



MED-ENG®

A BRAND OF THE SAFARILAND GROUP

DEMINING SOLUTIONS **PROTECTIVE EQUIPMENT AND TOOLS**



Battle Proven Life Saving Protection.

Since 1996, Med-Eng has designed, tested and manufactured multiple generations of Demining blast protective ensembles. Every suit, apron, helmet and visor system has been subjected to live blast testing to ensure protection of the vital body areas and face.

Deminers can choose the protective ensemble that offers the optimal levels of blast protection, body coverage, mobility and acceptable weight to meet their requirements.

Med-Eng visors and chest plates overlap to ensure coverage of the neck area against fragments, as shown on the right.



Each test is carefully set to measure the distance from the explosive charge to the chest and head. The overburden (how deeply the charge is buried) is also measured. Tests are conducted in standing, kneeling and prone positions against a variety of charges representing anti-personnel blast mines.



Hybrid III mannequins with integrated sensors are used to measure levels of overpressure reduction. Testing includes unprotected mannequins, shown above, to establish a scientific baseline.



High speed video, shown above, captures the blast evolution and helps the research team see the interaction between the equipment and various blast threats. This information is considered with data from sensors to validate product designs.

TAC 6E PROTECTIVE ENSEMBLE

The TAC 6E can be scaled to provide very high levels of protection against anti-personnel mines. This modular ensemble can be configured at the time of purchase and in the field to provide full body coverage or cover only the core body areas, depending upon the mission.

The TAC 6E is offered in multiple sizes to best fit height and body type.

For greatest coverage, users can don the Modular Sleeves (upper arm and lower arm) or Full Sleeves. The Lower Legs can be easily removed for use on the ground to prod for mines.

Two chest plates are offered: A lightweight Fragmentation Plate, and a heavier but more protective EOD plate. A carrier option fits a NIJ Level IIIA plate provided by the user.

For facial protection, Med-Eng offers two types of visors to mount to a user's PASGT/ACH helmet: the ARC Visor series mounts using ARC Rails, while the TAC Visors mount using a ratchet system. All Med-Eng visors overlap Med-Eng chest plates to provide continuous coverage.

For maximum head and ear protection in demining, Med-Eng recommends the SRS 5 helmet. This helmet includes ventilation, an integrated visor and provides very high levels of protection against the four main blast threats.



The TAC 6E is shown above with the lower leg protectors and the sleeves removed, to reduce weight, and in consideration of the threat.



The ARC Visor (above) and TAC Visor lock in the raised and lowered positions.



The TAC 6E core kit includes Shoulders, Cummerbund, and Ballistic Shorts. The Sleeves, Lower Leg Protectors, Chest Plates and Plate Carrier are optional. This allows the user to configure the ensemble for scalable protection and coverage.

LIGHTWEIGHT DEMINING ENSEMBLE (LDE) AND LIGHTWEIGHT DEMINING HELMET (LDH)



The Lightweight Demining Ensemble minimizes weight while providing options for protective coverage of the arms, legs and back. It is based on an Apron with chest and groin plate. Users can choose to wear Trousers, Sleeves and a Back Protector, as required.

This scalable and modular ensemble can provide continuous frontal coverage when used with the Sleeves and Trousers. Users can choose to protect only the vital body areas by wearing just the Apron.

The chest plate is integrated into the Apron and covers the chest and groin.

The LDE is available in four sizes.

For facial protection, the visor of the LDH (described in the Demining Apron section) integrates with the chest plate for continuous coverage of the neck area.

The LDE and LDH are suited for blast-type Anti-Personnel mines and battlefield munitions disposal.

Users who have a PASGT/Combat Helmet but require facial protection, can mount one of the Med-Eng TAC or ARC Visors, described on the TAC 6E section above.



LDE worn without Sleeves or Trousers.



DEMINING APRON AND LIGHTWEIGHT DEMINING HELMET

The Demining Apron is a lightweight, one piece garment that provides a base level of protection to the torso.

A chest plate is integrated.

The Demining Apron is available in two sizes.

The Lightweight Demining Helmet provides users with a very secure, four point retention system for the visor, to help keep it in place throughout a blast event. This is an advantage over visors that rely on only a head band design and do not have a retention system.

The Demining Apron and LDH are best suited for blast-type Anti-Personnel mines.



BOMBTEC™

The BombTec system enables Demining teams to build the capability needed to accomplish their mission.

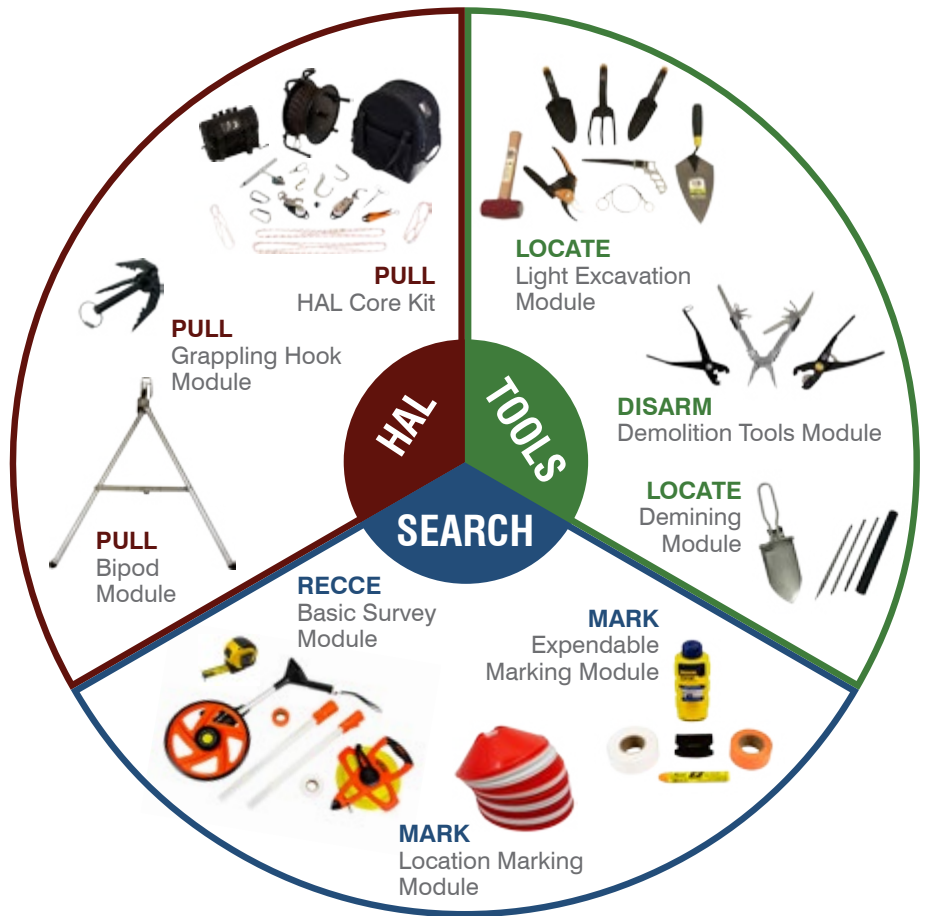
Its capabilities enable a team to conduct:

- Reconnaissance of an area
- Locate a threat
- Mark an area
- Pull an object
- Neutralize and disarm an explosive

BOMBTEC™ is a system of Kits and Modules that enables users to select and deploy with exactly the right equipment for their particular mission. It provides equipment for Hook And Line (HAL), Search and the use of specialized tools.

The Kits provide core, standard and enhanced capabilities. The Modules each provide a specific capability. Demining program managers and end users can easily build their own customized system of Kits and Modules - based on a 'mix and match concept' to meet their unique operational requirements.

The BombTec Backpack and Pouches are designed for maximum efficiency and ease of transport and access. The versatility of this packaging system allows users to add, remove or replace Module pouches as needed for deployment.



The BombTec Backpack is ideal for carrying and organizing Demining tools.



BombTec Module Pouches.

BOMBTEC™ INDIVIDUAL DEMINING KIT

The Individual Demining Kit is designed for use by a single operator and provides 15 essential tools and equipment for use in a mined area.

It includes a multipurpose Leg Bag with 4 external and 3 internal pockets and MOLLE attachment points. The composition of the kit permits users to add their own additional equipment in the supplied internal pouches and elastic loops.

The Individual Demining Kit enables the Deminer to achieve the following:

- Visual search for tripwires
- Physical search for surface and buried landmines
- Marking of located or suspected anti-personnel mines, anti-tank mines or hazardous areas
- Neutralization of common firing mechanisms
- Removal of anti-personnel and anti-tank mines by pull

For more complex demining and area clearance tasks, these capabilities can be enhanced with kits or modules from the BombTec HAL, Search and/or Tools range, including the Individual Tool Kit and Core Search Kit.



Individual Demining Kit, shown mounted on leg (above), closed (below left), and with components (below right).

