

4030 ELITE

Bomb Disposal Suit & Helmet System

Mission Critical Protection
for EOD Operators



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Mission Critical EOD Protection

The 4030 ELITE is the next generation Bomb Disposal Suit and Helmet System from NP Aerospace, a global leader in ballistic protection and Explosive Ordnance Disposal (EOD) design and manufacturing.

The high performance, user configurable suit offers 360° protection from the four main aspects of an explosion: fragmentation, overpressure, blast wind and heat radiation. Developed in response to customer feedback and using the latest technology, it is certified to the NIJ 0117.01 Public Safety Bomb Suit Standard by the Safety Equipment Institute.

The 4030 ELITE delivers improved survivability and ergonomics and accelerated donning and doffing. Protection is enhanced across critical areas such as the neck and torso providing an optimum performance to weight ratio.

The highly adaptable suit allows for optional customisation with mix and match jacket and trouser sizing options and interoperability with the latest user communications and electronics, eliminating the need for a full scale technology upgrade.

The 4030 ELITE is the latest addition to the NP Aerospace Bomb Disposal Suit portfolio which is proven and trusted by thousands of EOD operators worldwide.

Optimum Mobility



Core Benefits

ADVANCED OPTICAL PERFORMANCE

Advanced ergonomic helmet design offers high protection and a wide field of view, with an active demisting visor

EMERGENCY REMOVAL & EXTRACTION

Patented two pull quick release system in jacket and trousers enables removal in less than 30 seconds and a new drag rescue feature allows for rapid emergency extraction

OPTIMUM SURVIVABILITY AT A LOW WEIGHT

High protection across critical areas such as the torso and neck ensures blast forces are deflected and fragments are absorbed

NIJ CERTIFIED

The 4030 ELITE is certified to the NIJ 0117.01 Public Safety Bomb Suit Standard by the Safety Equipment Institute

ENHANCED ERGONOMICS

Patented articulating frontal plate allows wide range of movements, with cutting edge technology to improve weight distribution and reduce operator fatigue

USER CONFIGURABLE SYSTEM

Allows for the attachment of the latest equipment (radios, communications, lights). Mix and match sizing options (jacket and trouser) to enable perfect fit for all users

FASTER DONNING & DOFFING

Easy access trouser zips enable faster donning and doffing wearing boots. Visibility markers allow first responders to gain immediate entry to critical areas of the body



COMPONENTS

Suit (Two Piece Jacket & Trousers)

- Advanced multi-density construction protects against tearing from blast wind and mitigates against the impact of overpressure, fragmentation and fire and water ingress
- Common base suit with interchangeable outers and mix and match sizing options delivers system modularity and flexibility on operation, whilst preventing contamination
- The latest systems and electronics can be integrated within the suit and via Modular Lightweight Load Carrying Equipment (MOLLE) attachments to suit the user's individual requirements
- Emergency drag rescue system with two shoulder handles enables fast extraction in an emergency
- Suit features water repellent, heat resistant, anti-flammable and anti-static materials
- Patented, two pull quick release system in both jacket and trousers enables fast removal in emergencies (jacket within 30 seconds, full suit within 60 seconds)
- Yellow zip pulls identify standard entry points and red visibility markers show first responders' areas for incapacitated doffing and emergency removal
- Flexible high-performance materials ensure maximum mobility and dexterity with reinforced heavy wear areas (knees/elbows)



Unassisted Donning and Doffing



Trousers

- Optional Yoke shoulder strap spread loads and reduces slippage
- Flexible waist cummerbund (optional) improves weight distribution and reduces operator fatigue
- High waistband for enhanced protection with extendable trouser zip for easier donning and doffing whilst wearing boots



Breastplate

- Hybridised composite construction, for ultimate ballistic and structural performance and low mass
- Patented, articulating three-piece design enables a wide range of movement when crouching, bending, reaching, lying down and climbing steps (3 sizes, S, M, L)
- Convex design at the collar deflects blast wave away from the body and protects the torso and neck
- Easy to use 4-point plate attachments allow operator to adjust the height according to their body size and remove and refit the plate unaided



Spine Protection

- Dedicated external pocket on back of jacket includes NIJ specified spine protection pad to protect against blunt trauma
- Pocket creates space within the suit to increase user mobility and comfort. Pad can be easily removed for suit cleaning



Air Ventilation System (Optional)

- Two independently controlled fans feed ambient air into the operator's torso and face, reducing thermal burden and the effects of fatigue
- Vent system controls are easily accessible and controllable from the wrist of the jacket with a wide range of flow rates
- Vent system is attached to MOLLE stowage system to allow use in different scenarios
- In-built fire detection safety feature
- Powered by commercially available AA batteries



EOD Helmet

- Ergonomic helmet shell with wide field of view achieves a high area of protection and improved visibility at a low weight
- Includes a demisting visor for advanced optical performance
- One size fits all helmet shell with 4-point retention system, providing flexibility for procurement teams
- Customisable comfort liner can be easily removed for cleaning
- Picatinny profile rails can be added to accommodate additional systems and electronics (lights, cameras, comms)
- Hinged visor with locking mechanism for single handed operation
- Powered by standard Lithium Ion batteries
- Unassisted donning and doffing achievable
- Impact testing in accordance with NIJ 0117.01



Accessories

NP Aerospace offers an extensive range of optional add-on systems and accessories – see sample list below. Please contact us to find out more at info@npaerospace.com

COMMUNICATION SYSTEMS

Wired and wireless options (including Intrinsically Safe), in-ear headsets, speakers (boom microphone and bone conduction), full situational awareness system with optional external speakers

EOD TOOLS AND ACCESSORIES

Mounted camera systems, quad colour LED torches, hook and line systems

BODY-WORN MONITORING SYSTEMS

With live HD video feed and biometric data

COOLING SYSTEMS

Passive and active systems for extended wear

CBRN OPTIONS

CBRN options including respirators and SCABA breathing apparatus

HYDRATION SYSTEMS

Bladder systems

BALLISTIC HAND AND BOOT PROTECTION

Gloves, mitts, boot protectors, grounding strap



Specification

SIZES

Available in 5 distinct jacket and trouser sizes (XS, S, M,L, XL) with mix and match options to ensure a perfect fit and full coverage for all users. Special measures can be arranged on request. XL (Size 5) caters for >99th percentile male in accordance with US Army Anthropometric Study - NATICK/TR-15/007

COLOURS

Paris Blue

Sage Green

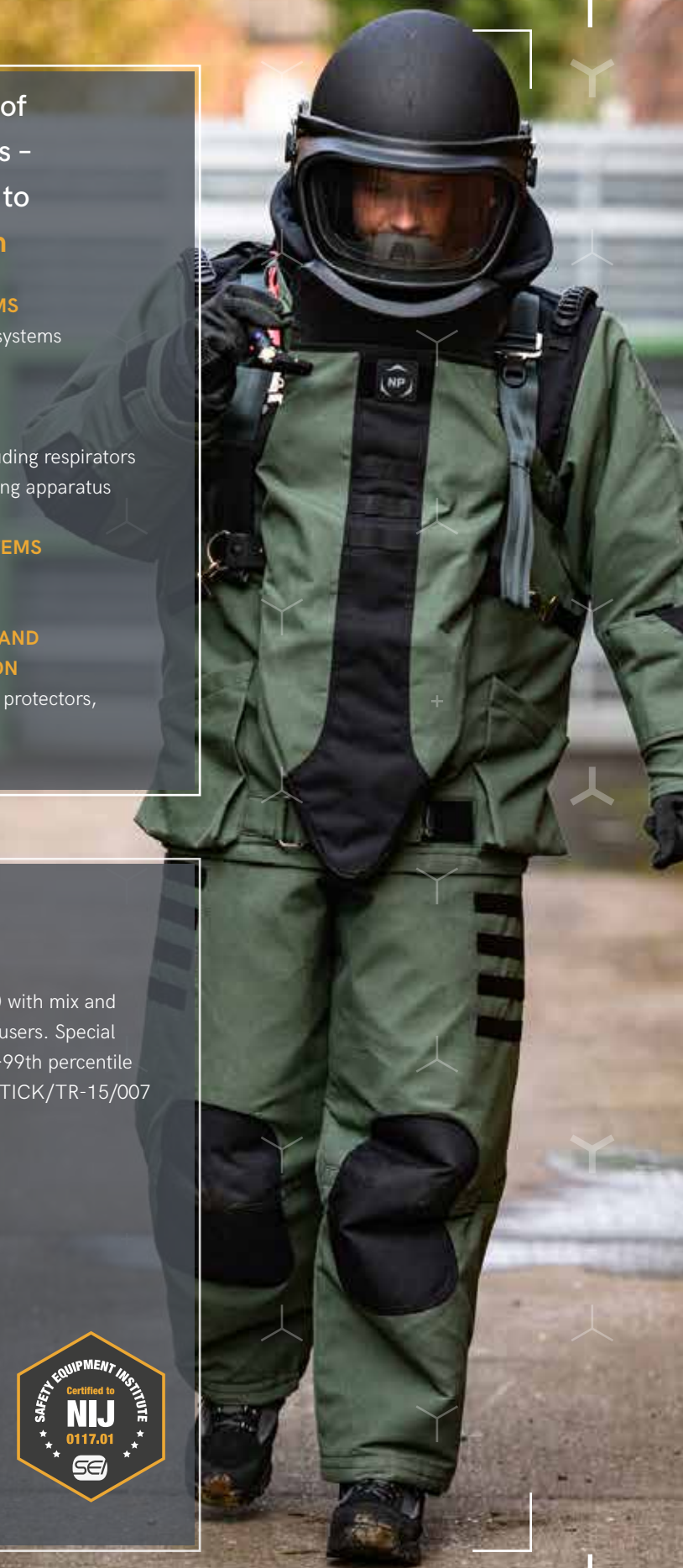
Desert Tan

BASE SUIT - BALLISTIC PROTECTION (V50 M/S)

Meets NIJ 0117.01 Requirements

BLAST PROTECTION

Certified to NIJ 0117.01 by the Safety Equipment Institute:
No penetration in each of the following scenarios : 0.567kg C4 @ 0.6m kneeling, 1kg PE4 @1m Standing, 2kg PE4 @2m Standing, 10kg PE4 @3m Standing



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NP Aerospace undertakes a program of regular product development and reserves the right to make changes to products without prior notice. Product appearance and specifications may therefore differ from illustrative depictions.