

Annex 3 – Products technical specifications.

Item # 1: Delsar (Life Detector set)

Life Detector to rapidly detect and locate victims of collapsed buildings. The Life Detector needs to convert the entire collapsed structure into a large sensitive microphone to pinpoint signals from the entombed victims. The seismic and acoustic sensors of the system must convert vibrations created by the live victim into audible and visual signals. The cable connectors must allow two acoustic search probes to be used simultaneously for stereo comparison. Must have Audio loop record function to record last five minutes of audio for playback and comparison. Need to have a display panel to show relative signal strength of all six sensors simultaneously. Peak meters must indicate highest amplitude reached by each sensor.

Illustrative picture:



Item # 2: Stability sensor

Monitoring and alarm system for technical rescue, monitoring load changes, seismic activity, and incline to increase the safety of rescue personnel and on-scene victims.

Minimum Specifications:

Monitors: Load, Vibration, Incline Wirelessly
Transmits: Load change, Vibration, Incline data
Warning System: 6 high powered red LEDs
High decibel auditory alarm Notifications via Bluetooth
Applications: Structural Collapse (Raker Shoring, Vertical Shoring), Vehicle Stabilization, Trench Rescue, Stand-alone monitoring

Illustrative picture:



Item # 3: Lighting unit, portable

Equipped with two light heads and its multi-stage charger, also a telescopic handle and rugged wheels for ease of transport. Intelligent control adjusts the light output according to the light duration required. The user inputs the hours & minutes of light required and the unit will calculate & adjust the output accordingly.

Engineered with the Intelligent Control System which calculates and displays current battery life, allows the user to regulate the intensity of the light and choose the desired run time. Built with versatility in mind, the 9460 RALS features two swiveling telescope masts (each extends to nearly 6 feet) and two 360 degree articulated light arrays. The system's next-generation LEDs combine to radiate up to 6,000 lumens (3,000 per light head). Powered by a rechargeable battery, the system offers up to 7 hours of peak brightness with a variety of extended run times. Built self-contained in a tough Peli case, the 9460 is compact and provides easy ground transport with a pull handle and stainless steel ball-bearing, polyurethane wheels.

Specifications:

Telescoping dual LED light heads
Housed in a Pelican protector case
Up to 6,000 lumens of variable LED light
Silent operation
Cool operating temperatures
No exhaust

Illustrative picture:



20' operator extension cable with mute switch

- 1 x 50' cable with connectors, strain relief & snap hook
- 4 x 100' cable with connectors, strain relief & snap hook
- 1 x CSI-2000 carry case with foam & Savox logo label
- 1 x Cable bag for 100' - 300' cable with Con-Space silkscreen logo

Item # 4 : Hard Wire communications set

Hard wire communications set must be designed for confined space rescue, collapse rescue, urban search and rescue, high angle rescue and trench rescue

It must enable simultaneous two-way voice communications between the rescuers and the victim. Attendants must be able to communicate with entrants and monitor their safety. The backup team must be also able to listen to the entrants' rescue and be ready to relieve them. The whole system and accessories must be waterproof. The rugged molded fiberglass enclosures, all external knobs, and signal cables with their military connectors must be impervious to a wide range of acids, alkalis, fuels, and other corrosive chemicals including Skydrol.

Specifications

- Hands free two-way voice communication
- Use in encapsulated suits with respirators or any make/model of breathing apparatus
- No miscommunication leading to better teamwork
- Tested to MIL-STD 461
- Private network Emits no RF signals
- Intrinsically safe approved
- Rugged, reliable, chemical resistant
- 1 x CSI-2100 command module
- 1 x Power talk box
- 1 x Cable splitter - double with mic switch
- 1 x Behind head headset single-side, 32" cord 4 x Face mask rescue comset with speaker 4 x Speaker harness 1 x

Illustrative picture:



Item # 5: Backpack, 75ltrs

Designed to comfortably carry big loads on long approaches, it compresses to become a stripped back alpine pack on steeper ground.

Specifications:

Pact™ 300 & 100 R2 fabrics; durable, lightweight and water resistant
On Demand Minimalism; all components removable
Drawcord closure for easy packing and rapid access
Durable aluminium Grapppler™ buckle*
Internal extension collar with drawcord closure for over-packing
Side compression straps with aluminium Hammerhead™ toggles
Removable thermoplastic composite frame panel
High Density EVA shoulder straps and removable EVA back panel
40mm webbing hipbelt with removable High Density EVA moulded hip-fins
Dual axe toggles with integrated pick pocket
Daisy chain system, haul loops and internal hanging loops
Supplied with Shockcord System
Capacity: 75 l
Weight: 1040 g

Illustrative picture:



Item # 6 : Telescopic cylinder R 424

Use the strong rescue rams with up to 27t lifting capacity! With the 2-stage telescopic rams you can lift and push material out of the way that obstructs your operation. The strongest argument for their use is the huge lift combined with minimal overall height. The R 424 has an extended length of 1500 mm and is simply indispensable for vehicle rescue, accidents on rails and ships or after building collapses and natural disasters. Gripable claws on the piston rod and in the cylinder base provide a secure grip on sloping and smooth surfaces. The claws can be rotated through 360°. This means a minimum overall height and a huge stroke thanks to the telescopic design. Sensitive operation of the star grip is possible without twisting the wrist.

Specifications:

Type:	Telescopic cylinder
Dimensions:	625 x 112 x 221 mm
Extended length:	1500 mm
EN-Classification:	TR 269/445-134/430-21,0
Total lift:	875 mm
Lifting force piston 1:	269 kN
Lifting force piston 2:	134 kN
piston stroke piston 1:	445 mm
piston stroke piston 2:	430 mm
Weight:	21,0 kg
Oil requirement:	2140 cm ³
Series:	Tubular

Illustrative picture:



Item # 7: Lukas R 421 E2

The R421 E2 is the world's first telescopic cylinder with eDRAULIC technology. It is therefore perfectly geared to your real needs in real applications. This mean: maximum stroke - minimum overall height - full freedom of movement. Longer, higher, further:

With the new claw geometry, this powerhouse bites firmly in a wide variety of positions and on a variety of surfaces.

Specifications:

Type:	Telescopic cylinder
Dimensions:	597 x 135 x 313 mm
Extended length:	1347 mm
Retracted length:	597 mm
EN-Classification:	R 127/387-60/363-19,9
Total lift:	750 mm
Lifting force piston 1:	127 kN
Lifting force piston 2:	60 kN
piston stroke piston 1:	387 mm
piston stroke piston 2:	363 mm
Weight:	19,0 kg
Protection class:	IP 54
Series:	e2

Illustrative picture:



Item # 8: Combi Tool Rit-Tool E-Force3, inc charger & 2 x batteries & spread tips

Battery-powered combi devices are specially designed rescue equipment for cutting and spreading vehicle body parts. They are used to rescue trapped or enclosed accident victims. The combi device's uses include cutting door and roof beams, columns and sills, as well as opening doors, lifting vehicle parts and loads, and crushing pipes and beams. Because the devices are equipped with internal electrohydraulic drive, they are not linked to a power unit and can therefore be used in hard-to-reach locations. The movement speed of the cutter blades (arms) is affected by moving the control lever on the control handle with greater or lesser force.

Illustrative picture:



Item # 9: Handheld rechargeable flashlights

Designed for long range lighting. Lightest, smartest and brightest handlamp in the market. With its swivelling head, the digital display and a new optic is suitable to work in the hardest conditions.

Specifications:

- Ingress protection: IP66
- Weight: 1,1 Kg
- Measures: 260 x 110 x 110 mm (LxWxH)
- Optic: 7 LEDs (1 x 3W high power-spot / 2 x emergency light / 2 x signalling function-blue or amber light / 2 x tail beacon-red light)
- Burning time:

MAIN LIGHT: 3 different light settings 3/6/12 h.

AUXILIARY LIGHT: 3 different light settings 6/12/24 h.

- Torch body material: Thermoplastic resin with high resistance to the impacts, extreme temperatures and corrosive substances
- Swivelling head: -30° / 0° / 30° / 60° / 90°
- Lighting source: 160.000 cd / 800 lm
- Switches: Two button switches of soft touch material ergonomic and oversized to guarantee easy pushing
- Main: On/Off and light setting.
- Tail light On Auxiliary: Emergency light mode or Signalling function
- Battery: Li-ion | Voltage: 3,7 V. | 10.000 mAh
- Accessories: Shoulder strap (included) - Magnet (optional)
- Charger: DC 12 V. / 24 V. | AC: 100/240 V. 50/60 Hz

Illustrative picture:



Item # 10: Emergency escape set

A chemical oxygen rescuer class 30, which means it will supply protection for at least 30 minutes.

This type of product is ideal for use in many different industries including breweries, hazmat transportation, mining, nuclear power plants, oil-refineries and platforms, petrochemical industries, power plants, rescue services, silos, tunnel construction and waste and water sites.

The MSA SavOx will start almost immediately thanks to the automatic starter. When in its carrying container, it can be worn on a belt or with an additional carrying strap over the shoulder. When in use it will be worn around the chest.

This oxygen self-rescuer works by generating oxygen from chemical potassium superoxide (KO₂). This will provide an oxygen supply,

based on the user's consumption as it always adjusts itself to the demand. In turn the breathing resistance of the wearer will control the service time.

Specifications:

- Small in size and low in weight - makes for easy carrying
- Can be donned quickly and effectively
- Training version is available
- Double heat-exchanger system reduces the inhalation air temperature to a comfortable level
- Escape goggles included - offer an excellent fit and great vision
- Almost maintenance free for 10 years (depends on type and treatment)
- Comes in a sturdy, stainless steel container

Illustrative picture:



Item # 11: Rapid deployment inflatable tents (with heating and lighting)

Specifications:

- Inflation/Deflation valves for cylinder & pump inflation
- Over pressure valve
- Vehicle flaps
- 2 x Windows with fly mesh and covers
- 2 Doors (connectable)
- Service Port for external accessories and cables
- Stainless Steel 'D' Rings to central beam to allow for accessories to be suspended
- Guy Ropes & Stakes
- Operating instructions
- Repair kit
- Storage bag

- 12 Months Manufacturer's Warranty
- 110 volt or lithium-Ion rechargeable lighting
- Compact 230v or 110v Fan heater with thermostat
- Stainless Steel 'D' Rings to the central beam to allow for accessories or medical equipment to be suspended
- 1 x Lateral, removable, room divider
- 2 x Oversized windows with fly mesh and covers to allow for increase light
- 1 x Large full front door to allow for an ambulance to utilise the shelter and access for stretchers and wheel chairs
- 1 x Pedestrian door

Large Vehicle flaps on the corner of the shelter to allow additional stability in adverse weather or to secure the shelter in areas where pegs and guy ropes cannot be used

Illustrative picture:



Item # 12: Tripod

The Paratech Tripod Kit is able to act both as a high point anchor for rope rescue, and as a high support jack-stand for structural shoring, the Paratech Tripod Kit fulfills multiple roles to assist rescue teams to overcome complicated challenges. The Tripod Kit will work with AcmeThread, LockStroke or LongShore struts for the 3 legs of the three clevis hub but is limited to AcmeThread or LockStroke struts for the top leg.

The LIGHT US&R RESCUE STRUT SYSTEM affords the rescuer the ability to tackle most structural collapse scenarios. The system includes (1) 6' Raker set and numerous Rescue Struts and components.

Illustrative picture:



Item # 13: Light Balloon LB 110M Wacker Neuson

The LB110M generates a very bright, glare-free, white light. The wide flat lampshade with a reflective surface on the upper inside provides for optimal light distribution. The balloon is easy to mount with single rope technology.

Illuminant can be replaced without any tools. Eyelet on the top side to suspend the balloon on scaffolding or similar. Ideal for use on road construction sites due to being glare-free.

Illustrative picture:



Item # 14: Air Lifting Bag Inflation unit with hoses

The Master Control Kit is a full control kit in a single package. Securely housed within custom foam inserts inside a shock-proof, dust-proof, water-tight hardshell case, are all of the necessary control components for a 2 column, four bag lift. In addition to the core pneumatic control gear, the Master Control Kit also includes accessory fittings and replacement nipples for versatility and equipment repair.

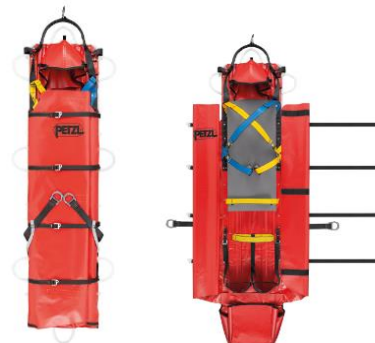
Illustrative picture:



Item # 15: Confined space rescue stretcher

The nest litter allows a victim to be transported horizontally, vertically or at an angle. It is easy to manipulate and simplify the installation of a victim. It is suitable for all technical rope rescue, particularly in confined spaces. It must allow the victim to be transported horizontally, vertically or at an angle, to adapt to irregular or narrow terrain and have a complete, integrated body harness to secure the victim.

Illustrative picture:



Item # 16: Anchor tester

Tester for proof loading and determination of pullout resistance of anchors and DX fasteners.

- Proof loading: application of specific test loads to anchors set in various materials
- Pull-out tests: Determination of pullout resistance of anchors and DX fasteners in test lab or on site
- Testing hoist anchor points in elevator shafts

Illustrative picture:



Item # 17: Air monitoring units (O2, H2S, CO, explosivity (Methane), Cl, NH4)

Outfitted with rapid-response MSA XCell® sensors, the ALTAIR 4XR Gas Detector is the toughest 4-gas monitor on the market and is backed by a 4-year warranty. The ALTAIR 4XR can also provide real-time incident awareness to team members, supervisors, safety managers and others when paired with the MSA ALTAIR Connect app via a Bluetooth® wireless connection.

Illustrative picture:



Item # 18: Load Cell, 5000kg WLL

Its design offers an extreme accuracy (0.1% of the maximum measuring range). The Dynafor Expert is suitable for simple to highly complex projects.

Specifications:

- Capacity ranges from 0.5t up to 10t
- Radiofrequency 2.4GHz chipset for wireless range up to 400m with Tractel® dynafor™ HHD, large displays AL128, DMU and software accessories
- Bluetooth chipset for a connection to any smartdevice equipped with our free app¹, up to 30m
- 0.1% accuracy of full scale

- Powered by 3 AA batteries
- IP 64
- Unique loadcell compatible with clevis hook and shackle

Illustrative picture:



Item # 19: Air Lifting Bag KP12 22-888140G2

The MAXIFORCE® AIR LIFTING BAG is a thin, strong, molded envelope available in 14 different sizes. It is made from 3 layers of Neoprene covered Aramid fiber reinforcement and has the power to lift, move or shift weights up to 89 tons (80.9 metric tons) per bag. Control equipment and components play a critical role in successful lifting bag use and unlike other lifting bag systems, Paratech manufactures all of its major control components. This assures the quality of the lifting bag system from inflation to deflation.

Specifications:

Dimensions (mm)	Max Lifting Capacity US Ton / Met Ton	Max Liftin g Heigh t in/m m	Weight lb/kg
381 mm x 381 mm x 22 mm	13.7 / 12.4	8.1 / 206	8.8 / 4.0

Illustrative picture:



Item # 20: Pulley, double sheave

Stainless steel sideplates, two 4" aluminum sheaves, bushing, and stainless-steel axle.
Minimum safe working load 1500kg

Illustrative picture:



Item # 21: Pulley, single sheave

Stainless steel sideplates, 4" aluminum sheave, bushing, and stainless-steel axle.
Minimum safe working load 2000kg

Illustrative picture:



Item # 22: Cordless combi-hammer

28mm SDS-PLUS Cordless Combination Hammer powered by two 18V Li-ion batteries. Supplied with quick change chuck and DX09 Dust Collection System

Specifications:

- Supplied with Quick Change Chuck
- Brushless motor, Electric brake
- Variable speed control by trigger
- Constant speed control
- Forward / reverse rotation
- LED job light
- 3x Operating modes (RO/RH/HO)
- Torque limiter
- "Soft no load" function automatically reduces the motor speed during idling to suppress the vibration of the machine body.
- Anti-vibration technology
- Powered by two 18V Li-ion batteries in series to supply energy to the powerful 36V DC motor drive system.

Illustrative picture:



Item # 23: Ventilation kit

Air Systems Ventilation Kit 8" CVF Fan 15 Foot Duct 115 Volt AC 60Hz Saddle Vent® and Accessories CVFCUP15

Illustrative picture:



Item # 24: Chain Hoist, 3000kg WLL

Chain hoists for lifting loads vertically. The hoists are particularly suitable for demanding environments in industry and civil engineering, especially on sites not equipped with electricity.

Specifications:

- Permanent load control
- Automatic load brake closure
- Upper and lower hooks with reinforced safety latches
- Load limiter available as an option
- Dedicated to sustained professional applications
- Capacity 3t
- Multi-pocket load chain sprocket: more efficient lifting operations
- Zinc plated hand chain
- "Tunnel" chain guide for ideal chain positioning, guaranteeing drive continuity
- Galvanised fittings, epoxy paint for much greater resistance to aggressive environments
- Forged steel hooks with 360° rotation and overload opening indicators
- Compact with a light weight simplifies use and transport
- Capacity (WLL): 3.000 kg
- Available with Corolim® chain or black chain
- Standard chain length: 3m (other lengths

on request)

- Compliance with Machine Directive 2006/42/CE

Illustrative picture:



Item # 25: Hooligan tool

The head and claw are forged from high alloy steel, heat-treated for maximum strength, then fitted to a 1" (2.5 cm) stress proof bar. The bar has machine grooved non-slip grips. The Hooligan Tool features a claw that is gently curved for maximum prying leverage. The claw opening is parallel and fits over locks, hasps, and many door bars. It can also be used as a nail puller and a gas shut off during emergencies. The "Highway Hooligan Tool" features a metal cutting claw with a machine sharpened metal cutter that uses the can opener principle to cut heavy gauge metal and composites.

Illustrative picture:



Item # 26: Cordless angle grinder

High powered 180mm (7") cordless angle grinders powered by two 18V Li-ion batteries in series

- Brushless motor
- Electronic current limiter for overload protection.
- Soft start
- Anti-restart function
- Electric brake
- Active Feedback Sensing Technology (AFT): Shuts down the tool if the rotation speed suddenly slows down

- Automatic Torque Drive Technology: Automatically changes the cutting speed according to load condition for optimum operation
- Ergonomically designed handle with soft grip.
- Battery guard
- Large switch lever with lock off function
- Battery indicators for over-discharge and overheating protection

Illustrative picture:



Item # 27: Anchor Eyebolt, 340kg WLL, M12

- DIN 580:2010 certified M12 metric-threaded lifting eyebolt.
- White zinc-plated (minimum 8 microns)
- Aluminium killed carbon steel C15E (EN 10084/98)
- Supplied with certificate 3.1 EN 10204
- Full traceability
- Bears the CE marking in the prescribed format
- Marked with the manufacturer's brand; Lot number; straight lifting Working Load Limit (WLL); arrow indicating the lifting direction relative to the specified working limit
- All Eyebolts are tested in accordance with DIN580:2010 which includes: 2 straight pull tests and 2 orthogonal pull tests.
- Factor of safety 6:1
- Come with full chemical analysis
- Perfect for lifting and many other applications.

Illustrative picture:



Item # 28: Karabiners, steel, 45kN, Screwgate, 12mm

An Offset D connector takes the spinal loading strength of a D-shaped back but extends the basket at one end to maximize gate opening and overall size without compromising ergonomics and weight. Cold forged from 12mm bar, the strengths achieved in testing exceed 45kN and it is first choice in applications requiring stronger connectors in their systems.

Illustrative picture:



Item # 29: Cordless metal saw

A 150mm (5-7/8") cordless metal cutter powered by 18V Li-ion battery.

Specifications:

- Automatic Torque Drive Technology: Automatically changes the cutting speed according to load condition for optimum operation
- Electric brake
- LED job light
- Brushless motor
- Soft start
- Retractable joist hook
- Built-in dust collection system
- Easy disposal - metal chip / dust can be thrown away by opening the cap of the dust box
- Stainless steel base plate
- Compact and lightweight design
- Flat motor housing end
- On-tool storage for hex wrench.
- Conveniently located shaft and lock for easy blade replacement

- Lock-off lever helps prevent accidental starts

Illustrative picture:



Item # 30: Air Lifting Bag KP5 22-888130G2

The MAXIFORCE® AIR LIFTING BAG is a thin, strong, molded envelope available in 14 different sizes. It is made from 3 layers of Neoprene covered Aramid fiber reinforcement and has the power to lift, move or shift weights up to 89 tons (80.9 metric tons) per bag. Control equipment and components play a critical role in successful lifting bag use and unlike other lifting bag systems, Paratech manufactures all of its major control components. This assures the quality of the lifting bag system from inflation to deflation.

Specifications:

Dimensions (mm)	Max Lifting Capacity US Ton / Met Ton	Max Lifting Height in/m	Weight lb/kg
254 mm x 254 mm x 19 mm	5.4 / 4.9	5.4 / 137	3.1 / 1.4

Illustrative picture:



Item # 31: Lighting units, portable, Twin Tripod Work Light IP65 110V

Electrical LED tripod light is frequently used in building and renovation projects to illuminate spaces that don't yet have lights installed. Thanks to its sturdy design, the unit is perfectly suited to indoor or outdoor use and it's also free-standing so you can move it around as you work. Besides being convenient, the light adds to workplace safety by making sure you can clearly see any tripping hazards.

The two energy-efficient LEDs give you maximum brightness and are mounted on a tripod so you can adjust the lights to the height you need. They have strong die-cast housings and tempered glass lenses, so there's no need to worry about the lights getting damaged easily. This product is supplied with a 3 m power cable, so you can be a bit flexible about where you want to set it up.

- Die cast housing with tempered glass for robust strength
- Sturdy steel tripod
- IP65 rating
- 2x 20W, 2x 2000lm lights
- Cool white 6500K light
- 3m H05RN-F rubber cable
- Average life of 25,000 hours
- Contains a built-in, non-replaceable LED lamp

Illustrative picture:



Item # 32: Air Lifting Bag KP1 22-888110G2

The MAXIFORCE® AIR LIFTING BAG is a thin, strong, molded envelope available in 14

different sizes. It is made from 3 layers of Neoprene covered Aramid fiber reinforcement and has the power to lift, move or shift weights up to 89 tons (80.9 metric tons) per bag. Control equipment and components play a critical role in successful lifting bag use and unlike other lifting bag systems, Paratech manufactures all of its major control components. This assures the quality of the lifting.

Specifications:

Dimensions (mm)	Max Lifting Capacity US Ton / Met Ton	Max Lifting Height t in/m m	Weight lb/kg
152 mm x 152 mm x 19 mm	1.5 / 1.3	3.0 / 76	1.2 / 0.6

Illustrative picture:



Item # 33: Rope protection, flat mat

Large Canvas for rope protection over sharp, rough or angled edges. Must have attachment points for security and eyelets for securing into position.

Illustrative picture:



Item # 34: Entry control board

Entry into hazardous areas such as confined spaces or work where breathing apparatus is necessary always requires strict control, in order to ensure accountability and safety of personnel, especially in the event of an emergency. The range of Entry Sentry control

boards and entry control equipment provides a robust means of achieving this.

Constructed to last in the harshest environments the boards are manufactured from high strength, corrosion resistant materials, and provide a means of recording important information. The control board should come with credit card sized entry tallies.

Illustrative picture:

