



Dioplex™

Dioplex™ is an aluminium-bodied linear-cutting charge used to cut steel and concrete which contains rebar. Available in 1m and 0.5m lengths, Dioplex has a cutting range between 12mm and 150mm of standard steel depending on the selected charge and configuration used. Used by the military and in the demolition industry around the world, Dioplex is a powerful explosive cutting tool.

Dioplex charges are assembled from pre-formed lengths of extruded aluminium, with a copper liner factory fitted and sealed in place. Charges can be cut to the desired length or used as provided and filled with plastic explosive by the user. The end-caps provided fit firmly onto the ends of the charge cases containing the explosive.

Initiation of the charge can be directly via the end caps or using Detcord Loop Boosters™. In order to affix Dioplex to a target, Velcro strips are supplied with the kits. Alternatively, Breacher's Tape™ or strong magnets can be purchased.

Features include:

- > Efficient steel cutting charge
- > Individual lengths may be connected end-to-end with reliable initiation of all charges
- > Available in standard lengths of 0.5m and 1m, or supplied in specific lengths for large orders

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Performance

Dioplex charges may be used for severing mild steel up to 80mm thick (3.15in) when using plastic explosive. Twice this thickness may be severed using opposing pairs of charges. The relative efficiency greatly reduces the amount of explosive needed. It is advised to carry out a test firing on any steel target material whose properties are not precisely known.

Initiation

Each charge may be initiated at either end, or both ends, by insertion of a detonator or detonating cord booster (DCB) held in place by the Split Screw. It can also be initiated using Detcord Loop Boosters at either end.

The initiator is designed to be placed easily in zero visibility conditions. It provides a particularly convenient way to interconnect an array of charges after they have been attached to the target(s).

Applications

Dioplex 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 pose a cut-off or sympathetic detonation damage risk outside a 20m hazard radius. This hazard radius can be reduced further with the use of suitable protective measures.

After sealing the end-caps in position and sealing the longitudinal junction between the body and the liner it is possible to use Dioplex underwater at a depth of several metres (advice is available). In order to waterproof the charge it is advised to seal using a silicone rubber. Alternatively investigate Neptunex™ for other underwater applications.

Configuration

Dioplex is available in 1m and 0.5m lengths. The 0.5m kits contain all necessary components to build two charges of 0.25m or less in length, while the 1m kits offer the flexibility of building up to three charges.

For further information

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

Specifications

Product Series	NEQ	PERFORMANCE
DX300	0.3kg/m	12mm max cut
DX450	0.4kg/m	20mm max cut
DX900	0.9kg/m	30mm max cut
DX1200	1.2kg/m	40mm max cut
DX2000	2.0kg/m	50mm max cut
DX3000	3.0kg/m	60mm max cut
DX5000	5.0kg/m	80mm max cut



Initiated with a Detcord Loop Booster directly inserted into the end cap.



The Dioplex™ Range



Applied to 50mm steel - before & after



Applied to track - before & after

Other products to consider:

Rebar Cutter™ - cutting reinforced steel cable / bar

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

Neptunex - steel cutting underwater



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