



Neptunex™

Neptunex™ is the underwater range of linear cutting charge based on the proven and established DIOPLEX™ range. The charges are supplied in kit form and are user-filled. Available in 450g/m, 1,200g/m, 3,600g/m and 5,600g/m sizes in both 1/2m and 1m lengths, Neptunex™ is a versatile explosive cutting tool.

Neptunex™ charges are assembled from pre-formed lengths of extruded aluminium, with the steel box-sectioned liners factory sealed and fitted in place. This design gives an extremely reliable seal, even at extreme depths. Filled charges are slightly negatively buoyant. The end-caps provided fit firmly onto the ends of the charge cases containing the explosive. Neptunex™ may be attached to a target by use of Velcro strips, Squid (Underwater) Tape™ or with strong magnets that can be purchased from the Alford range of accessories.

Features include:

- > Available in 4 sizes for cutting between 20mm & 65mm steel
- > Individual lengths may be connected end-to-end with reliable initiation of all charges
- > For use under water at depths exceeding 100m
- > Powerful, reliable & efficient explosive effect

Performance

The Neptunex™ family of charges may be used for severing mild steel at depths of least 100m. The charges may be used to sever steel ranging from 10mm to 65mm in thickness. More than twice this thickness may be severed using opposed pairs of charges. The relative efficiency greatly reduces the amount of explosive needed. It is advised to carry out a test firing on any target material whose properties are not precisely known.

Initiation

Each charge may be initiated at either or both ends by the insertion of a detonator or detonating cord booster (DCB) held in place by the Split Screw or a detcord Booster through the lid.

Applications

While primarily designed for use underwater, Neptunex™ can be used in both land and underwater demolition. When used on land, the aluminium body and lid are reduced to very small lightweight fragments upon detonation. These fragments do not travel far, so there is very little danger of fragmentation damage behind and to the side of the charges.

Specifications

Product Series	Size	NEQ	PERFORMANCE
NX450	22mm Neptunex	0.45kg/m	severs 20mm
NX1200	40mm Neptunex	1.2kg/m	severs 35mm
NX3600	60mm Neptunex	3.6kg/m	severs 45mm
NX5600	80mm Neptunex	5.6kg/m	severs 65mm



The Neptunex™ Range



Cutting Steel: NX3600 charge used, 45mm severed



Cutting Steel: NX5600 charge used, 65mm severed

For further information

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

Other products to consider:

Neptunex Chain Cutter™ - for cutting ship's cable/chain

DIOPLEX™ - User-Filled Linear Cutting Charges

Rebar Cutter™ - for cutting reinforced steel cable

Universal Demolition Block (UDB) - a modular universal demolition charge



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