

A close-up photograph of a Humanitarian Demining Vulcan (HDV) device. The device consists of a yellow plastic body with a black trigger mechanism at the top, mounted on a tripod of three thin metal legs. It is positioned over a dark, cylindrical, rusted metal object, which is a landmine, embedded in a rough, sandy, and rocky ground. A thin black wire extends from the top of the device.

Humanitarian Demining Vulcan™ (HDV)

The Humanitarian Demining Vulcan™ (HDV) is a user-filled shaped charge used for low-order disposal of Explosive Remnants of War (ERW). Based on the renowned Vulcan™ System, the Humanitarian Demining Vulcan™ delivers unsurpassed performance at a very low NEQ. Not only that, the charges are extremely cost-effective.

Developed specifically for Non-Governmental Organizations (NGO), the Humanitarian Demining Vulcan™ has the same working dimensions as the renowned Vulcan™ which is in service all around the world.

Features include:

- > Adjustable NEQ to match the target
- > Powerful and effective performance
- > Affordable by the NGOs
- > Lower logistical burden (no logistic restrictions)

Magnesium Cone

The unique feature of the Humanitarian Demining Vulcan™ and Vulcan™ is the Magnesium Jet-Forming Cone which has been proved to reduce the risk of shock-to-detonation to virtually zero while guaranteeing a reliable ignition of the explosive fill of Unexploded Ordnance (UXO).

This leads to a rapid rise in internal pressure within the munition which produces case failure and the ordnance splitting apart in a low-order disruption. Used in the Vulcan™, the Magnesium Cone has produced successful low-order disruptions against a huge range of munitions around the world with thousands of successful low orders.

Adjustable NEQ

Explosive load can be adjusted by inserting the compression rings which fit internally into the body of the charge and provide a level to which the explosive can be loaded. The number of rings required varies inversely with the amount of explosive.

Comprehensive System Package

The HDV System comes complete with 10 charge bodies and includes sturdy aluminium legs which can be adjusted to enable better positioning at the target. It includes one Magnesium Jet-Forming Cone per charge and a loading tool to facilitate compact loading of the explosive. The unique Alford Split Screw™ is included in each charge. This enables safe insertion of the detonator and the making of an array of charges if necessary. A pack of Plain Detonator Adaptors™ is also included.

For further information

Contact sales@explosives.net, telephone +44(0)1249 65 1111 or speak to your authorised Alford representative.

Specifications

Height	132mm
Diameter	45mm
Weight Empty	0.05kg
Weight Loaded	0.07-0.1kg
NEQ	20-50g



Before & After Low-Order



Exploded Charge Body



HDV Package Contents

Other products to consider:

Pluton™ – for larger sized munitions

Vulcan™ - for small to medium sized munitions

Pluton Maritime EOD System (PLMEOD)™ – for larger sized munitions located underwater



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