Non-Electric Initiation Systems

Overview
Demolition initiation is a changing world. Being a market leader in Non-Electric Initiation Systems since 1986, EBA&D understands the paradigm changes of military doctrine and the usefulness of shock tube technology to fulfill mission readiness. As users evaluate their requirements against the growing threats of the future, shock tube initiation fulfills the role once occupied by electric initiators. It also provides enhanced safety, reliability and utility to the ultimate end user. EBA&D employs system design tools to deliver fully integrated Non-Electric Initiation Systems. EBA&D developed an understanding of customer requirements through a cooperative process, incorporating competencies of design, development, and manufacturing, delivering complete solutions.

Shock Tube Initiators
STITM Shock Tube Initiator was developed to respond to a need existing in the military community for an improved means of initiating Non-Electric Systems. EBA&D’s engineering group responded with a versatile, reliable device developed to allow hand-held initiation of shock tube type non-electric, blast initiation systems directly through the wall of the shock tube.

Integral Firing Devices
The Integral Firing Device (IFD) is an all-in-one, disposable, non-electric firing system designed for close quarter breaching applications. Integral Firing Devices are available in Single (IFD) and Dual (DIFD) lead shock tube constructions.

Lead-In-Lines
Lead-In-Lines are shock tube detonators used as signal transmission devices to initiate explosive events. They are configured with an initiating device, a continuous length of shock tube connected to a detonator of known strength and a bunch block accessory. Lead-In-Lines may be supplied in either single or dual tube configuration.
Non-Electric Detonators

EBA&D’s Non-Electric Detonators are linear signal transmission devices designed to transmit an energetic signal through shock tube to a specific detonating output. Shock tube is a hollow extruded tube containing a thin layer of energetic material on its inner diameter. Once initiated, the shock tube transmits a signal to a detonating output charge, typically incorporating an instantaneous output or a pre-determined pyrotechnic event. Non-Electric Detonators are available in either single or dual shock tube configurations.

Non-Electric Accessories

When utilizing Non-Electric Initiation Systems for explosive events, the addition of accessories aids in the speed of deployment, integration, and ultimate reliability of the system. EBA&D supplies bunch blocks, J-hooks, and dual adapter accessories to fulfill the field adaptation of detonators to detonating cords, branch lines, and initiating devices.

Delay Detonating Elements

Delay Detonating Elements (DDEs), sometimes called Millisecond or MS Connectors, are devices used in conjunction with detonating cord to create an in-line millisecond delay. Delay timing is a useful tool in blasting or demolition missions. Using delay timing for explosive events allows for reduced blast over-pressure, reduced explosive quantity per blast event, improved fragmentation, improved movement of blast materials, and reduced seismic vibration.

Machine Gun Simulators

Machine Gun Simulators are command initiated assemblies used for training troops for battlefield conditions without the risk of direct injury using conventional ammunition. The use of simulators has become a valuable tool for giving audible and battle space awareness to military operatives under stressed environments. Machine Gun Simulators mimic the sound and ground movement of machine gun fire while minimizing the danger of injury to the soldier.