Breaching Systems

Overview

Ensign-Bickford Aerospace & Defense Company is a leading provider of man-portable breaching systems. EBA&D has designed, developed and are currently in production on a number of systems for the US Department of Defense and other global countries. The systems vary in application from systems designed and developed to breach doors or concrete walls to systems designed to breach minefields laden with both Anti-Personnel Mines and wire obstacles. No matter what the application, all systems are designed and developed to be lightweight and easy to transport, simple and quick to use while being effective in a variety of adverse conditions. Finally, all of the systems are designed, developed and manufactured with a focus on safety and reliability.

Rapid Wall Breaching Kit

The Rapid Wall Breaching Kit (RWBK) is a portable wall-breaching tool used for a variety of heavy breaching missions. The system is comprised of the following:

» M18 Detonator Assembly (2)
» M81 Initiator (2)
» Re-bar Cutter
» Propstick and support
» Instruction Sheet
» Charge Bag
» Explosive Charge Assembly
» M19 Initiation System
» M9 Bunch Block

Breacher Strips

Breacher Strips are in a family of advanced breaching tools produced by EBA&D. They are an assembly of Primasheet® Flexible Explosive and an SOB® Slip On Booster covered with a strong non-elastic tape enclosure. The enclosed strip has a double-sided tape adhesive applied to one side of the assembly with a courtesy pull out tab at the deployed end. A short length of sealed Primacord® Detonating Cord is looped through the SOB® for initiator attachment. The final assembly is rolled and vacuum-sealed in a barrier bag for maximum protection and storage life. Consistency of manufacture and controlled processes yields Breacher Strips that produce high reliability and performance. The overall size of the assembly is uniquely small, compact, and easy to handle.
Linear Shaped Charge

Linear Shaped Charge (LSC) is a continuous explosive core enclosed in a seamless metal sheath. Shaped in the form of an inverted V, the continuous linear and explosive produces a linear cutting action. This application of the Munroe Effect is enhanced by careful control of charge dimensions and configuration as well as liner and backer thickness and uniformity. It is manufactured in a wide range of core loads to facilitate a wide range of cutting requirements.

Small Projected Line Charge (SAPLIC)

A resilient plastic case, carried on an optional backpack frame, houses all the components of the SAPLIC system. A small rocket is fixed on a pivoting safe and arm device and is rotated into the firing position to align the initiation train. A wire harness attaches the rocket motor to the line charge, which is coiled to eliminate tangles during deployment from the case. The charge is an RDX-based plastic bonded explosive (PBX). A length of dual-shock tube with two initiators is supplied, connected to the safety and arming assembly, for use in initiating the rocket motor and the explosive line charge. SAPLIC is effective against surface laid and shallow buried anti-personnel mines.

Fuzes

EBA&D has designed, developed and produced fuzes to meet the specific needs of the minefield breaching community. Typically, these fuzes rely on mechanical arming and firing to initiate explosive line charges used for clearing a breached path through a series of mines or obstacles. Arming is either performed manually, or the fuze may be armed and initiated by the actuation force of the rocket motor used to deploy the line charge. Fuzes are designed to meet the requirements of MIL-STD-1316. EBA&D’s expertise in the application of pyrotechnic delay materials, our ability to manufacture linear, metal-sheathed product, and heritage designs incorporating mechanical initiation devices gives us a unique capability in supporting this critical product line.

Anti-Personnel Obstacle Breaching System (APOBS)

The Anti-Personnel Obstacle Breaching System (APOBS) is produced by the Ensign-Bickford Aerospace & Defense Company to meet the requirement for a two-man portable line charge system. It is designed to clear breaching lanes through anti-personnel minefields and wire obstacles during tactical assaults.