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WG 3 EOD Bomb Disposal Suit



The WG 3 EOD Bomb Disposal Suit is an addition to the WG 5 and WG 5A bomb suits range of competitively priced high protection bomb disposal suits.

Various accessories are supplied with the WG 3 Suit, including a new type of 100 Metre Hard-Wired Communications Kit and Cooling Suit.

It has seven components that are supplied in a carrying bag mounted on a trolley, or it can be used as a back pack.

The WG 3 Bomb Suit provides a high level of performance and protection, extremely rugged, user-friendly, un-complicated and requires the minimum of service and maintenance. The WG 3 is designed so that the operator can rapidly remove the bomb suit within seconds. When pulled, two toggles on the smock / jacket allow the smock to fall away from the operator.

STANDARD FEATURES

- Blast Plates
- Helmet
- Internal Groin Protector
- Power Supply
- Smock / Jacket
- Spine Protector
- Trousers



OPTIONAL FEATURES

COMMUNICATIONS

- Available with proprietary 100 metre duplex hardwire system or, alternatively, communication can be with VOX-enabled VHF/UHF transceivers which plug into the remote controller on the front of smock. All controllers are VOX-compatible to accommodate this feature. Radio models must be tested prior to delivery to confirm compatibility

COOLING SUIT. FIRE-RESISTANT KERMEL®.

- One-piece fire-resistant garment with cooling tubes and external connectors
- It is worn as close to the body as possible to obtain the maximum benefit
- Head hood with connectors, which connect to corresponding connectors on the neck of the main garment
- External pump and ice bottle container in a self-contained carry bag that is attached to the left hand side of the smock with straps and Velcro provided
- Self-contained NiCad battery power supply identical and interchangeable with the suit power supply
- Running time at maximum flow rate is 1 hours 30 min
- The emergency standard C cell battery pack can also be used

DUPLEX HARDWARE COMMUNICATIONS

- 12v DC 4.5Ah rechargeable battery
- Base Station is built into a ruggedized aluminium case, complete with Battery status indicator
- Built-in 220v AC. charger with connecting cord
- Custom-made heavy duty reel, simple and field serviceable
- External speaker with on-off switch
- Headset with speakers and microphone
- Input for 12v DC charger
- Output for digital recorder
- Reel with rewind guide. 100m wire (with option for 125m) and connecting plug to fit into the remote-control on the EOD smock
- The reel comes with a built in slip-ring, allowing the operator to be in communication throughout deployment and retrieval
- Webbing guides are provided on the smock to lead the wire to the remote controller

SPECIFICATION

COOLING FAN

- The Cooling Fan is integrated in the helmet and blows cooling air onto the visor to prevent the visor from misting up
- Speed: variable. Output 0 – 220 litres/minute

INTERNAL LINER

- Additional liners can be purchased for multi-operator use
- Fire-resistant material is used for the outer cover of the WG 3 Bomb Suit
- For hygienic considerations a spare liner, complete with microphone speakers and sizing pads is provided, this enables dual usage of the suit;
- Inner layer is made of comfort foam
- Outer layer is shock-absorbent
- Sizing pads for medium and small operators are provided

SMOCK / JACKET

- Complete all-round protection consisting of front and back torso, 360° neck, shoulder and total arm protection is provided
- Proprietary protective aramid inserts are comprised of a multi-pack system, which provides optimum suit flexibility
- Arm protection is articulated
- Hand protectors are separate and attach to the sleeves

EMERGENCY EVACUATION

- The suit is designed so that the operator can rapidly remove the entire Suit, with the exception of the Internal Groin Protector, within seconds
- The smock is equipped with two toggles on the right hand side which, when pulled, allows the smock to fall away

REMOTE CONTROLLER

- Allows the operator to adjust the fan speed i.e. the air flow into the helmet
- It also provides the operator control of the volume of the communications, whether from the base station or integrated hand-held wireless radio system
- Provides the operator control of the volume of the ambient (environmental) sound
- Each control is positioned so the operator knows exactly which control adjustment knob he is adjusting without the necessity to see

SPECIFICATION

HELMET

- Communication: Helmet has in-built microphone and speakers, communications are compatible with the hardwire duplex system, or with two-way radios, when 'VOX' can be used
- Connector: Helmet has a combined power and communication cable which has a built-in Emergency Fischer plug which disconnects during emergency evacuation
- Visor: Made from hardened, scratch resistant acrylic with polycarbonate backing

AUTOMATIC HIGH SOUND LEVEL CUT OUT

- The ambient sound will be immediately muted if the ambient noise exceeds a pre-set level of 70 decibels.

AMBIENT SOUND

- The internal speakers allow the operator to hear communications from the base station as well as ambient (environmental) sound.

HEADLAMP

- An adjustable headlamp is situated on the front of the helmet
- Three AAA batteries power the headlamp

LOW BATTERY WARNING

- There is an audible low battery warning that will beep every 30 seconds
- This occurs when the battery drops to 11volts, which is when 25% of battery life remains

HELMET EMERGENCY EVACUATION

- The chinstrap has a quick release press stud [red tab] so that the helmet may be discarded quickly by the operator in the event of an emergency.

BLAST PLATES

- Blast plates are a lightweight composite providing excellent fragmentation resistance
- The plates attach to the suit with buckles and accommodate the emergency release toggles, so the smock and plates will come off as one unit
- The groin plate is articulated to allow comfortable movement and kneeling

CARRY BAG/BACK PACK

- Supplied in two heavy-duty bags
- The smock bag contains the smock and spine protector
- The trouser bag contains the trousers, groin protector, overshoes and blast plates. The two bags are then packed into a larger storage bag that is mounted on a lightweight strong frame that can be used as a carry bag or it can be used as a backpack, with built-in wheels it can be used as a trolley. The storage bag unfolds and can be used as a ground sheet when opened up fully to unpack the suit.

SPECIFICATION

TROUSERS

- All round protection with extra frontal integrated thigh and shin protectors
- The trousers overlap with groin protector
- Fire-retardant zips with a quick-release function
- Overshoe integration system is built on to the bottom of the trousers
- Trousers have adjustable braces, which adjust both by length and position to provide maximum comfort for the wearer
- Red quick-release zips are used, plus red-coloured tabs on the braces enable the trousers to be quickly discarded in an emergency

POWER SUPPLY

- The power supply is provided in a pouch that is worn on the right hand side of the suit
- The pouch is carried on a belt and can be positioned where the operator finds it to be most convenient
- The power supply is 12v DC supplied by 10 C cell rechargeable NiCad batteries and will provide power to the helmet fan and communications for at least three hours at maximum fan speed
- An audible battery low warning buzzer gives the operator ample time to change batteries if required
- A charger is provided for the power supply that can work from mains or 12v DC
- Charging time is 10 hours
- The unit will not damage the batteries if left on for prolonged periods
- An emergency back-up power pack that utilizes 8 x standard C cell batteries (batteries not supplied)
- This back-up power source can be used with the Series III or Cooling Suit

GROIN PROTECTOR

- The IGP is a lightweight separate protector for lower abdomen, groin and inner thighs; Elasticized colour coded straps for ease of use
- Ergonomically designed for maximum comfort
- The groin protector is worn underneath the smock and trousers, therefore this area also has the added protection provided by the smock which comes down to mid-thigh and the trousers which are in front of the groin protector, the combination provides an extremely high level of protection.

SPINE PROTECTOR

- Provides protection from violent de-acceleration on either side of the spine
- Multi-layer foam-laminate construction with progressively increasing de-acceleration properties, held in position with quick release elastic straps

MATERIALS

- Outer cover: Fire-resistant Nomex®
- Velcro: fire-resistant external Velcro
- Ballistic materials: Aramid
- Blast plates: Composite
- Visor: Hardened Acrylic/polycarbonate

SPECIFICATION

V50 calculated as per STANAG 2920 with .22Cal 17grain FSP.

ITEM	V50 m/s	V50 ft/sec
Helmet	480	1574
Helmet front	600	1968
Visor	800	2624
Helmet beard	480	1574
Collar front	610	1859
Collar front centre	1000	3280
Collar rear	480	1574
Sleeves front	565	1853
Sleeves rear	480	1574
Smock front	610	2001
Chest plate "V0"	1800+	5905+
Groin plate "V0"	1800+	5905+
Smock back	480	1574
Groin protector	480	1463
Trousers thigh	700	2296
Trousers shin	700	2296
Trousers rear	340	1115
Overshoes	500	1476
Hand protector	450	1476