

PRODUCT & SERVICE CATALOG

MIDDLE EAST & AFRICA REGION



Top Brands • Total Solutions • One World

www.safetyplusworld.com



**PERSONAL PROTECTIVE
EQUIPMENT**



**ENVIRONMENT
& HEALTH**



**SAFETY &
SECURITY**

ABOUT US - RAJA GROUP



Raja International - Sharjah (UAE)

In line with our global aspirations, the owners of Raja Company W.L.L. (Kuwait), back in 2017, initialized a MENA region strategy by establishing an independent company called Raja International General Trading at the SAIF Free Zone in Sharjah. This company in association with our Kuwait organization, will have its own umbrella of brands and business strategies for its B2B and B2C stakeholders in the GCC and MENA regions.

Raja Company - Kuwait

Raja Company W.L.L. Kuwait is gearing up in 2022 to complete 62 years of running a successful business enterprise in the State of Kuwait. Through these years, the company has grown and diversified into numerous divisions and activities namely Industrial Safety & Contracting, Kitchen Equipment's, Restaurants, Training, Consumer Goods Distribution, Web Design, E-Commerce Web Development, Mobile Application Development, Corporate Gifts, Interior Design, Fabrication and Turnkey Solutions.

OUR DIVISIONS



MIDDLE EAST & NORTH AFRICA'S FIRST COMPREHENSIVE ONLINE SAFETY STORE

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Raja International our new venture set up in 2017 at Sharjah Free zone, UAE, will complement our thrust in the MENA region and enhance our logistics and marketing support for our products listed on the new ecommerce platform. (www.ibuysafety.com)

ITS ABOUT TIME WE REVOLUTIONIZE SAFETY SHOPPING FOR ALL OUR CONSUMERS!

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HEAD PROTECTION

Safety Plus World Hard Helmet ▶

Model No.: SP100HP-V

- High density impact resistant PP Helmet
- 4 points Suspension with ratchet system and Adjustable chin strap
- Certified as per EN 397:2012
- Available colors: White, Yellow, Blue & Red



◀ Bullard Hard Hat



Model No.: S61

Bullard S61 conform to all ANSI/ISEA Z89.1-2014, Type I, Class E & G requirements, including impact, penetration, and electrical insulation. Available with a 4-point self-sizing pinlock. Made from high-density polyethylene.

Available Colors: Yellow, White, Blue, Red, Green, etc.
Made in USA

Bullard Hard Hat ▶

Model No.: S62

- Bullard S62 is the Standard Series vented hard hat
- 4-point Ratchet suspension system with cotton absorbent brow pad
- Vented shell design for increased ventilation and worker comfort
- ANSI/ISEA Classification: Z89.1-2014, Type I, Class C
- Made in USA



◀ Bullard Standard Series Wide Brim Hard Hat with Ratchet Suspension

Model No.: S71R

- A wide brim extends the area of rain and sun protection offered by the Model S71 Hard Hat
- Highly absorbent cotton replaceable brow pad for added comfort
- Four-point suspension has a Flex-Gear® ratchet suspension with a ratchet sizing knob and flex points for a personal fit
- Accessory slots allow for mounting faceshields, welding helmets, earmuffs and headsets
- Meets ANSI Z89.1-2014, Type I, Class E and G requirements
- Made in USA



HEAD PROTECTION



Bullard LT Series Structural Fire Helmet

Model No.: LTX

LT Series fire helmets are designed Bullard Tough for extreme conditions. The tough shell, lightweight and compact design have been reengineered to offer even more headroom and comfort – making it the most comfortable low profile helmet on the market.

Available Colors: Yellow & Red

NFPA Approved

The LT Fire Helmet exceeds the NFPA 1971, standard on protective ensemble for structural fire fighting pertaining to structural fire helmets.



Bullard LT Series Structural Fire Helmet

Model No.: 300B (Carrier)

Model No.: 480P (Visor)

Bullard's redesigned line of nylon dielectric brackets offers superior protection with increased versatility and comfort. Users can choose band or slot-mounted styles that securely attach to their cap model hats. Enhancements made to the re-engineered line of brackets include:

- Stylish, sleek, cohesive look throughout the line
 - Ergonomic design with easy-to-grip knobs
 - Flexibility to accommodate all Bullard Hard Hats and the Bullard Bump Cab
 - Band-mounted brackets that fit competitor models
 - Visor retainer system that securely locks visor in place
- Bullard's nylon dielectric brackets are made from lightweight, durable nylon that is ideal for general-duty applications.

300B - Dielectric nylon bracket, front mounting for cap style models S51, S61, S62, C30, 911C and Advent

480P - Clear, heat-formed, multi-fit polycarbonate visor, 8" x 15" x 0.040" for use with Bullard brackets and most competitive models



EYE & FACE PROTECTION

Safety Plus World Basic Eyewear ▶

Model No.: S-968 CLAS Clear

Model No.: S-968 GYAS Smoke

- Lightweight, frameless protection
- Superior comfort and fit
- Polycarbonate lens provides 99% UVA/B/C protection
- Standards: Complies to EN 166:2002, EN172:2002



◀ Safety Plus World Basic Safety Eyewear

Model No.: SP302CL (Clear)

Model No.: SP302SM (Smoke)

- Wrap-around popular model
- Flexible nylon frame & temples
- High performance polycarbonate lens
- Thin end temples brings pressure free fitting & adjustable length
- Fits all the heads
- Anti-UV/ anti-scratch
- Standard: Complies to CE EN166:2002



Safety Plus World Platinum X Eyewear ▶

Model No.: SPPTX304CL (Clear)

Model No.: SPPTX304SM (Smoke)

- Sporty and full wraparound design provides optimal protection for general use
- Vented frame design for improved airflow
- Slim and pliable co-material temples with ratchet angle adjustable feature for personalized fit
- Cushion-like nose pad made of non-slipping material providing optimal comfort
- 99.9% of harmful UV light can be blocked through the optical class one lens
- Perfect and useful protective eyewear with high velocity impact resistance
- Standards: Complies to EN166:2002 & EN170:2002



EYE & FACE PROTECTION



◀ Safety Plus World Premium X Eyewear

Model No.: SPPX303CL (Clear)

Model No.: SPPX303SM (Smoke)

- High curvature of single-piece lens offers wide and unobstructed vision
- Soft nosepiece and temple pad for cushion fit
- Light, resilient & durable protective eyewear for all day wear
- Lens inclination for different users
- Fashionable design that meets safety standard
- Scratch-resistant coated polycarbonate lens filters out more than 99.9% of harmful UV light
- Standards: Complies to EN166:2002 & EN170:2002

Safety Plus World Over the Glass Safety Spectacles ▶

Model No.: SPOTG305CL (Clear)

Model No.: SPOTG305SM (Smoke)

- All new light-weight OTG style with 1.7mm lens thickness and wraparound 2.5 base lens with integral extension of side shield can be worn over most prescription glasses
- Metal free hinge structure suitable for di-electric applications
- 3-position angle & length adjustment function for personalized fit
- Co-injected frame increasing the dust protection
- Dual-material temples with ultra soft TPR tip for all day comfort
- Filters out 99.9% of all harmful UV light
- Standards: Complies to EN166:2002 & EN170:2002



◀ Safety Plus World Chemical Splash Goggle

Model No.: SPCSG306GLCL (Clear)

Model No.: SPCSG306GLSM (Smoke)

- Wide vision crystal clear polycarbonate lens
- Indirect vents allow airflow and reduce fogging
- Elastic headband is easily adjustable with optional quick-release clip for ease of use
- Specific design on the sides of the goggle body for fitting over prescription glasses
- Impact resistance against flying particles
- Splash and Dust protection
- Anti-Fog & Anti-Scratch lenses filter out more than 99.9% of harmful UV light
- Standards: Complies to EN166:2002 & EN170:2002



EYE & FACE PROTECTION

Radians Rad-Sequel™ IQ - IQUNITY™ Anti-Fog Safety Eyewear

- IQunity™ Intelligent semi-permanent anti-fog and anti-scratch hydrophilic coating that lasts longer than hydrophobic coatings
- Environmentally friendly, non-toxic and non-flammable unlike highly toxic solvent-based coatings
- Water washable up to 20 times more than hydrophobic anti-fog glasses
- Rubber tipped temples provide a secure fit.
- Soft, rubber nose piece provides all day comfort
- Polycarbonate lens provides impact resistance
- Protective lens provide 99.9% UVA/UVB protection
- Meets or exceeds ANSI Z87.1 + Standard



Radians Dagger™ IQ - IQUNITY™ Anti-Fog Foam Lined Safety Goggle

- IQunity™ Intelligent semi-permanent anti-fog and anti-scratch hydrophilic coating that lasts longer than hydrophobic coatings
- Environmentally friendly, non-toxic and non-flammable unlike highly toxic solvent-based coatings
- Water washable up to 20 times more than hydrophobic anti-fog glasses
- Closed seal foam padding forms a perfect seal
- Protective polycarbonate lens provides impact resistance
- Elastic head strap provides a comfortable, easily adjustable fit
- Clip attachment• Temple length adjustment
- Replacement lens available
- Meets or exceeds ANSI Z87.1 + Standard



Radians Crossfire Sniper Bifocal Safety Eyewear

- Vented Rubber Nosepiece for breathability
- Lightweight, Comfort-Fit Half Frame for all day comfort
- Bifocal lens
- Hard coat polycarbonate lens protects against scratches
- Provides 99.9% UVA and UVB protection
- Complies with ANSI Z87.1 standards



Radians Rad-Sequel RSx™ Bi-Focal

- Magnification diopter molded directly into protective safety lens
- Cushioned, non-slip rubber tipped temples provide a secure fit
- Soft, rubber nose piece provides all day comfort
- Lightweight design provides a comfortable fit
- Polycarbonate protective safety lens provides impact resistance
- Meets or exceeds ANSI Z87.1 + Standard



HEARING PROTECTION

EARSafe®

Safety Plus World Ear Plugs

Model No.: SP201-EPC (with cord)

- PU Foam Bullet shape Earplugs
- Comfortable for wide range of ear sizes
- Bright fluorescent yellow for visibility
- Can be used with other personal protective equipment
- Standard: ANSI S3.19-1974 & EN 352-2
- SNR 36dB | NRR 33dB | Class 5



Safety Plus World Helmet Mounted Earmuff

Model No: SP202-EM

- Dielectric (no metal parts)
- Comfortable Style
- Helmet mouted Earmuff
- Bright fluorescent yellow for visibility
- Materials: ABS
- Standard: ANSI S3.19-1974 & EN 352
- SNR 30dB | NRR 25dB | Class 5

Radians Silencer™ Earmuff in Clamshell

Model No.: SL0130CS

- Packaged in Clamshell
- High quality hearing protection
- Rugged, durable design
- Dielectric construction
- Can be combined with earplugs for the ultimate in hearing protection
- Padded headband
- NRR 26 dB



Radians Resistor® 32 Disposable Foam Earplug

Model No: FP70-B250

- Bulk 250 pair of uncorded Resistor foam earplugs
- Not individually packaged
- Great for refilling dispensers
- NRR 32 dB
- Made in USA

RESPIRATORY PROTECTION

IEVAC Smoke Fire Hood

Model No.: EBP-900 (Hood)

Model No.: EBP-270 (Pouch)

iEvac®

The first and only hood Certified to the American National Standard for Smoke Escape Devices

- Maintenance-free • Latex-free
- At 9.5 in. (240mm) can withstand up to 1700°F (927°C) in radiant heat
- Twin filters for easier breathing
- Improved field of view compared with single filter in front
- Hood is a clear material resulting in an unobstructed field of view
- High visibility reflective strips for easy recognition
- Highest level of protection maintained by silicone neck dam
- Protects lungs, head, eyes and face
- Can be used with eyeglasses, beards and long hair
- Packaged in puncture and water-proof laminate barrier
- Quick and easy donning • One universal size
- Tested & Certified to ASTM E2952



Powered Air Purifying Respirator

Model No.: SP-900PAPR

- Perfect Breathing Protection
- Rechargeable Lithium Battery
- Welding Helmet & Air Hood can be used separately
- Three Layers of Filtration, more perfect effect

Powered Air Purifying Respirator

Model No.: SP-901PAPRFR

- Perfect Breathing Protection
- Rechargeable Lithium Battery
- Intelligent & Stable Air Supply
- Welding Helmet & Air Hood can be used separately
- Three Layers of Filtration, more perfect effect



Powered Air Purifying Respirator

Model No.: SP-902PAPRHT

- Perfect Breathing Protection
- Rechargeable Lithium Battery
- Intelligent & Stable Air Supply
- Welding Helmet & Air Hood can be used separately
- Three Layers of Filtration, more perfect effect

RESPIRATORY PROTECTION

BLS Full Face Mask



Model No.: 5000 B-LOCK

- **FACE SEAL**

Available in soft thermoplastic rubber (BLS 5600) or silicone rubber with FDA certification (BLS 5700) for better comfort.

- **FACE PIECE IN SILICONE**

Guarantees performance and duration.

- **ANTI-FOG**

Designed to avoid fogging on the visor through the control of the cold and hot air flows inside the mask, instead of treatments which can easily be spoiled with use.

- **VISOR (Live Visor)**

Optical class 1 (EN 166), allows a panoramic visual field without optical distortions. A vitrification treatment on its surface makes it scratch resistant. It is also impact tested: MIL-STD-662F:1997 (V50 ballistic test for armour).

- **HARNESS (Komfort)**

Fixed on 6 points directly on the rigid body of the mask in order not to deform the face seal. It allows to distribute the weight of the respirator evenly without leaving face marks.



BLS 4000

Model No.: 4000

BLS 4000 half mask respirators with twin bayonet filter connection have an ease of maintenance and are available with ready to use premounted kits with filters.



BLS Gas & Vapor Cartridges

BLS211 A2	Organic Vapor
BLS213 ABE1	Organic Vapor/Acid Gases
BLS244 K2	Ammonia/Methylamine
BLS 214ABEK1	Multi-Gas/Vapor
201-3	Particulate Filters

BAYONET CONNECTION

This connection is highly intuitive allowing a quick and safe hold on the mask. It has a locking feedback allowing the user to know if the filter has been properly placed.



HARNESS

Fixed on 2 points directly on the rigid body of the mask allowing to distribute the weight of the respirator evenly without leaving face marks.

FACE PIECE

Available in soft thermoplastic rubber (4000 R) or silicone rubber (4000 S) and in two sizes (S/M and M/L) for better comfort and perfect fit.

EASY AND FAST MAINTENANCE

It can be disassembled in less than a minute making cleaning and maintenance much easier.

RESPIRATORY PROTECTION

GVS Elipse® P3 Respirator with Replacement filters

Model No.: SPR299 (S/M) & SPR501 (M/L) Mask with P3 Filter

Model No.: SPR337 (S/M) & SPR502 (M/L) Mask with P3 Nuisance Odour Filter



Compact, lightweight and flexible design which adapts and fits perfectly to the face and offers a full range of vision without interfering with other eye or ear protection which users are required to wear.

Elipse come in two sizes: S/M and M/L.

Certifications

Mask conforms to EN 140:1998

Filters conform to EN 143:2000+A1:2006

Masks and filters are CE certified

Storage Life

Elipse P3 R D: & Elipse P3 Nuisance Odour R D: 5 year

Applications

- Welding and Grinding (Metal fumes and Dust)
- Construction (Silica Dust, Abestos, Concrete Dust, Stone Dust, Aggregate Dust, Wood Dust, Cement Dust, Mold)
- Manufacturing (Glass Fibres, Composite Fibres, Lead Fumes)
- Pharmaceutical (Powders, Viruses)



SPR316 (P3)

**SPR336 (P3
Nuisance Odour)**

GVS Elipse® Integra Combined Eye & Respiratory Protection

Model No.: SPR407 (S/M) & SPR406 (M/L) Mask with P3 Filter

Model No.: SPR404 (S/M) & SPR405 (M/L) Mask with P3 Nuisance Odour Filter



SPR316 (P3)

**SPR336 (P3
Nuisance Odour)**

Compact, lightweight and flexible design which adapts and fits perfectly to the face and offers a unique and innovative combined protection, reducing risks of non-compatibility, non-conformity and mist build-up. Elipse® Integra come in 2 sizes S/M and M/L.

Certifications

Integra Mask (Goggle combined) conforms to EN 140:1998

Integra Mask (Goggle combined) conforms to EN 166:2002

Particulate filters conform to EN 143:2000+A1:2006

Gas and combined gas & particulate filters conform to EN 14387:2004+A1:2008

Integra Masks and filters are CE certified

Storage Life

3 years, for mask & filters for gases

5 years, for mask & filters for particulates

3 years, for mask & filters for particulates with nuisance odour

Applications

A organic gases & vapours with a boiling point above 65°C

B inorganic gases & vapours (excluding carbon monoxide)

E sulphur dioxide and other acidic gases and vapours

K ammonia and organic ammonia derivatives

AX certain organic gases and vapours with a boiling point $\leq 65^{\circ}\text{C}$. For single use only

RESPIRATORY PROTECTION

IShieldU Disposable Particulate Respirator N95

Model No.: ISUN95CM

- Single-use disposable respirators featuring a pre-formed nose bridge offering protection against particulate hazards
- Cup Shaped Design
- Inner seal around the nose area for an effective fit
- Soft material edges for high wearing comfort
- Retains its shape even in extreme conditions
- Standard: NIOSH N95



IShieldU Disposable Particulate Respirator N95 (w/Valve)

Model No.: ISUN95CV

- N95 Protective Mask with Valve is designed for particles produced by applications such as grinding, sanding, sweeping, sawing, bagging, or other dusty operations
- Light and Comfortable
- Valve filter to prevent dust and non-oily particles
- Exhalation valve for easy breathability
- Soft inner materials
- Adjustable nose clip reduces potential for eyewear fogging and helps ensure a better seal and fit
- Standard: NIOSH N95

IShieldU Disposable Particulate Foldable Respirator N95

Model No.: ISUN95FM

- Light and Comfortable
- Valve filter to prevent dust and non-oily particles
- Exhalation valve for easy breathability
- Soft inner materials
- Adjustable nose clip reduces potential for eyewear fogging and helps ensure a better seal and fit
- Standard: NIOSH N95



RESPIRATORY PROTECTION



IShieldU Disposable Particulate Respirator FFP3 (w/Carbon)

Model No.: ISUCFFP3VC

- The Carbon Face Mask is one additional layer of activated carbon. Carbon filter material helps provide relief against nuisance levels of acid gases
- Light and Comfortable
- Soft inner materials
- Sponge nose pad improves comfort and fit
- An exhalation valve which aids with easy breathing even in uncomfortable environments
- Made of activated carbon cloth with high efficiency and strong adsorption, effectively blocking low-toxic gas, filtering organic gas and acid smell, filtering fine dust
- Standard: FFP3 (BS EN 149:2001 + A1:2009)

Emergency Escape Breathing Device

Model No.: TH/15F

The Emergency Escape Breathing Devices (EEBD) TH/15F are part of the critical safety equipment and are used for escape from a compartment that has a hazardous atmosphere. Their use has become mandatory under the new amendments to SOLAS 74 (Chapter II-2, Reg 16) for all ships to which the safety equipment certificate is required.

- Standard:
MED Approval, ISO23269-1 (2008); EN1146 (2005)
Reg. II-2/13 of SOLAS '74 as amended, IMO Res. (FSS Code) 3, IMO MSC/Circ.849

FENAN
SAFETY PROTECTION



Self Contained Breathing Apparatus

Model No.: RHZK6.8/30

The RHZK6.8/30 SCBA is an open circuit, self-contained, compressed air breathing apparatus. It consists of back plate, carrying harness and pneumatic system, consisting of a cylinder connector, regulator, pressure gauge, whistle and demand valve. There are also a range of attachments available including electric pressure gauge, communication face mask and adjustable back plate.

- Standard:
EN 136:1988 Class 3 & EN 137:2006 Type 2
ISO 9001:2015

RESPIRATORY PROTECTION



Powered Air Purifying Respirators (PAPRs) ►



Respiratory Protection Reimagined

The RPB PX5 changes the way people experience clean filtered air across multiple industries – from medical and chemical settings, through to the profoundly harsh environments of foundries.

Weighing just 1.16 Kg with the HEPA cartridge/filter fitted, and between 1.65 Kg and 1.7 Kg with a gas cartridge/filter fitted, the PX5 allows you to get more out of your day by reducing the effects of fatigue.

PX5 PAPR Industrial Starter Pack ►

Model No.: 03-801-FR-EUUK

- PX5® PAPR blower
- Rechargeable battery and charging bank (EU and UK plug)
- Flame Retardant Belt
- Flow Tester
- 1 x HEPA (P3) filter
- 1 x spark arrestor
- 1 x pack of pre-filters (10pcs)



HEPA P3/Filter

Model No.: 03-892-P



Pre-filter (pk 10)

Model No.: 03-890



Spark Arrestor

Model No.: 03-891



Combination HEPA A2P3 Gas Filter

Model No.: 03-893-A2

Combination HEPA ABEKP3 Gas Filter

Model No.: 03- 895-ABEK



Complete Charger Kit

Model No.: 03-851-DC-EUUK



RESPIRATORY PROTECTION

Easy Clean Backpack Assembly
Model No.: 03-822-DC

rp



Flame Retardant Back Harness Assembly
Model No.: 03-822-FR



Short Breathing Tube for Backpack Assembly
Model No.: 04-841



Battery
Model No.: 03-855



T-Link Respirator, Bump Cap

Model No.: 17-110-12-CE

- Bump Cap
- Tychem® 2000 Hood
- PX5® Breathing Tube



Z-Link Respirator - Zytec® FR Chin Seal

Model No.: 16-010-31-CE

- Safety Lens
- Chin Seal Zytec FR
- PX5 Breathing Tube



Z-Link Respirator - Zytec® FR Shoulder Cape

Model No.: 16-010-21-CE

- Safety Lens
- Zytec FR Shoulder Cape
- PX5 Breathing Tube



Z-Link Radiant Heat Respirator

Model No.: 16-010-24-CE

- Safety Lens
- Aluminized shoulder cape, top rear and breathing tube cover
- PX5 breathing tube



Z4 RESPIRATOR WELD/GRIND STARTER PACK

Model No.: 17-110-12-CE

- 1.1.1 ADF lens
- Flame Retardant face seal
- Slim-line ear muffs
- PX5® Breathing tube
- PX5® PAPR blower
- Rechargeable battery & charging bank (EU and UK plug)
- Flame Retardant belt
- 1 x HEPA (P3) filter
- 1 x spark arrestor
- 1 x pack of pre-filters (10pcs)



RESPIRATORY PROTECTION



Bullard AirGuard Portable Air Quality Box

AirGuard is an innovative next-generation solution in portable air quality products. It integrates breathing air filtration with sensors for Carbon monoxide (CO) and differential dew point for both safety and breathing air comfort.

Designed with the user in mind, AirGuard has an external easy-to-read display to communicate threats beyond general audible alarm warnings. The display is readable from over 30 feet allowing for a quick response when AirGuard detects a hazardous situation.

Model No.: AGD15HA

15 CFM Airguard Unit –
Industrial Interchange
(Hansen) Fittings

Model No.: AGD30HA

30 CFM Airguard Unit
– Industrial Interchange
(Hansen) Fittings

Model No.: AGD50HA

50 CFM Airguard Unit
– Industrial Interchange
(Hansen) Fittings



Bullard Clean Air Boxes (CAB)

Bullard Clean Air Boxes (CAB) offer superior breathing air filtration in a durable easy to use format. OSHA requires that employers provide their workers wearing airline respirators with Grade D breathing air. Bullard Clean Air Boxes provide 3-stage filtration and carbon monoxide (CO) monitoring to help meet this requirement.

Filtration Capacity

CAB15 cfm (425 lpm) at 110 psi (7.5 bar)

CAB30 cfm (850 lpm) at 110 psi (7.5 bar)

CAB50 cfm (1415 lpm) at 110 psi (7.5 bar)

CAB100 cfm (4248 lpm) at 110 psi (7.5 bar)



RESPIRATORY PROTECTION

Sibata Mask Tester Pro



Model No.: MT-05U

- With a single detector (particle counter), MT-05U measures the number of particles in the room (outside the mask) and inside the mask alternately to quantify how tightly the mask fits the face. As a result, errors due to differences in detector characteristics are reduced
- There are four modes: Daily Check mode, Fit Test mode, Fit Check mode, and Training mode, that enable a user to use according to the application
- Measurements can be made using a test guide (non-destructive mask test) or a tube joint set (open a mask hole)
- Automatic recording function for measurement results (Daily Check mode, Fit Test mode, and Fit Check mode)
- MT-05U communicates with PC using a USB cable
- Leakage rate can be measured while the fitting of the mask is checked by using attached mirror
- **Safety Standard:** CE, FDA, Code 95R-EN, and not explosion proof



Intended Measurement	Mask-to-face fit evaluation
Measurement items	$\pm(3\%+0.2)$
Principle of Measurement	Particle count concentration measurement by laser beam scattering (determination of dust particle count ratio between indoor air and in-mask air)
Measurement Ranges	Counting range: 0 to 9999999 counts Leakage percentage: 0 to 100% Fit factor: 1 to 1000000
Suction Flow Rate	1 L/min
Built-in Functions	Leakage percentage and Fit factor calculation functions; heating tube temperature control function; dryer function; RS-232C output function; USB communication function; and logging function (up to 200 logs for each of Fit Check, Fit Test, and Daily Check)
Usage Environment	0 to 40°C, 30 to 90% RH (no condensation)
Power Supply	100 to 240 $\pm 10\%$ VAC, 50/60 Hz, approx. 0.5 A
Main Unit Dimensions	210 (W) x 240 (D) x 232 (H) mm (excluding protrusions)
Main Unit Mass	Approx. 3 kg
Accessories	One AC adapter (fitted with a plug; supplied with four spare plugs) Two pcs of Sampling tube (pair tube) 1.5 m One strap clip One high-performance zero check filter One Tube joint set type M 100 pairs/set One Tube joint attachment tool type M Two suction port caps One external output connector cap One USB connector cap One CD-ROM (Communication software, USB driver, Operation manuals) One USB cable (A-mini B) One Soft case One Manufacturer's inspection and calibration certificate

HAND PROTECTION



Hi-Shield Gloves

Model No.: ISU4111HS

Nitrile coating offers a high level of grip and protection. HI-SHIELD is a nitrile-coated knit glove for light and medium handling. The glove offers excellent resistance to abrasive materials.

Ideal applications

- Warehouse Work
- Maintenance & Repair
- Assembling
- General Handling

EN388:2016



Super-Shield Gloves

Model No.: ISU4121SS

- Lightweight extreme foam nitrile microfoam palm for excellent wet or dry grip & breathability
- Compatible with light oils & excellent abrasion resistance
- Knit wrist helps prevent dirt & debris from entering the glove

Ideal applications

- Loading and unloading items
- Tools & Instruments handling
- Small Parts Handling
- Plumbing
- Warehouse Work
- Light Metal Fabrication

EN388:2016



Cut-Shield Gloves

Model No.: ISU4X42CT

- Touchscreen compatible fingertips
- Polyurethane coated palm for great abrasion resistance
- Elasticated knitted wrist provides secure & comfortable fit
- Seamless liner offers increased comfort & breathability

Ideal applications:

- Glass Handling
- Automatic Manufacturing
- Construction
- Sharp Materials Handling
- Component Handling

EN388:2016



HAND PROTECTION



Air-Shield Gloves

Model No.: ISU4131AS

- Breathable back of hand to reduce perspiration
- Polyurethane coating offers excellent grip & extra durability
- Perfect for handling small components & carrying out precision works

Ideal applications

- Loading and unloading Items
- Accessories & spare parts Items
- Maintenance works
- Equipment Handling
- Precision Handling



EN388:2016



4131

Chem-Shield Gloves

Model No.: ISU3101CM

Nitrile compound provides an outstanding combination of chemical resistance and strength. CHEMSHIELD A heavy duty chemical resistant flock lined nitrile butadiene glove for chemical and heavy duty applications.

Ideal applications

- Painting
- Cleaning & Janitorial
- Chemical Handling
- Automotive Maintenance & Repair

EN388:2016



3101



Rig Shield Anti-Impact Gloves

Model No.: ISU4544EP

- Sandy Nitrile finish with extra padding for Excellent grip in wet, dry & oily condition
- Black TPR chips on back for super anti impact protection
- Velcro hook & loop closure at the wrist to provide a snug custom fit
- Reinforced thumb crotch for extended glove life, enhanced comfort, increased abrasion resistance
- High Visibility for increased safety
- Touchscreen compatible fingertips

Ideal applications

- Oil & Gas Industry
- Heavy Construction Work
- Handling Heavy Duty Tools

EN388:2016



4544EP



HAND PROTECTION

Kong Cotton Corded Impact Gloves

KONG

Model No.: KCCP

- A3 Cotton/Polyester Corded Palm
- Polyester Knit Back of Hand
- Airprene Slip-On Cuf
- KONG Impact Protection
- Duraclad® Saddle Reinforcement

ANSI 105



1046g

EN 388:2016



1142BP



Category 2



Kong Deck Crew Gloves

Model No.: KDC5

- DuPont™ Teflon® Treatment
- Exclusive CT5™ Cut Resistant Material
- 4 Layer Design
- KONG® Metacarpal Protection
- KONG® Knuckle Protection
- KONG® Patented Finger Protection

EN 388:2016



4X44EP



Category

ANSI / ISEA



Kong Original Impact Gloves

Model No.: SDX2

- Co-Developed By OGSC
- Exclusive Palm Material
- KONG® Metacarpal Protection
- KONG® Knuckle Protection
- KONG® Patented Finger Protection

EN 388:2016



4242AP



Category 2

ANSI / ISEA



HAND PROTECTION

KONG



Kong Knit Cut A5 Impact Gloves

Model No.: KKCA5

- IVE™ patent pending optical technology that extends the field of visual recognition
- Proven maximum coverage impact protection on fingers, thumb, knuckles and metacarpal bones
- 15 gauge cut resistant knit. ANSI A5 / CE CUT "E"

EN 388:2016



4X43EP



Category 2

ANSI / ISEA



Kong High Abrasion Dexterity Gloves

Model No.: SDX2-HAD

- Patented "pinch protection" on the fingertips
- Patented maximum coverage impact protection on fingers, thumb, knuckles and metacarpal bones
- High dexterity and Abrasion, most comfortable impact glove
- IVE™ patent pending optical technology that extends the field of visual recognition

EN 388:2016



4331BP



Category 2

ANSI / ISEA



Kong Chemical Knit Impact Gloves

Model No.: KCHA5

- 13 Gauge HPPE/Nylon/Steel/Glass
- 1st Coating = Nitrile (Oil Resistant)
- 2nd Coating = Nitrile with Sandy Finish
- IVE™ patented high-visibility technology that extends field of visual recognition
- Proven impact protection on fingers, thumb, knuckles and metacarpal bones for maximum coverage
- No TPR stitching so no punctures in the Nitrile dip

EN 388:2016



4X42FP



Category 2

ANSI / ISEA



3719g



HAND PROTECTION

Kong Rigger Cut 5 Impact Gloves

Model No.: KRC5

- Exclusive CT5™ Cut Resistant Material
- Patented Diamondclad® Silicone Fused Palm
- Co-Developed By OGSC
- Duraclad® Rope Channel Reinforcement
- KONG® Metacarpal Protection
- KONG® Knuckle Protection
- KONG® Patented Finger Protection

EN 388:2016

ANSI / ISEA



4X42DP

Category 2

CUT A5

ABR 3

KONG



Kong Deckcrew Waterproof Gloves

Model No.: KDC5W

- IVE™ patented optical technology that extends the field of visual recognition
- ANSI level 2 impact protection
- Insulated back of hand for cold weather protection
- Water & oil proof membrane for complete protection
- Teflon coated shell fabrics for increased water & oil resistance
- Neoprene cuff - snug fit, easy to remove

EN 388:2016

ANSI / ISEA



4X33FP

Category 2

4190g

Kong PRO A6

Model No.: SDX2P

- Hi-Viz TPR impact design
- DuPont Kevlar palm liner
- High strength palm fabric giving maximum dexterity
- PVC/PU dots for added grip

EN 388:2016

ANSI 105



4X44FP

Category 2

3834g



HAND PROTECTION



Ironclad Heavy Utility Gloves

Model No.: HUG

- Duraclad® Reinforcements on palm
- Hybrid Cuff System
- TPR Cuff Puller
- Terry Cloth Sweat Wipe

ANSI 105



EN 388:2003



Ironclad Motor Impact 360 Cut Gloves

Model No.: IEX-MIGR5

- Command™ Synthetic Suede with Padded Palm for Full Touchscreen Capability
- Polyester Knit Back of Hand for Breathability
- HPPE Blend, 360 Cut-Resistant ANSI A5 Liner
- TPR Hook & Loop Closure for a Secure Fit
- TPR Back of Hand, ANSI Level 1 Impact Protection
- Thumb Saddle Reinforcement for Extended Durability
- Terry Cloth Thumb Sweat Wipe



ANSI 105



EN 388:2016



Ironclad High Viz Pro Gloves

Model No.: IEX-HVP

- Reflective Knuckle Print
- Neoprene Padded Knuckle
- Conductive Palm & Index Finger
- Terry Cloth Sweat Wipe
- TPR Hook & Loop Closure

EN 388:2016



ANSI 105



635g

HAND PROTECTION

Ironclad Motor Impact Gloves

Model No.: IEX-MIG

- Full Back of Hand TPR Protection
- Ventilated Back of Hand Flex Panel
- Conductive Palm & Fingers
- Terry Cloth Sweat Wipe
- TPR Hook & Loop Closure
- Impact Absorbing Palm Pads
- Also available in High Visibility version IEX-HZI

EN 388:2016



2121



Category
2

ANSI 105



635g



3



Ironclad Workcrew Gloves

Model No.: WCG

- Synthetic Leather Reinforcements
- Compression Cuff System
- TPR Cuff Puller
- Terry Cloth Sweat Wipe

EN 388:2003



3121



Category
2

Ironclad Low Profile Closed Cuff Impact Gloves

Model No.: LPI-CC5

- IVE™ patent pending optical technology that extends the field of visual recognition
- Proven impact protection on fingers, thumb, knuckles and metacarpal bones for maximum coverage
- Cut resistant palm inner liner; level 5 out of 5 on EN388
- Hook and loop closure for easy entry & exit
- Reflective fabric - nighttime visibility

EN 388:2016



3X44D



Category
2

ANSI / ISEA



CUT
A4



3



HAND PROTECTION



Ironclad Vibration Impact

Model No.: WWI2

- Ergonomic gel palm pads
- Contour grip palm design
- Terry Cloth Sweat Wipe
- TPR cuff puller for ease of donning

EN 388:2016



2122



Category
2

Ironclad EXO Hi-Viz Utility

Model No.: EXO2-HSY

- Reflective accents for visibility
- Cuff puller for ease of donning
- Terry Cloth Sweat Wipe

EN 388:2003



2121



Category
2



Ironclad Command™ A2 PU Impact

Model No.: KCI2PU

- Hi-Viz Low Profile TPR
- 18 gauge HPPE/Steel Knit for dexterity
- Delivers superior grip in dry, wet and oily conditions
- Hi-Viz for maximum visibility



4X42DP



Category
2

PROTECTIVE CLOTHING

Desert Gold IFR Coverall

Model No.: GDI32

- Breathable and ultra lightweight material to optimise body heat for middle eastern climates
- Oekotex 100 certified to ensure no harmful substances reach the user
- Best-in-Class Safety Performance with just 18.2% overall burns (tested as per NFPA 2112 standard)
- Available Colors: Royal Blue & Red
- Composition: Modacrylic 50%, P- Aramid 10%, Cotton 38%, Anti Static 2%
- Weight: 180 GSM
- Weave: Plain (1/1)



Desert Gold Woven Magic IFR Coverall

Model No.: GDI33

- Weight/gsm: 150gsm
- 93% Meta-Aramid, 5% Para Aramid, 2% Antistatic
- Inherent Fire Retardant Woven Millmade Fabric
- Certified as per NFPA 2112:2012 & UL Approved
- Available Colors: Navy Blue, Khaki & Royal Blue

Desert Gold IFR Coverall

Model No.: GDI49

- Breathable and ultra lightweight material to optimise body heat for middle eastern climates
- Oekotex 100 certified to ensure no harmful substances reach the user
- Best-in-Class Safety Performance with just 18.2% overall burns (tested as per NFPA 2112 standard)
- Available Colors: Royal Blue
- Composition: Modacrylic 38%, P- Aramid 12%, Tencel 48%, Anti Static 2%
- Weight: 230 GSM • Weave: Plain (1/1)



PROTECTIVE CLOTHING



◀ Safety Plus World Poly Cotton Coverall

Model No.: 2000010 (L)

- 65% Polyester & 35% Cotton, 150 gsm
- Two chest pockets, left chest pocket with flap & snap button and pen slot
- 2 Side & 2 back patch pockets, with one ruler pocket on right leg side
- Self locking, 2 way nylon zipper front under placket
- Elastic waist with belt & buckles
- Available Colors: Navy Blue, Light Blue, Khaki

Safety Plus World Cotton Coverall ▶

Model No.: 1781C

- 100% cotton, 200 gsm
- Two chest pockets with flap & snap button
- Pen slot on the left hand sleeve
- 2 side & 2 back patch pockets, with one ruler pocket on right leg side
- Self locking, 2 way nylon zipper front under placket
- Elasticated waist
- Available Colors: Navy Blue, Light Blue, Khaki



◀ Safety Plus World Platinum Cotton Coverall

Model No.: 1783PT

- Pre Shrunk 100% cotton 210 gsm
- Front closure with YKK zip and snap buttons
- Two Chest pockets with YKK zip and flap closure
- 2 back pockets with flaps and velcro closure
- 50mm reflective tape on the shoulders, sleeves and legs
- One ruler pocket on the right leg and tool pocket on the left leg
- Elasticated waist & flexi back for comfortable fit

PROTECTIVE CLOTHING

Safety Plus World Type 5/6 Chemical Disposable Coverall

Model No.: SP700CP

- Style: With hood, elastic wrist/ankle, Elasticated waist for optimum fit to body, zipper with flap over & adhesive tape
- Weight/gsm: 63 gsm
- Certified as per CE, Type5, Type6, EN1073, EN 14126, EN1149-5



Safety Plus World Disposable Coverall

Model No.: 81100

- 100% polypropylene
- With the hood and boot cover
- Single use coverall suit which offers light protection from dirt and grease
- Color: White

PROTECSAFE Fire Proximity Suits

- Outer shell: Nomex® IIIA
- Moisture Barrier: PTFE Membrane
- Thermal Barrier: FR Non woven (Nomex® / Kevlar) Quilted to face Cloth
- Jacket and Trousers manufactured with inherent flame retardant threads
- FR Zipper + FR Velcro + HR Buckles + HR Buttons
- Nomex® IIIA Extra Additional Layer of outer shell fabric is provided at the knee portion as the best reinforcement to enhance the life of the garment during kneeling or any such operation
- Size: S to XXXL (The size of Jacket and Trousers confirming to EN 13688:2013 harmonized)
- Color: Navy Blue, Red & Yellow



PROTECTIVE CLOTHING



◀ Radians Arctic Radwear® Cooling Vest

- Adjustable Waist • Zipper Closure
- Unique 3-Layer Fabric System
- Cools Body Temperature
- Safe and Reusable, Jobsite Proven
- Anti-Microbial treated to help prevent mold build-up and unwanted smells
- Heat stress safety management
- Sizing: S/M, L/XL, 2X/3X, 4X/5X



Radians ST31-2 Short Sleeve Cooling T-Shirt ▶

- Max-Dri™ Moisture Wicking Polyester Mesh with RadCool™ Technology
- 2" Heat Transfer, Segmented Reflective Tape. 1 Horizontal Stripe
- Pockets: 1 Upper Left Front
- Mesh Sideseam Insert • 25 Wash Max
- Standards: Meets ANSI/ISEA 107



◀ Radians Arctic Radwear® Cooling Wrap XT

- Secure around neck by pulling through slot opening
- Reusable Packaging Design
- Safe and Reusable, Jobsite Proven
- Anti-Microbial treated to help prevent mold build-up and unwanted smells
- Heat stress safety management
- Lasts up to 5 hours, depending on humidity levels
- 100% Polyester Microfiber
- Dimensions: 32.5" x 12"

Radians Arctic Radwear® Cooling Towel ▶

- Reusable Packaging Design
- Safe and Reusable, Jobsite Proven
- Anti-Microbial treated to help prevent mold build-up and unwanted smells
- Heat stress safety management
- Lasts up to 5 hours, depending on humidity levels
- Dimensions: 26" x 17"



◀ Radians Arctic Radwear® Headband

- Patent pending stretch-fit design allows for better blood circulation and comfort
- Safe and Reusable, Jobsite Proven
- Anti-Microbial treated to help prevent mold build-up and unwanted smells
- Heat stress safety management
- Lasts up to 5 hours, depending on humidity levels
- One size fits all • PATENT #D712094

PROTECTIVE CLOTHING

Radians Arctic Radwear® Head Shade ▶

- Patent pending stretch-fit design allows for better blood circulation and comfort
- Safe and Reusable, Jobsite Proven
- Anti-Microbial treated to help prevent mold build-up and unwanted smells
- Heat stress safety management
- Lasts up to 5 hours, depending on humidity levels
- One size fits all



◀ Radians Arctic Radwear® Hard Hat Cooling Sweatband

- Easy Installation • Soak in water for 2-3 Minutes
- Wave in the air for 10 to 15 seconds activating ADVANCED ARCTIC® material
- Reactivate your SWEATBAND in extreme heat or humid conditions by soaking again in water and twirling/waving in the air for 10 to 15 seconds
- Hand Wash Only, using Mild Detergent. Do NOT bleach
- Safe and reusable, Job-Site Proven
- Anti-microbial treated to help prevent mold build-up and unwanted smells
- Heat Stress Safety Management - Cools Body Temperature
- Lasts up to 5 hours, depending on humidity levels
- Hard hat and suspension sold separately



Crown Cooler with Neck Shade ▶

Model No.: 6521

- Protects the head and neck from dangerous heat and sun while on the job; easily attaches to hard hat liner (hard hat not incl.)
- Comfortable quilted Hi-Viz Lime polyester outer, TechCool™ fabric inner, water repellent nylon liner and black poly-cotton trim; elastic straps w/hook and loop attachments
- Provide 5-10 hours of cooling relief per soaking
- Colors: Lime, Blue & Orange



◀ Cooling Lockdown Reversible Headband

Model No.: 6520

- Cooler heads prevails in revitalizing lockdown reversible headband
- It drops to 30 degrees below average body temperatures when soaked with water, wrung out and snapped
- Sounds simple to activate because it is built for you to look good and feel better doing all-things-summer
- Colors: Black & Green



PROTECTIVE CLOTHING



Hi-Vis One Band & Brace Vest

Model No.: C472



Hi-Vis Two Band & Brace Vest

Model No.: C470

**High
Visiblity
Clothing**



Hi-Vis 7-in-1 Contrast Traffic Jacket

Model No.: S426



Hi-Vis Breathable Jacket

Model No.: RT60



Hi-Vis Executive 5-in-1 Jacket

Model No.: S768



Extreme Parka Jacket

Model No.: S590



Extreme Bomber Jacket

Model No.: S591



Hi-Vis Executive Jacket

Model No.: S475



Hi-Vis Two Band & Brace Jacket

Model No.: C473



Hi-Vis Breathable Traffic Jacket (Interactive)

Model No.: RT63

PROTECTIVE CLOTHING

High Visibility Clothing



Radians ST24-3 Class 3 High Visibility Safety T-Shirt with Rad-Shade® UV Protection

- 40+ UPF sun protection protects against harmful UV rays
- Max-Dri™ Moisture Wicking Mesh Technology.
- Segmented 2" Heat Transfer Reflective Tape 1 Horizontal Stripe
- Pockets: 1 Upper Left Front
- Materials: 100% Wicking Polyester Mesh
- 25 Wash Max
- Meets ANSI/ISEA 107 Standards



Radians ST31-3 Long Sleeve Cooling T-Shirt

- Max-Dri™ Moisture Wicking Polyester Mesh with RadCool™ Technology
- 2" Heat Transfer, Segmented Reflective Tape. 2 Horizontal Stripes on sleeves
- Pockets: 1 Upper Left Front
- Mesh Sideseam Insert
- 25 Wash Max
- Meets ANSI/ISEA 107 Standards

Radians ST11 Class 2 High Visibility Safety T-Shirt with Max-Dri™

- Max-Dri™ Moisture Wicking Mesh Technology
- 2" Heat Transfer Reflective Tape. 1 Horizontal Stripe
- Pockets: 1 Upper Left Front
- Materials: 100% Wicking Polyester Mesh
- 25 Wash Max
- Meets ANSI/ISEA 107 Standards



PROTECTIVE CLOTHING



High Visibility Clothing

▶ Radiant ST21 Class 3 Long Sleeve T-shirt with Max-Dri™

- Max-Dri™ Moisture Wicking Mesh Technology
- Durable 2" Heat Transfer Reflective Tape. 1 Horizontal Stripe on torso, 2 horizontal stripes on arms
- Pockets: 1 Upper Left Front
- Materials: 100% Polyester Birds-Eye Mesh
- 25 Wash Max
- Meets ANSI/ISEA 107 Standards

Radwear USA Original Breezelight™ II Class 2 T-Shirt ▶

- 100% performance polyester comfortable cool mesh
- High Performance material • High quality premium shirt
- Permachill permanent wicking • TDS antimicrobial finish
- Fabric certified to 75 washes
- Available with 3M 8712, 5510, 9720 or 5530 reflective material
- Made in USA • Custom Imprinting Available



▶ Radwear USA Ultra Breezelite™ II Sleeveless Safety T-Shirt

- Poly/spandex comfortable cool mesh
- High Performance material • High quality premium shirt
- Permachill permanent wicking • TDS antimicrobial finish
- Tagless neck for ultra comfort
- Fabric certified to 75 washes
- Custom Imprinting Available
- Available with 3M 5510 or 5530 reflective material

▶ Radwear USA Hydrowick Safety T-Shirt

- Feels like cotton
- 5.6 oz 100% polyester
- Lightweight and comfortable
- Available in ANSI Class 2 or Class 3
- Available with 3M 8712, 5510, 9720, or 5530 reflective material
- Custom Imprinting Available



FOOT PROTECTION



Safety Plus World Desert Gold S3SRC Shoes

Model No.: SP800FW

- Upper: Black Embossed Split Genuine Leather
- Outsole: Dual Density PU Sole for comfort & light weight
- Steel Toe Cap & Anti Penetration steel plate
- Slip resistance as per SRC standard
- Size: 39-47
- Conformity: EN ISO 20345:2011

Desert Gold Premium High Ankle Safety Shoes

Model No.: SP819PSH

- Upper: Smooth Genuine Leather
- Outsole: Dual Density PU Outsole
- Composite Toe Cap & Kevlar midsole
- Slip Resistance as per SRC Standards
- Conformity: EN:20345:2011



Bicap Sparrow Safety Shoes

Model No.: J 4678/2B K 4 S3 SRC

- Upper: waterproof printed leather
- Lining: Airnet Spacer
- Toe cap: Composite ITSAFE
- Midsole: no-metallic FLEX TEXTILE PLATE
- Sole: double density Polyurethane
- Fussbett: Top Basic
- Sizes: 36/47 • Made in Italy

Bicap Whale Safety Shoes

Model No.: PS 60730/7D K 4 S3 SRC

- Upper: breathable and waterproof high quality microfiber + reflective inserts + nylon + waterproof "PROAIR" air system and heel STABILITY SYSTEM
- Lining: Breathable with high steaming permeability
- Toe Cap: Composite
- Midsole: Anti-perforation textile '0 perforation'
- Sole: Polyurethane double density
- Sizes: 39/48 • Made in Italy



Bicap Tiger Safety Shoes

Model No.: J 40841/8D K 4 S3 SRC

- Upper: Waterproof PUTEKHYPERTEX technical textile + heel area made in waterproof microfiber
- Lining: Airnet Spacer collar and tongue in Cordura
- Toe cap: Composite ITSAFE
- Midsole: no-metallic FLEX TEXTILE PLATE
- Sole: double density Polyurethane
- Fussbett: Comfort Fresh
- Sizes: 36/47 • Made in Italy



FOOT PROTECTION

Bicap Kite Safety Shoes ▶

Model No.: J 4678/6B K 4 S3 SRC

- Upper: ECO-Sustainable fabric made with recycled post consumer polyester (100% recycled PET yarn)
- Lining: Airnet Spacer
- Toe Cap: Composite ITSAFE
- Midsole: no-metallic FLEX TEXTILE PLATE
- Sole: Polyurethane double density
- Fussbett: Top Basic
- Sizes: 36/47 • Made in Italy



◀ Safety Plus World Desert Gold S3SRC Shoes

Model No.: SP801FW

- Upper: Black Embossed Split Genuine Leather
- Outsole: Dual Density PU Sole for comfort & light weight
- Steel Toe Cap & Anti Penetration steel plate
- Slip resistance as per SRC standard
- Size: 39-47
- Conformity: EN ISO 20345:2011



Desert Gold Premium Low Ankle Safety Shoes ▶

Model No.: SP818PSL

- Upper: Smooth Genuine Leather
- Outsole: Dual Density PU Outsole
- Composite Toe Cap & Kevlar midsole
- Slip Resistance as per SRC Standards
- Conformity: EN:20345:2011



◀ Desert Gold Slip On Safety Shoes

Model No.: SP820PSO

- Upper: Smooth Genuine Leather
- Outsole: Dual Density PU Outsole
- Composite Toe Cap & Kevlar midsole
- Slip Resistance as per SRC Standards
- Conformity: EN:20345:2011



Bicap Dolphin Safety Shoes ▶

Model No.: PS 60731/7D K 4 S3 SRC

- Upper: Breathable and waterproof high quality microfiber + reflective inserts + nylon + waterproof "PROAIR" air system and heel STABILITY SYSTEM
- Lining: Breathable with high steaming permeability
- Toe Cap: Composite
- Midsole: Anti-perforation textile 'O perforation'
- Sole: Polyurethane double density
- Sizes: 39/48 • Made in Italy



FOOT PROTECTION



Bicap Raptor Safety Shoes

Model No.: J 40795/8D K 4 S3 SRC

- Upper: Waterproof PUTEKHYPERTEX technical textile + heel area made in waterproof microfiber
- Lining: Airnet Spacer
- Toe cap: Composite ITSAFE
- Midsole: no-metallic FLEX TEXTILE PLATE
- Sole: double density Polyurethane
- Fussbett: Comfort Fresh
- Sizes: 36/47 • Made in Italy

Bicap Eco Grey Safety Shoes

Model No.: J 40849/8D K 2 S1P SRC

- Upper: ECO-Sustainable fabric made with recycled post consumer polyester (100% recycled PET yarn)
- Lining: Airnet Spacer
- Toe Cap: Composite ITSAFE
- Midsole: Anti-perforation textile '0 perforation'
- Sole: Polyurethane double density
- Fussbett: Comfort Fresh
- Sizes: 39/46 • Made in Italy



Bicap Eagle Safety Shoes

Model No.: J 4677/6B K 4 S3 SRC

- Upper: Waterproof oiled nubuck + toe area made in anti-abrasion material
- Lining: Airnet Spacer
- Toe cap: Composite ITSAFE
- Midsole: no-metallic FLEX TEXTILE PLATE
- Sole: double density Polyurethane
- Fussbett: Top Basic
- Sizes: 36/47 • Made in Italy

Jallatte JALASKA SAS



Model No.: J0266

- Flat binding at top of quarters
- Heel stiffener to reinforce the heel seat
- Full-size inlay, removable, anti-bacterial treated, anatomical and comprising heel shock absorber. High capacity to absorb and desorb perspiration
- Forefoot lining, resistant to abrasion and perspiration acids
- Perforated steel toe-cap (patented) – 200 J
- Puncture-resistant stainless steel midsole
- Conformity: S3 SRC EN ISO 20345:2011



FALL PROTECTION



Safety Plus World CE Harness with back support

Model No.: SP706HNBCE

Two Pcs Chest attachment D Ring with adjustable Shoulder strap, One dorsal attachment D Ring of stamping alloy steel for Fall Arrest and back waist Support

Safety Plus World CE Lanyard

Model No.: SP707LYSCE

Webbing Material polyamide shock absorber one Karabiner, One scaffold Hook Y Lanyard 1.8m



Safety Plus World CE Harness

Model No.: SP704HNCE

Two Pcs Chest attachment D Ring with adjustable Shoulder strap, One dorsal attachment D Ring of stamping alloy steel for Fall Arrest

Safety Plus World CE Lanyard

Model No.: SP705LYDCE

Webbing Material polyamide shock absorber one Karabiner, two scaffold Hook Y Lanyard 1.8m



FALL PROTECTION

Coil Tool Tethers with Swivel



Model No.: CC2072-2

- 360° Swivels to prevent entanglement and increase longevity of the tether
- Solid coil (CC2072-OR) offers superior coil memory compared to other wired coil tethers
- Models CC2072-OR & CC348-WR-OR (Patented Swivel) has a protected label identifying rating, instructions, date of mfg and traceability number
- Available in two coil styles- with or without a steel core
- Up to 10 lb tool rating
- EZ Clean Material



Coil Tool Tether

Model No.: CC1656WRSG

- 360° heavy duty swivels to prevent entanglement and increase longevity of the tether
- Each tether has a protected label identifying rating, instructions, date of mfg and traceability
- EZ Clean Material
- 4' Coil Extension
- Patent Pending
- Meets ANSI/ISEA 121-2018
- Wired Coil Extension (4') Tool Tether 5 lb rating with swivels and screw gate carabiner



Tool Lanyard

Model No.: 10726

- Helps reduce falling object related injuries
- Securely attach tools to wrist or tool belt
- Provides ease & versatility

Bungee Tether

Model No.: 10736

- Durable nylon sheath with internal bungee cord
- Locking carabiner
- 15 lb. Weight Capacity
- Max. Tool Weight: 15 lbs.



Heavy Duty Tool Tethers

Model No.: L48WR10SSG

- Wire Tool Tether with Screw Gate Carabiner

FALL PROTECTION



ATOM-X Web SRL

Model No.: ATOM-X

- Top Connector: 11mm Alloy twist lock karabiner approved to EN362 rated to 25kN (supplied as standard)
- Bottom Connector: ANSI rated snap/scaffold hook
- Webbing: Made with Dyneema®; 22mm - minimum breaking load 22kN
- Capacity: 1.8 metres (6ft)



FABX SRL

Model No.: FABX2-18C

- Galvanised Steel Wire Rope 4.8mm dia. 19 x 7 minimum breaking load 15kN
- Stainless Steel Wire Rope 5mm dia. 19 x 7 minimum breaking load 15kN
- Webbing Webbing made with Dyneema®; 20.5mm x 1.4mm minimum breaking load: 22kN
- Fibre Rope Fibre rope made with Dyneema®; 5mm dia. minimum breaking load: 27kN



FABX Recovery SRL

Model No.: FABXR-15CS

- Capacity Up to 18 m (60ft) [NB Stainless Steel option is 15m (50ft)]
- Galvanized Wire Rope [FABX2R C] 3/16" (4.8mm) diameter
- Stainless steel wire rope [FABX2R CS] 13/64" (5mm) diameter
- Fibre rope [FABX2R F] Made with Dyneema®; 13/64" (5mm) diameter



FABX Large Recovery SRL

Model No.: FABXLR-30C

- Capacity: Stainless steel max 35m (115ft), Galvanised Steel max 40m (130ft), Fibre rope made with Dyneema®; max 40m (130ft)
- Galvanized Wire Rope 3/16" (4.8mm) diameter
- Fibre rope 13/64" (5mm) diameter
- Stainless Steel Wire Rope (FABXLR CS) 3/16" (4.8mm) diameter



Single Point Harness

Model No.: PBH01

- 100% Polyester Webbing
- Trapezoidal Buckles
- Dorsal Fall Arrest Attachment
- Back Support



Two Point Harness

Model No.: PBH02

- 100% Polyester Webbing
- Sternum Fall Arrest Attachment
- Trapezoidal Buckles
- Dorsal Fall Arrest Attachment



Series 3 Harness

Model No.: 37100

- Assembled in USA
- Water-repellant, contrasting core webbing
- Snap-on shoulder padding
- Ergonomic waist belt optional



Series 1 Harness

Model No.: 37000

- Assembled in USA
- Water-repellant, contrasting core webbing
- Dual lanyard keepers and rubber web keepers
- Five points of adjustment

FALL PROTECTION

Internal Shock Lanyard - Pro Absorber



Model No.: PAL1.75B

- Average Arresting Force: Kinetic webbing progressively absorbs energy keeping forces below 6kN (Typically 3.5kN)
- Maximum Length: 2 metres
- Maximum Arresting Force: = 6.0kN
- Webbing Strength: 22kN- minimum breaking load



External Shock Stretch Lanyard

Model No.: SAL2CE

- User Length: 2.0 Metres
- Max User Weight: 100kg Including tools and equipment
- Maximum Arresting Force: 6.0kN
- Average Arresting Force: 4.0kN



External Shock Lanyard

Model No.: 01220

- 1" Nylon web
- Clear shock pack for easy inspection
- 3,600 lb. connector gate



4-in-1 Lanyard

Model No.: 11520

- Allows for 100% tie-off
- Lightweight and durable



External Shock Lanyard Double Leg 6' Steel Snap Hook

Model No.: 01230

- 1" Nylon web
- Clear shock pack for easy inspection
- 3,600 lb. connector gate

FALL PROTECTION



Quick-Switch Rotating Dock

Model No.: BRKTPCHDK-R

- No more dangling tool tethers
- Reduced impact force in a drop
- Hands-free tool switching
- Tapered for easy alignment
- 360-degree rotation
- Reduced swing and snag hazard
- Maximum tool weight 2.7kg (6lb)



Quick-Switch Docking Station

Model No.: QSDOCK

- Quick-Switch® Dock (Package of 2)
- Patent No. 9,351,558
- Meets ANSI/ISEA 121-2018



Quick-Switch Bungee Tether

Model No.: QSBNGEXT

- Internal bungee cord with nylon outer sheathing
- QS Key installed on one end to negate need for QS wrist cuff
- Made for the Quick Switch product line
- Quickly attaches to waist belts using the carabiner
- Carabiner attaches to D-Ring Attachments or factory attachment points
- Connect to fixed anchor points with ease
- Meets ANSI/ISEA 121-2018



Quick Switch Retracting Tether with Key on End

Model No.: RET648RPQS



GUARDIAN®

Quick-Switch Starter Kit

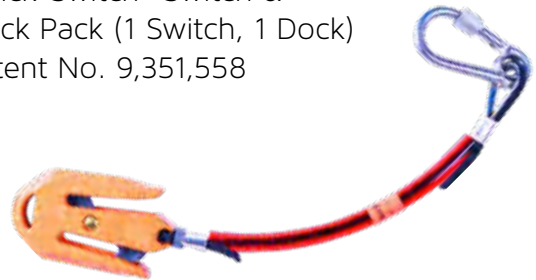
Model No.: QSSTRTKT



Quick Switch Tool Lanyard System 1 Docking Station & 1 Switch

Model No.: QSS

- Quick-Switch® Switch & Dock Pack (1 Switch, 1 Dock)
- Patent No. 9,351,558



Quick Switch Wrist Strap Cinch Style

Model No.: QSWSCNCH



FALL PROTECTION

Permanent Horizontal Systems ▶



Respiratory Protection Reimagined

Checkline II is the second generation system retaining the core features of CheckLine but with a series of technically advanced performance improvements and installation aids.

- Whether working on exposed roof edges, catwalks, servicing roller coasters or maintaining cranes, Checkline II adapts to ensure you are always kept safe
- Our systems are placed in challenging environments all over the world
- The posts have patented rubber damper technology which allows installers to fix directly to the top layer of most roofing panels. Our posts don't "topple" they progressively absorb and thus do not increase the energy input but more affectively dampen the input load
- If through fixing is required, we have an unlimited range of brackets, adaptors, weather seals, thermal foam filled posts and fasteners to suit all roof types

Checkball ▶

Attachment Devices

The ultra compact CLB CheckLine Ball Trolleys have a unique stainless steel ball bearing design with a swivel handle allowing the device to be pulled as close to the centre line of the cable as possible. This stops the device from twisting and ensures it passes intermediates smoothly



Checktrolley

Overhead Attachment Device

CheckTrolley overhead attachment device is a unique formula of synthetics, stainless steel & low friction roller bearings. The triple-wheeled device can pass directly over intermediate brackets & travel freely around 90° corners whilst connected to large and heavy devices. This gives a truly 2 dimensional system.

Checkline Posts & Plates ▶



NEW ultrafix PPESLL-411



ultrafix with Toggles PPESLL-537



NEW ultrafix with Rivets



NEW ultrafix with S-5-Z Mini Clamps



Green Roof Riser Post



Single Point Anchor

FALL PROTECTION



Checkline mpb

Multi-purpose Bracket



Checkline mpc

Modular, Innovative and Revolutionary the MPC can adapt to suit almost any turn, deviation or incline.



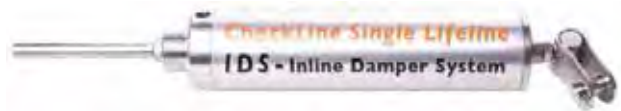
Checkline epa

TopFix End Post



Checkline epa

InLine End Bracket



Checkline ids

Inline Damper System



Checkline Cop

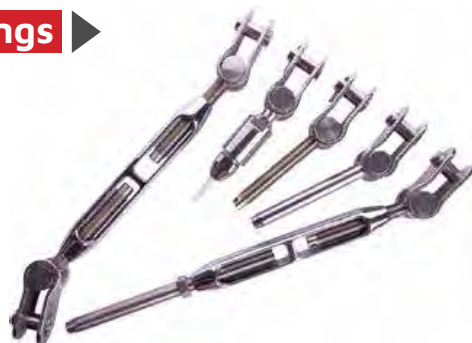
Cross Over Post

Checkline lcd

Load Control Device



Fittings



End Terminations



Standing Seam Clamp

FOREIGN MATERIAL EXCLUSION

FME Zone Tape

Model No.: BT1KS

- 3" x 1000', 3mil
- Markers every foot for tracking
- Easy to install & remove
- Deters loitering
- Warns workers that an FME Zone is present
- BT1K-S is orange with white stripes
- Available in Orange



FME Vinyl Magnetic Sheet

Model No.: MAGSHT2436

- Easily cut to any size
- Orange comes with black text
- Red/Pink comes with white text
- Custom print available
- Small sections of sheet can also be used in signs
- When custom manufactured covers just aren't fast enough, these vinyl magnets provide an instant solution; just cut and stick
- Used in: Diesel generators, Manway openings, Breaker Openings, Turbine maintenance and more...



FME Covers

Model No.: CBFR SERIES

- Round bottom for custom fit
- Adjustable drawstring with metal-free cord lock
- NFPA-701 fire retardant
- Water repellent



Basic FME Cabinets

- Contains a variety of the most common FME products
- Each model specifically tailored for the most common setups
- A popular option for new FME programs
- Contents available on request
- Available Colors: Orange, Red, Pink & Green



Part No.	Description	Dimensions
Basic	Standard Basic FME Cabinet	36"W x 24"D x 78"H
Basic-T	Basic Cabinet Training Setup	36"W x 24"D x 78"H
Basic-WH	Basic Cabinet Warehouse Setup	36"W x 24"D x 78"H

FOREIGN MATERIAL EXCLUSION



Auxiliary FME Cabinets

- Contains a variety of the most common FME products
- Each model specifically tailored for the most common setups
- A popular option for new FME programs
- Rolling casters for mobility
- Contents available on request
- Available Colors: Orange, Red, Pink & Green

Part No.	Description	Dimensions
AUX-1	Auxiliary Cabinet Configuration 1	36"W x 24"D x 42"H
AUX-2	Auxiliary Cabinet Configuration 2	36"W x 24"D x 42"H
AUX-T	Auxiliary Cabinet Training Setup	36"W x 24"D x 42"H
AUX-XL	Extra Width Auxiliary Cabinet	48"W x 24"D x 42"H
AUX-XL-T	Extra Width Auxiliary Cabinet Training Setup	48"W x 24"D x 42"H



Supreme FME Cabinets

- Stocked with a massive number of FME Products
- Fork-lift pockets for transportation
- Great for high traffic FME zones
- Contents available on request
- Available Colors: Orange, Red, Pink & Green



Part No.	Description	Dimensions
SUPREME	Standard Supreme FME Cabinet	60"W x 36"D x 78"H
SUPREME-NPT	Supreme Cabinet NPT Setup	60"W x 36"D x 78"H
SUPREME-MAX	Supreme w/Expanded Contents	60"W x 36"D x 78"H
SUPREME-MAX-NPT	Supreme NPT w/Expanded Contents	60"W x 36"D x 78"H
SUPREME-FLG	Supreme Cabinet Flange Setup	64"W x 38"D x 78"H
SUPREME-REF	Supreme Cabinet Refinery Setup	60"W x 36"D x 78"H

Part No.	Description	Dimensions
EXTREME	Standard Extreme Cabinet	52"W x 30"D x 78"H

WEATHER METERS & WINDSOCKS

Kestrel® Wind Meter ▶ Kestrel®

Model No.: 1000

Here's the one that started it all! Measuring wind is a breeze with the Kestrel 1000. We developed the Kestrel 1000 Pocket Wind Meter in 1995 when NK's co-founder, Richard Kellerman, needed a reliable wind meter for flying his glider. The Kestrel 1000 can easily be switched between mph, km/h, ft/min, m/s, knots and Beaufort.

- Wind Speed
- 3-Button Control
- CR2032 Coin Cell Battery (Average Life 300 Hours)
- Data Hold Function
- Easy-To-Read Display
- Drop-Tested, MIL-STD-810G
- Neck Lanyard
- Patented Impeller and Sensor Technology
- Slip-On Protective Cover
- User-Replaceable Batteries
- User-Replaceable Impeller
- Waterproof & Floats



◀ Kestrel Pocket Wind Meter

Model No.: 2000

For those of you who like to know just how cold and windy it really is, the Kestrel 2000 Pocket Wind Meter is your reality check. Winter sports enthusiasts around the world love Kestrel Meters.

- Temperature
- Wind Chill
- Wind Speed
- Backlight
- CR2032 Coin Cell Battery (Average Life 300 Hours)
- Data Hold Function
- Drop-Tested, MIL-STD-810G
- Easy-To-Read Display
- IP67 Waterproof
- Minimum and Maximum Values
- Neck Lanyard
- Patented Impeller and Sensor Technology
- Slip-On Protective Cover
- User-Replaceable Batteries
- User-Replaceable Impeller
- Waterproof & Floats

WEATHER METERS & WINDSOCKS

Kestrel Pocket Weather Meter ►



Model No.: 3000

The Kestrel 3000 keeps you from working past your limits. From the Kestrel 3000's accurate relative humidity readings, it also calculates the dewpoint and heat stress index—important information to know when working or playing outdoors in hot and humid conditions.

- Dew Point
- Heat Stress Index
- Relative Humidity
- Temperature
- Wind Chill
- Wind Speed
- 3-Button Control
- Backlight
- Easy-To-Read Display
- Neck Lanyard
- CR2032 Coin Cell Battery (Average Life 300 Hours)
- Data Hold Function
- Drop-Tested, MIL-STD-810G
- Patented Impeller and Sensor Technology
- Slip-On Protective Cover
- Time of Day
- User-Replaceable Batteries
- User-Replaceable Impeller
- Waterproof & Floats



◀ Kestrel Delta-T Pocket Weather Meter

Model No.: 3500

It is critical to measure relative humidity, wind speed and wind direction in order to minimize waste and maximize safety when spraying.

- Altitude
- Barometric Pressure
- Delta T
- Dew Point
- Heat Stress Index
- Relative Humidity
- Temperature
- Wet Bulb Temperature (Psychometric)
- Wind Chill
- Wind Speed

WEATHER METERS & WINDSOCKS

Kestrel Environmental Meter ►



Model No.: 5000

The Kestrel 5000 Environmental Meter is a remarkably powerful measuring and data logging tool, yet remarkably compact. The Kestrel 5000 provides the same trusted accuracy, reliability, and usability as the original Kestrel 4000. Use it for research, safety, expeditions, agriculture and any other profession or activity where accurate on-the-spot conditions monitoring is the key.

Kestrel 5000 Environmental Meter Overview

- Used in firefighting, agriculture, hazardous materials response, meteorology, military, law enforcement, research, education, scientific & mountaineering expeditions & more
- Handheld, portable environmental meter with onboard data logging and graphing
- Measures wind speed / air speed, temperature, humidity and pressure and displays over 10 total environmental parameters on large, hi-res, hi-contrast, graphic display
- Optional Link connectivity powered by Bluetooth® low energy provides wireless communication to mobile devices and computers
- Rugged (drop tested to MIL-STD-810G standards), waterproof (sealed to IP67 standards)
- Protective pouch, neck lanyard & Lithium AA battery included
- 5-year warranty



◀ Kestrel Professional Environmental Meter

Model No.: 5200

Kestrel 5200 provides the same trusted accuracy, reliability, and usability as the original Kestrel 4200 and 4300. With its complete suite of environmental measurements plus special features designed to aid HVAC technicians, construction and agriculture professionals, the Kestrel 5200 outperforms the competition as the most compact and complete environmental meter & data logger for all professional uses. Kestrel 5200 Professional Environmental Meter Overview

- Measures evaporation rate, air velocity, air flow, air density, relative air density, delta T, and much more. 17 measurements in all!
- Large, hi-res, hi-contrast, graphic display is perfectly readable in the brightest sunlight and is backlit for use in low-light conditions
- Handheld, portable, data logger with on-screen graphing and measurement statistics
- Optional Link connectivity powered by Bluetooth® low energy provides wireless communication to mobile devices and computers
- Rugged (drop tested to MIL-STD-810G standards), waterproof (sealed to IP67 standards)
- Protective pouch, neck lanyard & Lithium AA battery included
- 5-year warranty



WEATHER METERS & WINDSOCKS

Kestrel Weather Meter ►

Model No.: 5500

The Kestrel 5500 provides the same trusted accuracy, reliability, and usability as the original Kestrel 4500. Measure every environmental condition plus wind direction, crosswind and headwind/tailwind. Use it golfing, sailing, flying, spraying, shooting and more. Drop-proof, dust-proof, waterproof and able to withstand extreme environments without damage, your Kestrel weather meter travels with you anywhere you dare to go. A range of carry pouch options makes it even easier to take your Kestrel meter with you.



◀ ISU Anemometer

Model No.: ISUWMT

- Measures 7 parameters: Air Velocity, Compass, Temperature, Humidity, Windchill, Wet Bulb & Dew Point
- 6 wind units selectable: KNT (knot), BF (beaufort), FPM (feet per minute), MPH (mile per hour), MPS (meter per second), KPH (kilometer per hour)
- Delta T to show the temp. difference between ambient air & dew point temp.
- To calculate cross wind & head / tail wind
- Self maintained compass calibration procedure

Windsocks ►

Windsocks are high-visibility indicators of wind direction and speed. We have a variety of sizes available suitable for industrial applications and aviation. All windsocks are made from high-quality international orange PVC over nylon, which is incredibly durable and stays colorfast longer than other materials.

Available Sizes: 10 & 18 Inch



GAS DETECTION

SENKO



Sensors
O2/ CO/ H2S/ H2/ SO2/ NH3/ NO2

Senko Disposable Single-Gas Detector

Model No.: SGT

- Sensor Type: Electrochemical
- Measurement: Diffusion type
- Display: LCD display
- Audible: 90dB at 10cm
- Warning Lamp: Red Flashing LEDs (Light-Emitting Diode)
- Vibration: Vibration Alarm
- Battery: Manufacture: Vitzrocell P/N: SB-AA02(P) / System: Lithium Primary Battery, Nominal voltage: 3.6V / Nominal capacity: 1.2Ah
- Temperature: -40°C ~ +50°C (for Toxic) / -35°C ~ +50°C (for O2),
- Humidity: 5%~95% RH (Non-condensing)
- Accessories: Calibration Cap, Manual, Calibration and Quality report
- Option: External Sampling Pump (SP-Pump 101), SENKO-IR Link, Docking Station
- Weight: 104g (O2) (Battery, clip included)
- Operating Life: 24 months, based on 2 minutes of alarm per day
- Event Log: Recent 30 alarms
- Approval
ATEX II 1 G Ex ia IIC T4 Ga
CSA Class 1, Zone 0, ex ia IIC T4 Ga
IECEX Ex ia IIC T4 Ga
INMETRO Ex ia IIC T4 Ga

Senko Replaceable Single-Gas Detector

Model No.: SGT-P

- Sensor Type: Electrochemical
- Measurement: Diffusion type
- Display: LCD display
- Audible: 90dB at 10cm
- Warning Lamp: Red Flashing LEDs (Light-Emitting Diode)
- Vibration: Vibration Alarm
- Battery: Manufacture: Vitzrocell P/N: SB-AA02(P) / System: Lithium Primary Battery, Nominal voltage: 3.6V / Nominal capacity: 1.2Ah
- Temperature: -40°C ~ +50°C(for Toxic) / -35°C ~ +50°C (for O2)
- Humidity: 5% ~ 95% RH (non-condensing)
- Accessories: Calibration Cap, Manual, Calibration & Quality report
- Option: External Sampling Pump (SP-Pump101), SENKO-IR Link, Docking Station
- Weight: 93g(Toxic), 104g(O2) (Battery, clip included)
- Operating Life: 24 months, based on 2 minutes of alarm per day
- Event Log: Recent 30 alarms
- Approval
ATEX II 1 G Ex ia IIC T4 Ga
IECEX Ex ia IIC T4 Ga
INMETRO Ex ia IIC T4 Ga



Sensors
O2/ CO/ H2S/ H2/ SO2/ NH3/ NO2

GAS DETECTION

Senko Portable Multi-Gas Detector

Model No.: MGT

- Self Test: Full function self-test upon activation Sensors, battery and circuitry - continuous
- Detecting Method: Diffusion
- Display: LCD Display (back-light)
- Alarm: LED flashing, Sound, Vibration
- Sensors: O₂, CO and H₂S: Electrochemical, Combustible (LEL): IR or Pellistor
- Battery: Rechargeable Li-ion power supply unit (2000mAh)
- IP: 67
- Temperature: -20°C ~ +50°C
- Humidity: 5~95% RH(Non-condensing)
- Charge Time: 4-6 hours
- Battery Life: IR: 60 days continuous / Pellistor: 25 hours continuous
- Low Battery Alarm: 20 minutes / 10 minutes / 5 minutes expired: 5 long beeps/flashes and then Off is displayed
- Weight: 240g
- Warranty 2 years
- Optional Accessory: MGT-IR Link, Docking Station, SP-Pump 101
- Approval
ATEX II 1 G Ex ia IIC T4 Ga
CSA Class 1, Zone 0, ex ia IIC T4 Ga
IECEx Ex ia IIC T4 Ga



Sensors
O₂/ CO/ H₂S/ CH₄

UNI 321RT

3 & 2 Year Maintenance-Free Single Gas Detector

- Real-time Readings
- Hibernation Mode up to 1 year for 2 years detectors
- Weight: 4.4 oz. & size: 3.46 x 2.44 x 1.30 in
- Gases: 2 Selections (H₂S & CO)
- Display: Large LCD • Protection: IP 67
- Battery: Replaceable (3.6V, 2700mAh, AA Lithium)
- Event log: Up to 50 alarm events with IR Reader
- Docking Station for calibration and event download
- Manufactured by mPower Electronics - Santa Clara CA USA
- Made in China

Safety Certifications:

- Class I, Div 1, Group ABCD
- UL Class II, Div 1, Group EFG
- Class III, Div 1
- IECEx T4, -20°C ≤ Tamb ≤ +50°C
- Ex ia IIC T4
- II 1G Ex ia IIC T4
- CE European Conformity



GAS DETECTION

UNI MP100 ►

Reusable Single Gas Detector

- Real-time Readings
- Weight: 4.4 oz.
- Widest choice of sensors in the market
- Smart Sensor
- Size: 3.46 x 2.44 x 1.30 in
- Gases: 20 Selections (H₂S, CO, O₂, NH₃, Cl₂, ClO₂, H₂, HCl, HF, HCN, NO, NO₂, O₃, PH₃, SO₂, C₂H₄O, ETO, CH₃SH, THT)
- Display: Large LCD
- Battery: Replaceable, AA size Lithium battery, 3 years typical operation
- Event Log: Up to 50 alarm events
- Low, High, TWA & STEL Alarms
- Protection: IP 67
- Docking Station for calibration and event download
- Warranty:
2 years on O₂, CO, H₂S, SO₂, HCN, NO, NO₂, and PH₃ units including sensor; 1 year on others
- Manufactured by mPower Electronics - Santa Clara CA USA
- Made in China



◀ MP400/MP400P/MP400S

POLI Multi-Gas Detector

The POLI MP400 Series Multi-Gas Detector can sample by diffusion or built-in pump and offers 4- or 5-gas monitoring of oxygen (O₂), combustibles (LEL), toxic gases, carbon dioxide (CO₂), and volatile organic compounds (VOCs). It allows a full selection of sensors, i.e., electrochemical (EC), pellistor, non-dispersive infrared (NDIR) and photo-ionization detector (PID). The MP400S and MP400H add wireless communication in squads of up to 8 to enable real-time remote monitoring of alarm status including Man-Down Alarm for extra safety. The MP400H Head samples by diffusion only. Wireless transmission is provided at no subscription fee.

- Available in diffusion or pump version
- Man Down Alarm with real-time remote wireless notification
- IP-65/67 water and dust resistant case
- Real-time gas concentration readings and alarm status enabled by state-of-the-art wireless technology
- Large graphical display icon-driven user interface through intuitive, simple-to-operate two-button user interface
- Easy access to pump, sensor, filter and battery
- Over 30 interchangeable sensor options, including PID for VOC, NDIR and catalytic for combustibles, and NDIR for CO₂
- Intelligent sensors store calibration data, so they can be swapped in the field
- Warranty: 2 years including most sensors
- Manufactured by mPower Electronics - Santa Clara CA USA
- Made in China



Safety Certifications:

- Class I, Div 1, Group ABCD
- T4, -20°C ≤ Tamb ≤ +50°C
- Ex ia IIC T4 Ga
- II 1G Ex ia IIC T4 Ga
- European Conformity

EXPLOSION PROOF PRODUCTS

Realix RFE1.1 Mobile Phone



The RFE1.1 IS mobile especially designed to work in a potentially explosive area and the waterproof feature, It's a powerful mobile phone for Zone 1/21 with Android operating system, 4G LTE, Wi-Fi, LED-torch, amplified loudspeaker and SOS-key.

- Available with 2MP (megapixel) rear camera or without camera
- Processor MTK6739 (1.5GHz) quad core
- Android 8.0 with touchscreen and keypad / 2.4" Screen
- Internal memory 8GB ROM and 1GB RAM
- 2800 mAh Lithium-ion battery
- Certification
ATEX Zone 1 / 21
II 2G Ex ib IIC T4 Gb IP68
II 2D Ex ib IIIC T135°C Db IP68
Ta: -20°C +60°C



Realix RxIS201 IS Mobile

The RxIS201 IS mobile especially designed to work in a potentially explosive area and the waterproof feature, It's a powerful mobile phone for Zone 1/21 with Android operating system, 4G LTE, Wi-Fi, SOS-key.

- Android 9.0 / 6" Screen
- Processor - MTK6763 (2.5GHz) Octa core
- Internal memory 128GB ROM and 6GB RAM
- 13MP rear camera & 5MP front camera
- 8000 mAh Lithium-Ion Battery
- Certification
ATEX
II 2G Ex ib IIC T4 Gb IP68
II 2D Ex ib IIIC T135°C Db IP68
Ta: -20°C +60°C

EXPLOSION PROOF PRODUCTS

Realix RxAltitude IS Tablet

RxAltitude, an IS Tablet especially built to be used in hazardous areas. With special focus given to ease of use while making it fully functional under most challenging environment providing maximum safety in the field.

- Available with 13MP Rear camera with autofocus & a flashlight, 5MP Front camera
- Processor MSM8953 (2.0GHz) Octa core
- Android 10
- Internal memory 64GB ROM & 4GB RAM,
- 8500mAh Lithiumion battery
- Certification
ATEX
II 2G Ex ib IIC T4 Gb IP68
II 2D Ex ib IIIC T135°C Db IP68
Ta: -20°C +60°C



Ex-Shield Explosion Proof Mobile Phone

Model No.: EX-Z1SP

- Intrinsically Safe: ATEX ZONE 1/21
- Water & Dust Resistance: IP68
- Battery Capacity: 8580 mAh
- OS: Android 10.0
- RAM/ROM: 4GB/64GB
- Camera: 16.0MP
- Certification
ATEX:
II 2G Ex ib IIC T4 Gb IP68
II 2D Ex ib IIIC T135°C Db IP68
Ta: -20°C +60°C



EX SHIELD

TWIG Neo

TWIG Neo is a wearable personal alarm device designed to adapt for various lone worker and personal safety needs. Multiple wearing options, scalability and small size make it ideal e.g. for laboratory, maintenance and health care staff. Even if very small, TWIG Neo provides all essential lone worker protection functions and it can be easily integrated with various monitoring systems.

- Lone worker protection functions
- Effective communication in emergency
- Sustainable product life-cycle
- Hybrid indoor / outdoor location
- Small and Scalable
- Remote Device Management

twig™



EMERGENCY & FIRST AID

Radians Eyewash Station

Model No.: REW01116

To effectively and quickly clean debris from the eye, the Radians® 16 gallon REW01116 gravity fed Eyewash Station has a one second, one-step activation to deliver up to 15 minutes of non-injurious flow. It complies with ANSI Z358.1-2014 standards for portable eyewash stations.

- Wall mounted 16 gallon gravity fed eyewash station
- Quick one-step activation for instantaneous flow
- Delivers at least 15 minutes of non-injurious flow
- High visibility green color is easily recognizable if an injury occurs
- Includes an easy-to-mount wall bracket, portable water preservative, test log card and drainage hose
- Meets ANSI Z358.1 standard



RESCUE SAM Automated External Defibrillator (AED)

Model No.: RESCUE SAM

RESCUE SAM is a semi-automatic external defibrillator designed for providing simple and direct voice prompts and indications for a straightforward rescue operation. It is lightweight and battery powered for maximum portability. RESCUE SAM is designed to treat Ventricular Fibrillation (VF) and Fast Ventricular Tachycardia (VT).



Sherlock Leak Detector

Sherlock Leak Detectors are neutral solutions formulated for leak-testing lines, cylinders and tanks carrying pure oxygen.

- Sherlock Leak Detector Type 1 is used widely for testing fuel tanks, pneumatic systems - in fact any product or system that can be leak-tested with air or gas pressure
- For use from +35 degrees Fahrenheit to +160 degrees Fahrenheit
- Sherlock Leak Detector Type 1 contains no oil, grease or any other ingredient that could combine with pure oxygen to form either a flammable or explosive mixture



EMERGENCY & FIRST AID



First Aid Kits ►

- General Purpose First Aid Kits, Plastic - Designed for everyday use.
- Easy to carry handle or wall-mountable for quick access in an emergency.
- These plastic kits are waterproof and portable.
- Good for Offices, Showrooms, Kitchens, Homes, Workshops, Transport Vehicles, etc.
- Available in different size as 10, 25 and 50 persons



◀ Drill Pipe Handling Tool D Grip Handle

Model No.: ISU-DRP-15M

- Heavy duty insulated Handle
- D grip handle
- Length: 1300mm, 1500mm
- Push test - 1650N / Pull test - 2800N
- Drill Pipe Handling tool is an insulated safety tool, it is made of Heavy duty insulated Fiberglass Yellow handle and D grip handles. The handle has a reflective strip, which can be clearly seen when working at night. U shaped attachment for forward facing and one rear facing (Push and Pull)
- Fitted with hand protector and durable Foam/rubber hand grip. ISU handling tools providing excellent load control of up to 5 1/2-inch pipes
- It can also be used for the safe handling of bulk hoses and the installation and removal of BOP service lines



General Cargo Handling Tool D Grip Handle ►

Model No.: ISU-CHT-15M

- Heavy duty insulated Handle
- D grip handle
- Length: 1300mm, 1500mm
- Push test - 1650N / Pull test - 2800N
- Cargo Handling tool is an insulated safety tool, it is made of Heavy duty insulated Fiberglass Yellow handle and D grip handles Used by deck crews to help with the positioning of various deck of various containers and baskets etc. V shaped attachment allows a suspended load to be stabilized by exerting a pushing action



EMERGENCY & FIRST AID



Drill Pipe Set Back Tool

Model No.: ISU-DST-15M

- Heavy duty insulated Handle
- Length: 1200mm, 1500mm
- Push test - 1650N / Pull test - 2800N
- Drill pipe set back is an insulated safety tool, it is made of Heavy duty insulated Fiberglass Yellow handle. The handle has a reflective strip, which can be clearly seen when working at night. U shaped attachment for forward facing and one rear facing (Push and Pull). It can safely handle the drill pipe and place it in the backward area, providing maximum protection
- Fitted with hand protector and durable Foam/ rubber hand grip. ISU handling tools providing excellent load control of up to 5 1/2-inch pipes
- It can also be used for the safe handling of bulk hoses and the installation and removal of BOP service lines

Drill Pipe Casing Tool I Grip Handle

Model No.: ISU-DCT-15M

- Heavy duty insulated Handle
- Length: 1200mm, 1500mm
- D grip handle
- Push test - 1650N / Pull test - 2800N
- Drill pipe casing tool is an insulated safety tool, it is made of Heavy duty insulated Fiberglass Yellow handle. The handle has a reflective strip, which can be clearly seen when working at night. The movement of large single pipes or bundles of drill pipe can be handled in better way



Finger Shield Finger Safety Tool

The Finger Shields are designed to hold / support large spanners / wrench in place during the removal of bolts and nuts.

Model No. / Size / Diameter / Weight

ISU-FS-850 / 850mm / 33.5mm / 680 grams

ISU-FS-375 / 375mm / 33.5mm / 230 grams

ISU-FS-295 / 295mm / 33.5mm / 194 grams

Material

- Body: High-impact Poly Propylene
- Internal Strap: Nitrile (Black) / Poly Propylene webbing (Black)



THERMAL IMAGING CAMERA



Bullard Thermal Imaging Camera

The XT Series, featuring the NFPA 1801-2018 Certified NXT and the QXT, is equipped with Bullard's X Factor image clarity technology and the industry's longest battery run time of more than eight hours of continuous use. The NXT and QXT are designed not only for long-lasting service on the front line but also the low total cost of ownership in the back office. They are purpose-built for today's fire service and offer firefighters the following features:

- Longest battery run time
- Best image quality
- Most desired form factor
- First wireless charging systems
- Most proven durability
- Industry's only five-year imager and battery warranty

Model No.: EcoX

EcoX is the economical solution for budget constrained departments to put more Bullard Tough thermal imagers in the hands of firefighters.



Model No.: LDX

LDX is a sleek, compact thermal imager enhanced with the newest infrared engine technology and image processing techniques with a price that accommodates any budget.



Model No.: T3X

Bullard's T3X is a handheld favorite thermal imager equipped with the latest X Factor engine technology and image processing techniques.



Model No.: T4X

The T4X combines advanced features and the industry's largest widescreen display with the newest state-of-the-art infrared engine technology for the ultimate in thermal imaging performance.



LOCKOUT / TAGOUT

Safety Padlock ▶

Model No.: SP-G01~SP-G08

- Color: Red, Yellow, Blue, Green, Black, White, Orange and Purple
- Material: Steel & Nylon PA
- Shackle height: 38mm
- Shackle diameter: 6mm
- Weight: 105g



Steel Hasp Lockout ▶

Model No.: SP-K01

- Color: Red/ Metallic color
- Material: Steel + Nylon PA
- Special Note: Galvanized rustproof Surface, if custom made stainless steel material, the model behind plus "S"
- Size: 40 x 11 x 115
- Weight: 99.4g
- Description: Lock shackle 25mm (1")

Customised Lockout Tagout & Special Pen ▶

- Material: PVC, no-easy tear paper, stainless steel sheet and so on
- Thickness: 0.3-2.5mm; size: any size
- Printing requirements: whether plastic coated or not, individual set type, UV rays resistance printing, individual personal photo input and so on



Safety Lockout Kit Combination Bag ▶

Including safety lockout portable box x 1; nylon safety padlock x 2; nylon lockout hasp x 2; doubleend aluminum hasp x 2; multi-function miniature breaker lockout x 4; multi-function circuitbreaker lockout x 2; large type circuit breaker lockout x 1; industrial waterproof plug lockout x 1; automatic retractable cable lockout x 1; adjustable gate valve lockout x 1; special pen for PVC tag x 1; tagout x 10.

Advanced Lockout Station ▶

Model No.: SP-B102

- Made from engineering plastic PC, one piece design, strong and durable
- With 10 padlock positions, each position can accommodate 2 padlocks; 4 hasps, several tagouts, cable ties, etc.
- Station can be locked
- With mask design



LOCKOUT / TAGOUT



Economic Cable Lockout

- Made from impact resistant engineering plastic nylon PA, can be customized other colors
- Used 2 meter stainless steel cable, the outer layer of cable is made from anti-UV PVC (diameter 4mm)
- The cable can be customized with different length and colors
- Locked with 6 padlocks, lock shackle diameter is less than 7mm

Adjustable Cable Lockout

Model No.: SP-L11

- Material: Steel + PC
- Size: 70 x 70 x 28mm
- Color: Red, can custom made other colors
- Cable diameter: 6.0mm
- Usable length: 1.8mm
- Lockout Weight: 251g



Multipurpose Cable Lockout

Model No.: SP-L01

- Material: Nylon PA + Steel
- Size: 160 x 100 x 24mm

STRETCHERS

Spencer Total Recovery Stretcher ►

Model No.: ST04090

Total is the strongest versatile and compact rescue stretcher on the market. It is made with a particularly robust and durable plastic on which has undergone a special thermal treatment that improves the elastic memory feature.

- Belts for towing and lifting
- A system of belts for the assembling of the stretcher and subsequently folding before replacing it in the bag
- A system of additional handles for the transport of heavy patients by four or eight operators
- Aluminum hook to allow for lifting
- Transport bag in nylon Ripstop
- Hoisting harness in nylon • Dimensions: 2430 x 920 x 3 mm
- Material: Polyethylene • Hoisting harness in nylon
- Weight: 6 Kg +/- 0.5 kg • Load capacity: 200 kg
- Standards: Class I Med. Dev. according to Dir. 93/42/CEE



◀ Spencer Foldable Emergency Stretcher

Model No.: ST30100A

Foldable stretcher with ground supports for patient recovery and transfer to a main stretcher or other transport device.

- Extremely lightweight and durable structure
- Very low storage space required
- Lengthwise foldable
- Easy to clean sheet
- The handles offer a firm grip
- Load capacity: 170 kg
- Measurements: 2010 x 480 x 140 mm
- Standards: Class I Med. Dev. according to Dir. 93/42/CEE



Spencer Shell Universal Basket Stretcher ►

Model No.: ST04000A

Spencer Shell is a basket stretcher intended for recovery of patients where other devices would be difficult to use. Typical uses are water rescue, recovery by ground hoisting, fast recoveries and transfers that require side impact protection.

- The single shell body makes it extremely safe and easy to handle
- The perimetral frame provides rigidity and allows to have a firm grip on the handles
- Equipped with rings for hooks fixing
- Perimetral rope to fix belts or accessories
- The shape of the inferior part reduces friction during ground dragging procedures
- Mattress to increase patient comfort
- L x W x H - 2150 x 650 x 200 ± 10 mm
- Materials PE, PP, Al • • Loading capacity 280 kg
- Weight (without standard equipment) 12.5 ± 0.5 kg
- Standards: Class I Med. Dev. according to Dir. 93/42/CEE



STRETCHERS



Spencer Ultralight Evacuation Chair

Model No.: SK20003E

SKID-OK is an evacuation chair ideal for transfers on descending stairs thanks to the handle on the rear side and slide system with belts. The four wheels also allow the transport on the plane surface.

- PVC sheet easily cleanable equipped with quick release buckles to adjust the tension footrest
- Front wheels pivoting with brake
- Rear wheels of large diameter to increase the sliding
- Mobile headrest sheet to adapt to the patient's height
- Reduced storage dimensions
- Height with extracted handle 1540 ± 10 mm
- Height with handle closed 1040 ± 10 mm
- Length: 900 ± 10 mm
- Width: 520 ± 10 mm
- Thickness folded: 175 ± 10 mm
- Weight: 10 ± 1 kg
- Loading Capacity: 150 kg
- Material: Al, PVC, PE, PU
- Front wheels \varnothing 100 mm
- Rear wheels \varnothing 150 mm
- Standards: Class I Med. Dev. according to Dir. 93/42/CEE

Spencer Evacuation/Transport Chair

Model No.: SK10001E

Pro Skid – E is an evacuation chair ideal for transfers on stairs thanks to the front and rear handles which allow lifting, and slides that allow easy movement on stairs. 4 wheels allow movement on flat surfaces.

- PVC Sheet easy to clean
- Slide allow easy movement and control going down and upstairs
- Telescopic front handles make handling easier Footrest
- Front wheels pivoting with brake
- Large diameter rear wheels increase sliding action
- Headrest sheet is movable making the device suitable for patient of different heights
- Height opened: 1580 mm
- Height folded: 1060 mm
- Length with handles closed: 1110 mm
- Length with handles opened: 1340 mm
- Width: 550 mm
- Thickness folded: 355 mm
- Weight: 15 kg
- Materials: Al, PVC, PE, PU
- Standards: Class I Med. Device according to Dir. 93/42/CEE



STRETCHERS



Spencer Foldable Stretcher

Model No.: ST00598A

Foldable stretcher with ground supports for patient recovery and transfer to a main stretcher or other transport device.

- Extremely lightweight and durable structure
- Very low storage space required
- Lengthwise foldable • Easy to clean sheet
- The handles offer a firm grip
- Load capacity: 170 kg • Weight: 5,4 ± 0,1 kg
- Measurements: 2010 x 550 x 140 mm
- Standards: Class I Med. Dev. according to Dir. 93/42/CEE

Spencer Rock Straps

Model No.: ST02035A

Retention system for the immobilization of patients to be used on spinal boards.

- Extremely resistant and robust system
- Strap closures to make rescue operations faster
- Sliding transversal bands for greater versatility
- No. of fixing point: 10
- Central belt length: 1230 mm
- Minimum Length: "V" belts 270 mm
- Maximum Length: "V" belts 540 mm
- Minimum Width: 720 mm
- Maximum Width: 1350 mm
- Material: I Nylon • Weight: 460 ± 20 g
- Standards: Class I Med. Device according to Dir. 93/42/CEE



Spencer Rock Pin Spinal Board

Model No.: ST02010B

The Spinal Board Spencer Rock is a device for recovery, immobilization, and transfer to the stretcher of patient with suspected spinal injuries.

- The number of handles, their positioning and their shape, allow a firm grip even in difficult conditions
- The tapered shape allows to save space and to place the device inside Spencer basket stretchers
- Dedicated holes and pins to fix belts and Spencer head immobilizers
- Smooth and filleted surfaces to allow easy cleaning
- Robust and lightweight structure to ensure impact resistances
- Dimensions: 1840 x 445 x 50 ± 10 mm
- Materials: PE, PU • N° of handles: 16
- N° of pins: 14 • Loading Capacity: 200 kg
- Weight: 6,5 ± 0,5 kg
- Standards: Class I Med. Device according to Dir. 93/42/CEE

STRETCHERS

Spencer Spinal Board with Pin



Model No.: ST02061B

The spinal board Spencer B-Bak Pin is a device for recovery, immobilization and transfer to a main stretcher of patients with suspected spinal injuries

- The number of handles, their placing and their shape offer an easy grip even in difficult conditions
- The tapered shape allows place the device inside Spencer basket stretchers
- Smooth and rounded surfaces ensure an effective sanitation
- Robust and light structure to ensure high resistance
- Slides on the lower side to minimize sliding resistance during the application
- The low thickness makes the application and storage easier
- Equipped with Pins to allow easy fixing of belts with snap hook
- Dimensions 1840 x 405 x 45 mm
- Materials: PE • No. Handles: 14
- No. PIN: 8 • Loading capacity: 180 kg
- Weight $6 \pm 0,3$ kg
- Standards: Class I Med.Device according to Dir. 93/42/CEE



Spencer Pickup Stretcher

Model No.: ST05002A

Spencer SX is a pickup stretcher with two blades for lifting and loading of patients on immobilising or transport devices such spinal boards, vacuum mattresses or transport stretchers.

- Extremely light and resistant structure
- The possibility to adjust the length confers high versatility
- Smooth surfaces easy to clean
- Foldable to save space when stored
- The numerous handles make the transport easier
- Aluminum joints for maximum resistance
- Adjustable lengths: 1660mm, 1780mm, 1900mm, 2050mm
- Weight: $7,6 \pm 0,4$ kg
- Load capacity: 170 kg
- Standards: Class I Med.Device according to Dir. 93/42/CEE

STRETCHERS

Spencer 10G Fastener for Stretcher



Model No.: ST42707

Fastener for 10g certified stretchers, created to ensure their safe anchorage inside medical vehicles.

- The linearity of the structure avoids unnecessary bulk when the stretcher is not loaded on the ambulance
- Release of the stretcher requires a minimum effort thanks to the leverages integrated in the main structure
- The release system is protected against accidental operation
- The device acts simultaneously both on frontal and rear part of the stretcher and, thanks to the integral structure, allows a simple installation without alignment difficulties between the frontal and rear part of the fastener
- S-MAX can achieve maximum integration levels if used together with the optional system SHARP that, once installed on the stretcher, allows to carry out the unlocking through a drive mechanism strategically placed on the control group of the stretcher
- Dimensions: 1790 x 190 x 80 ± 5mm • Weight: 5,2 ± 0,1 kg
- Standards: Class I Med.Device according to Dir. 93/42/CEE



Spencer Carrera T Tec Chrome Frame Black Board 10G

Model No.: CA70037

Spencer Carrera T Tec is a compact and lightweight self-loading stretcher for transport of patients. It can be used for rescue operations on road and sanitary vehicles. The legs fold independently operating the specific commands and open automatically when unloading.

- Polyethylene board easy to clean • Frame material Stainless steel
- Color coded commands • Adjustable backrest
- 2 fixed wheels & 2 pivoting with large diameter to make movement easier
- Brakes on rear wheels • Foldable side bars Safe bar
- Board with Trendelenburg antishock position • Weight 37 kg
- Length x Width: 1980 x 580 mm • Loading capacity 170 kg
- Standards: Class I Med.Device according to Dir. 93/42/CEE



Spencer Compact Universal Head Immobilizer

Model No.: SH00110C

Device for head immobilization intended to be used with Spencer spinal boards or pickup stretchers. It can be used along with other immobilization devices like SED and all Spencer cervical collars.

- The padding of the base increase patient comfort
- Wide strap surfaces make the headblock positioning easier
- Adjustable frontal and chin straps with soft and highadhesion paddings to optimize the immobilization
- Pillows made of non-absorbent material for an easy sanitation
- Base dimensions (buttonhole excluded) 365 x 260 x 20 mm
- Pillow dimensions (1 piece) 255x85x160 mm
- Hole for ear inspection ø70 mm
- Base weight: 360 ± 10g • Pillow weight: 500 ± 10g
- Overall weight 1,46 ± 0,07 kg • Materials: PE, PVC, Nylon
- Standards: Class I Med.Device according to Dir. 93/42/CEE



DISINFECTING AND CLEANING SOLUTIONS

DESS DISINFECTANT & SANITISATION SYSTEMS

Management of viruses, bacteria, and provision of world-leading sanitation and hygiene solutions

How does it work?

The Chemistry

Anolyte

High performance oxidizing Biocide, consisting predominantly of Hypochlorous Acid (HOCl) along with trace amounts of ClO_2 , O_3 , H_2O_2 & OCL
PH adjustable 2.5 to 8
FAC 100 to 6000ppm

Catholyte

Alkaline Detergent / Degreaser, a reducing solution consisting predominately of Sodium Hydroxide (NaOH) along with OH^- , H_2 , & HO_2^-
PH 11.5 to 13.5

NaOH 800 to 8000ppm

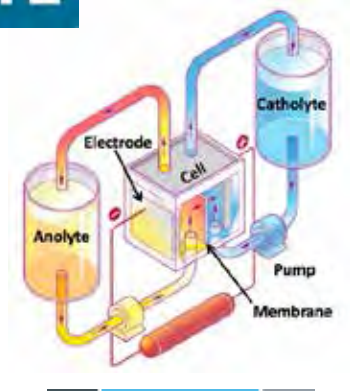


How does it work?

ELECTRO-CHEMICAL ACTIVATION THE INPUT



Three inputs > Precision Electrolysis > High efficiency conversion of electrolytes



RANGE



HAND SANITISER



Sanitise bathrooms, kitchens, food processing areas, tools, etc. with a convenient on-the-go spray.



Use this approved, powerful, alcohol-free hand sanitiser that is gentle on skin.



DISINFECTANT & SANITIZER



Wipe all high-touch surfaces for instant disinfection. No gloves required.



Sanitise bathrooms, kitchens, food processing areas, tools, etc. with a convenient on-the-go spray.



Use this approved, powerful, alcohol-free hand sanitiser that is gentle on skin.



Wash fruit & vegetables to get rid of pesticides & extend shelf life. Use in packing ice for fresh fish & seafood.



Safely fog work spaces even when humans & animals are present. Ideal for misting tunnels. It's 100% safe



Application in industrial zones as well as removing odours from garbage disposal areas.



MULTI-PURPOSE CLEANER



Wipe all high-touch surfaces for instant disinfection. No gloves required.



Sanitise bathrooms, kitchens, food processing areas, tools, etc. with a convenient on-the-go spray.



Use this approved, powerful, alcohol-free hand sanitiser that is gentle on skin.



Highly effective detergent replacement for washing of clothing. Reduces maintenance of equipment.



Cleans out drains, pipelines & feedwater reducing microbial growth and bacterial spores.



Application in industrial zones for degreasing & repair of industrial machinery.

ENGINEERED SOLUTIONS



More than 25 years Edelhoff-Technologies got known worldwide as a specialized manufacturer of components for catalyst handling. Edelhoff is part of a traditional family-run group of companies owned by Klaus-Union Group with their headquarter in Iserlohn / Germany.

In 2019, ERI Technical Services was founded as a joint venture with Raja International General Trading from Kuwait to provide service companies with a rental fleet of our advanced technologies and our own qualified, trained, and experienced catalyst personnel at shutdowns peaks. ERI is based in Dubai and strongly positioned in the MENA region.

In April 2021, Klaus Union Group became the sole stakeholder of Edelhoff-Technologies. Klaus Union Group is a traditional, family-owned organization that operates internationally. The group has over 1,000 employees worldwide. Klaus-Union Group is one of the world's leading supplier of pumps and valves, especially for the chemical and petrochemical industry.

LIFE SUPPORT SYSTEM (LSS) ►

Life support systems have been used worldwide for more than 40 years. LSS are needed whenever people must be supplied with breathable air. Three independent supply lines including voice radio, and a breathing protection helmet which cannot be removed uncontrollably – this is the safety concept of NASA. We offer you all components as a complete system CE-certified from one source.

In the context of customer requirements for increased safety, we have further developed and partially digitized our LSS technology in the field of breathing air control and gas measurement monitoring, including recording and data storage systems. Additional monitoring cameras increase safety at the various workplaces of an LSS team. This is the new safety and quality generation 2020 – Advanced technology for the next 10 years!

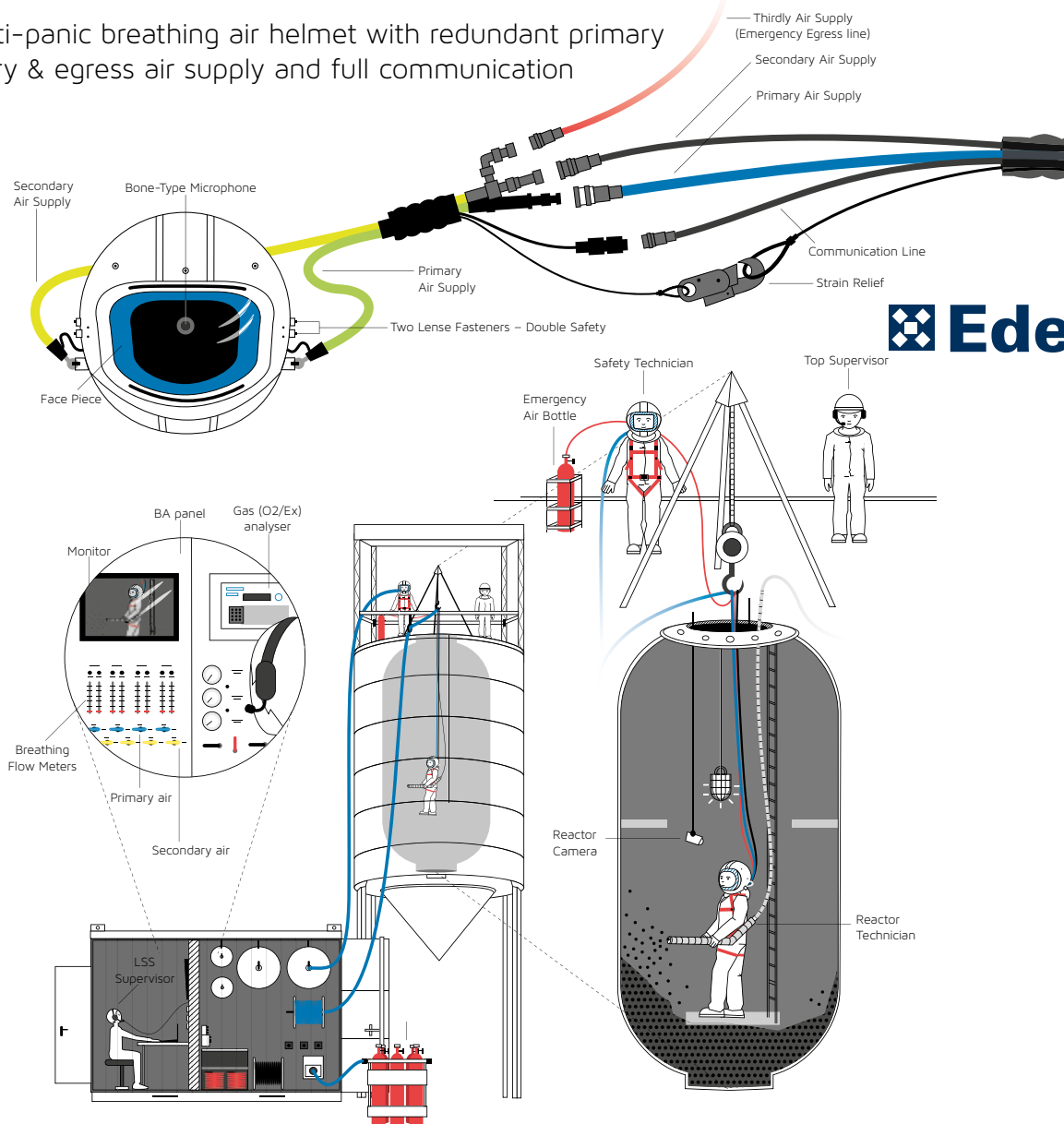
Breathing console components – CE certified and partially digitized are:

- Manual air supply control system
- Digital recording, evaluation and warning systems
- Integrated voice communication and multiple camera monitoring
- Anti-panic respirator helmet



ENGINEERED SOLUTIONS

Integral anti-panic breathing air helmet with redundant primary & secondary & egress air supply and full communication



Edelhoff

Mobile High-Performance Vacuum Units

Technical Information

Edelhoff was the first enterprise to develop high performance vacuum suction units in container design. Our mobile systems are incorporated in 20" containers. They have permission to be transported on the road, by rail, by sea and by air. Optionally they are available on a swap trailer, as a trailer, or as a fixed superstructure.

Edelhoff vacuum units are equipped with fine filters, discharge lock, nitrogen recirculation and cooling for works accomplished under nitrogen conditions.



ENGINEERED SOLUTIONS

Flexible Application:

Our mobile vacuum units are being designed and developed for the flexible and independent use at a wide variety of locations. Fitted with the very latest type of low-emission diesel engines with a drive power of up to 200 kW Lionair vacuum units perform to your requirements most reliable, even under the most difficult working conditions.

The particular advantages are:

- Multi-stage blower, depending on its size also executed as pre-initial inlet blower
- Compact and powerful filter separator; expandable and height-adjustable
- Integrated, vacuum-tight bulk solids sluice – ideal for continuous discharging of the aspirated product, especially during the active vacuum process

Mobile vacuum unit Type - Lionair Vac 8000 Ex

Diesel drive

Drive power 200 kW

Volume flow 9'600 m³/h

With dust explosion-proof in accordance to VDI 2263-3/3673 – in application for the safe removal of substances including coal dust within power plants

Mobile Container Vacuum Unit

Type - Lionair Vac 8000 C2

Diesel Drive

Drive Power 200 kW

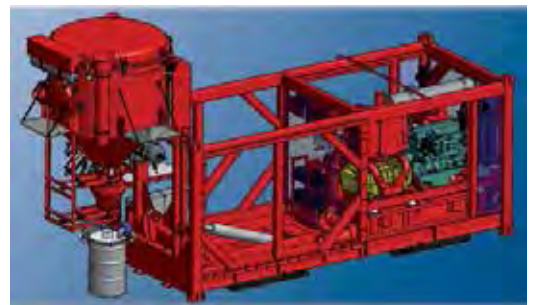
Volume Flow 9'600 m³/h

In application for dedusting of diverse industrial catalyst materials at refineries and for disposal of waste substances for general industrial cleaning purposes

Special feature:

Extremely robust and compact design, built into a 20" Euro-Container incl. CSC-approval for road, rail, sea and air transport

 **Edelhoff**



Edelhoff Dense Loading System 2020

Technical Information

You can now make use of our technically optimized and job tested new generation of Edelhoff Dense Loading Machines (DLM) for your reactor loading! It preserves your valuable catalyst better than ever and thus extends the material's period of use.

Our tried and tested DLM, which has been continuously developed since 2002, ensures that the catalyst material is distributed evenly, smoothly and dust-free in the reactor. It results in the desired homogeneous and tight sealing of the individual catalyst particles with a significantly higher filling volume.

The continuous control of the inflow quantity and rotary speed of the filling motor as well as the length and shape of the flexible, star-shaped product deflector which is arranged over several layers guarantee a sparing and economic loading for each reactor bed size.



ENGINEERED SOLUTIONS

Benefit from Experience!

All practical application experiences are incorporated into the DLM Generation 2020:

- Our customers have carried out globally-successful reactor loadings with Edelhoff Dense Loading Systems for almost ten years
- The Edelhoff Dense Loading Technology was constantly reviewed and further developed in cooperation with the customers
- The qualitative high-grade theoretical education and the practical on-the-job training for operators were implemented thoroughly
- Not to forget, our name stands for more than 50 years of technical experience in handling diverse bulk goods. As a result, the DLM Generation 2020 offers you an individual system which:
- Is even better protected against breakdowns through dust and damage in transit
- Can be technically adapted even more flexibly to the on-site conditions without the need for reconstruction
- Ensures the catalyst is distributed even more evenly the catalyst material is handled even more sparingly
- Regulates the material flow in a more controlled way • Can be installed even quicker



Rent your DLM 2020

You have three options as regards introducing DLM systems:

- Three year lease contract
- Three year lease contract including
- Full-Service Package "servicing & technological upgrading"
- Lease contract on a daily basis (as an addition for three years contract on request)

No other licence-fee accrues for you!

On request, we also arrange for a DLM qualified member of service staff from our cooperation partner to implement your catalyst loading.



Take a closer look at the development of the DLM 2020!

• Central product supply:

The volumetric exhaust flow of the catalyst is solely defined by the central product supply. An uncontrolled product discharge is therefore absolutely excluded.

• Quick release system for the flow quantity control:

The Material Flow Control discs graded in 5 mm diameter steps which regulate the inlet quantity of the catalyst on the rotating strips can now be changed externally while the device is assembled in less than 10 seconds. Time saving is around 20 minutes/change.

• Arrangement of strips:

Flexible strips arranged on four levels with different numbers of each level guarantee the catalyst is distributed almost dust-free and smoothly in the distributor.

• Fine alignment of the inflow quantity:

The use of facing discs on the strip rotary blades allows the inflow quantity which is pre-aligned by the Material-Flow-Control discs to channel to the requested distribution levels and thus improve the loading structure in the reactor.

• Balanced three point adjustment:

A balanced three point adjustment was mounted onto the DLM with screw-on extensions, whereby a time-consuming and expensive installation of auxiliary constructions on the reactor entrance is not necessary.

• Stub wings on the ends of the shaft (alternative):

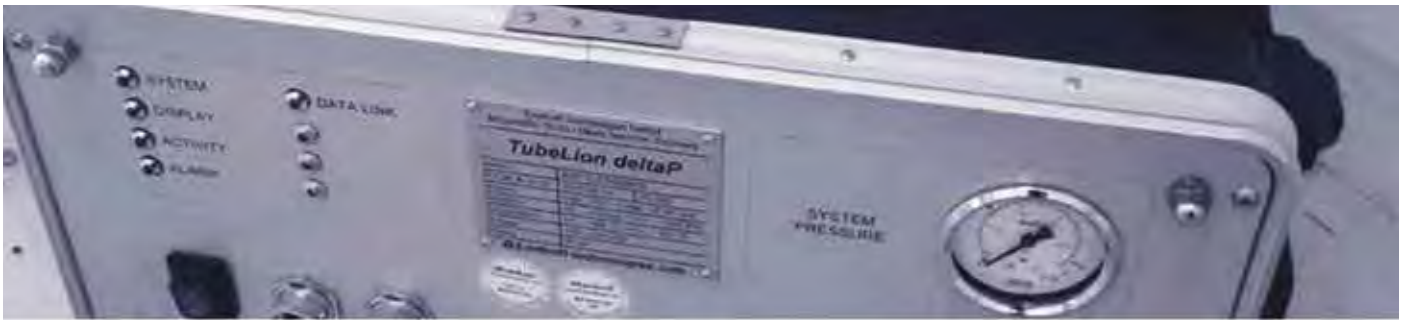
According to the type of catalyst and reactor, the catalyst material flowing through the Strip Holder discs reaches a so-called "stub wing" at the end of the shaft which also distributes the material smoothly and evenly at this point for an optimal loading result.

• Control unit protection:

The control unit (for compressed air and motor rotating speed) is built into a switch box which protects the aggregate against dust and damage in transit.

• Compact unities construction system:

The entire system is mounted into an aluminium container, the internal design of which makes it easy to test the completeness of all construction components.



Edelhoff

..... Tubular Technologies



■ Belt Conveyor Machine

■ Vibration Machine

■ MULTIDENSE™
Technology

■ Orifice Loading

■ Funnel Loading

■ Dedusting Hopper

■ Final Deduster

■ Air Lancing

■ Air Drilling

■ Fish Tapping

■ Brush Cleaning
Machine

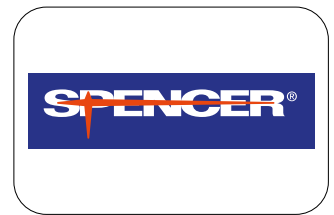
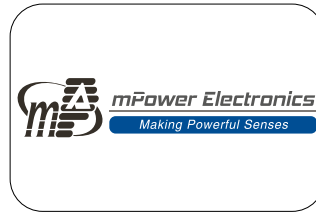
■ Drilling Equipment

■ DeltaP Single
Tube Technology

■ DeltaP Multi Tube
Technology

SAFETY PLUS WORLD - MIDDLE EAST

Our Brands



RAJA GROUP - MIDDLE EAST

Our Team



Safety Plus World Fall Protection Service Center



Safety Plus World SCBA & Gas Detection Service Center



Recent Accolade



Supply Chain & Logistics



Top Brands ■ **Total Solutions** ■ **One World**

A Division of



Raja International FZE - U.A.E

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