



Bangalore Blade™

Bangalore Blade™ is a modern replacement for the Bangalore Torpedo which has been used for almost a hundred years. It is configured as a linear explosively formed projectile (EFP) array which is capable of cutting wire obstacles including those made in razor wire which conventional Bangalore Torpedos are incapable of breaching effectively.

The Bangalore Blade™ system is a lightweight Anti-Obstacle and General Explosive Engineering Charge to be used in an identical manner to the original Bangalore Torpedo, but which offers a number of inherent advantages over the original design. The Bangalore Blade™ is made using modern manufacturing techniques unavailable to the original designers, which have allowed Alford Technologies to incorporate into the design advanced shaped charge technology. This enhances the performance by giving the charge a cutting effect in addition to a blasting effect.

Features include:

- > Incorporates both shaped charge & blasting technology
- > Highly effective explosive effect, with a low NEQ
- > Lightweight construction
- > Factory pre-filled
- > Shorter length allows for greater versatility in range of use

Operating Principles

The Bangalore Blade™ is a multi-patterned linear EFP charge in which multiple cutting "blades" are formed which travel outwards radially, severing obstacles in their path. The blast from the explosive charge then clears the obstacles, leaving a path through the structure for the foot soldier to pass.

Explosive Load & Performance

The Bangalore Blade™ is designed to have exactly the same explosive load as the original Bangalore Torpedo, ensuring that the same amount of blast is provided to push the severed wire apart.

The system is supplied as factory filled charges, filled with FPX V40 from Forcit Defence, which conforms to Insensitive Munition Standard STANAG 4439.

Trials conducted with two identical razor wire entanglements erected between steel pickets. The original Bangalore Torpedo cleared a 3m path through the triple-razorwire, while the Bangalore Blade™ completely cleared a 10m path through the same wire.

Safety

As with all Alford Technologies equipment, operator safety is an integral part of the design concept. The charge body is made from extruded aluminium which has excellent cutting performance at short range but which loses momentum rapidly and has limited range, making it inherently safer to use.

Product Specification

Configuration	Pack Contents (Each Box Contains:)	Part No.
Factory Pre-filled System (1 Box)	8 x 0.5m lengths, 4 x couplings, 2 x nose cones, 2 x Shocktube Systems 50m	BT2902
Dimensions	H 40mm, W 40mm, L 500mm	
Filled gross weight	1250g	
Bangalore tube weight	500g	
Main charge explosive filling	FPX V40 (Weight 750g)	
Package weight	18kg	
Package dimensions	H 3000mm, W340 mm, L 590 mm	
NEQ	750g per 0.5m unit	
Box NEQ	6 kg	
Hazard Division filled	1.1D	



Bangalore Blade™



Our explosives filling partner is Forcit



Bangalore Blade™ fired against wire obstacle

Advantages of factory pre-filled Bangalore Blade™ include:

- >Kit supplied (12m total) in two boxes which can be man portable (Gross package weight 18kg)
- >Insensitive explosive filling
- >High-blast aluminised plastic bonded explosives (PBX) filling

Other products to consider:

Universal Demolition Block™ – for general demolition tasks

Rebar Cutter™ – for severing reinforced bar or cable

Vesuvius EFP™ – shaped charge

Dioplex™ – linear cutting charge

For further information

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