 charges per pack (incl. filler cap) Contents:

1385-99-159-9324 NSN:

DM1002 Part No .:



MiniMod™

MiniMod™ is a lightweight water disruptor for use against small to medium sized IEDs. Shares the same patented design as the renowned MLVD™ and DemiMod™. MiniMod™ has a more cutting and penetrating projectile than the QMod™ or MajorMod™, it can be deployed on an ROV but is light enough to be deployed manually. Weighs less than 1kg when loaded.

Contents: 3 charges per pack (incl. filler cap)

1375-99-551-5882 NSN:

Part No.: MM2001 300 x 85 x 60mm Dimensions:

Weight Empty: 0.18kg Weight Full: 0.8ka

I oad-50g single layer of SX2 (C3)

9g for 10g/m detcord (3 strands)

MiniMod™ Special Forces (SF)

MiniMod™ without any branding is produced in a discrete grey colour.

Contents: 4 charges per pack (incl. filler cap)

1375-99-476-6328 NSN:

Part No.: MM2002





QMod™

QMod™ is a medium sized explosively driven water disruptor for use against medium sized IEDs such as fire extinguishers, gas cylinders or for direct attack through car doors. Sharing the same geometry as the MLVD™, the QMod™ is a guarter of the length making it easily deployable while packing a powerful punch. The projectile is more blunt than the DemiMod™ or MiniMod™ good for punching and crushing larger targets. QMod™ can also be used as an alternative charge for breaching steel doors.

Contents 1 product NSN: 1375-99-488-8038

Part No.: QM1001 Dimensions: 160 x 135 x 100mm

Weight Empty: 0.3kg Weight Full: 1.9kg Total Water: 1.6 litres

Load Range: 95g single layer of SX2 (C3 equivalent) 35g for 10g/m detonating cord (27 strands)

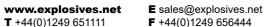


QMod™ without any branding and produced in a discrete grey colour for Special Forces use

Contents: NSN: Part No.:

1 product 1375-99-974-3047 QM1002







C-IED / IEDD

MajorMod™

MajorMod™ is a medium sized explosively driven water disruptor for use against medium sized IEDs such as fire extinguishers or gas cylinders. It is based upon geometry similar to that of the MLVD™ and QMod™. MajorMod™ can be used as a large water-impulse charge for breaching because the large water impulse charge.

for breaching heavy steel doors.

Contents: 1 product NSN: 1375-99-134-8606

Part No.: 1373-99-134-60

Dimensions: 320 x 135 x 100mm

Weight Empty: 0.45kg
Weight Full: 4kq

Load Range: 230g single layer of SX2 (C3 equivalent) 70g for 10g/m detonating cord (27 strands)

MajorMod™ Special Forces (SF)

MajorMod™ without any branding is produced in a discrete grey colour.

Contents: 1 product NSN: 1375-99-151-6381

Part No.: MJ1002

ACCESSORIES

Rover Stand™

Is a two piece stand for the DemiModTM and MiniModTM which gives the charge four stable legs. The stand can be rotated 360 degrees to assist with positioning against the target. Breaching TapeTM or HydroTapeTM can be affixed to the feet to support firm placement.

Contents: 4 stands per pack NSN: 1375-99-173-1227 Part No.: MM4918

Rex Stand™

A larger stand for use with the larger mod charges (QMod™, MajorMod™, MLVD™) The stand can be rotated 360 degrees to assist with positioning against the target.

Contents: 1 stand per pack Part No.: 1 MM3901

Mod Family Tripod Mount Set

Fits to all Mod charges, this mount set utilises a universal camera thread which allows a tripod to be mounted to the product for improved positioning with respect to the target.

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Contents: 5 per pack NSN: 1375-99-729-9647

Part No.: CP1901





OMNI-DIRECTIONAL DISRUPTORS Bottler™

For use against small to medium sized IEDs. The Bottler[™] family of omni-directional charges is available in three sizes: 0.25 litre, 0.5 litre and 1 litre. Predominantly used for bursting open vehicles or other containers and disrupting the contents, or for disruption of suspect objects such as bags or suitcases when there is no need for accurate aim. Available in a small charge size: see Bottler Lite[™] for details.

Product	Qty per pack	Part No.	NSN	Dimension	Load	
0.25 litre	1	BO2003	1385-99-402- 2147	Height 125mm Diameter 60mm	20-110g (0.7-4 oz) PE	
0.5 litre	1	BO2002	1385-99-134- 8651	Height 150mm Diameter 80mm	20-140g (0.7-5 oz) PE	
1 litre	1	BO2001	1385-99-571- 3276	Height 200mm Diameter 100mm	20-200g (0.7-7 oz) PE	100
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Bottler Lite™

Bottler Lite™ carries less explosive than the standard Bottler to provide a more controlled disruption with less collateral damage. This patented omni-directional charge is available in three sizes: 0.25 litre, 0.5 litre and 1 litre, and each comes with three different explosive cartridges to give a range of power. Predominantly used for disruption of suspect objects such as bags or suitcases.

Product	Con- tents per pack	Part No.	NSN	Dimension	Load
Bottler Lite 0.25 litre	1	BL1003	1375-99-727- 3793	Height 125mm Diameter 60mm	10g, 20g, 40g
Bottler Lite 0.5 litre	1	BL1002	1375-99-553- 7923	Height 150mm Diameter 80mm	10g, 20g, 40g
Bottler Lite 1 litre	1	BL1001	1385-99-494- 2310	Height 200mm Diameter 100mm	10g, 20g, 40g



Assault EOD/IEDD

AlphaMod™

AlphaMod™ is a compact, lightweight and low NEQ powerful assault IED disruptor, which incorporates high-performance water shaped charge technology.

Intended for rapid manual deployment by dismounted and assaulting EOD units, it can - if required - also be deployed by ROV singularly or as a multiple array for various target IEDs.

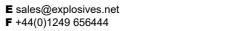
Accessories available include magnets, tape adhesives and stands to enable rapid secure emplacement in complex environments - both land and maritime.

Contents per pack	Part No.	NSN	Dimension	NEQ Range
1	ALM1001	1377-99-503- 4722	Height 70*mm Diameter 70mm Width 70mm *85mm including filling caps	4 - 20g











PROJECT YELLOWSTONE

PROJECT YELLOWSTONE™ is a range of tools which have been created specifically for the Humanitarian Mine Action Community to overcome some of the unique challenges they experience. These tools can be used to deliver high order detonation and low order deflagration in munitions, and component separation of IEDs by disruption.

FireBreak™

FireBreakTM is a low cost, disposable, explosively driven cutter, typically used for cutting command wires with minimal collateral damage. Firebreak comes in two versions: a standard cutter using metal or ceramic blades, or an underwater version using a ceramic blade only and plastic body.



Contents: 5 per pack

NSN: 1375-99-993-1363 (Metal Blade Version)

Part No.: FB1901 (steel), FB1902 (ceramic) FB1903 (Underwater blade)

Dimensions: 122mm length x 25mm width

Weight Full: 20g

Load: 1g (Single detonator) / Sound Unit



J-Etna™

The J-Etna™ is intended specifically for the Humanitarian Mine Action (HMA) community and has been based on the Vulcan™ for its performance. The main difference lies with the utilisation of a binary liquid explosive filling, of which neither of the two parts are individually classified as explosive. The two liquids are both supplied with the charges but are only mixed as and when required. The purpose of this binary liquid explosive, known as Alfords Liquid Explosive (ALX™) is to overcome the unique challenges in obtaining, storing and moving explosives which are encountered on HMA operations.

Contents: 1 Set
Part No.: JET1901
Dimensions (per charge): 93 x 46 x 46mm







W-Etna™

W-Etna™ is a light-weight liquid disruptor for use against light and heavy cased improvised explosive devices. Sharing the same patented geometry as the J-Etna™, the W-Etna™ is a high explosive IED disruption tool that incorporates a water projectile.

Contents: 1 Set)
Part No.: WET1901
Dimensions: (per charge) 93 x 46 x 46mm
Load: 43g

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C-IED / IEDD

Draken™

The Draken™ Disruptor is a general purpose barrelled water disruptor for carrying out render safe procedures against IEDs in containers such as parcels, brief cases or for component disruption of power sources and switches. It is equivalent to the PigStick and Mini-Pigstick in performance depending on which of the two supplied barrels is used.

Unlike existing disruptors, the Draken™ was designed specifically for use in areas where obtaining ammunition for existing disruptors is difficult or impossible. The disruptor is powered by a self-loaded 12 gauge cartridge case and a common electric squib. The kit is supplied with a stock of cases and wads and the only thing that needs to be sourced locally is a squib and a double based propellant which can, if necessary, be obtained from recovered small arms ammunition. It is made entirely from stainless steel components that will last for many years of use without special care or servicing.

Draken Basic Kit

Contents: 1 kit contains 1 Draken assembly and 1 Ammunition Refill

Part No.: DK1901 NSN N/A

Draken Ammunition Refill Pack

Contents: 1 pack contains 50 Cartridges, 100 Sealing Plugs,

100 Wads, 1 Pentapod, 1 Krakapod rt No.: DK1002

Part No.: DK10 NSN N/A







Dioplex EOD™

Dioplex EOD™ is a user-filled, linear cutting charge designed for low order Explosive Ordnance Disposal Operations, and offers a similar capability the now difficult to obtain US Mk7 (mod 1-8) Demolition Charge Containers recommended for use in US 60 Series and other NATO Render Safe Procedures. The charges can be used with most military and commercial plastic explosives and initiation systems.

They are non-magnetic and can be used in shallow water. Dioplex EOD™ is currently available in two charge sizes: 10mm and 15mm versions. Each charge is 150mm long and can be connected together to create longer lengths as required.

Size	Part No.	NSN	Kit Contents
Dioplex EOD 10mm Kit	DXE1901	1385-99-507-5445	x10 Charges, loading tools and accessories
Dioplex EOD 15mm Kit	DXE1902	1385-99-357-9662	x10 Charges, loading tools and accessories











Vulcan System™

The smallest of the Alford shaped charges, the patented Vulcan™,is a highly versatile, user-filled, modular 30mm diameter shaped charge system which is in service around the world. Used as a tool for producing low-order disruption of target munitions, it has an almost 100% success rate - certainly more than any other competing system - therefore giving confidence to operators in urban or vulnerable places. The Vulcan™ is small, lightweight and requires a very low NEQ for the performance it delivers.

Vulcan™ Basic Kit

The Vulcan™ Basic Kit provides 10 charges per pack which can support an EOD Team for multiple tasks or missions. A variety of projectile is available. Projectiles must be purchased separately.

Contents: 10 charges per pack

(incl. 30 aluminium legs & loading kit)

NSN: 1385-99-833-2491

Part No.: VU0001

Dimensions: 30mm diameter
Weight Loaded: 70-110g per charge

Load: Min. 10g Plastic Explosive (PE)

Max. 50g Plastic Explosive (PE)















Conventional Munitions Disposal (CMD) / Shaped Charges

Vulcan™ Projectiles

Copper Cone Set, Jet-Forming

This cone produces a jet used to pierce holes through approx. 75mm (3in) mild steel or correspondingly thicker concrete or brickwork, or to cause detonation or deflagration of steel-cased munitions.

Contents: 10 cones per pack NSN: 1385-99-285-4051

Part No.: VU0012



Magnesium EFP Set

This cone generates an explosively-formed projectile (EFP) which may be used to form large (20mm diameter) holes in 5mm thick steel targets from at least 2500mm stand-off. It ignites as it forms it may be used to ignite the explosive or composition in the target.



Contents: 10 per pack NSN: 1385-99-147-5891

Part No.: VU0042



Copper EFP Set

This cone generates an explosively-formed projectile (EFP) which may be used to penetrate robust targets at much greater ranges than the jet-forming cone. Enables Vulcan™ to be used as a de-armer and disruptor device. Punctures 10mm thick steel at a range of at least 1500mm.

Contents: 10 EFPs per set NSN: 1385-99-131-4488

Part No.: VU0022



Aluminium EFP Set

This cone delivers a powerful blow to remove fuses and bomb pistols or jam their mechanisms. Provides a low-cost disposal alternative to de-armers that use heavy steel barrels.

Contents: 10 per pack NSN: 1385-99-837-0017 Part No.: VU0052



Magnesium Cone Set, Jet-Forming

This cone is less penetrating than copper but capable of penetrating even the thickest walled projectiles or bombs and igniting the explosive or pyrotechnic fill. It has a low probability of causing a 'high-order' detonation, and is used for low-order deflagration.

Contents: 10 per pack NSN: 1385-99-925-0172

Part No.: VU0032



Liquid Projectile Set

Comprises a pair of thin-walled plastic cones with water between them and constitutes a composite projectile which penetrates steel-cased munitions with wall thickness of up to 10mm. Used to eject fuses and disperse charge contents with minimal risk of detonation.

Contents: 10 per pack NSN: 1385-99-131-4430 Part No.: VU0082



Vulcan™ Projectile Combo Set

This product is a combination set of projectiles containing two of each Vulcan™ projectile including copper, magnesium, aluminium and liquid projectiles.

Contents: 2 Copper Cone Jet Forming, 2 Copper EFPs, 2 Magnesium

2 Copper EFPs, 2 Magnesiur

Cone Jet Forming, 2 Magnesium EFPs, 2 Aluminium

EFPs, 2 Liquid Projectiles

NSN: 1385-99-447-3037

Part No.: VU0093









Vulcan™ Accessories

Nozzle Set™

Used to provide stand-off distance from a target and to assist with aiming with pinpoint accuracy, reducing risk of stray projectile fragments. Includes integral sights.

Contents 10 nozzles (incl. 10 sights) NSN: 1385-99-225-7926

VU0004 Part No.:

Trepanning Attachment Set™

This attaches to the Vulcan[™] to enable a large diameter hole to be cut from the munitions. Allows for inspection, flooding or venting (hole size approx. 37mm diameter).

Contents: 10 per pack

NSN: 1385-99-383-2166 Part No.: VU0005

Flash Suppressing Water Jacket Set™

This may be used in environments where fragmentation

Contents: 10 per pack NSN: 1385-99-497-2299

VU0003 Part No.

Underwater Stand-off Capsule Set™

In order to use Vulcan™ underwater, a standoff capsule must be attached to the front of the Vulcan™ creating an air-filled space into which the projectile can be formed before it strikes the target.

Contents: 10 per pack NSN: 1386-99-724-1710 Part No.: VU0018

Vulcan™ Loading Kit

This provides all the tools required for measuring explosive and loading it into the charge.

Stemming rod, loading Contents:

plate, measuring ring & mandrel

NSN: 1385-99-314-3114

Part No.: VU0006



and flash created by the detonation need to be suppressed e.g in urban or inflammable environments. Provides an approx. 90% reduction in flash.

Humanitarian Demining Vulcan™ (HDV™)

Based on the design of the Vulcan™, the Humanitarian Demining Vulcan™ (HDV™) is a 30mm diameter charge which offers similar performance and has been developed specifically for Non-Governmental Organisations (NGO). HDV™ is essentially a simplified version of the Vulcan™ designed to provide basic capabilities at reduced cost while retaining the same explosive geometry to give identical performance characteristics. The magnesium jet-forming cone provides a high success rate for low order deflagration.

10 charges per pack (incl. 40 aluminium legs & a loading kit) Contents:

Part No.:

Min: 20g Plastic Explosive (PE) I oad:

Max: 50g Plastic Explosive (PE)













Conventional Munititions Disposal (CMD) / Shaped Charges

Vulcan Counter-Limpet Mine System™ (VCLMS™)

Based on the renowned Vulcan™, the VCLMS™ is a user-filled modular shaped charge system used against underwater threats including unexploded ordnance. VCLMS™ can be used stand-alone or linked together with detonating cord. Provided as a comprehensive kit which includes all accessory packs, or can be purchased as a VCLMS™ Tool Roll Set.

Vulcan Counter-Limpet Mine System™ (VCLMS™) - Complete System

The complete system provides enough equipment to support an EOD Team for multiple missions. It includes 5 VCLMS™ Tool Roll Sets & multiple quantities of all accessory packs. It provides the basic kit for an EOD Team dealing with underwater threats and can be replenished as stocks are consumed. It is provided in a high-quality robust transit case. Replacement charges can be purchased as they are consumed, see VCLMS™ Charge & Stand Assembly, Part No. VS1021.

5 VCLMS™ Tool Roll Sets, 1 VCLMS™ Cable Reel Set, 1 VCLMS™ Accessory Pack 2, 1 VCLMS™ Contents:

Accessory Pack 3, 1 VCLMS™ Accessory Pack 4, Supporting Manuals & 1 transit case

Note: Each Tool Roll Set includes 2 x Projectile Combo Sets

NSN: 1386-99-341-4411

VS1103 Part No .:









Vulcan Counter-Limpet Mine System™ (VCLMS™) - Tool Roll Set

The VCLMS™ Tool Roll Set is the same compact and comprehensive set of equipment found in the VCLMS™ Complete System which can be hand-carried and used in the field. It can be augmented using the accessory kits. Replacement charges can be purchased as they are consumed: see VCLMS™ Charge & Stand Assembly, Part No. VS1021.

4 charges per pack (incl. 4 magnet sets, 2 Vulcan™ Projectile Combo Sets, 1 loading kit, 1 pack of Contents:

Mini Detcord Clips, 1 pack PDAs, 1 tool roll and 1 marker pen)

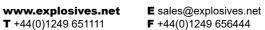
NSN: 1386-99-334-5513 VS1020 Part No.:



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Vulcan Counter-Limpet Mine™ (VCLMS™) Accessories

Vulcan Counter-Limpet Mine System™ (VCLMS™) - Cable Reel Set

The VCLMS™ Cable Reel Set is an accessory to the VCLMS™ Complete System or the VCLMS™ Tool Roll Set and provides a lightweight cable reel system designed for use with a remote firing system or Shock Tube.

2 Cable Reels (incl. 2 Underwater Weapon Stands, 2 Threaded Eye Bolts & Contents:

Nylon Pouch) 8130-99-681-6001

NSN: CR1012

Part No .:

Vulcan Counter-Limpet Mine System™ (VCLMS™) – Charge & Stand Assembly

This consists of 1 VCLMS™ charge and stand supplied in its own pouch and can be attached to the Tool Roll Set with Velcro. It can be purchased to restock the VCLMS[™] Tool Roll or VCLMS[™] Complete System. (Requires VCLMS[™] Accessory Pack 1).

Contents:

1 Charge (incl. 1 Underwater Weapon Stands, 2 Threaded Eye Bolts, 3 Aluminium Legs &

Nylon Pouch) NSN: 1386-99-585-8903

Part No.: VS1021

Vulcan Counter-Limpet Mine System™ (VCLMS™) - Accessory Pack 1 - Projectiles & Loading Tools

This is used in conjunction with the VCLMS™ System or VCLMS™ Tool Roll Set. Provides a full set of projectiles for the VCLMS™ System, Loading equipment, Detcord Clips, Plain Detonator Adaptors (PDA) and a marker pen.

Contents 4 Magnesium Jet Forming Cones, 4 Magnesium EFPs, 4 Copper Jet Forming Cones, 4

Copper EFPs, 4 Aluminium EFPs, 4 Liquid Projectiles, 1 pack of Detcord Clips, 1 pack of

PDAs, 1 Loading Kit, 1 marker pen & 1 nylon pouch. 1386-99-668-0069

VS1018 Part No.:

NSN:

Vulcan Counter-Limpet Mine System™ (VCLMS™) - Accessory Pack 2 - Stand Fittings

This is used in conjunction with the VCLMS™ System or VCLMS™ Tool Roll Set. Provides Spare Extension Tubes, Eye Bolts, Bolts & Nuts to allow the stand system to be reconfigured or to replace components.

Contents: 4 Threaded Extension Tubes, 4 Threaded Eye Bolts, 4 Hexagonal Nuts, 1 nylon pouch.

NSN: 1386-99-668-0071

Part No.: VS1019

Vulcan Counter-Limpet Mine System™ (VCLMS™) - Accessory Pack 3 - Stand Spares

This is used in conjunction with the VCLMS™ System or VCLMS™ Tool Roll Set. Provides spare Main Section Arms, used to reconfigure the Weapon Stand by adding magnetic pads or screw attachments.

Contents 5 Main Section Arms & 1 nylon pouch

NSN: 1386-99-245-9270

VS1022 Part No.:

Vulcan Counter-Limpet Mine System™ (VCLMS™) – Accessory Pack 4 - Screws

This is used in conjunction with the VCLMS™ System or VCLMS™ Tool Roll Set. Provides Screw Attachments to enable the VCLMS™ to be attached to non-ferrous structures such as wooden jetties or anechoic tile clad submarines.

Contents: 10 Screw Attachments & 1 nylon pouch

1386-99-386-9102 Part No.: NSN:

Magnet Pad Set

This is used in conjunction with the VCLMS™ System or VCLMS™ Tool Roll Set. Provides additional Magnetic Pads which can be used to reconfigure the stand, or can be used as target markers or to secure firing cable close to the

ship's hull. Provided in a nylon pouch which can be fitted into the VCLMS™ Tool Roll Set.

5 Magnet Pad Assembly, 5 Threaded Eye Bolts, 5 Hexagonal Nuts & 1 nylon pouch. Contents:

1386-99-987-6027 NSN: Part No.:

Vulcan Counter-Limpet Mine System™ (VCLMS™) - Weapon Stand

Contents: 2 Magnet Pad Assembly, 1 x Frame Arm Assembly,

1 x Articulated Arm Assembly (Vulcan charge is not included)

NSN: Part No.:

Vulcan Counter-Limpet Mine System™ (VCLMS™) - Loading Kit

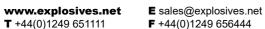
1 Loading Kit, 1 x Measure, 1 x Mandrel, 1 x Stemming Rod Contents:

NSN: Part No.: VU0006











Conventional Munititions Disposal (CMD) / Shaped Charges

Mine Neutralisation Belt

The Mine Neutralisation Belt (MNB) is an accessory created for Alford Technologies equipment to allow secure and efficient placement of explosive charges underwater. The method by which a MNB can be attached to a target depends on the target, the scenario and the environment, therefore each use of the MNB will be different.

Contents: 1 webbing belt, 2 x 1KG lead weights,

2 Vulcan Adaptors, 2 Adjustable Handles. NSN: ME1911 Part No.:





Pluton™ System

The Pluton™ System is a 65mm user-filled shaped charge system, larger than the Vulcan™ System, and is designed to support EOD operations. The charge can be used against unexploded ordnance and conventional munitions. The Pluton™ Basic Kit provides a comprehensive kit which can be augmented with capsules and five types of projectile.

Pluton™ Basic Kit

The Pluton™ Basic Kit provides a comprehensive kit for an EOD Team to enable them to undertake numerous tasks. It provides 3 charges and the ability to load the charge with varying loads of explosive.

Contents: 3 charges per kit (incl. 3 Split Screw Adaptors, 12 Spacer Rings, 3 Compression Rings, 9 Aluminium legs.

NSN: 1385-99-310-1032

Part No.

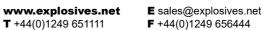
Min: 50g Plastic Explosive (PE) Load:

Max: 300g Plastic Explosive (PE)











Pluton Maritime EOD Kit™ (PLMEOD™)

The PLMEOD Kit™ which is provided in a robust transit case, will equip a maritime or underwater EOD Team with all the tools needed to perform multiple EOD tasks. It contains 3 Pluton Tool Roll Sets which each contain 3 complete charge systems with projectiles, along with supporting ancillary items to assist in positioning and attachment to the target. Replacement charges can be purchased as they are consumed, see Pluton™ Charge & Stand Assembly PL2904. Common parts make this ideal to use in conjunction with the VCLMS™

Contents 9 Charges, 9 Underwater Stand-off Capsules, 9 Modular Weapon Stands, 9 Copper Jet Forming Cones, 9

Magnesium Jet Forming Cones, 9 Magnesium HP Jet Forming cones, Loading Tools, Aluminium Legs,

3 nylon pouches & 1 transit case

Part No.: PL2902 1385-99-668-7497









Magnesium Jet-Forming High Performance Cone Set

3 cones per pack

3 cones per pack

Not available

PL2007

1385-99-410-5245

A high performance Magnesium Jet Forming cone. Less penetrating

PL2013 (High Performance)

than a copper cone. Used to penetrate top cover to attack buried IEDs

Pluton™ Tool Roll Set

The Pluton™ Tool Roll Set is the same compact and comprehensive set of equipment as found in the PLMEOD KIT™ used for EOD tasks and can be hand-carried and used in the field. Replacement charges can be purchased as they are consumed, see Pluton™ Charge & Stand Assembly PL2904. It can be augmented using the accessory kits.

3 Charges, 3 Underwater Capsules, 6 Modular Weapon Stands incl. bolts, 3 Copper Contents:

Jet Forming Cones, 3 Magnesium Jet Forming Cones, 1 Loading Kit, Aluminium

Legs, 1 pack of PDAs & 1 nylon pouch

Part No.: PL2903

NSN: 1385-99-297-9375



Pluton™ Maritime EOD - Charge & Stand Assembly

This provides 1 Pluton™ charge and stand supplied in a pouch which attaches to the Tool Roll Set with Velcro. It can be purchased to restock the Pluton™ Tool Roll or Pluton™ EOD Kit (PLMEOD™). Projectiles purchased separately.

1 Charge, 1 Underwater Stand-off Capsule, 1 Modular Weapon Stand & bolts, Contents

Aluminium Legs & 1 nylon pouch

Part No.: NSN: 1375-99-851-2189



Pluton™ Projectiles

Copper Jet-Forming Cone Set

This cone produces a jet which may be used to pierce holes through steel, thick concrete or brickwork, or to cause the detonation or deflagration of steel-cased ammunition

Contents 3 cones per pack with sabots 1385-99-837-6720 NSN:

Part No.: PL290

Copper EFP Set

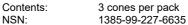
This projectile generates an explosively-formed projectile (EFP) which may be used to penetrate robust targets at much greater ranges than the jet-forming cone. This enables Pluton™ to be used as a de-armer and disruptor device.

Contents 3 EFPs per pack NSN: 1385-99-255-6759 Part No.: PL2015









Magnesium Cone Set, Jet Forming

PL2014 Part No.:

Liquid Projectile Set

or for low-order deflagration.

For use in low order techniques.

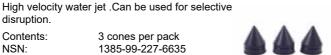
Contents

Contents:

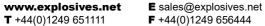
Part No :

NSN:

NSN: Part No.









Conventional Munititions Disposal (CMD) / Shaped Charges

Contents:

Part No.:

Part No.

NSN:

Contents

NSN:

Pluton™ Accessories

Magnet Pad Set

This is used in conjunction with the PLMEOD Kit™ or Pluton™ Tool Roll Set. This set provides additional Magnetic Pads which can be used to reconfigure the stand, or can be used as target markers or to secure firing cable close to the ship's hull. Provided in a nylon pouch which can be fitted into the Pluton™ Tool Roll Set.

Contents: 5 Magnet Pad Assembly, 5

Threaded Eye Bolts,

5 Hexagonal Nuts & 1 nylor

NSN: 1386-99-987-6027

Part No.: VS1005

pouch

Pluton™ 45 Degree Weapon Stand Set

This is used in conjunction with the Pluton™. Provides an adjustable stand for the Pluton™ charge to allow for improved positioning at the target.

Contents 3 Stands & Cable Ties NSN: 1375-99-840-5796

Part No.: PS3901

Pluton™ Loading Kit

Magma™ System

Magma™ Basic Kit

Contents

Part No.:

This product includes a stemming rod and loading plate for

NEQ of 250-500g which is roughly double that of the Pluton.

3 Bodies, 9 Legs, 1 Loading Mandrel

loading explosive into the charge.

Part No.:

Based on the same basic design as the Vulcan and Pluton, the Magma has a typical

NSN:



Stemming rod &

loading mandrel

1385-99-183-3216

PL2907

Magma™ Projectile **Copper EFP Set**

This cone generates an explosively formed projectile (EFP) which may be used to penetrate robust targets at much greater ranges than a jet-forming

Contents: 3 cones per pack

Part No : MG1903 Designed to penetrate through normal ground and permafrost. This projectile can also be used for controlled

initiation of buried IEDs.

Magma™ Projectile

Magnesium JFC Set

Contents: 3 cones per pack Part No.: MG1906

Magma™ Underwater Stand-Off Capsule

front of the Magma™ creating an air gap that allows the charge to function underwater.

MG1904 Part No.:

Tekton™

Tekton™ is a modular user-filled ballistic plate that delivers a powerful explosive effect. The charge is filled with explosive by the user and can be used in explosive engineering, demolition and Explosive Ordnance Disposal (EOD), in particular against munitions in an EOD envirnoment.

3 Ballistic Plate assemblies Contents

(includes steel plate)

9 Legs

NSN 1385-99-854-4604

TK1901 Part No.





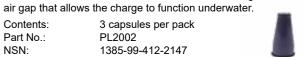




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This product is an essential purchase if you are buying the Pluton™ Charge & Stand Assembly. It provides two types of cones, aluminium legs and accessories to better configure your charge or to support multiple charge arrays.

Pluton™ Underwater Stand-off Capsule Set

PL2002

In order to use Pluton™ underwater, a stand-off capsule

must be attached to the front of the Pluton™ creating an

3 capsules per pack

1385-99-412-2147

Contents: 3 Copper Jet Forming Cones, 3 Magnesium Jet Forming

Cones, 1 Loading Kit, 9 Aluminium Legs, 1 pack of Detcord Clips, 1 pack of PDAs

& 1 nylon pouch PL2905 1385-99-856-4664











In order to use Magma™ underwater, a stand-off capsule must be attached to the

Contents 3 capsules per pack

Krakatoa™ SB

Krakatoa SB is an enhancement on the Krakatoa product. It still has 3 projectiles to choose from, however the performance and target effect of these has been significantly improved. These projectiles are: Explosively Formed Projectile (EFP), Gladius Fragmenting Projectile and Jet Forming Cone (JFC).

The 3 options for Krakatoa SB make it a highly versatile user-filled charge container system with multiple applications on land, such as antimateriel, anti-armour and general demolitions.

Krakatoa SB is fitted with Picatinny rails, these can be used to attach stand options, such as tree spigot, tripod and legs. The rail is also used to attach the Picatinny sight used for aiming the charge.

Krakatoa™ SB EFP Kit

Contents: 1 x Body, 1 x EFP, 1 x Loading Rod, 1 x Gland Nut, 1 x Sight, 2 x Legs

NSN: 1385-99-585-9757 Part No.: KR2901 Load 500g





Krakatoa™ SB Gladius Kit

Contents: 1 x Body, 1 x Gladius projectile,

1 x Loading Rod, 1 x Gland Nut, 1 x Sight, 2 x Legs

NSN: 1385-99-959-6125

Part No.: KR2902 Load: 350g





Krakatoa™ SB JFC Kit

Contents: 1 x Body, 1 x JFC, 1 x Loading Rod,

1 x Gland Nut, 1 x Sight, 2 x Legs

NSN: 1385-99-287-3501 Part No.: KR2903

Part No.: KR290 Load: 490g





Vesuvius™ EFP

The Vesuvius EFP™ uses the Misznay-Schardin effect to explosively form a highly effective penetrator. This EFP is a larger and more capable version of the Krakatoa SB EFP. It penetrates 60mm mild steel at a stand off of 6-50m.

The Vesuvius EFP provides a powerful stand-off anti-armour / anti-structure effect with an extremely high degree of accuracy. The low fragmentation producing plastic body incorporates Picatinny Rails to enable the user to integrate sighting and stand systems.

Vesuvius™ EFP-S

Contents: 1 Charge with Steel EFP projectile, 2 Legs (1 pair) and accessories

NSN: 1385-99-477-6954

Part No.: VV2903 Load: 1500g





Vesuvius™ Gladius Kit

Contents: 1 Charge with Gladius EFP projectile,

2 Legs (1 pair) and accessories

NSN: 1385-99-959-6676

Part No.: VV2904 Load: 940g



Breaching / Explosive Method of Entry (EMoE)

Alford water-tamped breaching charges are engineered to deliver powerful performance for a minimal net explosive quantity (NEQ). The water tamping ensures that the explosive effect is focused and the fragmentation is reduced to protect the breacher. These products are widely used by the breaching community to successfully breach walls, doors and windows.

Gatecrasher™ Mk4

Gatecrasher™ is a water-tamped breaching charged renowned for its superb performance. It is used to produce man-sized holes in walls up to 50cm (20in) thick. Its explosive power is greatly enhanced by water tamping which contains the power and minimises fragmentation.

Contents: 1 product

NSN: 1375-99-895-4034

Part No.: GC4001

Dimensions: Height 580mm x Width 1090mm x Depth 60mm

Weight Empty: 4kg
Weight Full: 21kg
Water Quantity: 14.25 litres

Load: 35g single strand 10g/m detonating cord

3kg plastic explosive (PE)

Typical Loads:

Single Brick: 8 strands of 10g/m detcord
Double Brick: 6mm sheet explosive
Triple Brick: 9mm periphery, 12mm centre
Full load of PE4 with inserts in

Quadruple Brick: 12mm periphery, 15mm centre
Above 50cm (20in): Full load of PE4 without inserts



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Gatecrasher™ Modular

Used as an alternative to the Gatecrasher™, the Gatecrasher™ Modular is a water-tamped breaching charge used to breach walls or other solid structures. Available in two variants, one of which includes a linear cutting effect. It can be scaled up or down depending upon the size of the target. The charge is supplied with a Tactical Sleeve which can be rolled up for quick and easy transportation.

Type 1 - Water Tamped Breaching Charge

Type 1 is a water tamped breaching charge and has 3 x 15mm pockets which can accommodate plastic or sheet explosive with an NEQ from 20g to 300g.

Contents: 4 Modules per pack & 1 Tactical Sleeve

NSN: 1375-99-241-8238

Part No.: GM1901 Load: 300g



Type 2 - Water Tamped Breaching Charge with Linear Cutting

Type 2 has a specially designed linear cutting charge

with an NEQ of 300g with plastic explosive or bundled detcord.

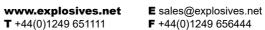
Contents: 4 Modules per pack & 1 Tactical Sleeve NSN: 1375-99-368-1324

Part No.: GM1902 Load: 300g











The sleeve contains 4 removable Velcro pockets which hold the charges and can be repositioned on the sleeve to suit the target.

Once loaded the charge can be held in place using a broom handle or other prop. The Tactical Sleeve GM2005 is provided with Gatecrasher[™] Type 1 or Gatecrasher[™] Type 2 modules.



Breacher's Boot™

The Breacher's Boot™ is a high-efficiency water-tamped breaching "water impulse charge" used to open steel, wooden or plastic (uPVC) doors. The explosive load can be easily tailored to suit the target. Breacher's Boot™ has been successfully used in the UK in counterterrorist operations and is widely used throughout the world.

Contents: 1 Charge

NSN: 1375-99-219-8421

Part No.: BR1001

Dimensions: 350 x 100 x 75mm

2.15kg Weight Full:

3g (46 grains) - single strand Min.Load: of 10g/m (50 grain) detcord

27g (416 grains) – 9 strands Max Load.

of 10g/m (50 grain) detcord





Mini Breacher's Boot™

Mini Breacher's Boot™ is a water-tamped "water impulse" charge used to open wooden or plastic (uPVC) doors. The Mini Breacher's Boot™ is a lighter charge than the Breacher's Boot™ and the Mini Breacher's Boot™. It is specifically designed to fit the side panels of doors or where size and weight are critical. Mini Breacher's Boot™ has been successfully used in the UK in counter-terrorist operations and is widely used throughout the world.

Contents:

NSN: 1375-99-190-7498

BR1002 Part No.:

Max Load:

Dimensions: 200 x 75 x 60mm

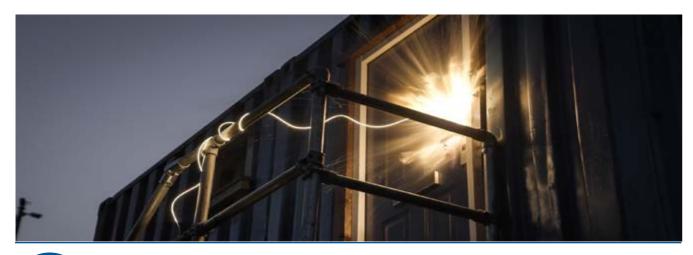
Weight Full: Min.Load:

1.5g (23 grains) using a single strand of 10g/m (50 grain) detcord

4.5g (70 grains) using 3 strands of 10g/m (50 grain) detcord











Breaching / Explosive Method of Entry (EMoE)

Alford Strip Charge™ 25mm

Alford Strip™ is a high-efficiency tamped strip charge used to split wooden doors, windows and to cut laminated glass or to breach plastic or wooden doors. It can be used both to cut targets and to push like a compact water impulse charge. The Alford Strip™ is a lightweight low-fragmentation plastic strip filled with an inert water-based gel which acts as the tamping medium. Can be cut to length with a hacksaw. Available in two widths; 25mm and 42mm, in various lengths with connectors available to assist in making shaped frame charges.

Product	Part No.	NSN	Contents		
Alford Strip 25mm - Set 1 (Gel Fill)	AS3011	1375-99-814-3893	2 x 1m lengths		
Alford Strip 25mm - Set 2 (Gel Fill)	AS3021	1375-99-553-3258	3 x 0.65m lengths		
Alford Strip 25mm - Set 3 (Gel Fill)	AS3041	1375-99-175-1767	4 x 0.25m lengths		
Alford Strip 25mm - Set 4 (Gel Fill)	AS3901	1375-99-241-8192	2 x 1m, 3 x 0.65m, 3 x 0.25m lengths, 1 x corner set, 2 x t-joint, 4 x End Caps		
Alford Strip 25mm - Set 5 (Clay Fill)	AS3011	Not Applicable	2 x 1m lengths		
Alford Strip 25mm - Set 6 (Clay Fill)	AS3021	Not Applicable	3 x 0.65m lengths		
Alford Strip 25mm - Set 7 (Clay Fill)	AS3041	Not Applicable	4 x 0.25m lengths		
Alford Strip 25mm - Set 8 (Clay Fill)	AS3901	Not Applicable	2 x 1m, 3 x 0.65m, 3 x 0.25m lengths, 1 x corner set, 2 x t-joint, 4 x End Caps		
Alford Strip 25mm - End Cap Set	AS3031	1375-99-152-0436	4 per pack		
Alford Strip 25mm - Corner Set	AS3032	1375-99-168-5280	4 per pack		
Alford Strip 25mm - T-Joint Set	AS3033	1375-99-308-1394	4 per pack		
1 Metre Length Dimension: 1000mm x 25mm x 15mm					



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Alford Strip Charge™ 42mm

Product	Part No.	NSN	Contents
Alford Strip 42mm - Set 1 (Gel Fill)	AK1901	1375-99-219-9090	2 x 1m lengths, 2 x 0.5m lengths, 4 x corner set, 2 x t-joint, 4 x End Caps, 2 x Detcord Clips
Alford Strip 42mm - Set 2 (Gel Fill)	AK1902	1375-99-188-6019	2 x 1m lengths
Alford Strip 42mm - Set 3 (Gel Fill)	AK1903	1375-99-840-5171	3 x 0.5m lengths
Alford Strip 42mm - Set 4 (Clay Fill)	AK1907	Not Applicable	2 x 1m lengths, 2 x 0.5m lengths, 4 x corner set, 2 x t-joint, 4 x End Caps, 2 x Detcord Clips 3 x 0.65m lengths
Alford Strip 42mm - Set 5 (Clay Fill)	AK1908	Not Applicable	2 x 1m lengths
Alford Strip 42mm - Set 6 (Clay Fill)	AK1909	Not Applicable	3 x 0.5m lengths
Alford Strip 42mm - End Cap Set	AK1905	1375-99-906-3560	4 per pack
Alford Strip 42mm - Corner Set	AK1904	1375-99-553-9475	4 per pack
Alford Strip 42mm - T-Joint Set	AK1906	Not Applicable	4 per pack

¹ Metre Length Dimension: 1000mm x 42mm x 27mm May be loaded with detcord, strips of sheet explosive or plastic explosive (250g/m)





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Demolition / Steel Cutting Charges

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Alford Technologies are innovators in delivering efficient metal cutting charges with linear cutting, bar and cable cutting and blast charges. The Alford range of demolition and steel cutting charges are used by commercial demolition companies, by military demolition and EOD professionals to deliver effective results. Charges can be used both on land and underwater.

Rebar Cutter™

Available in 15mm, 32mm & 50mm, the Rebar Cutter™ consists of a plastic cased shaped charge which is designed to clip on and sever electric cables, steel bars or cables. Can be used individually or in an array for larger targets or enhanced cutting.

Product	Qty per pack	Part No.	NSN	NEQ
15mm	6	RB1500	1375-99-463-9371	18g Plastic Explosive (PE)
32mm	3	RB3200	1375-99-538-7917	70g Plastic Explosive (PE)
50mm	3	RB5000	1375-99-391-7033	175g Plastic Explosive (PE)
Ĭ		7		

Dioplex™

Dioplex™ is a range of linear cutting charges which are user-filled and supplied in kit form. Charges are assembled from pre-formed lengths of extruded aluminium with the copper liner factory fitted and sealed in place. Charges are filled with explosive by the user. Lengths can be cut to size using a hacksaw and endcaps are provided to seal the explosive in place. Available in 12mm, 20mm, 30mm, 40mm, 50mm, 60mm & 80mm widths in 1m or ½ metre lengths. Our Tech Team can provide further details.

Product	Qty per pack	Part No.	NSN	Performance	Load
Series DX300	1	DX1202 (0.5m length) DX1201(1m)	YES	12mm max. cut	0.3kg/m
Series DX450	1	DX0452 (0.5m length) DX0451 (1m)	TBC	20mm max. cut	0.4kg/m
Series DX900	1	DX1302 (0.5m length) DX1301 (1m)	YES	30mm max. cut	0.9kg/m
Series DX1200	1	DX5402 (0.5m length) DX5401 (1m)	YES	40mm max. cut	1.2kg/m
Series DX2000	1	DX2012 (0.5m length) DX2011 (1m)	TBC	50mm max cut	2.0kg/m
Series DX3000	1	DX3012 (0.5m length) DX3011 (1m)	TBC	60mm max. cut	3.0kg/m
Series DX5000	1	DX5802 (0.5m length) DX5801 (1m)	YES	80mm max. cut	5.0kg/m





Neptunex™

Neptunex™ is a range of linear cutting charge designed exclusively for use underwater and which are user-filled and supplied in kit form. Charges are assembled from pre-formed lengths of extruded aluminium with the steel liner factory-fitted and sealed in place. The charges are assembled from pre-formed extruded aluminium, with a sealed steel box liner and they are supplied in 1 metre and 0.5 metre fixed charge lengths.

Product	Qty per pack	Part No.	Performance	Load
Series NX450	1 1	NX0452 (0.5m length) NX0451 (1m)	severs 20mm	0.45kg/m
Series NX1200	1 1	NX1202 (0.5m length) NX1201 (1m)	severs 35mm	1.2kg/m
Series NX3600	1 1	NX3602 (0.5m length) NX3601 (1m)	severs 45mm	3.6kg/m
Series NX5600	1 1	NX5602 (0.5m length) NX5601 (1m)	severs 65mm	5.6kg/m







Demolition / Steel Cutting Charges

Universal Demolition Block (UDB)™

The UDB™ is a modular charge container which is filled by the user. Developed to hold pre-formed blocks of PE or to be hand filled with plastic explosive. Containers can be slotted together lengthways or widthways to provide a charge sized to suit the target. The flat surface of the charge allows the charge to be affixed using Breacher's Tape™ or HydroTape™ depending upon the type of surface. UDB™ is ideal as a general demolition or breaching charge.

Product	Qty per pack	Part No.	NSN	Colour	Load
UDB 250g	1 12	DB1001 DB1002	YES	Beige	250g
UDB 500g	1 8	DB5001 DB5902	YES	Grey	500g





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Bangalore Blade™

The Bangalore Blade is a modern replacement for the Bangalore Torpedo. It is used by assault engineers to clear a path through obstacles such as barbed wire entanglements that would otherwise have to be removed by hand, possibly under fire. Bangalore Blade is especially effective since it uses several linear explosively formed projectiles capable of cutting razor wire beyond the reach of conventional Bangalores. The factory -filled version can also be supplied with an aluminised plastic-bonded explosive with greater blast effect than conventional Bangalores.

Features include:

- Construction from modern lightweight materials to reduce the loads carried by assault engineers and logistic support
- Construction of modern durable materials to provide a long shelf-life
- Shorter length, allowing great versatility against a wider range of obstacles, for example combat in urban areas
- Connections to allow the Bangalores to be joined into very long lengths
- High efficiency in that Bangalore Blade gives more cutting effect than conventional Bangalores requiring more explosive
- Factory pre-filled units, supplied by our partners FORCIT DEFENCE OY



- Light and efficient packaging to reduce logistic burdens.
- The 8m kit is supplied in two boxes each containing eight 0.5m lengths with nose cones, connecting joints, and 30m of integrated shocktube for initiation
- Insensitive explosive filling
- High-blast aluminised plastic bonded explosives (PBX) filling



8 x 0.5m Charge, 4 x couplings, 2 x nose cones, 2 x Shocktube

Systems 50 m

Bangalore Blade dimensions: Main charge:

H 40mm, W 40mm, L 500mm FPX V40 (W: 750g)

Package weight: 18kg

Package dimensions:

Box NEQ: Hazard Division:



Alford Technologies is in partnership with world renowned explosives manufacturers Forcit Defence who will provide the user with the factory pre-filled explosive charge. For further information on user-filled or pre-filled charges contact sales@explosives.net.





■ sales@explosives.net F +44(0)1249 656444











Improvised Explosive Device Disposal (IEDD) Kit

The Improvised Explosive Device Disposal (IEDD) Kits are specifically for Explosive Ordnance Disposal (EOD) Operators and Bomb Technicians. These kits provide teams with comprehensive kits of user-filled charges which will be suitable for the full spectrum of complex IEDD tasks.

The range of IEDD Kits include:

Manufacturer Code:

Lightweight IEDD Kit - Contains a range of modular user-filled charges for use against IEDs CK3901 Heavyweight IEDD Kit - Configured for use against large IEDs or IEDs in hardened containers CK3902

such as gas cylinders or vehicles. VBIED Kit - Configured for use to counter a variety of vehicle-bourne IED senarios CK3904



Restock and replacement items are available to reorder.



The IEDD Kits contain five types of user-filled explosive charges, including:

- Water-tamped charges
- Omni-directional charges
- Shaped charges with a variety of projectiles
- Command wire / detcord cutters
- Range of accessories to assist with positioning, fixing and aiming charges

Breaching Kit

The Breaching Capability Kits provide breaching teams with a comprehensive selection of user-filled explosive charges supporting all breaching tasks and all Explosive Methods of Entry (EMoE):

Law Enforcement Breaching Kit Manufacturer Code: CK4901







The Breaching Kits contain a variety of cutting, pushing and highly penetrative charges. Charge types include:

- Water-tamped charges
- Tamped strip/frame charges
- **Demolition charges**
- Range of accessories, detonator clips and adhesive tapes

Standard Kits are available for all Explosive Capablity Kits. Kits can also be tailored to suit the type of customer, the threat faced and the type of explosive used in country. For further information contact sales@explosives.net.







Explosive Capability Kits

Conventional Munitions Disposal (CMD) Kit

The Conventional Munitions Disposal (CMD) Kit has been developed for EOD Operators and Bomb Technicians who dispose of conventional munitions, explosive remnants of war (ERW) and unexploded ordnance (UXO). The CMD Kit contains tools which can undertake a variety of explosive tasks, including bomb disposal, trepanning, low-order deflagration, demolitions and deliberate ordnance detonation. The kit includes the highly-renowned Vulcan™ shaped charge. Vulcan™ is truly versatile and can be loaded with the chosen projectile depending upon the required task.

Charges in the kit include:

- Copper lined linear-cutting charges
- Shaped charges
- Projectiles and accessories



Contents Available on Request Manufacturer Code: CK2901

Restock and replacement items are available to reorder

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Maritime Capability Kits

A range of Kits that provide Navy Explosive Ordnance Dive teams with a comprehensive selection of user-filled explosive charges.

- Vulcan Counter Limpet Mine System Confgured for Mine Clearance Diving Operations
- Pluton Limpet Mine System Configured for Mine Clearance Diving Operations

PL2902 Maritime Explosive Demolitions Kit - Configured for small scale underwater Demolitions Operations CK1903

The Maritime Capability Kits support a variety of explosive tasks including countermining, low-order deflagration, demolitions and flooding.

Charges include a variety of:

- Shaped charges
- Linear-cutting charges
- Demolition charges
- Projectiles, stands and accessories







Manufacturer Code:

VS1103



Available on Request

Restock and replacement items are available to reorder upon request.

Standard Kits are available for all Explosive Capablity Kits. Kits can also be tailored to suit the type of customer, the threat faced and the type of explosive used in country. For further information contact sales@

The images used for the Capability Kits are for illustrative purposes only. Full details of Capability Kits content can be provided upon request.











Adhesive Tapes

HydroTape™

Specially formulated for Alford Technologies, this high-tack double-sided adhesive tape which creates an immediate strong bond between the charge and the target. Can be used on the majority of surfaces, particularly good for wet, dirty, dusty surfaces or if you need to reposition the charge the tape will easily lift yet still provide you with a strong bond.

Contents: 1 roll per pack
Part No: HT1015

NSN: 7510-99-153-6251



Breacher's Tape™

A high-tack double-sided adhesive tape which creates an immediate strong bond between the charge and the target. Can be used on the majority of surfaces, particularly good for dry, clean surfaces or where you need an aggressively tacky adhesive.

Contents: 1 roll per pack Part No.: TP1502

NSN: 7510-01-619-7791



Squid Tape™

A self-bonding silicone based tape which can be used on land and underwater. Does not contain adhesive. Is heat resistant and stretches up to 300%. Can also be used to form an air/water tight seal.

Contents: 1 roll per pack



Accessories

Plain Detonator Adaptor (PDA)™

The Plain Detonator Adaptor (PDA)[™] crimps into a plain detonator, providing a reliable way of linking charges and a secure method of attaching to the detonating cord. Available in packs of 20 or 1000.

Product Part No. NSN

Pack of 20 DA1020 1375-99-668-6505



Detcord Clip™

Used to connect detonating cord when rigging multiple charges or to clip sections of detcord together. Manufactured from soft plastic, can be used when wearing gloves. Includes a loop to secure free trailing detonator leads and a clip for creating a junction of detcord.

Product Part No. NSN

Pack of 20 DC1901 1375-99-601-9851



Mini Detcord Clip™

Pack of 20

Used to connect narrow diameter detonating cord when rigging multiple charges or to clip sections of detcord together. Manufactured from soft plastic, can be used when wearing gloves. Includes a clip for creating a junction of detcord.

Product Part No

Part No. NSN DC2901 1375-99-155-5887 •

Detcord Clip Junction™

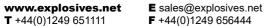
Used in cooperation with the Mini Detcord Clip™ and Detcord Clip™, the Detcord Clip Junction™ allows the operator to change direction with the detcord in order to rig up multiple charges.

Product Part No. NS

Pack of 20 DJ1901 1370-99-153-9369









Accessories Page 27

Split Screw and Dummy Detonator Set™

The Split Screw™ used in conjunction with the Plain Detonator Adaptor (PDA)™ provides an effective way of securing the detonator into the charge without risk of the detonator becoming loose or falling out (detonator not included). The Dummy Detonator allows you to set up the charge with a dummy detonator to ensure the explosive can accommodate the detonator effectively. When ready, the dummy detonator is replaced with the live detonator. Assists operator safety.

Product Part No. NSN

Pack of 1 CP3901 1385-99-471-2589



Detcord Cutter

This cutter fits neatly into the hand and is made with a steel cutting blade. It has a unique automatic lock to keep the tool closed when not in use and can fit into standard pouches. The blade does not cut against a hard surface ensuring against the risk of friction while cutting.

Product Part No. Pack of 1 MT1001



Detcord Loop Booster™

This plastic clip enables reliable initiation of RDX based sheet and plastic explosives from detonating cord. It forms the detoord into a loop into which plastic explosive is packed to assist with initiation. Assists operator safety.

Product Part No. Pack of 20 DB1901



20kg Magnet Pad Assembly Set

Comprise 5 strong magnets to which eye bolts can be afixed to assist in threading det cord and affixing charges to metal targets.

Product Part No. NS

Pk 5 Magnets VS1005 1386-99-987-6027



Cable Reel Set

This provides a lightweight cable reel system designed for use with a remote firing system or Shock Tube

CR1012

Product Part No. NSN

2 Cable Reels (incl. 2 UW Stands 2 Threaded Eye Bolts, 1 Nylon Pouch)









8130-99-681-6001



Product Training

These bespoke training courses instruct EOD Operators and Technicians in how to use Alford explosive tools. Includes the modules for usage and storing. Students are taught how to load the products with explosives, the stand-off and positioning of products at a target, as well as providing an understanding of the explosive effects and effective targeting. Training courses include:

- Water-Tamped Charge Training
- Shaped Charge Training
- Demolition Charge Training





Alford Training

Alford Training prides itself on maximising hands on practical training time, while reducing time spent in classroom study. By conducting Training Needs Analysis for each customer individually, we can design be poke training to best fit their own unique operational requirements.

Our courses follow various standards and SOPs, including:

- EOD IMAS Standards
- Military/Policing IEDD NATO SOPs
- HMA IEDD GIGN Best Practice Guide
- WTI NATO Doctrine

Other courses include:

- Breaching Explosive, Shotgun, Mechanical, and at height
- Explosive Demolitions Military and commercial applications
- HM

All instructors used by Alford Training are operationally experienced in their individual disciplines and are considered experts in their fields.

Broadmead Range

Alford Technologies have a dedicated range facility called 'Broadmead Range' based in the South West of England. 30 minutes drive from the airport, the facility can accommodate teams from overseas that require a fully licensed explosive range. The range can also be hired for filming purposes for media or television companies. Broadmead Range incorporates:

- HSE Explosive Factory, Storage & Usage Licences
- Category 5 Firearms Licence
- Secure Testing Facility conforming to National & Local Police Regulations
- ISO9001 Accredited
- On-site Laboratory
- Classroom Facilities
- Specific Testing Areas









Explosive Range Facilities

Our newest range, Emborough Site, offers a variety of facilities for a broad spectrum of maritime activities, including:

- UXO Training
- ROV Training
- Sensor Calibration
- Military Diving
- Commercial Diving
- R&D:
 - Civilian off-shore

Underwater Demolition

- Military



The Lake

The Lake is 120m x 108m with an average depth of 5m.

Access is avaliable via a slipway for small boats and trailers, as well as a 60m² floating jetty which can be used as a sheltered working platform.



Open Training Area

Beyond The Lake is a large (1km²) training area surrounded by sloping cliffs which is suitable for a variety of pursuits, including:

- Helicopter landing
- Military mobilisation
- Bushcraft



Viaduct

Above one of the throughways between the training areas is a 4m wide and 100ft high viaduct which can be used for:

www.explosives.net

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- Rope access courses
- Rope rescue training
- HART team training
- Fast rope training for board teams
- Dynamic training exercises

















