



MULTIPURPOSE PRODUCT CATALOG

With the demand from market and our strategy to improve the safety acknowledgement for the worker to reduce the risk and labor accident which have affected to the workers and the employers

Supplier



Customer



About Us

Established in 2006, Xuyen Dong Duong Trading & Services Co., Ltd was initiated by a group of pioneers who wish to improve the safety awareness of the labor forces by their safety application acknowledgement and experience. With a global view, the company starts with its first business in the field of Trading and Distribution Safety Equipment to Vietnam market. The Head office is located in Ho Chi Minh City, one of Finance & Economy center in Vietnam.



Our Success, Built by The Customer and Manufacturer

With a firm foundation in the industrial equipment supplying by combination the Well-known brands, Quality of product and services, Operation policies, Experience and Comprehension the market, the company has gained the reliability and support from the customers and manufacturers. We are keen to exchange opinions and share its fruitful achievements with the customers in a simple manner as well as sharing the local cultural and customer's opinion to the manufacturer to improve the quality of product and its services. We fully believe that the trust from customer is a pleasure worth passing down via every customer, which is turn challenges us to improve ourselves everyday.

Our Concept, Originated from the Profession and Innovation

The brand name is originated by our non-stop innovation and development to expand the market and the focus for the Protective Equipment and improve the safety aware of the users. Since then up to now, is accepted as one of reputable supplier for Safety Equipment and its services in Vietnam. Focusing on the development and supplying of safe, solid and humanized products. We persist with continuous upgrade of user experience of safety equipment, function and safety propelled by customers' opinions and our innovation.

Our Advantage, Contributed by Cooperation, Quality and Service

With the demand from market and our strategy to improve the safety acknowledgement for the worker to reduce the risk and labor accident which have affected to the workers and the employers, as well as bringing the new technologies and new product standard to the users, we have collaborated with our manufacturers to organize the safety seminars, training course to the users. With our experience in safety business, together with our Reliable suppliers, we are proud of sharing our experience to the end-users on Safety Solution in work place safety.

Our Goals

- ✓ To build a core range of safety products with high quality and performances appreciated by users for it's value and meeting the demands by users to protect lives.
- ✓ To build a core range of safety products with high quality and performances appreciated by users for it's value and meeting the demands by users to protect lives.
- ✓ To ensure and build the company to be able to translate these values to the general market users.
- ✓ To explore and introduce other related potential business units which would help customers with their supply chains.
- ✓ To continuously plan for growth for the company and it's workforce.

Our Vision

- ✓ To be a highly valued products and services provider in the manufacturing and services providers market, using progressive management practices and knowledge based skilled employee.

Our Missions

- ✓ Panindochina aims to set up distribution network of dealers and regional sales team to reach out and service customers in major regions of Vietnam.
- ✓ Panindochina has set up growth plans for the company and it's workforce to achieve it's Vision and Mission.
- ✓ Panindochina has set up facilities to support after sales service needs of our customers for the products we supply.



Why Choose Us



Over 25 trained Employees to cover for our operation, and development of the company



Qualified and Certified Technicians by the manufacturers to assure about the technical support after sales in Vietnam.



Over 30 well-known overseas Manufacturers and Partners to assure the Technical Support, Supplying Chain and Services;



Over 30 well-known overseas Manufacturers and Partners to assure the Technical Support, Supplying Chain and Services;

Technical Services For Self-Contained Breathing Apparatus & Gas Detector

Self-Contained Breathing Apparatus

Air filling service



Air filling procedure is followed to European standard with the monitoring of our technical team. And the modern air compressor that ensure air quality meet EN 12021:2014.

SCBA functional testing

Be authorized from 3M - Scott Safety for doing the inspection of SCBA, ELSA and Air-line systems by using Sabretest III.

Technical service will be done annual or periodically to ensure the equipment is always in ready to use.



Repairing and replacing spare part for the breathing apparatus

The technical procedure will be followed as regulation of manufacturer with the original spare parts and special tools that are supplied by manufacturer.

The breathing apparatus will be services by our technical team who trained and certified by manufacturer to ensure the equipment is safest and the best quality after doing service.



Rental service

In order to meet the needs of customer in short-term for using, we supply the rental service for the breathing apparatus.

Please contact directly our technical or sales team for more information.

Training service

In order to ensure the safety and effectiveness when using the equipment, we supply to customers the training courses for using the breathing apparatus and other safety equipment that is supplied by Panindochina.

Please contact directly our technical or sales team for more information.

Gas Detector

As you know, many of you have purchased instruments only to find out that your vendor can't service them. You have become painfully aware that the time and cost to send your instrument back to the factory are unacceptable.

Panindochina® being an Authorized Service Center of Industrial Scientific, our technicians are factory-trained to service all of gas detectors of Industrial Scientific.



Panindochina® provides the highest level of service for gas detector repairs, calibrations, and warranty sensor replacement. Our technicians are committed to quality service and offer quick and efficient turnaround for all repairs and calibrations conducted at our facility.

Panindochina® is always confident being a bridge between Industrial Scientific and customers in Vietnam



Gas detector service:

- Inspection
- Calibration and certification
- Repair and replace spare parts
- Technical training
- Rental service

Technical Services For Fall Protection Equipment & Systems



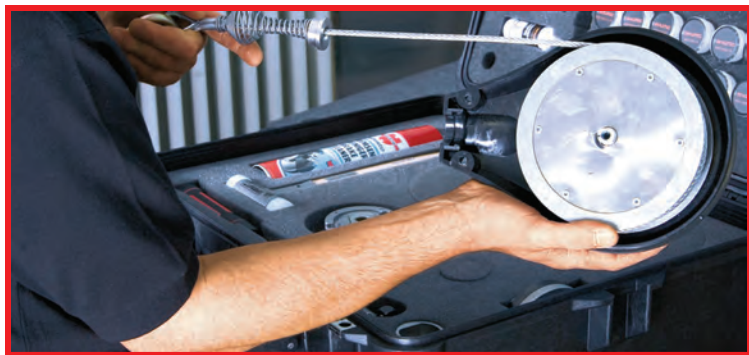
General service life

The service life of Personal Fall Protection Equipment (PPFE) depends to a large extent on the conditions of use. Harnesses and ropes made of chemical fibres are subject to a certain ageing effect even if not put under any stress, e.g. from ultraviolet light or from climatic or other environmental influences. In addition, the softening agents in textile materials used in PPFE can volatilize over time, which can lead to the equipment becoming brittle even when it is not being used. This can cause damage to the material, which may not be visible, and loss of resistance. The DGUV 112-198 statutes therefore recommend that ropes and cables are replaced every 4-6 years and harnesses every 6-8 years, although the manufacturer's instructions in the user handbook should also be observed in this respect. Almost all products that are used very intensively will not reach their maximum service life.



Service life of products

The products are made from the highest quality materials, under normal usage conditions, the maximum service life may be expected to exceed the recommendations of the DGUV 112-198. If the equipment is stored correctly and for a maximum of 2 years, harnesses must be replaced after a maximum of 8 years after the first use and ropes and cables after a maximum of 6 years. A total service life of a maximum of 10 years is possible if the products are allocated to only one user, who does not use them excessively, always handles them carefully and is aware of the entire usage history.



Installation & Assembly

Professional installation by certified fitters on site.

If you decide to install our permanent fall protection systems, such as SKYLINE or SKYRAIL, we will of course take over the planning and professional installation as well as the regular system inspections required later on.

As well as permanent systems, we also install climbing protection ladders, single anchor points and much more besides in places where there is a risk of falling.

Three good reasons to choose Panindochina:

- Our specialists assembly and dismantle equipment on site.
- We provide support for maintenance and inspections.
- We help you with renovation, cleaning and servicing.

Why does PPFE need to be checked?

Personal Fall Protection Equipment (PFPE) must be checked by an expert (in accordance with DGUV 112-198) at least once a year and after being put under any stress or if you have any doubts as to its working order. The expert will decide whether the equipment is in good working order and whether it has reached a level of maturity defined by professional regulations. The material inspection is based on the principles governed in Germany by German statutory accident insurance (DGUV statutes 312-906) and on the relevant manufacturer specifications. The legibility of the product labelling should also be checked. The inspection should be carried out according to the manufacturer's specifications and must be documented.

Inspection by Panindochina

As a manufacturer, Panindochina is authorised to inspect ropes, cables and harnesses from all manufacturers and to approve these products for further use by recording this in service logbooks. Panindochina also carries out inspections of all the abseiling and rescue equipment it manufactures or sells itself.

Panindochina carries out inspections in-house or on site at your own premises.

Internal inspections:

- Harnesses, fall arrest devices, ropes and cables.
- Carabiners, band loops, anchor ropes.
- Safety systems.
- Abseil and rescue equipment (MILAN, Safety Roll, Safety Roll II, Rollgliss R 300, Rollgliss 350, Swissroll R 300).
- Tripods.
- Fall arresters.
- Climbing protection runners.
- Lifting devices (in accordance with UVV).

External inspections

PPFE (on site at the user's premises).

We can also provide you with our services worldwide, thanks to our mobile services and a wide-ranging network with partner companies.

- Inspection of your devices
- Assembly of fall-arrest systems
- Working at heights with experienced experts and modern equipment

Where access is difficult and your projects need to be carried out at great heights or in areas where there is a danger of falling, our trained staff and state-of-the-art equipment are on hand to help. Our specialists are available worldwide and in particular for:

- Maintenance and inspections.
- Assembling and dismantling permanent systems.
- Photography and filming, documentaries.
- Putting together risk assessments and rescue concepts.



Hard Hat

Hard hat protects you by providing the following features:
A rigid shell that resists and deflects blows to the head;
A suspension system inside the hat that acts as a shock absorber;
If fitted with a brow guard, it shields your scalp, face, neck and shoulders from splashes, spills and drips
If fitted with ear muffs, it provides protection for your hearing.

What tests do the hard hats undergo to meet these Standards?
Every production helmets is tested to ensure it complies with the Australian Standard AS/NZS1801.
Hard hats are conditioned prior to each test to differing heats and conditions to ensure that they comply under a variety of conditions. These are:
• Hot - at a temperature of 50 ±2°C.
• Cold - at a temperature of -10 ±2°C.
• Wet - total immersion in water at a temperature of 23 ±5°C.



What is the in-use life-span of a hard hat?
When a hard hat shows signs of wear and tear to either the helmet shell or the harness it should be replaced. It should also be replaced after any impact that would have caused the wearer injury, as the integrity of the structure will have been weakened.
Although there is no set service life for hard hats, we recommend replacement after no more than 3 years.
Components of harnesses may deteriorate more rapidly in service, therefore should be replaced every 2 years.
In-use, head protection gear is generally treated with a lack of care, often being thrown or dropped, used as a receptacle or carried on the rear window shelf of a vehicle.
None of these actions are conducive to continued performance so recommend users to regularly inspect both the helmet shell and its harness for signs of wear and tear and to store in a cool, dry place when not in use.

They then undergo testing for:
Electrical Resistance – where the leakage current cannot exceed 3 mA with no electrical discharge from the material nor flashover over the rim of the helmet.
Stiffness – where the indent of the hard hat shell under a force of 90 ±1 Newtons (N) does not exceed 15 mm when measured between 8 seconds and 10 seconds after application of this force. A Newton is the amount of force required to accelerate a body with a mass of one kilogram at a rate of one metre per second squared.
Shock Absorption – where the impact of 50 ±1 Joules (J) will not cause the deceleration of the striker to exceed 980 m/s², or the force transmitted to the hard hat wearer will not exceed 5.0 kN. A Joule is the work done, or energy expended, by a force of one Newton moving an object one metre along the direction of the force.
Resistance to Penetration – where the head form is not hit by the point of the striker.

Replace your hard hat when:
Cracks appear in the shell
The shiny surface appears dull or chalky
The shell becomes brittle
Impact with helmet surface has been made

Replace your suspension when:
The suspension becomes brittle
One or more of the mounts break off
The suspension will no longer hold securely to the head
The cradling straps break or become worn

Can I use the chin strap off helmets supplied by a different company?
This is not recommended.
Chin straps are not tested under AS/NZS 1801 for Type 1 helmets but in order to provide the best quality product, Chin Straps are tested and certified by BSI against European Standard EN397:1995 Industrial Safety Helmet.
Under the European Standard requirement, it became necessary for the chin strap to break when a specific load is applied. Chin strap may break in a different manner to another company's so it is recommended that you should only use a company chin strap on a company helmet.

PSHU/PSHV

The PSH series ABS non-vented or vented safety helmet (Type 1) with comfortable 6 point terylene head harness is designed to deflect falling objects and provide protection against knocks and bumps.



EVO®5 Olympus®

The EVO®5 Olympus® safety helmet combines a super strong ABS shell designed for superior all day protection with the comfort benefits of the Evolution® 3D-Adjustment™ harness system.



EVO®3

The EVO®3 Comfort Plus helmet combines a super strong shell for superior all day protection in the the widest range of environments, with the comfort benefits of the Evolution® 3D-Adjustment harness system.



HHV6FB

Full brim hard hat features extended brim over the neck & ears. Helping to reduce the amount of harmful UV radiation from the sun. The brim is slightly shorter in the front, allowing good upward vision.



EVO®2

The EVO®2 Comfort Plus™ helmet combines a super strong shell for superior all day protection in the widest range of environments, with the comfort benefits of the new Evolution® 3D Adjustment™ harness system.



EVO® VISTA

EVO®VISTA^{lens}® is a next generation feature-rich safety helmet based on proven Evolution® head protection technology, incorporating a fully retractable optical class 1 integrated overspec with B-rated impact resistance.



Technical Data

Product Name	Standards	Material	Harness Cradle	Ratchet	Vented Option	Printing	Accessories	Weight	Colours
PSHU/PSHV	AS/NZS 1801, TCVN 6407 EN 397 + A1	ABS	6-point	Wheel	Vented or Unvented	Front, back or sides	✓	-	
EVO®5 Olympus®	EN 397, EN 50365, ANSI/ISEA Z89.1 AS/NZS 1801, CSA Z94.1	ABS	6-point	Wheel or Slip	Vented or Unvented	Front, back or sides	✓	372 g	
EVO®3	EN397 EN 50365	HDPE	6-point	Wheel	Vented or Unvented	Front, back or sides	✓	372 g	
EVO®2	EN397 EN 50365	HDPE	6-point	Slip	Vented or Unvented	Front, back or sides	✓	372 g	
HHV6FB	AS/NZS 1801	ABS	6-point	Wheel	Vented	Front, back or sides	✓	435 g	
EVO® VISTA	EN 397, EN 50365,EN 170 AS/NZS 1801, EN 166	ABS	6-point	Wheel	Vented	Front, back or sides	✓	496 g	



Bump Cap

Bump cap is a type of hard hat that's characterized by a lightweight construction and a simplified design. They generally offer minimal protection from falling objects. Rather, most bump caps are designed to protect against minor injuries involving scrapes or bumps. If you accidentally bump your head against a low ceiling, for instance, a bump cap may protect you from injury. That's why they are known as "bump caps." Bump caps protect against injuries involving bumps.

Why should you choose a bump cap? Assuming you work in an environment where there's no risk of falling objects, you may not need to wear a traditional hard hat. Instead, you can wear a bump cap. Bump caps will protect from minor head injuries involving scrapes and bumps. Many construction workers and utility workers wear them for this reason.

When compared to traditional hard hats, most workers will agree that bump caps are more comfortable. Traditional hard hats are made of heavier materials that can make them uncomfortable to wear for long periods. Bump caps, on the other hand, are made of lightweight materials. This lightweight construction makes them cooler, more breathable, and all-around more comfortable to wear.

Aerolite®



The new HardCap AeroLite® is the lightest full shell bump cap available on the market. A direct evolution of the ever popular HardCap™ A1+, the HardCap AeroLite® represents the forefront of innovation within the JSP head protection range, providing complete protection in its category by meeting the requirements of the EN812:2012 Standard.

Aerolite® 60°



The HardCap AeroLite®60° weighs less than 135g without compromising on performance. The protective liner is fully washable at 60°C for good hygiene and extended life cycle.

A1



Designed to exceed the most recent standards, EN812:2012, years of thought and design iterations have been undertaken to develop a product that is unrivalled in both performance and style. Sleek and low profile, it's almost impossible to distinguish from a standard high street baseball cap.

BCBG



- Lightweight, modern baseball style cap
- Complies to EN812 - Industrial bump cap standards
- Foam padded insert provides built in protection against bumps & scrapes in the workplace
- Eyelet holes & mesh venting allows for airflow
- Adjustable strap for the perfect fit

BCNSP



- Lightweight, modern baseball style cap
- Complies to EN812 - Industrial bump cap standards
- Foam padded insert provides built in protection against bumps & scrapes in the workplace
- Eyelet holes & mesh venting allows for airflow
- Adjustable strap for the perfect fit
- Short peak for greater overhead visibility

BCFOMP



- Lightweight, modern baseball style cap
- Complies to EN812 - Industrial bump cap standards
- Foam padded insert provides built in protection against bumps & scrapes in the workplace
- Eyelet holes & mesh venting allows for airflow
- Adjustable strap for the perfect fit
- Micro peak for the best overhead visibility

Technical Data

Product Name	Standards	Shell Material	Peak Options	Ventilation	Slip ratchet	Size	Weight	Colour
Aerolite®	EN 812	HDPE	2.5 cm	Yes	Slip	53-64 cm	127g	
Aerolite® 60°	EN 812	HDPE	2.5 cm	Yes	Slip	53-64 cm	127g	
A1	EN 812	HDPE	5 cm	Yes	Slip	53-64 cm	155 g	
BCBG	EN 812	Polyester	7cm	Yes	Slip	-	-	
BCNSP	EN 812	Polyester	5cm	Yes	Slip	-	-	
BCFOMP	EN 812	Polyester	2.5cm	Yes	Slip	-	-	

Accessories For Hard Hat

Use for EVO®2, EVO®3, EVO®5, EVO®VISTA



Revolution® Wheel Ratchet Harness



OneTouch™ Slip Ratchet Harness



Chin strap

Use for PSBU, PSBV



Ratchet Harness



Chin strap

Use for HHV6FB



V6 Pushlock Harness



V6 Ratchet Harness



Chin strap



Lamp Bracket Ratchet Harness

Ear Plugs & Ear Muffs

How do I choose my hearing protection?

The choice of hearing protection depends on a number of factors including level of noise, comfort, and the suitability of the hearing protection for both the worker and the environment. Most importantly, the hearing protection should provide the desired noise reduction.

It is best where protection must be used, to provide a choice of a number of different types of hearing protection. Each hearing protection device is given a class rating from 1 to 5 to show the level of noise reduction achieved. If the noise exposure is intermittent, earmuffs are more desirable, since it may be inconvenient to remove and reinsert earplugs.

What are the common problems of hearing protection?

Studies have shown that one half of the workers wearing hearing protectors receive one half or less of the noise reduction potential of their protectors because these devices are not worn continuously while in noise or because they do not fit properly.

A hearing protector that gives an average of 30 dB of noise reduction if worn continuously during an eight hour work day becomes equivalent to only 9 dB of protection if taken off for one hour in the noise. This is because decibels are measured on a logarithmic scale, and there is a ten fold increase in noise energy for each 10 dB increase.

SE1374



- The very soft polyurethane foam provides comfortable and close-fitting seal against harmful noise.
- One size fits all.
- Uncorded, pair in polybag for economical.



SE1373

- The very soft polyurethane foam provides comfortable and close-fitting seal against harmful noise.
- One size fits all.
- Uncorded, pair in polybag for economical.



SE1323

- The very soft polyurethane foam provides comfortable and close-fitting seal against harmful noise.
- One size fits all.
- Corded, pair in a polybag for economical.

EPYU



- Bell shape delivers maximum comfort
- Brightly coloured offering high visibility for worker compliance
- Superior design makes it easier to insert and reduces tendency to back out of the ear



EPYC

- Bell shape delivers maximum comfort
- Brightly coloured offering high visibility for worker compliance
- Superior design makes it easier to insert and reduces tendency to back out of the ear



EPSC

- Reusable silicone earplugs
- Comes in resealable plastic case
- Cord allows earplugs to hang around neck when not in use

EMPYTNB



- Hi-Vis for visual identification
- Comfortable neckband configuration for extended wear
- Robust steel wire construction for on site demands
- Contemporary low profile design that withstands abuse without compromising comfort
- Solid, lightweight ear cup construction
- High quality ear cushions, Balanced clamping force for comfort



EMVIP

- General purpose use
- Solid, lightweight ear cup construction
- High quality ear cushions
- Inner foam and headband cushions provides comfort during extended wear
- Low clamping force applies minimum pressure while maintaining a tight, snug seal



EMPYTS

- Hi-Vis for visual identification
- High performance and strong durability through steel wire construction for maximum protection with easy adjustment system for individual fit
- Contemporary low profile design that withstands abuse without compromising comfort
- Solid, lightweight ear cup construction
- High quality ear cushions, padded foam headband & robust wire construction
- Low clamping force for comfort

AEB030-0AY-000



- The over-moulded headband has a built in comfort area with ventilation.
- The headband force and the cushion surface area work together to provide optimum cushion pressure and comfort.
- To facilitate even distribution of pressure the wearer can tilt and adjust the position of the earcup for optimum comfort and fit.



AEB030-0CY-000

- Solid, lightweight ear cup construction
- High quality ear cushions
- Inner foam and headband cushions provides comfort during extended wear
- Low clamping force applies minimum pressure while maintaining a tight, snug seal



AEB010-0CY-800

- Hi-Vis for visual identification
- High performance and strong durability through steel wire construction for maximum protection with easy adjustment system for individual fit
- Contemporary low profile design that withstands abuse without compromising comfort
- Solid, lightweight ear cup construction

Technical Data

Product Name	Standards	Material	Class	Noise levels	Weight
SE1374	ANSI S3.19, EN352-2	PU Foam	SNR 37dB	-	-
SE1373	ANSI S3.19, EN352-2	PU Foam	SNR 37dB	-	-
SE1323	ANSI S3.19, EN352-2	PU Foam	SNR 28dB	-	-
EPYU	AS/NZS 1270:2002	PU Foam	Class 5, SLC80, 27dB	110dB(A)	-
EPYC	AS/NZS 1270:2002	PU Foam	Class 5, SLC80, 27dB	110dB(A)	-
EPSC	AS/NZS 1270:2002	Silicone	Class 3, SLC80, 18dB	100 dB(A)	3.1 g
EMPYTNB	AS/NZS 1270:2002	-	Class 4, SLC8023 dB	108dB(A)	255 g
EMVIP	AS/NZS 1270:2002	-	Class 5 SLC8026dB	110dB(A)	210 g
EMPYTS	AS/NZS 1270:2002	-	Class 5 SLC8031dB	116dB(A)	372 g
AEB030-0AY-000	EN352	ABS, TPE	SNR 32dB	107-112dB(A)	234 g
AEB030-0CY-000	EN352	ABS	SNR 31dB	106-111dB(A)	256 g
AEB010-0CY-800	EN352	ABS	SNR 26dB	80-106 dB(A)	208 g

Safety Spectacles & Goggles



ZEN Safety Glass

- Single-piece lens fit perfectly on different face contours.
- Wrap-around frameless design.
- Ergonomically design temple with indirect ventilation.
- Exceptional comfort, protection and fit.

Standard:

Certified to ANSI Z87.1-2010.



SPECTRA Safety Glass

- Single-piece lens with integrated sideshield.
- Exceptional comfort, protection and fit.
- Adjustable temple to fit distinct face profile.
- Hassle-free lens replacement.

Standard:

Certified to ANSI Z87.1-2010.



SPECTRA Safety Glass

- Single-piece lens fit perfectly on different face contours
- Nose pad made of soft material for extra comfort
- Non-slip rubber pad
- Wrap-around frameless design
- Extended sideshield for lateral protection

Standard:

Certified to ANSI Z87.1-2010.



SON DOONG Safety Glass

- Modern and stylish design
- Sturdy polycarbonate frame
- Pantoscopic adjustment to alter lens angle
- Single-piece lens
- Nose pad made of soft material for extra comfort
- Co-injected rubber pad will not peel off on hot climate

Standard:

Certified to ANSI Z87.1-2010.



NHATRANG Safety Glass

- Superb lightweight at 22.6 gram
- Dileetric construction
- Comfortable nose piece
- Slim temple with rubber pad

Standard:

Certified to ANSI Z87.1-2010.



CONDAO Safety Glass

- Single-piece lens fit perfectly on different face contours
- Nose pad made of soft material for extra comfort
- Non-slip rubber pad
- Wrap-around frameless design
- Extended sideshield for lateral protection

Standard:

Certified to ANSI Z87.1-2010.



HA NOI Safety Glass

- Sturdy polycarbonate frame
- Tough polycarbonate lens offer 99.9% UV protection
- Flexible temple slot
- Optional metallic frame
- Nose pad made of soft material
- Straight temple design

Standard:

Certified to ANSI Z87.1-2010.



SAI GON Safety Glass

- Wrap-around protective glasses combining fashion, fit and function
- High-visibility rubber colour
- Maximum UV protection
- Anatomically-shaped nose adapt to all face
- Co-injected comfort pad will not peel off on hot climate
- Inner temple coated with elastomer for excellent grip and soft cushioning

Standard:

Certified to ANSI Z87.1-2010.

GENISYS PLUS™

The GENISYS PLUS embodies all the essential features of the standard GENISYS model but with extras.

Includes a form fitting SBR rubber dust gasket for extra protection and a large and small elastic strap to attach or easily convert into a goggle style by interchanging temples. It's probably the most innovative design ever made in our industry with real award-winning potential

Key Features:

- High wrap dual lens design
- Equipped with SBR gasket, ensuring protection against harmful particles
- Removable temples allow fitting of a head strap to convert into goggle style
- Quick Swap lens system allows for fast and easy lens replacement
- 3D multi-adjustable rubber nose bridge Rx ready with optional prescription adaptor



SUPER BOXA™

The SUPER BOXA is a top-selling premium product. Designed to protect your eyes from airborne particles, dust, and impact with its one-piece wraparound lens and form-fitting SBR rubber gasket. Featuring co-moulded Flexi-Max temples

to ensure a super comfortable fit alongside a fully coated Titanium anti-fog/anti-scratch lens for optimal visual clarity and performance. These glasses also feature an attachable and fully adjustable elastic strap for additional comfort and stability and are included with every pair.

Key Features:

- Ultra lightweight
- 10 base curve lens
- Titanium High Performance AF/AS lens coating
- Equipped with SBR gasket
- Co-moulded Flexi-Max rubber temples
- Fully adjustable elastic strap included



4900

- Medium impact rated.
- 99.9% UV protection for outdoor wear.
- Anti-scratch & anti-fog 2mm hardened lens.
- Lightweight design & adjustable headstrap for enhanced user comfort.
- Indirect vents for increased airflow & minimization of lens fogging.
- Excellent general purpose goggle that will provide the ultimate all round eye protection.
- Clear lens option.

Standards:

Certified to AS/NZS 1337.1:2010



3700

- Certified Medium Impact, Anti-Scratch Lens
- Certified Liquid Splash Protection
- Anti-Fog, Hardened 2mm Lens - Ideal for use with dust masks in humid conditions
- 99.9% UV Protection for Outdoor Wear
- FoamBound with Extra Wide Strap for Comfort
- Indirect Venting
- Available in Clear and Smoke Lens

Standards:

Certified to AS/NZS 1337.1:2010



KALIBER 8001

Features:

- Lightweight
- Slim temples
- Ballistics Resistance
- Adjustable nose pads
- Interchangeable between Clear and Smoke lens
- Durable and rugged design

Standards:

MIL-PREF-32432
EN166
ANSI Z87.1



KALIBER 8002

Features:

- Lightweight
- Slim temples
- Molded sideshields
- Adjustable nose pads
- Durable and rugged design

Standards:

EN166
ANSI Z87.1



Accessories: Eye /Facemask



Complete Lens Cleaning Station ASU200-000-200

Wall mounted (plastic) Lens Cleaning Station
4 boxes of 280 tissues and one bottle of lens cleaning spray
There is also a handy mirror attached to help identify any ocular irritants
Comes with 4 x screw/plug mounting pack



Multi Function Cleaning Tissues ASU200-000-300

Each box contains 280 tissues that are low lint, soft, non abrasive and absorbant for easy cleaning.



Bottle of Lens Cleaning Fluid ASU200-000-400

Spray Cleaning Fluid is anti bacterial and anti static
Alcohol and silicone free



Pre-Moistened PPE Wipes - Box of 100 ASU200-000-100

Wall Mounted or Free Standing
Easy Delivery box containing 100 Alcohol Free Lens Cleaning Wipe Sachets
The wipes are also suitable for other PPE, including Half masks and Ear Defenders

TOBIN'S EYEWASH SYSTEMS

Are well proven, quick and safe way to wash chemicals from eyes. This specially designed system gives the fastest possible application combined with a liquid volume large enough for most eye accidents. Chemicals in the eye can cause serious damage within 1-5 seconds. Washing that begins within a few seconds can therefore be decisive in minimizing the damage the eye will receive. It is also of utmost importance that an eyewash system is easy to use and that the exposed eye is washed by a soft flow, both features are engineered into every Tobin bottle. The patient needs just one hand to operate the bottle and the eyewash system empties under natural pressure, the flow cannot be increased by squeezing the bottle.

IMPORTANT SAFETY FEATURES

The Flow

The eye is washed by a soft flow consisting of 6 tiny streams. A damaged eye must not be washed with a hard/sharp jet. Each bottle contains 1 litre of sterile saline solution 0.9% and provides approx 3 minutes of flow.

Bottom Air Vent

When the air vent is activated it lets air into the bottle and insures the eye is washed by a soft continuous flow. The flow can be stopped, to allow blinking and eye movements, by placing the thumb over the bottom hole.

Shelf Life

As the bottles are disposable, costly refill routines are unnecessary. The contents of the bottle have a 3 year shelf life. Each bottle has an expiry date clearly visible.

Volume

Uninterrupted washing over a long period is particularly important. The 5 bottle stand gives approx. 15 minutes washing. Further bottles can be taken from other stands if required.

Sterility

The regulations governing sterile liquids are rigorous. The bottle cannot contain any bacteria during its shelf life. When a bottle is opened the contents must be used within few hours or thrown away.

The manufacturing of all Tobin eyewash liquids comply with the European and Swedish regulations in the standards SS-EN ISO 9002, SS-EN 46002, SS-EN 552, and SS-EN 556. They also comply with the German DIN 12930 standard.



TOBIN 130

Wall Stand

- Specially designed system for fast application
- Provides soft flow
- Each 1 litre bottle gives approximately 3 minutes washing time
- Includes 2 x 1 litre bottles, cabinet and screws
- 35 (H) x 25 (W) x 11 (D) cm
- 1 litre sterile bottles with 3 years shelf life from time of manufacture



TOBIN 129

Wall Stand

- 2x1 litre eyewash in wallstand. Suitable when space is a problem and/or
- eyewashes are required in a number of spots in the same area.
- Supplied complete with bottles, wall screws etc.
- Measurements 39x20x10 cm.



TOBIN 126

- For eye wash replacement
- 2x1 litre eyewash



TOBIN 121

Effective, sterile and safe eyewashes for industrial use, Tobin's Eyewash Systems are a well proven, quick and safe way to wash chemicals from the eyes. Chemicals in the eye cause serious damage within 1-5 seconds. Washing that begins within a few seconds can be decisive in minimising eye damage. With Tobin an eyewash bottle can be within arms' reach to reduce response time.

Key features:

- Personally carry in pocket
- Contains 200mL sterile saline solution

When and for how long should eyes be washed?

Eye accidents occur without warning. Common to all accidents are acute pain and a sense of blindness. An intense burning sensation makes it feel as if the eyes are on fire. It is extremely important to begin washing immediately. Seconds are decisive. A flow of liquid is important as the purpose is to dilute and wash the chemicals out of the eyes.

Mechanical Injuries

Wash not less than 1 minute

Degreasing Agents

Wash not less than 2-3 minutes

Acid Injuries

Washing must begin within 5 seconds. Speed is more important than anything else. Every second's delay aggravates the situation. Damage increases by the second. The damage seldom increases after 1-2 minutes. Washing for 3 minutes should be sufficient. However, to restore a feeling of comfort a further 2 minutes washing is recommended. These time periods apply only if a predominant part of the liquid makes contact with the eye. The patient should always see a doctor.

Alkaline Injuries

Lighting fast treatment and prolonged washing are extremely important. Eyewashing equipment should be within arms reach and must be designed so that washing can continue during transportation to a doctor. A 10-20 minutes washing period is recommended. In alkaline cases only a doctor can decide when it is safe to discontinue washing.

Face Protection



BG Visor Holder

- One piece design offering 180° head protection made from Polyethylene
 - Ratchet adjustment for ease of adjustment
 - Fits all head sizes 53cm-66cm
 - Cotton sweat band which provides greater sweat absorption
 - QuickLock clips for quick and easy visor replacement
- Certified to AS/NZS 1337.1:2010**



HHBGE Visor Holder

- Ultra high impact rated.
 - Lightweight guard will accommodate visor range and hard hat earmuff range.
 - Attach to Pro Choice Safety Gear hard hats via 25mm hard hat slots.
 - Fitted with QuickLock clips
- Certified to AS/NZS 1337.1:2010**



PFSP16 Visor Holder

- Deluxe aluminum construction
 - Fits most hard-hat
 - Features with plastic coated
 - Suitable for high heat applications
 - Smooth visor fitting
- Certified to AS/NZS 1337.1:2010, EN 166**



PFSP17 Visor Holder

- Lightweight design
 - Engineered with dielectric materials
 - Fits most hard-hat
- Certified to AS/NZS 1337.1:2010, EN 166**



EVO® Inter Visor Holder

Visor carriers allow use of faceshields with helmets. Clips into universal slot ear defender housing for the Evolution® range. Clips into universal ear defender housing Compatible with Evolution® Helmet Range ABS



EVO® Surefit™ Visor Holder

Visor carrier for mounting Surefit™ visors to EVO® helmets with badge holders. Compatible with Sonis®, InterGP™ InterGPV™, InterEX™, and InterEXV™ helmet mounted ear defenders only. Made from ABS.

Visor Materials

Polycarbonate

- Polycarbonat visor material is best to select for resistance to impact and waterbased liquids (biological, acids, weak solvents).
- Polycarbonate visors have a safe operating temperature of 105°C (material will start to distort and warp when it reaches its maximum temperature).
- Polycarbonate visors come in three thicknesses: 1mm, 1.5mm and 2mm:
 - 1mm và 1.5mm polycarbonate visors provide high impact protection.
 - 2mm polycarbonate visors provide extra high impact protection.

Certified to AS/NZS 1337.1:2010

Thermoguard+

- Thermoguard+ visors provide high impact protection and good protection against high heat and chemical splash.
- For chemical (C) splash resistance and molten metal/ hot solids (M).
- Thermoguard+ visors have a safe operating temperature of 125°C (material will start to distort and warp when it reaches its maximum temperature).
- Thermoguard+ visors come in 1mm thickness providing high impact protection.

Certified to AS/NZS 1337.1:2010

Chinguard wide flare.

Shaded

- For use with welding operations.
- Shade 2 for low levels of light radiation.
- Shade 5 visors give protection against liquid splash, high glare and ultra violet radiation.

Part number	Material	Thickness	Colour	Size	Type	Molten meal & hot solids	Extra high impact	High impact	Medium impact	Low impact	Chemical splash resistant	Outdoor use
ANX060-230-000	Polycarbonate	1 mm	Clear	530x620mm	Visor	•		•			•	•
ANX010-230-000	Acetate	1 mm	Clear	530x620mm	Visor	•		•			•	•
VCE	Thermoguard+	2 mm	Clear	204x380 mm	Visor	•	•				•	•
VC	Polycarbonate	2 mm	Clear	205x405 mm	Visor	•	•				•	•
VCGC	Polycarbonate	2 mm	Smoke	260x410 mm	Visor with Chinguard	•	•				•	•
VS5	Polycarbonate	2 mm	Green	205x405 mm	Shade 5 Visor	•	•				•	•
VCGS	Polycarbonate	2 mm	Smoke	260x410 mm	Visor with Chinguard	•	•				•	•
PFVI-1	Polycarbonate	2 mm	Clear	205x405 mm	Visor	•		•			•	•
PFVI-6	Polycarbonate	2 mm	Clear	205x405 mm	Visor with Chinguard	•		•			•	•

SE2741 Welding Helmet

A straight shell welding helmet connected to the helmet with slots, 2" x 4-1/4" flip front lens for easy welding and inspecting. Lenses and helmet sold separately.



Part number	Size	Len material	Description
SE2820	2" X 4.25"	Polycarbonate	Welding clear lens
SE2821	2" X 4.25"	Polycarbonate	Welding filter lens, Shade 10/11
SE2830	90 X 110 mm	Polycarbonate	Welding clear lens
SE2831	90 X 110 mm	Polycarbonate	Welding filter lens, Shade 11

F622 Disposable Mask FFP2V



Disposable vertical fold flat mask with mouldable nose bridge and foam pad on the inside for comfort and a firmer fit.

Specifications

Classification: FFP2
Usage: Non-Reusable
Minimum Filtration Efficiency: 94%
Latex free: Yes
Mask Material: Polypropylene
Filter Shelf Life: 5 Years
Product Weight: 22g
Standards: EN 149

Features



Foam Padded Nose Bridge
A mouldable nose bridge and foam pad on the inside for comfort and a firmer fit.



Toggle Adjustment
Toggle adjuster on each strap to achieve an effective facial fit.



Folds Flat
Fold flat design is compact and easy to carry in a pocket.



Exhalation Valve
Low resistance exhalation valve for easy breathing.

Typhoon™ Disposable Mask FFP20V



Moulded mask featuring our unique Typhoon™ Valve technology for extremely low exhale breathing resistance, and low CO₂, heat and moisture build up.

Specifications

Classification: FFP20V
Usage: Non-Reusable
Minimum Filtration Efficiency: 94%
Latex free: Yes
Mask Material: Polypropylene
Filter Shelf Life: 5 Years
Product Weight: 21 g
Standards: EN 149

Features



Comfort
A 360° comfort foam area around the inside of the mask provides a perfect fit and maximum resistance.



Fit
The welded nose piece prevents any irritation, misshaping and gives a tighter fit. Adjustable strap means it can be fitted comfortably to all head sizes and shapes.



Typhoon™ Valve
The Unique Typhoon™ valve has been designed to reduce breathing resistance, heat and moisture build-up. The valve is unaffected by any moisture, and therefore can be used with the same fit performance under very low temperatures.



Carbon Filter
Features an activated carbon filter layer, providing effective relief from nuisance odours (<WEL) for improved user comfort. Able to block organic and acid gases and vapours with concentrations under the WEL.

SpringFit™ Disposable Mask FFP2



The SpringFit™ fold flat disposable mask achieves an unrivalled secure fit with the use of a unique endoskeleton structure. SpringFit™ introduces an abundance of features that maximise fit, comfort, compatibility and performance.

Specifications

Classification: FFP2
Usage: (Non-Reusable)
Minimum Filtration Efficiency: 94%
Latex free: Yes
Mask Material: Polypropylene
Filter Shelf Life: 5 Years
Product Weight: 22g
Standards: EN 149

Features



Endoskeleton Structure
The internal skeleton frame guarantees that each mask keeps its shape, increasing performance and maintaining rigidity. The integrated spring feature absorbs facial movements ensuring a secure face fit and seal.



Compact
The fold flat design makes SpringFit™ more compact, and easily pocketed. SpringFit™ is also individually packed to ensure a high level of hygiene.

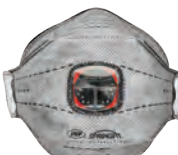


Compatibility and Vision
The low profile design of the SpringFit™ provides exceptional compatibility with other above the neck PPE, such as eyewear. The low profile also offers an improved field of vision for the wearer.



Comfort
The welded nose piece gives a tighter fit and minimises irritation. The adjustable strap means that SpringFit™ can be fitted comfortably to all head sizes and shapes. A foam area around the inside of the mask provides a comfortable fit.

SpringFit™ Disposable Mask FFP3



The SpringFit™ fold flat disposable mask achieves an unrivalled secure fit with the use of a unique endoskeleton structure. SpringFit™ introduces an abundance of features that maximise fit, comfort, compatibility and performance.

Specifications

Classification: FFP3
Usage: (Non-Reusable)
Minimum Filtration Efficiency: 99%
Latex free: Yes
Mask Material: Polypropylene
Filter Shelf Life: 5 Years
Product Weight: 21 g
Standards: EN 149

Typhoon™ Valve



The Unique Typhoon™ valve has been designed to reduce breathing resistance, heat and moisture build-up. The valve is unaffected by any moisture, and therefore can be used with the same performance under very low temperatures.



Carbon Filter (For SpringFit™ FFP3)
Features an activated carbon filter layer, providing effective relief from nuisance odours (<WEL) for improved user comfort. Able to block organic and acid gases and vapours with concentrations under the WEL.

UNIX 1100 Half Mask

Head Harness

Easily adjustable head harness a perfect fit for every face type

Mask Body

Improved face seal, designed with all the anatomical features of the facial structure, ensures a tight and stable fit on the face

Materials

All materials used in the UNIX half masks are hypoallergenic and stable to mechanical and chemical influences, ensuring long-term service life.

Half Mask Design

Small sized, soft and comfortable half mask applies minimal pressure to the face, providing wearing comfort.

Bayonet-filter Connection

Quick and safe connection of replaceable filters.

Disassembled Format

Can be disassembled, cleaned and reused quickly and easily.

Accessories:



Waist bag for storage and transportation as an additional offer.



Technical data

Initial airflow resistance during inhalation at a constant volumetric flow rate of 160 dm ³ /min, Pa (mm wc), not more than:	- during inhalation: 127,5 - during exhalation: 196,0
Half-mask constant airflow resistance during exhalation at a flow rate of 30 dm ³ /min, Pa (mm wc), not more than:	29,5
Weight, not more than:	29,5 g
Size:	1, 2, 3
Material:	Silicone
Shelf life:	5.5 years

Filter with bayonet connection

Full face mask are used together with the comprehensive range of gas filters of UNIX 500 series and particle of UNIX series. Filters comply with EN 14387 and EN 143 standards.

UNIX 500
gas filter

UNIX 223
particle filter

UNIX 303
particle filter

UNIX
particle filter

Filter retainer



UNIX 5100 Full Face Mask

Full face masks of the UNIX series supplied with gas or particle filters are designed to protect respiratory organs, face and eyes from vaporous and gaseous harmful substances and aerosols, while providing a comfortable wearing for the duration of the shift.

Full face masks of the UNIX series are used with the same filter system UNIX as half masks of the UNIX series. Tested in accordance with EN 136:1998.



Five-point Head Harness with self-tightening buckles
Quick adjustment and secure fit

Panoramic Visor
The visor is constructed from high-strength polycarbonate ensuring increased durability and a wide field of view

Double-sided Bayonet Connection
Balanced weight distribution

Speech Diaphragm
Optimal possibility for clear and easy communications

Materials
All used materials are soft, stable to mechanical and chemical influences and hypoallergenic for wearing comfort and durability.

Technical data

Initial airflow resistance during inhalation at a constant volumetric flow rate of 160 dm³/min, Pa (mm wc), not more than:	- during inhalation: 250 - during exhalation: 300
Material:	- head harness: silicone - face seal: silicone - inner mask: silicone
Weight, not more than:	680 g
Size:	Universal
Shelf life:	10 years

Filter with bayonet connection

Full face mask are used together with the comprehensive range of gas filters of UNIX 500 series and particle of UNIX series. Filters comply with EN 14387 and EN 143 standards.



UNIX 6100 Full Face Mask

Fields of application Chemical, petrochemical, metallurgical, machine-building, including car manufacturing, aircraft, shipbuilding, woodworking, pulp and paper, pharmaceutical, food industry, medicine, agriculture, construction, painting, welding, quarrying operations.

Technical data

Initial airflow resistance during inhalation at a constant volumetric flow rate of 160 dm³/min, Pa (mm wc), not more than:	- during inhalation: 250 - during exhalation: 300
Material:	- head harness: silicone - face seal: silicone - inner mask: silicone
Weight, not more than:	480 g
Size:	1, 2, 3
Shelf life:	10 years

Filter with bayonet connection

Full face mask are used together with the comprehensive range of gas filters of UNIX 500 series and particle of UNIX series. Filters comply with EN 14387 and EN 143 standards.



Silicone version

- increased strength of the head harness, face seal and inner mask
- elasticity of the mask when exposed to high and low temperatures

Mounting on the head

- convenient adjustment of the head harness allows to put on and remove the mask quickly
- head harness with four mounting points

Mask housing

- low profile - compatible with protective helmets

Panoramic glass made of polycarbonate

- the field of vision is more than 80 %
- mechanical strength

Additional options

- glass with protection from fogging and scratches
- replaceable protective film

Speech device

- speech intelligibility
- ability to work with means of communication

Bayonet connection of filters

- fast and reliable one-click filter replacement

Exhalation valve

- has a protective screen
- exhale downwards - no effect of air flow on the work surface
- ability of exhalation valve disk cleaning

Three sizes of panoramic mask

- easy selection for people with different face size and shape
- Low weight - not more than 480 g



MAG Series Full Face Mask

For more than 10 years MAG masks have been protecting workers of industrial enterprises engaged in conditions of high air pollution level from a various number of factors, such as: harmful gases and vapors, aerosols (dust, smoke, fog), or their combinations.

MAG series full face masks are to be used with DOTpro filters in plastic version and DOT in metal version with thread connection.



5-point headband with self-tightening buckles ensures fast and reliable fit on the head

Increased strength of the sight glass

Wide panoramic view

EN 148-1 standard thread connection for filter junction

Two choices of the inner mask, facepiece seal and headband material: rubber (MAG) and silicone (MAG-4)

The mask material resistance to the action of aggressive substances makes it suitable for various working conditions (EN 136 Class 2)

Double seal allows for one universal mask size

Technical data

Connection type:	Thread EN 148-1
Size:	One universal size
Material:	Silicone
Shelf life:	10 years

Thread filters to be used completed with MAG series full face masks.



Our special offer: prolonged filter protection time

1. DOT and DOTpro filters have extended protective power time in comparison with the requirements of EN 14387 standard (data provided below)

2. Reusable filters for protection against carbon monoxide (DOT M 460) and nitrogen oxides (DOTpro M 600)

AerGO®

CleanAIR® AerGO® is a universal powered air purifying respirator designed for personal respiratory protection in dusty industrial environments including areas with contaminants in the form of gases and vapours. The unit is supplied with a control system providing constant air flow and with an advanced electronic system for warning the wearer in case of a sudden decrease of airflow or of a low battery charge. The ergonomic design, low weight and slim profile of the unit guarantee a high level of user's comfort, even in environments where the movement scope is limited. The unit is compatible with a wide range of CleanAIR® headpieces for various industrial applications.

Features & Benefits:

- Lightweight and ergonomic
- Slim profile of the unit – only 65 mm
- Versatile in use – filtration of particulates as well as gases/vapours
- Simple one-button operation with a new clear display
- Built-in barometric sensor with automatic adjustment of air flow depending on altitude
- Adjustable airflow at four levels: 160/175/190 and 210 lpm
- Flow Control system maintains constant airflow regardless of the level of filter clogging or battery charge
- Operation time up to 20 hours with Heavy Duty battery, or up to 10 hours with standard battery
- Short battery recharging time < 3 hours (standard battery)
- Audio, visual and vibrating alarm indicating a low airflow or a low battery charge
- Unique filter design ensures the perfect seal by every filter change

Technical data	
Air flow	160 lpm and 210 lpm
Operation time*	up to 10 hours with Standard battery more than 20 hours with Heavy Duty battery
Weight	980 g (incl. standard battery)
Noisiness	max. 70 dB
Dimensions	235 mm / 126 mm / 65 mm
Battery Standard	Li-Ion 14,4 V / 2,6 Ah
Battery Heavy Duty	Li-Ion 14,4 V / 5,2 Ah
Certification	EN 12941 TH3

* Measured with airflow 160 lpm, fully charged battery and clean particle filters



Chemical 2F

Despite its compact design and low weight, Chemical 2F is characterized by outstanding durability, chemical resistance and increased ingress protection. The thought-out design with a smooth surface allows easy decontamination by shower or even full immersion. The unique automatic closing system prevents unwanted contamination while the filters are being changed. The smart Flow Control system maintains the airflow on the constant level regardless filter clogging or low battery charge. Audiovisual alarm indicates when the battery charge and/or filter replacement is required. Adjustable airflow from 120 up to 235 lpm is available during the whole shift no matter of the type of the filter thanks to optional Heavy Duty battery.

Features & Benefits:

- Compact design and low weight
- Compatible with a hood, mask or ventilated protective suit
- High mechanical and chemical resistance
- Increased ingress protection allows decontamination by shower or even full immersion (IP64/IP65/IP68)
- Full colour display clearly shows all the relevant information – filter clogging, battery charge, airflow
- Flow Control system maintains constant airflow regardless of the level of filter clogging or battery charge
- Operation time up to 16 hours with Heavy Duty battery, or up to 10 hours with standard battery
- Short battery recharging time < 3 hours (standard battery)
- Audiovisual alarm
- Multilingual user interface
- Back harness available for increased comfort

Technical data	
Air flow – adjustable	120-235 lpm
Operation time*	up to 10 hours with Standard battery more than 16 hours with Heavy Duty battery
Weight	960g (including battery)
Noisiness	max. 62 dB
Dimensions	240 mm / 110 mm / 120 mm
Battery Standard	Li-Ion 14,4 V / 2,6 Ah
Battery Heavy Duty	Li-Ion 14,4 V / 5,2 Ah
Certification	EN 12941 TH3, EN 12942 TM3



Pressure Flow Master

CleanAIR® Pressure Flow Master systems create a constant airflow in hoods and masks and are therefore suitable for long-term work in the heaviest industrial environments. The regulator on the belt unit can adjust the amount of air coming from the central compressed air distribution system or a compressor and keeps it at a constant level without regard to the changes of inlet pressure.

Features & Benefits:

- Low weight
- Economical operation
- High levels of airflow
- Warning low pressure system
- Option of filtration of supplied air with CleanAIR® Conditioner
- Compatible with a wide range of CleanAIR® headtops

Technical data	
Air flow – adjustable	160–250 lpm
Inlet pressure	400–1 000 kPa
Weight	280 g
Inlet connection	Inlet connection
Outlet connection	CA40×1/7"
Certification	EN 14594, class 3B



Short Hood CA-1

This short light hood is an optimal solution for respiratory protection and face protection in dusty and light chemical environments where no further mechanical protection is required. In combination with PAPR or airline systems CleanAIR® it reaches the highest level of respiratory protection. It perfectly fits to various head types due to adjustable headgear and comfortable elastic rubber band. The distance of the visor can be set individually, as well as the perimeter of the headgear. The light nylon fabric and spacy cut makes it pleasant to wear even for long time work. The wide panoramic visor with antifog coating ensures undisturbed view and provides basic mechanical protection of the eyes.

Features & Benefits:

- Superior breathing protection
- Wide visor with antifog coating
- Individual headgear settings – adjustable perimeter and distance from the visor
- Pleasant to wear due to the spacy cut and light weight durable material
- Basic mechanical protection of the eyes
- Practical reflective tab on the top
- Longer option CA2 covering neck available



Long Hood CA-2

This long light hood ensures respiratory protection and protection of the head, neck and shoulders in dusty environments where no further mechanical protection is required. In combination with PAPR or airline systems CleanAIR® it reaches the highest level of breathing protection. It perfectly fits to various head types due to adjustable headgear and comfortable elastic rubber band. The distance of the visor can be individually set, as well as the perimeter of the headgear. The light nylon fabric and spacy cut makes it pleasant to wear even for long time work. The wide panoramic visor with antifog coating ensures undisturbed view and provides basic mechanical protection of the eyes.

Features & Benefits:

- Superior respiratory protection
- Wide visor with antifog coating
- Individual headgear settings – adjustable perimeter and distance from the visor
- Pleasant to wear due to the spacy cut and light weight durable material
- Provides full protection of the eyes according to EN 166
- Practical reflective tab on the top
- Protection of the upper part of the body



UniMask®

The highest level of breathing protection with enhanced inner airflow regulation and a visor with excellent optical and mechanical features make this universal light face shield a true leader of its class. UniMask is light (just 380 g) and offers excellent user's comfort – the inner airflow regulation allows the user to set direction and intensity of the air to be delivered to the face or directly into the breathing zone. The users can opt for a soft textile or a neoprene face seal according to their preferences. The visor provides clear and undisturbed view of the highest quality (class 1 according to EN 166), high mechanical resistance and anti-fog coating. UniMask is easy to use and all spare parts are quickly and easily removable which enables fast and simple maintenance.

Features & Benefits:

- The highest class of breathing protection TH3.
- Enhanced inner airflow regulation.
- Light weight – only 380g.
- Excellent optical quality EN 166 class 1.
- High mechanical resistance of the visor.
- Anti-fog coating.
- Safety helmet compatible.
- Neoprene or textile face seal option.
- Easy to use and adjust.
- Fast and simple maintenance.



Safety Helmet CA-40GW

Multi-purpose safety helmet with a welding and grinding shield provides 5 levels of protection at once: eye, face, head, respiratory and optional hearing protection. Stable flip-up is compatible with auto-darkening filters or passive filters in dimension of 110x90 mm. Superb quality visor with anti-fog / anti-scratch coating guarantees excellent field of vision and increased durability. The easy to change DIN4 or DIN5 visor expand the system to the perfect protector for efficient Plasma or Oxy cutting. The product is suitable for the most challenging welding tasks including welding preparations (positioning, clamping) and further surface operations (grinding, cleaning, polishing).

Features & Benefits:

- Multiple protection – 5 levels of protection at once: eye, face, head, respiratory and optional hearing protection.
- Easy to wear, easy to use and easy to maintain system.
- Compatible with ADFs or passive filters 110x90 mm.
- Superb quality spherical visor guarantees an excellent field of vision.
- Anti-fog coating prevents the visor from fogging.
- Anti-scratch coating increases the mechanical durability of the visor.
- Shade 4, shade 5 and yellow visors available.
- Enhanced robustness – protection against high-speed particles with HIGH energy.
- In-built air distribution system.
- The highest standard in respiratory protection – TH3.



Protective Shield CA-4

This popular light protective shield with a wide acetate visor provides respiratory protection and face protection against splashing chemicals. The visor offers a broad and clear field of vision, high chemical resistance and protection against liquid spraying.

Attention! There are two types of shield acetate and polycarbonate. Acetate type of visor is not recommended for grinding operations. It provides protection against liquid spraying in accordance with the standard EN 166.

Features & Benefits:

- Combined respiratory protection and protection of the head, face and ears.
- Wide field of vision.
- Anti-fog coating.
- Comfortable adjustable headgear.



Omnira COMBI Air

Autodarkening welding helmet with an advanced built-in air distribution system and flip-up welding shield. Provides protection of the user's eye and face from harmful radiation including visible light, ultra-violet (UV), infra-red (IR) radiation, hot sparks and spatters resulting from arc welding and cutting. At the same time it provides protection against high speed particles.

Features & Benefits:

- The flip-up front can be lifted up whenever the wide undisturbed view is needed
- The flip-up system allows you to switch between welding and grinding without compromising respiratory protection
- The highest respiratory protection and more comfort thanks to an advanced built-in air distribution system
- True colour ADF with the highest optical quality 1/1/1/1
- Fast and easy replacement of all spare parts



iEvac®

The iEvac® Hood has twin cartridges for easier breathing. The iEvac® Hood will provide up to 15 minutes for a safe evacuation from carbon monoxide.

Features

- Maintenance-free
- At 9.5 in. (240mm) can withstand up to 1700°F (927°C) in radiant heat
- Twin cartridges for easier breathing
- Improved field of view than with single cartridge 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
- Latex-free
- One universal size

The iEvac® Protects against:

- Carbon Monoxide
- Hydrogen Sulfide
- Additional Toxic Gases: sarin, smoke, hydrogen cyanide, chlorine, ammonia, sulfur dioxide, tear gas, OC, and more
- Harmful Particulates: soot, fumes, aerosols, and others
- Contains a HEPA P100 filter that removes sub-micron particles such as ebola, anthrax, ricin, smallpox, and radioactive particles
- Life-Threatening Physical Hazards: flammability and radiant heat

iEvac is currently being used nationwide by federal, state, local government agencies, all branches of the military, Fortune 500 companies, transit authorities, sporting arenas, marine, aviation, hospitals, homeowners and more. iEvac has also achieved overwhelming acceptance internationally for its groundbreaking technological advantages and is currently being used in over 40 countries.



Poliblitz ABEK 15

In the event of unexpected and sudden presence of toxic substances at workplace and anywhere, heavy damage could occur to whom who have to breath contaminated air. The immediate use of protective devices can easily assure the user breathable air, provided the oxygen level in the environment is enough. The sooner is the donning of the device, the lesser the damage for the user will be.

The respirator is available in POLIBLITZ ABEK 15 "Ex" version: ATEX approved, according to the 94/9/EC ATEX Directive. It is suitable for use in potentially explosive atmospheres. The device is of Group II (for civil and industrial environments); Category 1, for 0 and 20 zones (by far the zones with the highest risk of explosion).

- One size fits all faces.
- Very quick donning.
- Equipped with exhalation valve.
- Its protection can be completed by a pair of gas goggle Type 888.
- The filter can be replaced after use.
- Weight: approx. 410 g



Blitz 15

BLITZ 15 is an escape device with ABEK filter, equipped with a mouthpiece and a nose clip. It protects against industrial gases and vapours.

BLITZ 15 protects respiratory organs from organic vapours and gases with a boiling point higher than 65 °C, inorganic vapours and gases, acidic and basic vapours and gases.

- Protection is limited with respect to compounds with a boiling point lower than 65°C and in highly toxic concentrations.
- The device does not protect from carbon monoxide or oxygen lack, since it does not provide oxygen.
- The duration of respirator Blitz 15 is 15 minutes.



Sèkur escABEK

In the event of unexpected and sudden presence of toxic substances at workplace and anywhere, heavy damage could occur to whom who have to breath contaminated air. The immediate use of protective devices can easily assure the user breathable air, provided the oxygen level in the environment is enough. The sooner is the donning of the device, the lesser the damage for the user will be.

- This device is for a single use only.
- The duration of respirator Sèkur escAPE is 15 minutes.
- Weight:
 - Product ready to use: 360gr
 - Product with carrying case: 500gr



Sèkur escCAPE

In the event of unexpected and sudden presence of toxic substances at workplace and anywhere, heavy damage could occur to whom who have to breath contaminated air. The immediate use of protective devices can easily assure the user breathable air, provided the oxygen level in the environment is enough. The sooner is the donning of the device, the lesser the damage for the user will be.

Sèkur escABEK is a disposable escape device, with a mouthpiece and a hood, especially developed for the evacuation from industrial areas in case of chemical accidents.

Sèkur escABEK è available in 2 configurations:

- EscABEK P 15: protects against gases and dusts (class P2);
- EscABEK P3 15: has been additionally certified in conformity to EN 14387, thus resulting an A1B1E1K1 P3 filter device;
- Both devices do not protect against carbon monoxide;
- The duration of respirator Sèkur escABEK is 15 minutes.
- Total weight is 450 grams.

Respiratory Protection

PARTICLE FILTERS - Particle filters trap and hold particles (solid and liquid aerosols including dust, mist, smoke, microorganisms) from the air flowing through. Particle filters are classified according to their efficiency and are marked with letter „P“ followed with a number indicating efficiency, or the level of protection provided.

Particle filter classification according to EN 143

Class	Efficiency (%)	NPF	Maximum permitted penetration		Assigned protection factor*		
			NaCl	Paraffin oil	D	FIN	UK
P1	Low (80,00%)	5	20 %	20 %	4	4	4
P2	Medium (94,00%)	16	6 %	6 %	15	15	10
P3	High (99,95%)	2 000	0,05 %	0,05 %	500	400	40

GAS / VAPOUR FILTERS - These filters are designed to remove gases or vapours as specified by the manufacturer. Gas / vapour filters are classified according to their capacity and the type of substance(s) they can be used against to. Their capacity refers to how much of the specified contaminant they can sorb (as measured in a laboratory test at set conditions). In general we can say, that gas filters of Class 2 may be used at higher concentrations or for a longer time than class 1 filters.

COMBINED FILTERS - Combined filters provide protection against both hazardous gases and vapours as well as particles

Gas / combined filter capacity requirements

Classification	EN 14 387 negative pressure respirators			EN 12 941, EN 12 942 powered air purifying respirators		
	Class 1	Class 2	Class 3	Class 1	Class 2	Class 3
Capacity	LOW	MED	HIGH	LOW	MED	HIGH
Concentration of the test gas	0,1 %	0,5 %	1,0 %	0,05 %	0,1 %	0,5 %

Filter type	Test gas	Minimum breakthrough time			Minimum breakthrough time		
A	Cyclohexane C6H6	70 min	35 min	65 min	70 min	70 min	35 min
B	Chlorine Cl2	20 min	20 min	30 min	20 min	20 min	30 min
	Hydrogen sulphide H2S	40 min	40 min	60 min	40 min	40 min	40 min
	Hydrogen cyanide HCN	25 min	25 min	35 min	25 min	25 min	35 min
E	Sulphur dioxide SO2	20 min	20 min	30 min	20 min	20 min	20 min
K	Ammonia NH3	50 min	40 min	60 min	50 min	50 min	40 min

Special filters

Filter type	Test gas	Test gas concentration	Minimum allowed breakthrough time
AX	Dimethyl ether	0,05 v%	50 min
	Isobutane	0,25 v%	50 min
Hg-P3	Mercury, Hg vapour	1,6 ml/mg	100 hour
NOP	NO, NQ	0,25 v%	20 min

Table: Quick selection of the filter

Work activity		Filter class
Spraying	Solvent-based varnishes	AP
	Synthetic lacquers	AP
	Isocyanate colors	AP
	Dispersion paint	AP
	Agricultural pesticides and insecticides	AP
Handling of these substances	Fungi / spores from mushrooms	P
	Bacteria, Viruses	P
	Soot from diesel / smoke	P
	Cleaning with technical petrol/gasoline	AP
	Adhesive glue with organic soluble content	AP
	Acidic gases like H ₂ S, SO ₂ and HCl	BEP
	Sulfur dioxide	ABEP
	Hydrochloric acid (hydrochloric acid)	ABEP
	Mixture of solid and liquid feces	ABEKP
	Ammonia	ABEKP
	Storage / transport of dangerous substances	ABEKP
Other	Mercury and its compounds	ABEKHgP
	Asbestos remediation	P
	Industrial dust	P
	MIG & MAG welding / plasma cutting	P

HOW LONG DOES THE FILTER LAST?

The service life of a filter depends on its size (active surface of particle filter media and/or volume of charcoal), conditions of use and following factors:

- Type, characteristics and concentration of the contaminants
- Breathing volume and work rate
- Air humidity
- Temperature

The minimum breakthrough times given are intended only for laboratory tests under standardized conditions. They do not give an indication of the possible service time of the filter in practical use. Possible service times can differ from the breakthrough times determined according to this document in both directions, positive and negative depending on the conditions of use.

The end of service life can be recognized by

Particle filter - Increased breathing resistance of the filter. Drop of the air flow, or triggering the „low airflow“ alarm when used in combination with PAPR.

Gas filters - *A noticeable taste or smell of the contaminant.

Combined filters - *A noticeable taste or smell of the contaminant and/or increased breathing resistance of the filter. A noticeable taste or smell of the contaminant and/or drop of the air flow, or triggering the „low airflow“ alarm when used in combination with PAPR.

* Does not apply when the contaminant does have low warning properties

Colour code	For use against
Brown A	Organic gases and vapours (boiling point above 65 °C) Class 1, 2, 3
Brown AX	Organic gases and vapours (boiling point at or below 65 °C) Single use only; AX filters are only specified for one class
Grey B	Inorganic gases and vapours Class 1, 2, 3 Do not use against carbon monoxide
Yellow E	Acid gases Class 1, 2, 3
Green K	Ammonia and its organic derivatives Class 1, 2, 3
White P	Particles Class 1, 2, 3
Red Hg	Mercury Must include P3 particle filter. Maximum use time 50 hours Special filter are only specified for one class
Black CO	Carbon Monoxide
Blue NO	Nitrous gases, including nitrogen monoxide

Table: Filter selection based on a welding method

Material to be welded	Well ventilated environment	Environment with limited ventilation	Restricted space
Aluminium	P	ABEP	SA
Stainless steel	P	ABEP	SA
Steel non-coated, lead based painted or galvanised	P	SA	SA
Steel coated with 2-component paints or cleaned with trichloroethylene	SA	SA	SA

Filter for UNIX Series

Purpose & Conditions of use:

UNIX series filters with bayonet connection are designed to clean the inhaled air from harmful vaporous and gaseous substances and particles as part of full face masks and half-masks of UNIX series. Filters are applied when the volume content of oxygen in the air is not less than 17%.

Available Range:

1. Gas filters of UNIX 500 series protect from one or more harmful substances.
2. Particle filters UNIX 223 P3 protect against particles and harmful gases and vapors up to 1 TLV.
3. Particle filters UNIX 303 P3 D filter of the closed type, designed for operation in conditions of high humidity.
4. Particle prefilters UNIX P1, P2, P3 together with gas filters of UNIX 500 series provide combined protection.

Join them with a retainer.

Guaranteed Shelf Life:

Gas filters of UNIX 500 series – 5.5 years

Particle filters UNIX 203 P3 D – 3.5 years

Particle filters UNIX P1, P2, P3, UNIX 223 P3 D, UNIX 303 P3 D – 5.5 years

Certificates:

1. Gas filters of UNIX 500 series : EN14387:2004+A1:2008.
2. Particle filters UNIX 203 P3 D, UNIX 223 P3 D, UNIX 303 P3 D, prefilters UNIX P1, P2, P3: EN143:2000 /A1:2006.



P1 R UNIX P1	P				
P2 R UNIX P2	P				
P3 R UNIX P3	P				
P3 R D UNIX 223	P				
A1 UNIX 501	A				
A2 UNIX 502	A				
K2 UNIX 512				K	
A1B1E1 UNIX 521	A		B	E	
A1B1E1K1 UNIX 531	A		B	E	K
A2B2E2 UNIX 522	A		B	E	

Filter for MAG Series

Gas filter DOT M 460 A1B1E1K2 + protection from carbon monoxide in set with full face mask MAG is intended for protection respiratory organs from harmful vapours and gases, including carbon monoxide.

Your benefits:

1. Saving of money.
2. Secure protection of health, and prevention of work-related deceases.

Advantages:

1. REUSABLE PROTECTION for carbon monoxide.
2. Highly efficient filtration due to unique technology of uniform distributing the absorbent particles inside the filter.
3. Handy bag for storage and carrying the filter.



A2 250 A2	A				
A2P3 RD 320 A2P3 RD	P	A			
HGP3 RD 320 HGP3 RD	P				Hg
K2P3 RD 320+ K2P3 RD	P			K	
A2B2E2 P3 RD 320+ A2B2E2 P3 RD	P	A		B	E
A2B2E2K2 P3 RD A2B2E2K2 P3 RD		A		B	E
A2B2E2 460+ A2B2E2		A		B	E
A2B2E2K2 460+ A2B2E2K2		A		B	E
A2B2E2-AX 460+ A2B2E2-AX		A	AX	B	E
A1B1E1K2 CO M460 A1B1E1K2 CO		A		B	E

CleanAIR® Filter

The complete production programme of CleanAIR® canister filters offers a wide choice of filters for most industrial applications, pharmaceutical industry, laboratories and agriculture. The filters are supplied with a standard connection thread RD40x1/7" according to EN 148-1.

Particle filters

They catch a wide range of solid particles in the form of liquid and solid aerosols such as dust, smoke, fibres, bacteria, viruses and radioactive particles. Certification: EN 143, EN 12941, EN 12942

Gas filters

Provide protection against contaminants in the form of gases and vapours. EN 14387, EN 12941, EN 12942

Combined filters

Provide protection against a combination of contaminants in the form of gases, vapours and solid particles. EN 14387, EN 12941, EN 12942



P3 50 00 48	P				
A2B2E2 50 01 63		A		B	E
A2P3 50 01 57	P	A			
A2B2P3 50 01 67	P	A		B	
K2P3 50 01 60	P				K
50 01 64 A2B2E2P3	P	A		B	E
50 01 68 A2B2E2K2P3	P	A		B	E
50 01 66 A2B2E2K2HGP	P	A		B	E















Legislation and European Standards

European Directives regarding personal protective equipment lay down the requirements that the equipment and their users must satisfy. The standards are used to draw up technical specifications that meet these new requirements. Directive 89/656/EEC (use) lays down the requirements that employers must meet with regard to the supply and use of PPE by their employees. Directive 89/868/EEC lays down the essential requirements for marketing protective gloves within the European Union. The whole Panindochina range is certified in compliance with these essential requirements, and is labelled with CE marking.

CE Certification Categories

- Category 1**
The manufacturer is responsible for the conformity of its products with respect to the essential requirements of the Directive.
- Category 2**
Certificate of conformity obtained from a notified body
- Category 3**
Certificate of conformity and regular production inspections on the manufacturer's premises by the notified bodies.

The following pictograms conform with European standards and will help you to understand the performance of the gloves:

Mechanical Protection	Chemical & Micro-Organisms Protection		Others	Thermal Protection	
<div><div><div>Mechanical Hazards EN 388</div><div></div><div><div>4 3 4 3 C (P)</div><div><div>↓</div><div>↓</div><div>↓</div><div>↓</div><div>↓</div><div>↓</div><div>↓</div><div>↓</div><div>↓</div><div>↓</div></div><div><div>Protection against impacts (P)</div><div>From A to F ISO 13997 cut resistance</div><div>From 0 to 4 Puncture resistance</div><div>From 0 to 4 Tear resistance</div><div>From 0 to 4 Couptest cut resistance</div><div>From 0 to 4 Abrasion resistance</div></div></div></div></div>	<div><div><div>Chemical Protection EN ISO 374-1</div><div><div>EN ISO 374-1 / TYPE A</div><div></div><div>U V W X Y Z</div><div>Resistance to penetration EN 374-2 Breakthrough time ≥30 min for at least 6 chemicals on the list (EN 16523-1)</div><div>Degradation test according to EN374-4 is undertaken without performance level requirement</div></div><div><div>EN ISO 374-1 / TYPE B</div><div></div><div>X Y Z</div><div>Resistance to penetration EN 374-2 Breakthrough time ≥30 min for at least 3 chemicals on the list (EN 16523-1)</div></div><div><div>EN ISO 374-1 / TYPE C</div><div></div><div></div><div>Resistance to penetration EN 374-2 Breakthrough time ≥30 min for at least 1 chemicals on the new list (EN 16523-1)</div></div></div><div><div>Letter Code</div><div><div>A Methanol B Acetone C Acetonitrile D Dichloromethane E Carbon disulphide F Toluene</div><div>G Diethylamine H Tetrahydrofuran I Ethyl acetate J n-Heptane K Sodium hydroxide 40% L Sulphuric acid 96%</div><div>M Nitric Acid 65 % N Acetic Acid 99% O Ammonia 25% P Hydrogen Peroxide 30% S Hydrogen Fluoride 40% T Formaldehyde 37%</div></div></div><div><div>Micro-Organisms Protection EN ISO 374-5</div><div><div></div><div>EN ISO 374-5</div><div></div><div>VIRUS</div></div><div><div>The gloves must pass the penetration resistance test EN 374-2.</div><div>If virus protection is claimed, glove has to pass ISO 16604 method B (Phi-X174 bacteriophage)</div></div><div><div>For gloves protecting against bacteria and fungi.</div><div>For gloves protecting against bacteria, fungi and viruses.</div></div></div></div>	<div><div><div>Radioactive Contamination EN 421</div><div></div><div>With No Performance Levels</div><div>Protection Against Pesticides ISO 18889</div><div><div></div><div>G1 ISO 18889</div><div>Resistance to diluted pesticides/no mechanical risk</div></div><div><div></div><div>G2 ISO 18889</div><div>Resistance to diluted & concentrated pesticides/mechanical risk</div></div><div><div></div><div>GR ISO 18889</div><div>Re-entry tasks</div></div></div><div><div>Protection Against Static Electricity EN 16350</div><div></div></div></div>	<div><div><div>Cold Hazard EN 511</div><div></div><div>3 2 1</div><div><div>↓</div><div>↓</div><div>↓</div><div>↓</div><div>↓</div><div>↓</div><div>↓</div><div>↓</div><div>↓</div><div>↓</div></div><div><div>0 or 1 Water permeability</div><div>0 or 4 Contact cold resistance</div><div>0 or 4 Convective cold resistance</div></div></div><div><div><div>Heat And Fire EN 407</div><div><div></div><div>X 2 X X X X</div><div><div>↓</div><div>↓</div><div>↓</div><div>↓</div><div>↓</div><div>↓</div><div>↓</div><div>↓</div><div>↓</div><div>↓</div></div><div><div>From 0 to 4 Resistance to large quantities of molten metal</div><div>From 0 to 4 Resistance to small drops of molten metal</div><div>From 0 to 4 Radiant heat resistance</div><div>From 0 to 4 Convective heat resistance</div><div>From 0 to 4 Contact heat resistance</div><div>From 0 to 4 Limited flame spread</div></div></div></div></div></div>		

Different cuff edging
Depending on your use

- 

Safety cuff
Protects the wrist, ease of removal, ventilation of the hand.
- 

Knitted wrist
Protects the wrist and stays firmly on the hand.
- 


Straight cuff
Better ventilation of the hand.
- 


Rolled cuff
Increased resistance to tearing when putting gloves on.
- 


Scalloped cut
Long-lasting life.

Shapes, size
and thicknesses

- Glove length**
They must be chosen in accordance with the risks associated with the handling circumstances, to give more or less protection to the forearm. They generally vary between 22 and 60 cm


- Glove size**
This depends on the circumference of the user's palm and varies from size 5 to 12. This affects usage comfort


- Glove thickness**
This influences the user's dexterity and the performance



A number of external finishes
according to your needs

-  **Smooth**
Does not mark the handled objects
-  **Non-slip embossing**
Excellent grip in oily environments
-  **Pebbled**
Good grip and minimal glove fouling
-  **Reinforced grip**
Excellent grip in wet environment
-  **Dot embossing**
Improved thermal insulation

Textile types

- Cotton:**
Comfort, thermal insulation and absorption of perspiration.
- Polyamide:**
Optimised dexterity (thin, seamless).
- Para-aramide (Kevlar® or Twaron®):**
Blade cut and fire resistant.
- High density polyethylene (Dyneema® or Spectra®):**
Comfortable and blade cut resistant.

Anatomical
or ambidextrous gloves

- Powdered**
Helps when putting on and taking off the gloves without increasing the thickness.
- Chlorinated**
Powder-free treatment which helps when putting on and taking off the gloves without increasing the thickness. Reduces the risk of allergy from natural latex gloves.
- Flocked**
Cotton based textile fibres on the inside of the gloves. Fleeced feel. Good absorption of perspiration for extended use.
- Textile support**
Knitted interior made from cotton or synthetic materials to increase comfort. Particularly suitable for long-term work.

CHEMICAL PROTECTION

Chemical hazards are not confined to the chemical industry. Many people, in a variety of sectors, are faced with chemical risks when handling products which are aggressive to a greater or lesser extent (oils, acids, solvents, etc.).

More than 100,000 chemical substances are now classified (identified by their CAS number).

In order to meet the wide variety of aggressive situations that exist, Mapa Professional offers a wide range of protective gloves designed using polymers, which behave differently and provide different protection according to the situation.

The results of chemical testing and the different chemical classification indices must not be seen as the only factors when selecting a glove.

Actual usage conditions, the contact time with a given chemical, the concentration, the temperature, the usage frequency of a glove and the care conditions can affect glove performance.

All of these factors should be taken into account when choosing the right glove.



Refer to our dynamic database, which is constantly updated, and download the chemical resistance tables for our gloves.

THE MAPA GUIDE: 2 PERFORMANCE INDICATORS

To characterise the performance of the elastomers and plastics used to manufacture safety gloves, tests are carried out to determine the behaviour of these materials when confronted with the various families of chemical products.

Mapa Professional takes these different parameters into account to determine the relative performance of the different families of gloves and hence help you make the best possible choice.

1. PERMEATION TIMES

The permeation time for a given chemical product, i.e. the time taken for the chemical to penetrate the glove, at a molecular level; in some cases, there is no visible deterioration of the glove.

2. DEGRADATION INDEX

The degradation index of the glove in contact with a given chemical product, i.e. the degree of deterioration of the glove shown by an alteration of its physical properties (e.g. softening, hardening, etc.)

SELECT THE MOST APPROPRIATE CHEMICAL GLOVE FOR YOUR NEEDS USING THE THREE STAGES BELOW:

1 Identify which family of chemical products the substance you are handling belongs to ▼

2 Determine the most appropriate protective material for your specific application. ▼

3 Choose your gloves according to the level of protection you require.

			PVC	NATURAL LATEX	NITRILE	POLY-CHLOROPRENE	BUTYL	FLUORO-ELASTOMER
			Common polymers*				Specific polymers**	
			RECOMMENDATION BY MANUFACTURER	• Light protection	•• Strong protection	••• Optimal protection		
ALCOHOLS (methanol 100%)	67-56-1	A		•	•	••	•••	••
KETONE (acetone 100%)	67-64-1	B	•			•	•••	
NITRILES (acetonitrile methyl cyanide 99%)	75-05-8	C				•	•••	•
CHLORINATED SOLVENTS (methylene chloride/dichloromethane 99%)	75-09-2	D						•
SULPHUR-BASED CHEMICALS (carbon disulphide 100%)	75-15-0	E			•			•••
AROMATIC SOLVENTS (toluene 100%)	108-88-3	F			•			•••
AMINES (diethylamine 98%)	109-89-7	G			•			••
ETHERS (tetrahydrofuran (THF) 100%)	109-99-9	H			•	•	•	
ESTERS (ethyl acetate 99%)	141-78-6	I			•	•	•••	
ALIPHATIC SOLVENTS (heptane 99%)	142-82-5	J	•		•••	••		•••
ALKALIS(sodium hydroxide (soda) 40%)	1310-73-2	K	•••	•••	•••	•••	•••	•••
OXIDISING ACID (sulphuric acid 96%)	7664-93-9	L	•	•		••	•••	•••
OXIDISING ACID (nitric acid 65%)	7697-37-2	M	•	•••		•••	•••	•••
ORGANIC ACID (acetic acid 99%)	64-19-7	N	•	•		•••	•••	••
ORGANIC BASE (ammonia 25%)	1336-21-6	O			••		•••	••
PEROXIDE (hydrogen peroxide 30%)	7722-84-1	P		•••		•••	•••	•••
HYDROFLUORIC ACID (hydrogen fluoride 40%)	7664-39-3	S		•••		•••	•••	••
ALDEHYDE (formaldehyde 37%)	50-00-0	T	•••	•••	•••	•••		•••
* The most frequently used materials for manufacturing chemical protection gloves			Value for money Mechanical strength	Excellent flexibility Good puncture and tearing resistance Suitable for cold environments	Good puncture and abrasion resistance No risk of protein-related allergies	Good flexibility Good thermal resistance	Excellent chemical resistance Flexible and elastic	High chemical resistance
** Protection targeted against certain aggressive chemical product families, these are more stringent than for standard materials			Not suitable for handling hot parts	Risk of allergies caused by the proteins in the natural latex	Not recommended for cold environments	Poor mechanical properties	Poor mechanical properties	



9500

DISPOSABLE GLOVES

Disposable nitrile glove extra grip with full textured finishing

Features:

- Premium grade nitrile provides superior protection against harmful chemical splashes
- Unique full texture further enhances grip and tactile sensitivity for safer and more efficient processes in wet or dry
- Superior fitting to prevent hand fatigue
- Chlorination process provides more comfort and reduce tackiness
- Reduce the risk of contamination with silicon-free feature

Materials:	Nitrile
Length:	24 cm
Thickness:	0.10 mm
Interior finish:	-
Exterior finish:	Nitrile
Size:	7 8 9 10

Standards:	EN ISO 374-1 Type B KPT	EN ISO 374-5 VIRUS	CAT.3 CE 2777
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SOLO 977

DISPOSABLE GLOVES

The best chemical protection in disposable range : the compromise between protection and dexterity

Features:

- Good compromise between thickness, suppleness and resistance
- Good grip due to the embossed texture
- Suitable for a wide range of chemical (see the chemical resistance chart)
- Silicone free to prevent traces, defects on metal sheet and glass prior to painting
- Chlorinated for a better doning

Materials:	Nitrile
Length:	24 cm
Thickness:	0.13 mm
Interior finish:	Chlorinated
Exterior finish:	Pebbled
Size:	6 7 8 9 10

Standards:	EN ISO 374-1 Type B JKT	EN ISO 374-5 VIRUS	ISO 18889 G1 CE 0334
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SOLO 997

DISPOSABLE GLOVES

Excellent mechanical resistance, ideal in oily environments

Features:

- Excellent dexterity thanks to flexibility and reduced material thickness
- Recommended for oily environments in industry
- Worn alone or as an outer-glove

Materials:	Nitrile
Length:	24 cm
Thickness:	0.10 mm
Interior finish:	Chlorinated
Exterior finish:	Smooth with pebbled fingertips
Size:	6 7 8 9

Standards:	EN ISO 374-1 Type B JKT	EN ISO 374-5 VIRUS	CAT.3 CE 0334
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CT-125

CHEMICAL GLOVES

Excellent performance against chemical permeation & durability in handling chemical with confident.

Features:

- Provides chemical resistance against a broad range of solvents, oils, animal fats and other chemicals
- For long lasting mechanical resistance
- Diamond finish grip makes wet work easier and safer
- Ergonomic design maximizes comfort

Materials:	Cotton flock, Unsupported
Length:	33 cm
Thickness:	0.40 mm
Interior finish:	-
Exterior finish:	Nitrile
Size:	7 8 9 10

Standards:	EN ISO 374-1 Type B AJKLPT	EN ISO 374-5 VIRUS	EN 388 4101X CE 2777
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CT-135

CHEMICAL GLOVES

Unsupported cotton flocked liner coated on 100% nitrile with textured finishing

Features:

- Provides chemical resistance against a broad range of solvents, oils, animal fats and other chemicals
- For long lasting mechanical resistance
- Bisque finish grip makes wet work easier and safer
- Ergonomic design maximizes comfort

Materials:	Cotton flock, Unsupported
Length:	33 cm
Thickness:	0.40 mm
Interior finish:	-
Exterior finish:	Nitrile
Size:	7 8 9 10

Standards:	EN ISO 374-1 Type B JKLOPT	EN ISO 374-5 VIRUS	EN 388 4101X CE 2777
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ULTRANITRIL 492

CHEMICAL GLOVES

Good mechanical resistance and long-lasting chemical protection

Features:

- Dexterity and comfort, due to the anatomical shape and the quality of the flock-lining
- Longer service life: excellent mechanical resistance (abrasion, perforation)
- Silicone free to prevent traces, defects on metal sheet and glass prior to painting



ULTRANITRIL 480

CHEMICAL GLOVES

Ultra-long chemical protection

Features:

- Longer service life: excellent mechanical resistance (abrasion, perforation)
- Good grip on slippery objects, due to the embossed texture
- Excellent protection during intensive handling of high-risk chemical products
- Silicone free to prevent traces, defects on metal sheet and glass prior to painting



ULTRANE0 450

CHEMICAL GLOVES

Extremely supple with freedom of movement for standard chemical protection

Features:

- Freedom of movement, due to the supple quality of the neoprene and the comfort of the cotton flock-lining
- Good grip due to the embossed texture



BUTOFLEX 651

CHEMICAL GLOVES

Ultimate specific chemical resistance

Features:

- In compliance with the requirement of the norm EN 16350, standard for protective gloves - Electrostatic properties : <1.0 10E5
- Unrivalled flexibility and dexterity
- Ultimate specific chemical resistance, for very corrosive acids, ketones, esters and amine derivatives
- Silicone free to prevent traces, defects on metal sheet and glass prior to painting
- The only Butyl glove on the market with an exclusive embossed exterior finish, meaning slippery objects can be handled without risk.



ULTRANITRIL 381

CHEMICAL GLOVES

Maximum comfort and chemical protection

Features:

- Added comfort and thermal insulation, due to the cotton-knit lining
- Extremely supple, due to the unique Mapa multi-layer process
- Good grip on slippery objects, due to the embossed texture
- Silicone free to prevent traces, defects on metal sheet and glass prior to painting

Materials:	Nitrile			
Length:	32 cm			
Thickness:	0.38 mm			
Interior finish:	Flocked			
Exterior finish:	Embossed texture			
Size:	6 7 8 9 10 11			
Standards:	EN 374-1 Type A AJKOPT	EN 374-5 VIRUS	EN 388 3101X	CAT.3 ISO 18889 0334 CE

Materials:	Nitrile			
Length:	46 cm			
Thickness:	0.55 mm			
Interior finish:	Chlorinated			
Exterior finish:	Embossed texture			
Size:	7 8 9 10 11			
Standards:	EN 374-1 Type A AJKOPT	EN 374-5 VIRUS	EN 388 4102X	CAT.3 ISO 18889 0334 CE

Materials:	Polychloroprene and natural latex			
Length:	41 cm			
Thickness:	0.75 mm			
Interior finish:	Flocked			
Exterior finish:	Embossed texture			
Size:	7 8 9 10 11			
Standards:	EN 374-1 Type A ALMNST	EN 374-5 VIRUS	EN 388 2121X	CAT.3 0334 CE

Materials:	Butyl			
Length:	37 cm			
Thickness:	0.56 mm			
Interior finish:	Smooth			
Exterior finish:	Embossed texture			
Size:	7 8 9 10			
Standards:	EN 374-1 Type A ABCILMNOS	EN 374-5 VIRUS	EN 388 0010X	EN 16350 0334 CE

Materials:	Nitrile			
Length:	36 cm			
Thickness:	0.95 mm			
Interior finish:	Textile support Mapa Technology			
Exterior finish:	Embossed texture			
Size:	7 8 9 10 11			
Standards:	EN 374-1 Type A AJKLOPT	EN 374-5 VIRUS	EN 388 3111A	EN 407 X1XXXX ISO 18889 0334 CE



ULTRANITRIL 410

CHEMICAL & CUT GLOVES

Ideal glove for operations where cut & chemical protection are required

Features:

- Moderate cut protection for safety work
- Excellent grip when handling very oily parts that prevents risk from dropping object and reduce muscle fatigue
- Exceptionally comfortable fabric lining, and seamless knit
- Added comfort and flexibility, good mechanical resistance
- Great durability and long-lasting use
- Excellent abrasion resistance due to the nitrile and pvc coating
- High-visibility liner to warn the wearer when the chemical barrier is damaged reinforced protection of the forearm thanks to its longer cuff



Materials: Nitrile and PVC

Length: 35 cm

Thickness: -

Interior finish: Seamless textile support

Exterior finish: Non-slip grip

Size: 7 8 9 10 11

Standards: EN 374-1 Type A KLMNPT EN 388 4X31C EN 407 X1XXXX A3 CUT ISO 13997: 14N (1427G)

ULTRANE 500

MECHANICAL GLOVES

Grip and skin protection for oily environments.

Features:

- Color adapted to dirty environments for a prolonged durability.
- Excellent abrasion resistance due to the nitrile coating
- Grip and Proof coating ensures an excellent grip in oily environment. It also reduces muscle strain and boost productivity
- Free of harmful substances: OEKO-TEX® STANDARD 100, DMF Free
- Oilproof, it repels oil penetration and reduce dermatitis
- Silicone free to prevent traces, defects on metal sheet and glass prior to painting
- Washable 3 times at 40°, to extend lifespan, reduce costs and waste



Materials: Nitrile GRIP&PROOF coating

Length: 22-27 cm

Thickness: -

Interior finish: Seamless textile support

Exterior finish: Ventilated back

Size: 6 7 8 9 10 11

Standards: EN 388 4121A EN 407 X1XXXX ISO 18889 CAT.3 CE 0334

ULTRANE 553

MECHANICAL GLOVES

Unbeatable for fingertip precision in dirty environments

Features:

- Excellent tactile sensitivity and freedom of movement, due to the reduced thickness of the glove
- Suitable for long-term wear : excellent abrasion resistance
- Nitrile coating resistant to dirt particles
- Free of harmful substances: DMF Free
- Silicone free to prevent traces, defects on metal sheet and glass prior to painting



Materials: Nitrile

Length: 46 cm

Thickness: -

Interior finish: Seamless textile support

Exterior finish: Ventilated back

Size: 5 6 7 8 9 10

Standards: EN 388 4121A CAT.3 CE 0334

C5PUD

CUT RESISTANT GLOVES

The Pro Choice Safety Gear range of hand protection is ideal for protection against risks associated with a wide range of applications in both workplace and recreational environments

Features:

- 13 gauge EN388:2016 Cut Level D seamless liner
- Excellent cut resistance without sacrificing comfort or dexterity
- Grey PU dip for comfort & dexterity
- Form fitting for comfortable all day wear
- Breathable liner



Materials: Grey Engineered Composite 15 Gauge

Length: 23.5-28 cm

Thickness: -

Interior finish: Grey Polyurethane (PU)

Exterior finish: -

Size: 7 8 9 10 11 12

Standards: EN 388 4X43D CAT.2 CE

KYTECH 582

CUT RESISTANT GLOVES

Special Grip&Proof nitrile coating provides better liquidproofness and grip in oily situations

Features:

- Optimal cut resistance
- Excellent abrasion resistance increases glove lifetime
- Grip and Proof coating ensures an excellent grip in oily environment. It also reduces muscle strain and boost productivity
- Silicone free to prevent traces, defects on metal sheet and glass prior to painting
- Washable up to 5 times at 60°C, allowing to extend glove lifespan, reducing costs and waste. Free of harmful substances: DMF Free
- Cut level easy to identify thanks to the marking on the back of the glove.



Materials: Nitrile

Length: 36 cm

Thickness: -

Interior finish: Textile support Mapa Technology

Exterior finish: Embossed texture

Size: 7 8 9 10 11

Standards: EN 388 4X43D CAT.2 CE A4 CUT ISO 13997: 18N (1835G)



TT555

CUT RESISTANT GLOVES

Excellent grip in light wet/oil condition with nitrile micro granular coating.

Features:

- Excellent grip performance in light wet/oil condition
- Superior cut protection with cut level D performance to prevent cut injury
- High abrasion resistance enhances durability and wear time
- Good dexterity for fine work
- Superior fitting for long working hours



TU540

CUT RESISTANT GLOVES

Good cut performance with comfort fit.

Features:

- Provide protection with cut level C/D to prevent cut injury
- Good grip performance in light wet/oil condition
- Good dexterity for fine work
- Cost effective and nicely fit to hands



TU550

CUT RESISTANT GLOVES

Superior cut performance with reinforce crotch for long lasting use.

Features:

- Provide protection with cut level C/D to prevent cut injury
- Good grip performance in light wet/oil condition
- Good dexterity for fine work
- Reinforced crotch for extra cut protection



KYTECH 643

CUT RESISTANT GLOVES

Comfort, Suppleness & breathability without any compromise on cut protection & durability Can be used with touch devices & touch screen

Features:

- A seamless plaited glove for a maximum comfort, dexterity and flexibility while providing optimal cut protection (Cut level ISO C)
- Extended use guaranteed by our exclusive process RESICOMFORT. Proven breathability, flexibility and durability of the coating.
- Free of harmful substances: OEKO-TEX® STANDARD 100, DMF Free
- Dermatologically approved
- Can be used with touch devices & touch screen
- Silicone free to prevent traces, defects on metal sheet and glass prior to painting
- Washable 1 time at 40°C
- Cut level easy to identify thanks to the marking on the back of the glove.



TEMPDEX 720

THERMAL RESISTANT GLOVES

Dexterity and resistance to cuts for optimised thermal protection

Features:

- Knitted aramide fibres ensures protection from cuts
- Comfort and insulation of the interior terry-cloth
- Longer service life: good abrasion resistance
- Special nitrile Grip coating facilitates work in moderately oily environments
- Free of harmful substances: DMF Free
- Silicone free to prevent traces, defects on metal sheet and glass prior to painting

Materials: 13 gauge HPPE + glass fiber

Length: 24 cm

Thickness: -

Interior finish: Nitrile micro granular

Exterior finish: Ventilated back

Size: 6 7 8 9 10 11

Standards: EN 388 CAT.2
4X42D CE

Materials: 13 gauge HPPE + glass fiber

Length: 24 cm

Thickness: -

Interior finish: PU

Exterior finish: Ventilated back

Size: 7 8 9 10 11

Standards: EN 388 CAT.2
4X42C CE

Materials: 13 gauge HPPE + glass fiber

Length: 24 cm

Thickness: -

Interior finish: PU

Exterior finish: Ventilated back

Size: 7 8 9 10 11

Standards: EN 388 CAT.2
4X42C CE

Materials: Nitrile foam sandy

Length: 23-28 cm

Thickness: -

Interior finish: Seamless textile support from HDPE fibres

Exterior finish: Reinforced grip

Size: 6 7 8 9 10 11

Standards: EN 388 CAT.2 EN 407
4X42C A3 CUT CE X1XXXX
ISO 13997: 13,5N (1325G) STANDARD 100
OEKO TEX CO 9792 IFTH

Materials: Nitrile

Length: 24-28 cm

Thickness: -

Interior finish: Knitted thermal protection

Exterior finish: Dots

Size: 7 9 11

Standards: EN 388 CAT.2 EN 407
4X43B A2 CUT CE X2XXXX
ISO 13997: 7N (714G)

Hand Protection



CGL41B

LEATHER GLOVES



- Finest quality cow grain leather
- Generous leather thickness for extra protection
- Supple feel for greater dexterity
- Wing thumb, stitch-free palm for increased durability and hand feel
- Sizes: S, M, L, XL, 2XL

Standards:



CGL41N

LEATHER GLOVES



- High quality grey cow grain leather
- Wing thumb, stitch-free palm for increased durability
- Colour coded cuff for size identification
- Sizes: S, M, L, XL

Standards:



A260

LEATHER GLOVES



- Made from high quality durable goat leather
- Breathable leather for use in mild and hot climates
- Elasticated cuffs for a secure fit
- Classic leather driver
- Leather palm greatly improves durability
- Durable leather

Standards:



GGL41CR

LEATHER GLOVES



- High Cut Level F protection.
- Premium goat grain leather provides durability and dexterity.
- Wing thumb, stitch free palm for increased durability and relaxed hand feel.
- Reinforced thumb crotch for increased wear point durability.
- Colour coded cuff for size identification.

Standards:



BRW16E

WELDERS GLOVES



- High quality red cow split leather
- Kevlar stitched to withstand high temperatures for longer periods
- Lined and welted
- Reinforced palm to first finger for added durability
- 406mm (16 inches) long for forearm protection
- One size fits all

Standards:



TIGW13

WELDERS GLOVES



- Excellent fit and feel for precision welding.
- Durable deerskin provides unmatched dexterity with lighter weight.
- Sewn with Kevlar thread for maximum seam strength.
- 340mm overall length with a 140mm cuff for added forearm protection.
- Available Sizes - L, XL.

Standards:



TIGWKEV

WELDERS GLOVES



- Supple goatskin leather - durable and tough
- Lined with fine gauge Kevlar interlock knit for precise fit
- Excellent touch sensitivity and dexterity
- Available Sizes - M, L, XL

Standards:



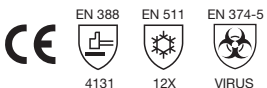
TGP

THERMAL PROTECTION GLOVES



- Removable acrylic wool liner for extra warmth & excellent protection in cold weather applications. Soft PVC gives superior feel.
- Sand Grip provides superior gripping power in wet & dry conditions.
- Extended cuff for extra wrist protection.

Standards:



Accessories for Gloves

GLOVE CLIP



- Upper plastic jaw allows securing to belt loop / pocket
- Lower plastic jaw allows gripping of gloves
- Link arm designed to breakaway in the event of glove entanglement
- Never misplace your gloves again

WALL BRACKET PLASTIC



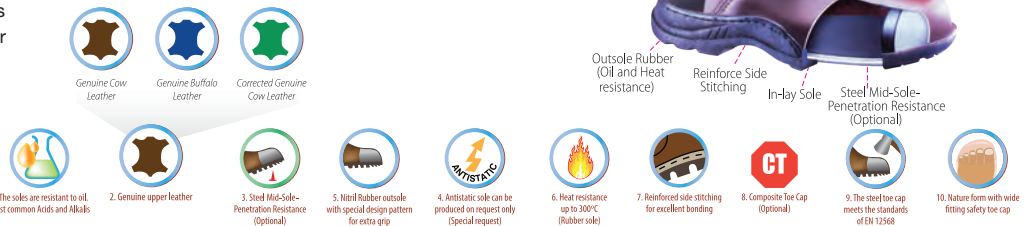
- Clear plastic, disposable glove wall bracket to dispense most Safety Gear disposable gloves
- Sold Individually

Does not suit Heavy Duty Glove Range

A pair of safety shoes (also known as safety boots) is personal protective equipment (PPE) for foot protection at workplaces. It prevents from getting foot injuries due to slippery surface, heavy falling or rolling objects, sharp piercing edges, pinch points, rotary machinery, hot objects, loops of ropes under tension, splinters, electricity, chemicals or even bad weather etc. Occupational Safety and Health Administration (OSHA) requires the employers to ensure that the employees use protective footwear while working in the areas where there are dangers of foot injuries.

Safety shoes come in many styles both formal or informal. However, workers require reliable and durable work shoes for their safety. Traditional safety shoes are steel toed, but it can also be made of composite materials such as thermoplastics and aluminum. Following considerations are to be made for selecting right type of safety shoes for the workers:

- Work environment and associated hazards
- Material used in safety shoes and their effectiveness to resistant hazards
- Water, heat and cold resistance
- Electric resistance
- Puncture and cut resistance



RM2-8839-11

Safety Shoes, Lace Up

Full grain leather.
Steel toecap and steel midsole.
High visibility reflective strips
Nitrile rubber outsole.
Size: 5-6-7-8-9-10-11-12.
Origin: Malaysia.
Steel toe cap, steel mid-plate, impact resistant, slip resistant, acid and alkali resistant, oil resistant, antistatic.
Standards: EN ISO 20344:2004, EN 12568 : 2010, EN 20345



M9-3308-11

Safety Ankle Boots, Lace Up

Full grain leather.
Steel toecap and steel midsole.
Nitrile rubber outsole.
Size: 4-5-6-7-8-9-10-11-12.
Origin: Malaysia.
Steel toe cap, steel mid-plate, impact resistant, slip resistant, acid and alkali resistant, oil resistant, antistatic.
Standards: EN ISO 20344:2004, EN 12568 : 2010, EN 20345



M9-8801-11

Safety Shoes, Ez Slip on

Full grain leather.
Steel toecap and steel midsole.
Nitrile rubber outsole.
Size: 4-5-6-7-8-9-10-11-12.
Origin: Malaysia.
Steel toe cap, steel mid-plate, impact resistant, slip resistant, acid and alkali resistant, oil resistant, antistatic.
Standards: EN ISO 20344:2004, EN 12568 : 2010, EN 20345



M2-8838-11

Safety Ankle Boots, Lace Up

Suede leather collar padding.
Steel toecap and steel midsole.
Nitrile rubber outsole.
Waterproof (with M2-8838-11-WPL).
Size: 4-5-6-7-8-9-10-11-12.
Origin: Malaysia.
Steel toe cap, steel mid-plate, impact resistant, slip resistant, acid and alkali resistant, oil resistant, antistatic.
Standards: EN ISO 20344:2004, EN 12568 : 2010, EN 20345



M2-8839-11

Safety Shoes, Lace Up

Suede leather collar padding.
Steel toecap and steel midsole.
Nitrile rubber outsole.
Waterproof (with M2-8839-11-WPL).
Kích cỡ: 4-5-6-7-8-9-10-11-12.
Origin: Malaysia.
Steel toe cap, steel mid-plate, impact resistant, slip resistant, acid and alkali resistant, oil resistant, antistatic.
Standards: EN ISO 20344:2004, EN 12568 : 2010, EN 20345



M2-8854-11

Safety Shoes, Lace Up

Safety ankle boot.
Full grain leather.
Steel toecap and steel midsole.
Nitrile rubber outsole.
Size: 5-6-7-8-9-10-11-12.
Origin: Malaysia.
Steel toe cap, steel mid-plate, impact resistant, slip resistant, acid and alkali resistant, oil resistant, antistatic.
Standards: EN ISO 20344:2004, EN 12568 : 2010, EN 20345



M9-3320-11

Safety Ankle Boots, Ez Slip on

Full grain leather.
Steel toecap and steel midsole.
Nitrile rubber outsole.
Size: 4-5-6-7-8-9-10-11-12.
Origin: Malaysia.
Steel toe cap, steel mid-plate, impact resistant, slip resistant, acid and alkali resistant, oil resistant, antistatic.
Standards: EN ISO 20344:2004, EN 12568 : 2010, EN 20345



M2-8828-08

Safety Ankle Boots, Lace Up

Full grain leather.
Steel toecap and steel midsole.
Nitrile rubber outsole.
Size: 5-6-7-8-9-10-11-12.
Origin: Malaysia.
Steel toe cap, steel mid-plate, impact resistant, slip resistant, acid and alkali resistant, oil resistant, antistatic.
Standards: EN ISO 20344:2004, EN 12568 : 2010, EN 20345



M9-3309-22

Safety Gumboots, Pull on

Full grain leather.
Steel toecap and steel midsole.
Nitrile rubber outsole.
Size: 4-5-6-7-8-9-10-11-12.
Origin: Malaysia.
Steel toe cap, steel mid-plate, impact resistant, slip resistant, acid and alkali resistant, oil resistant, antistatic.
Standards: EN ISO 20344:2004, EN 12568 : 2010, EN 20345



ChemDefend® 110

ChemDefend® 110 range of protective coveralls utilise the latest SMMS nonwoven technology, whereby two layers of meltblown polypropylene barrier films are sandwiched between structural spunbonded polypropylene outer layers. The polypropylene is spun to a fine dtex to create a high fibre density. This delivers a strong breathable material with excellent protection against particulate hazards. For the whole suit the Type 5 Total Inward Leakage figure TIL = 3.71 %.

Fabric Description: SMMS (Spunbond, Meltblown:Meltblown Spunbond).

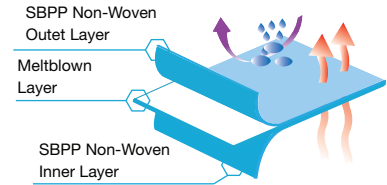
Fabric Weight: 50 gsm.

Seam Type: Stitched - a strong tight seam with high particle barrier properties.

Colour Options: White and Blue

Accessories

Lab Coats | Trousers | Aprons | Jackets | Sleeves | Overboots | Overshoes



- Suitable Applications:
- Dust and particle protection
 - Asbestos removal and handling
 - Handling and mixing of powders
 - General maintenance
 - Construction
 - Wood and Metal processing
 - Touch up paint spraying
 - Handling and mixing of pharmaceutical materials
 - Fibre glass and resin handling, application and mixing

Protection Levels & Additional Properties

TYPE 5-B | TYPE 6-B | EN 1073-2 | EN 1149-5



ChemDefend® 200

The ChemDefend® 200 range of protective coveralls are constructed from a microporous polyethylene barrier film, glued to a spunbonded polypropylene structural layer. This provides a strong and breathable material, with excellent repellency of liquid chemicals. The material is coated with an electrostatic dissipative layer.

Fabric Description: Microporous Polyethylene (PE) Laminate.

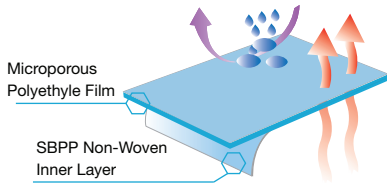
Fabric Weight: 50 gsm.

Seam Type: The garment has both stitched and bound seams, to combine strength, maximum liquid and particle protection and cost effectiveness. Models also available with all seams fully bound and sealed.

Colour Options: White.

Accessories

Lab Coats | Trousers | Aprons | Jackets | Sleeves | Overboots | Overshoes



- Suitable Applications:
- Production environments where dust and low level liquid and chemical spray protection is needed
 - Pharmaceutical industry
 - Automotive industry
 - General paint spraying
 - Boat and ship building
 - Windmill turbine production
 - Handling and mixing of resin compounds
 - Mining
 - Low hazard chemical cleaning

Protection Levels & Additional Properties

TYPE 5-B | TYPE 6-B | EN 1073-2 | EN 1149-5



ChemDefend® 250

The ChemDefend® 250 range of protective coveralls are constructed from a microporous polyethylene barrier film glued to the latest generation of spunbond polypropylene (SBPP). The PP fibres are spun at a low dtex producing a high density of fine fibres per square metre, creating a lightweight and strong, but breathable material. The barrier and repellency to liquid chemicals and biological agents is excellent. This material is coated with an electrostatic dissipative layer.

Fabric Description: Microporous Polyethylene (PE) Laminate with SMMS back panel.

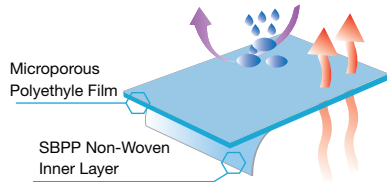
Fabric Weight: 60 gsm.

Seam Type: Bound - which delivers maximum strength and liquid and particle barrier properties.

Colour Options: White.

Accessories

Lab Coats | Trousers | Aprons | Jackets | Sleeves | Overboots | Overshoes



- Suitable Applications:
- Agriculture- pesticide mixing and handling
 - Chemical industry
 - Pharmaceutical industry
 - Cleanroom
 - Electronic sector
 - Nuclear industry
 - Paint spraying within automotive and shipbuilding industries
 - Veterinary and livestock handling
 - Cleaning and remediation
 - Sewage industry

Protection Levels & Additional Properties

TYPE 5-B | TYPE 6-B | EN 1073-2 | EN 1149-5 | EN 14126

ChemDefend® 255

The ChemDefend® 255 range of protective coveralls are constructed from the latest generation of microporous polyethylene barrier film, glued to a lightweight but strong, spunbonded polypropylene structural layer. This delivers a durable and breathable material, with excellent barrier and repellency of liquid chemicals in the front of the coverall. The material is coated with an electrostatic dissipative layer.

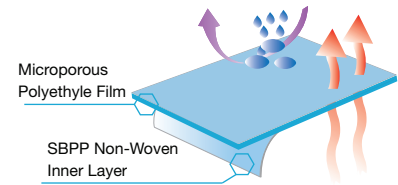
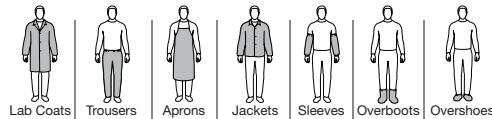
Fabric Description: Microporous Polyethylene (PE)
Laminate with SMMS back panel.

Fabric Weight: 60 gsm.

Seam Type: Bound - which delivers maximum strength and liquid and particle barrier properties.

Colour Options: White.

Accessories



Suitable Applications:

- Agriculture - pesticide mixing and handling
- Veterinary services
- Pharmaceutical mixing and handling
- Paint spraying
- General cleaning and clean up operations

Protection Levels & Additional Properties



ChemDefend® 310

The ChemDefend® 310 series of garments are constructed from a unique nonwoven composite which has been engineered to offer a high level of barrier to the permeation of inorganic chemicals and infective agents. The material provides a good level of comfort, strength and durability. A polyethylene barrier layer is combined with a meltblown polypropylene film, bonded onto a structural spunbonded polypropylene base layer. This construction provides an excellent barrier to liquids under high pressure.

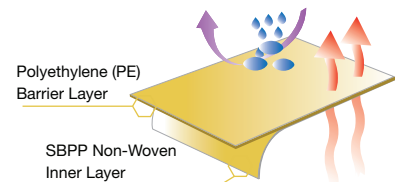
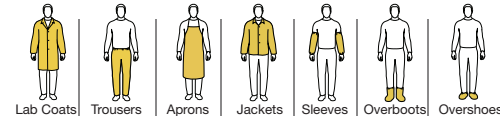
Fabric Description: Polyethylene Barrier material applied to a meltblown and spunbonded polypropylene structural layer.

Fabric Weight: 70 gsm.

Seam Type: Internal stitching which is overlapped the fabric and seam deliver equivalent barrier properties.

Colour Options: Yellow and White.

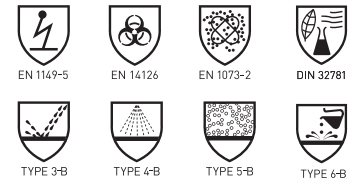
Accessories



Suitable Applications:

- Industrial Cleaning
- General Sanitation
- Sewage and Biohazards
- Petrochemical

Protection Levels & Additional Properties



ChemDefend® 410

The ChemDefend® 410 series of garments are constructed from a unique nonwoven composite which has been engineered to offer a high level of barrier to the permeation of organic, inorganic chemicals and infective agents. The material provides a very high level of strength and durability combined with good levels of drape. A polyethylene and EVOH barrier composite is bonded onto a structural spunbonded polypropylene base layer. The product is made from a highly visible orange composite.

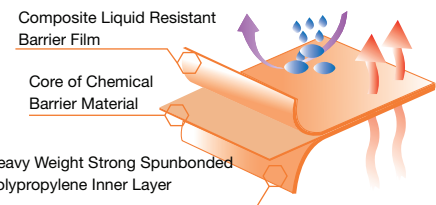
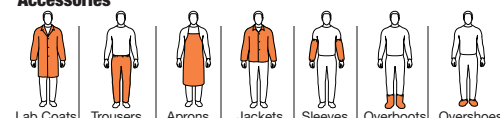
Fabric Description: Polyethylene and EVOH composite barrier material applied to a spunbonded polypropylene structural layer.

Fabric Weight: 155 gsm.

Seam Type: Internal stitching which is overlapped the fabric and seam deliver equivalent barrier properties.

Colour Options: Orange.

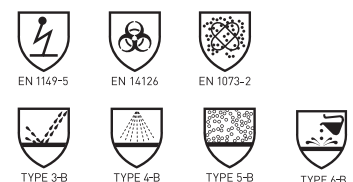
Accessories



Suitable Applications:

- Industrial Cleaning
- General Sanitation
- Sewage and Biohazards
- First Response and Fire Services
- Oil and Petrochemical
- Chemical and Pharmaceutical

Protection Levels & Additional Properties



Clothing Protection

GTB ET LAMINATE VITON

The fully encapsulating GTB is a Type 1A - ET reusable gas tight suit covering both the wearer and breathing apparatus. Manufactured in our new Laminate Viton® material, the suit is lightweight and provides advanced chemical protection. The laminate Viton® material consists of a polyester fabric coated one side with orange fireproof DuPont™ Viton® and one side with grey thermoplastic with an insert barrier film

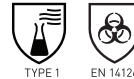
Applications:



Features:

- Encapsulating design for Self Contained Breathing Apparatus (SCBA) worn inside the suit
- Gas-tight zip running from side of head to lower thigh, covered by double zip flap with hook & loop fastener
- Protection against liquid & gaseous chemicals (Type 1), infective agents and chemical warfare agents
- Inward Leakage tested to EN 1073-2:2002, Class 3 with a Nominal Protection Factor (NPF) >9090
- Gas-tight locking cuff system for changing gloves
- Dual glove system consisting of a Kemblok™ chemical barrier inner glove bonded to an outer neoprene glove for mechanical protection
- Two exhalation valves maintain a comfortable working pressure inside the suit
- Rigid chemically resistant double layer visor permitting clear undistorted vision and a wide field of view
- Bat-wing sleeves allow wearer to remove their hand from the glove to check gauges and other equipment inside the suit
- Adjustable internal support belt
- Choice of fixed or detachable chemical safety boots or sock feet
- Fifteen year shelf-life, with internal pressure test required annually or after each use

Certification:



GTL GAS-TIGHT SUIT

The fully encapsulating GTB is a Type 1A - ET reusable gas tight suit covering both the wearer and breathing apparatus. Manufactured in our new Laminate Viton® material, the suit is lightweight and provides advanced chemical protection. The laminate Viton® material consists of a polyester fabric coated one side with orange fireproof DuPont™ Viton® and one side with grey thermoplastic with an insert barrier film

Applications:



Features:

- Encapsulating design for Self Contained Breathing Apparatus (SCBA) worn inside the suit
- Gas-tight zip running from side of head to lower thigh, covered by zip flap with hook & loop fastener
- Protection against liquid & gaseous chemicals (Type 1), infective agents and chemical warfare agents
- Inward Leakage tested to EN 1073-2:2002, Class 3 with a Nominal Protection Factor (NPF) >9090
- Kemblok™ gloves welded to sleeves, with elasticated oversleeve
- Neoprene outer gloves permanently attached to the Kemblok™ inner glove, for mechanical protection
- Integral sock feet with outer splash guard legs
- Two exhalation valves maintain a comfortable working pressure inside the suit
- Large chemically resistant flexible visor for wide field of view
- Bat-wing sleeves allow wearer to remove their hand from the glove to check gauges and other equipment inside the suit
- Adjustable internal support belt
- For Type 1A (ET) the suit must be worn with F3A certified safety footwear (e.g. Hazmax™ FPA)
- Seven year maintenance free shelf-life, maximum shelf life 10 years

Certification:



GLS 300A SUIT

The single-use GLS 300A suit in Chemprotex™ 300 is a fully encapsulating gas-tight chemical protection suit covering both the wearer and the breathing apparatus. The suit combines the benefits of a lightweight high-performance chemical barrier fabric with a gas-tight construction to method 2 of ISO 17491-1. It incorporates permanently attached antistatic chemical gloves, sock feet and a lightweight gas-tight zip.

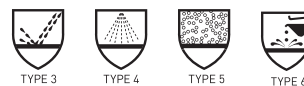
Applications:



Features:

- Large laminated chemically protective anti-mist visor giving clear undistorted vision
- KCL Butoject chemically protective anti-static glove permanently attached to the suit material
- Twin exhalation valves to side of hood to ensure that the suit maintains a comfortable working pressure
- Lightweight gas-tight zip fitted to rear of suit, closing at the top and covered with a double storm flap with hook and loop fastener
- Integral sock feet with outer splash guard legs
- Must be worn with ESD footwear (e.g. Hazmax™ ESD boots) to ensure a conductive path to ground when used in explosive atmospheres
- Ten year shelf-life

Certification:



GLS 300B SUIT

The GLS 300B suit in Chemprotex™ 300 is a single use gas-tight chemical protection suit with a patented integral facemask seal designed for use with breathing apparatus worn outside the suit, a facemask and filter or airline respirator. The suit combines the benefits of a lightweight high-performance chemical barrier fabric with a gas-tight construction to method 2 of ISO 17491-1. It incorporates permanently attached antistatic chemical gloves, sock feet and a lightweight gas-tight zip.

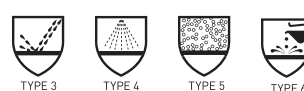
Applications:



Features:

- Integral hood with patented facemask seal providing a type 3 liquid jet seal with an outer chemical barrier fabric
- KCL Butoject chemically protective anti-static glove permanently attached to the suit material
- Jet tested for use with the following facemasks: MSA™ Auer 3S, Draeger™ Panorama Nova
- Lightweight gas-tight zip fitted across the shoulders in rear of suit, with double external cover flaps with a hook and loop fastener
- Integral sock feet with outer splash guard legs
- Must be worn with ESD footwear (e.g. Hazmax™ ESD boots) to ensure a conductive path to ground when used in explosive atmospheres
- Ten year shelf-life

Certification:



GLS 300C SUIT

The GLS 300C suit in Chemprotex™ 300 is a single use air-fed gas-tight chemical protection suit for use with breathable air supplied from an external compressed air source providing positive pressure. The suit combines the benefits of a lightweight high-performance chemical barrier fabric with a gas-tight construction to method 2 of ISO 17491-1. It incorporates permanently attached antistatic chemical gloves, sock feet and a lightweight gas-tight zip.

Applications:



Petro -
Chemical



Fire
Brigades



Chemical
Industry



Features:

- Semi-rigid laminated chemically resistant visor giving clear undistorted vision
- Air distribution system in the hood with an air permeable collar to provide cooling air through the suit, making the wearer more comfortable and better able to focus on tasks
- Lightweight gas-tight zip fitted across the chest covered by double external storm flaps with hook and loop fastener
- External air control valve and hose (supplied separately) are easily detached during doffing procedure for decontamination and reuse
- Twin exhalation valves to side of hood to ensure that the suit maintains a comfortable working pressure
- The hood design provides high protection without the need for a tight-fitting face piece
- KCL Butyl chemically protective anti-static glove permanently attached to the suit material
- Integral sock feet with outer splash guard legs
- Must be worn with ESD footwear (e.g. Hazmax™ ESD boots) to ensure a conductive path to ground when used in explosive atmospheres
- Ten year shelf-life

Certification:



TYPE 3



TYPE 4



TYPE 5



TYPE 6

SC1 SPLASH SUIT

The single-use SC1 chemical protective suit is manufactured from our high-performance Chemprotex™ 300 chemical barrier fabric. The liquid-tight (Type 3) design protects against contamination from liquid chemical splashes and can be used with breathing apparatus worn outside the suit or with a full facemask and filter. The SC1 is intended for use in areas that are not immediately dangerous to life or health.

Applications:



Petro Chemical



Shipping



Military



Civil
Defence



Fire
Brigades



Industrial
Cleaning



Nuclear



Features:

- Integral hood with neoprene rubber face grommet to seal around the wearer's face mask
- Rear-entry design with 91cm (36") Nylon zip fitted across the shoulders, with double external zip flaps and self-adhesive tape closure
- Protection against liquid chemicals (Type 3), infective agents and chemical warfare agents
- Chemically protective Kemblok™ laminated glove welded to the suit material
- Supplied with separate neoprene outer gloves for mechanical protection
- Integral sock feet with outer splash guard legs
- Bright Blue colour as standard. Olive Green and Navy Blue available to special order (minimum quantity applies)
- For use with the customers own safety boots
- Ten year shelf-life

Certification:



TYPE 3



TYPE 4



TYPE 5



TYPE 6



EN 14126



EN 1149-5



EN 1073-2



SOLAS 1974/1988



FINABEL 0.7.C

SC1 REUSABLE SPLASH SUIT

The Respirix SC1 is a reusable Type 3 splash contamination suit designed for Self Contained Breathing Apparatus (SCBA) worn externally.

The Reusable SC1 is designed to be laundered in commercial washing machines (see user instructions for laundering guidelines), ensuring a lower overall lifetime cost of ownership than the equivalent number of single use garments.

Applications:



Petro Chemical



Fire
Brigades



Civil
Defence



- Hood with integral neoprene face seal that is both shaped and flexible and provides a tight seal around the face mask, to prevent liquid penetration
- Rear horizontal 91cm (36") zip across the shoulders of the garment with zip flaps secured by a hook & loop fastener to prevent liquid ingress
- Double layer of material at the rear to prevent wear caused by the breathing apparatus rubbing against the suit
- Safety gloves compatible with the material of the suit, fitted with a liquid-tight locking cuff
- Optional reinforcement on knees and/or elbows
- Elasticated inner legs with stirrups with elasticated outer legs (other zip, cuff and leg termination options available on request)
- Designed to be worn with chemical safety footwear (e.g. Hazmax™ boots)

Certification:



TYPE 3



TYPE 4

SC4 SPLASH SUIT

The SC4 in Chemprotex™ 300 is a single-use fully encapsulating Type 3 (liquid tight) suit covering both the wearer and the self contained breathing apparatus (SCBA). The rear-entry design incorporates integral Kemblok™ chemical barrier gloves and sock feet with splash guard outer legs.

Applications:



Fire
Brigades



Chemical
Industry



Civil
Defence



Features:

- Large laminated anti-mist visor giving clear undistorted vision
- Chemically protective Kemblok™ glove permanently attached (welded) to the suit material
- Single exhalation valve to side of hood to ensure that the suit maintains a comfortable working pressure
- Fine tooth zip fitted at rear of suit, closing at the bottom and covered with a single storm flap secured with double sided tape
- Integral sock feet with outer splash guard legs
- For use with chemical safety boots (e.g. Hazmax™)
- Ten year shelf-life

Certification:



TYPE 3



EN 14126



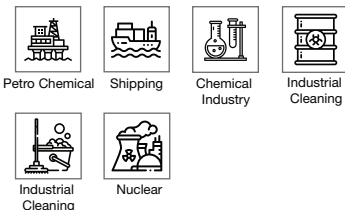
FINABEL 0.7.C

Clothing Protection

SPLASHMASTER COVERALL

A lightweight, Type 3 liquid-tight, limited re-use hooded coverall, designed for use with a full face mask and filter or appropriate facial and respiratory protection. Manufactured from Chemprotex™ 300 the suit is highly chemically resistant and features a comfortable spun-bonded lining inside.

Applications:



Features:

- Integral hood with elastic face seal for a comfortable fit around a full or half mask respirator
- Adjustable throat flap for improved seal around the base of the facemask
- Nylon zip fitted at the front with double external zip flaps with hook and loop fastening
- Protection against liquid chemicals (Type 3), infective agents and chemical warfare agents (Respirex recommend taping around the facemask, at the wrists and ankles)
- Elasticated wrists with thumb loop
- Elasticated ankles
- For use with customers own chemical safety boots
- Ten year shelf-life

Certification:



SAFETY BOOTS

M808A BOOTS

Korakoh M808A PVC Safety Boot has a carbon steel toe cap meets impact resistance, and also a steel mid-sole which provides excellent protection against sharp objects. It also provide Oil & Chemical resistant, Waterproof and offer Anti-slip performance. Suitable use in Agricultural sector, Industrial, Hotel, Restaurant, Transportation, Construction, Petrol Station, Electric Station, Hospital, Maintenance & etc.



- Soft Urethane PVC Safety Boot for strength and comfort
- Soft and synthetic inner lining provides comfort in use for every users
- Features anti-slip sole and anti-static properties (option)
- Oil resistance sole and waterproof
- Chemical resistant sole
- Manufactured under stringent in house quality control
- Steel Toe Cap & Steel Mid Sole meet EN 12568: 1998 requirement (Impact Resistance: 200J, Compression Resistance: 15KN).

- Height: 400mm
- Weight: 1.95kg±
- Size Range: 37 to 45
- Gross Weight: 2.15kg± / Box
- Lining: Polyester
- Insole: EVA (G-1)
- Upper Sole Material: Polyvinyl Chloride
- Sole Material: PVC Nitrile
- Toe Cap Material: Carbon Steel C50 EN12568 1.7mm (Thickness)
- Midsole Material: Stainless Steel EN12568

HAZMAX™ BOOTS

A chemically protective anti-static boot with an integral steel toe cap and vulcanized rubber sole.



- Manufactured from our proprietary Hazmax compound, providing significantly better chemical resistance than PVC or PU materials
- Chemically resistant boot certified to EN 13832-3:2018 (footwear protecting against chemicals)
- Conforms to EN 943-1 (Chemical protective clothing) and certified to this standard as part of an appropriate Respirex gas-tight suit
- Antistatic - Electrical resistance meets the requirements of EN ISO 20345:2011 A (0.1MΩ to 1,000MΩ)
- Integral 200 Joule epoxy coated steel toecap and stainless steel penetration resistant mid-sole
- Heat resistant sole EN 20345:2011 HRO, 60 seconds at 300°C
- Cold insulation to EN ISO 20345:2011 CI

- Fuel and oil resistant upper and sole
- Vulcanized rubber sole for improved slip resistance - 30% better than a conventional safety boot sole
- Durable, cut-resistant vulcanised rubber sole, significantly extends working life, even in harsh terrain
- Cleated outsole for maximum grip in wet and oily conditions (SRC)
- Energy absorbing tunnel system in heel to EN 20345:2011 E
- Ergonomic cushioned insole (removable & machine washable) for greater wearer comfort
- Seamless construction
- Kick-off lug
- Adjustable height
- Knitted nylon lining
- CE marked on the shaft with date and year of manufacture
- REACH Compliant
- Machine washable at up to 40°C
- Shelf life of over 10 years

Certification: EN 13832-3: 2018 A,K,O,P,Q,R,T
EN ISO 20345:2011 S5 SRC HRO CI FO
PPE Regulation (EU) 2016/425

HAZMAX™ FPA BOOTS

A heat resistant version of the Hazmax™ chemical boot conforming to the EN15090 fire boot standard for flame resistance, radiant heat and heat insulation of the sole.



- Manufactured from our proprietary Hazmax compound, providing significantly better chemical resistance than PVC or PU materials
- Chemically resistant boot certified to EN 13832-3:2018 (footwear protecting against chemicals)
- Conforms to EN 943-2 (Chemical protective clothing) and certified to this standard as part of an appropriate Respirex gas-tight suit
- Conforms to EN 15090:2012 F3A Fire fighter boot standard
- Heat insulation of the sole EN 15090:2012 (HI3): The sole withstands 40 minutes at 250°C with an increase in internal temperature of less than 21°C after 10 minutes
- Antistatic - Electrical resistance meets the requirements of EN ISO 20345:2011 A (0.1MΩ to 1,000MΩ)

- Integral 200 Joule epoxy coated steel toecap and stainless steel penetration resistant mid-sole
- Heat resistant sole EN 20345:2012 HRO, 60 seconds at 300°C
- Cold insulation to EN ISO 20345:2012 CI
- Fuel and oil resistant upper and sole
- Vulcanized rubber sole for improved slip resistance - 30% better than a conventional safety boot sole
- Durable, cut-resistant vulcanised rubber sole, significantly extends working life, even in harsh terrain
- Cleated outsole for maximum grip in wet and oily conditions (SRC)
- Energy absorbing tunnel system in heel to EN 20345:2011 E
- Ergonomic cushioned insole (removable & machine washable) for greater wearer comfort
- Seamless construction
- Kick-off lug
- Adjustable height
- Knitted nylon lining
- CE marked on the shaft with date and year of manufacture
- REACH Compliant
- Machine washable at up to 40°C
- Shelf life of over 10 years

Certification: EN 13832-3: 2018 A,K,O,P,Q,R,T
EN 15090:2012, Class 2 - Type F3A (HI3, CI, SRC)
EN ISO 20345:2011 S5 SRC HI HRO CI FO
PPE Regulation (EU) 2016/425

PANT

STRETCH BIOMOTION DOUBLE TAPED
MODERN FIT CARGO PANTS



FABRIC
97% Cotton,
3% Elastane 280gsm

SIZES
Regular (77 - 112)

STANDARDS
AS/NZS 4602.1:2011
AS/NZS 1020: 1995
AS/NZS 4399: 1999

FLAREX PPE2 FR INHERENT 250GSM
TAPED CARGO PANTS



FABRIC
FLAREX 60% Modacrylic,
34% Cotton, 5% Aramid,
1% Anti-Static 250gsm
• PPE2 ATPV 10 Cal/cm2

SIZES
Regular (77 - 112)
Stout (87 - 132)
Long (79 - 94)

STANDARDS
NFPA 2112
ASTM F1959 (NFPA 70E)
AS/NZS 4602.1:2011
AS/NZS 1020: 1995
AS/NZS 4399: 1999

FLAREX RIPSTOP PPE2 FR INHERENT
TAPED CARGO PANTS



FABRIC
FLAREX RIPSTOP 50%
Modacrylic, 8% Polyarylate,
32% Cotton, 9% Polyamide,
1% Antistatic 197gsm
• PPE2 ATPV 8.6 Cal/cm2

SIZES
Regular (77 - 112)
Stout (87 - 132)
Long (74 - 94)

STANDARDS
NFPA 2112
ASTM F1959 (NFPA 70E)
AS/NZS 4602.1:2011
AS/NZS 1020: 1995
AS/NZS 4399: 1999
Oeko-Tex Standards 100

SHIRT & JACKET

HI-VIS 2-TONE SHORT SLEEVE
POLY/COTTON POLO SHIRT



FABRIC
80% Polyester
20% Cotton back knit 180gsm

SIZES
XS - 6XL

COLOURS
 
Orange/Navy Yellow/Navy

STANDARDS
AS/NZS 4602.1:2011
AS/NZS 1906.4:2010
AS/NZS 4399: 1999

FLAREX RIPSTOP PPE2 FR INHERENT
197GSM NSW RAIL TAPED SHIRT



FABRIC
FLAREX RIPSTOP 50%
Modacrylic, 8% Polyarylate,
32% Cotton, 9% Polyamide,
1% Antistatic 197gsm
• PPE2 ATPV 8.0 Cal/cm2

SIZES
S - 6XL



STANDARDS
NFPA 2112
ASTM F1959 (NFPA 70E)
AS/NZS 4602.1:2011
AS/NZS 1906.4:2010
AS/NZS 1020: 1995
AS/NZS 4399: 1999
Oeko-Tex Standards 100

HI-VIS 2 TONE 1/4 ZIP TECH
FLEECE HOODIE



FABRIC
100% Cotton drill 310gsm,
100% Polyester Lining

SIZES
XS - 6XL

COLOURS
 
Orange/Navy Yellow/Navy

STANDARDS
AS/NZS 4602.1:2011
AS/NZS 1906.4:2010
AS/NZS 4399: 1999

COVERALL

FLAREX PPE2 FR INHERENT VENTED
TAPED COVERALL



FABRIC
FLAREX 60% Modacrylic,
34% Cotton 5%, Aramid,
1% Anti-Static, FR Cotton
Modacrylic 200gsm
Knit Venting, 215gsm

SIZES
Regular (77 - 132)
Stout (87 - 132)
Long (79 - 94)

COLOURS
  
Orange Orange/Navy Yellow/Navy

STANDARDS
NFPA 2112
ASTM F1959 (NFPA 70E)
AS/NZS 4602.1:2011
AS/NZS 1906.4:2010

FLAREX PPE1 FR INHERENT 190GSM
VENTED TAPED COVERALL



FABRIC
FLAREX 190gsm, 60%
Modacrylic, 34% Cotton,
5% Aramid, 1% Anti-Static
PPE1 ATPV 7.0 Cal/cm2

SIZES
• Regular (77 - 132)
• * Red: Regular (77 - 117)
• Stout (87 - 132)
• Long (79 - 94)

COLOURS
 
Orange Red

STANDARDS
NFPA 2112
ASTM F1959 (NFPA 70E)
AS/NZS 4602.1:2011
AS/NZS 1906.4:2010
AS/NZS 1020: 1995
AS/NZS 4399: 1999
Oeko-Tex Standards 100

HI-VIS 2-TONE TROPICAL LIGHTWEIGHT
TAPED COVERALL WITH ZIP CLOSURE



FABRIC
100% Cotton Drill
190gsm

SIZES
Regular (77 - 132)
Stout (87 - 132)
Long (79 - 94)

COLOURS

Orange

STANDARDS
AS/NZS 4602.1:2011
AS/NZS 1906.4:2010
AS/NZS 1020: 1995
AS/NZS 4399: 1999

Aluminised Jacket and Trousers

Jacket:

- Description:
- Jacket with velcro fastener along the side, under flap
 - Low or high collar made from water-repellent grain leather
 - Vents under the arms
 - Cuffs with Velcro fastener on request.
 - Kevlar® thread seams®.

Trousers:

- Description:
- Trousers with fly closure under flap and snap buttons.
 - Two hand openings under flap
 - Kevlar® thread seams®.

Aluminised Hood

- Hood with integrated adjustable helmet
- Shoulder-cover collar
- Side air vents
- Interchangeable screen, small or large models
- Triplex glass, gold

Helmet Cover With Visor

- Pack: helmet + cover + visor
- Steel helmet
- Helmet cover in aluminised para-aramid with neck protection
- Aluminised visor with gold polycarbonate screen attached to the helmet
- Light, ventilated, flip-up aluminised hood

Aluminised Overboots

- Multi-layer fibreglass insulating soles for floors up to 400°C for the standard version
- 1 tightening strap and 1 inner elastic
- Zipper at back, under flap
- Can be put on while wearing shoes.
- Height 36cm - Single size
- All seams in Kevlar thread.

Helmet Gaiters

- Gaiters with with holding strap beneath the sole (strap breaks easily in case of snagging to avoid a fall)
- Spring-closure systems (easy to put on and remove the gaiters), crust-leather lining
- Soft metal bar to be bent “into shape” before first use to fit the rounding of the top of the instep to prevent the gaiters from turning
- 100% Kevlar® thread seams®
- Standard height of 36 cm.

HTR Solit Leather Glove

- Pair of HTR (High Temperature Resistant) crust leather gloves
- Aluminised back-of-hand
- 5 fingers, palm and thumb reinforcement
- Wool internal lining
- Kevlar® thread assembly
- Option: 3 velcro closures on the oversleeves
- Length: 40 cm

Model	Description	Standards	Part Number
Jacket	Fabric: 500 gsm para-aramid	A1 B1 C3 D3 E3	E2200 - 100
Trousers	Fabric: 500 gsm para-aramid		E2300 - 100
Aluminised Hood	Screen Type: Triplex glass, 100x220	-	E5110 - 100
Helmet Cover With Visor	Screen Type: Polycarbonate	A1 B1 C3 D3 E3	E1000 - 102
Aluminised Overboots	Lining: Insulating soles	A1 B1 C4 D3 E3 F1	E6600 - 000
Aluminised Gaiters	Lining: Velcro fastening	A1 B1 C3 D3 E3	E6200 - 000
	Lining: Spring-loaded holder		E6100 - 000
HTR Solit Leather Glove	HTR crust leather five-finger glove	EN388 4144, EN407 4124X4	E4554 - 804



V81622 REFLECTIVE VEST

Lightweight, comfortable Class 2 vests feature 55% modacrylic/45% cotton blend material, flame resistant hook and loop closure, and 2" flame resistant silver reflective tape.

- ANSI/ISEA 107 Type R Class 2 compliant vest for high visibility and flame resistance.
- Fluorescent yellow-green background material for excellent daytime visibility.
- ASTM F1506 compliant for flame resistance and electric arc related thermal hazards.
- Arc Rating 6.8 cal/cm².
- Conforms to NFPA 70E - HRC 1.
- 6.5 oz, 55% Modacrylic/45% Cotton blend - solid.
- 2 inch FR silver reflective tape reflects light for 360° nighttime conspicuity.
- FR hook & loop closure.
- D-ring access for fall protection
- 2 interior pockets



V81832 REFLECTIVE VEST

Lightweight, comfortable Class 2 vests feature 55% modacrylic/45% cotton blend material, flame resistant hook and loop closure, and 2" flame resistant silver reflective tape.

- ANSI/ISEA 107 Type R Class 2 compliant vest for high visibility and flame resistance.
- Fluorescent yellow-green background material for excellent daytime visibility.
- ASTM F1506 compliant for flame resistance and electric arc related thermal hazards.
- Arc Rating 6.8 cal/cm².
- Conforms to NFPA 70E - HRC 1.
- 6.5 oz, 55% Modacrylic/45% Cotton blend - solid.
- 2 inch FR silver reflective tape reflects light for 360° nighttime conspicuity.
- FR hook & loop closure.
- 5 exterior pockets.
- 3 interior pockets.
- 2 microphone tabs.



V81522 REFLECTIVE VEST

Lightweight, comfortable Class 2 vests feature 55% modacrylic/45% cotton blend material, flame resistant hook and loop closure, and 2" flame resistant silver reflective tape.

- ANSI/ISEA 107 Type R Class 2 compliant vest for high visibility and flame resistance.
- ASTM F1506 compliant for flame resistance and electric arc related thermal hazards.
- Arc Rating 6.8 cal/cm².
- Conforms to NFPA 70E - HRC 1.
- 6.5 oz, 55% Modacrylic/45% Cotton blend - solid.
- 2 inch FR silver reflective tape reflects light for 360° nighttime conspicuity.
- FR hook & loop closure.
- Breakaway FR hook & loop at shoulders, sides, and front.
- 2 interior pockets.



RVMO/RVMY - RVPY REFLECTIVE VEST

Panindochina reflective vest.

- 100% polyester, fluorescent orange/ yellow.
- High reflective fabric (100 polyester) 5 cm width with gery color.
- Available with Mesh and Polyester material.
- Size: S - 2XL.

WS

WELDERS SLEEVES



- Red chrome leather with buckle and webbing strap for quick and easy fitting and removal
- 630mm length gives complete arm protection
- One Size Fits All
- Kevlar stitched to increase resistance to heat, cuts and abrasion
- Sold and packaged individually

WJ

WELDERS JACKET



- High quality red cow split leather
- Kevlar® stitched to increase resistance to heat, cuts and abrasion
- Staggered double studs to ensure a secure fit
- Moderate heat protection
- Sizes: M, L, XL, 2XL, 3XL
- Sold and Packaged Individually

A41008

CHEMICAL RESISTANT APRON



- Green Apron - 38" x 48".
- The SafetyFlex® flame resistant specialty PVC on polyester apron combines tough protection and comfortable fit.
- Made to resist industrial acids, chemicals, and caustics.
- The heavy exterior coating offers excellent permeation performance and liquid splash protection.
- Equipped with one strap around the waist and one around the neck with a buckle for a secure and adjustable fit.
- 48 inch total length, 38 inch total width. 17 mil total thickness.
- PVC chemical resistant apron..

WA108

CHEMICAL RESISTANT APRON



- Chrome leather
- Adjustable neck and waist webbed straps with quick release buckles
- New and improved webbing straps and plastic buckle for easier adjustment
- Buckle and leather strap for quick and easy fitting and removal
- One size fits all
- Sold and packaged individually

SE6385

RAIN SUIT

A high quality, durable, windproof and waterproof jacket, enhance safety at night and in low visibility situations.

Rain Jacket:

- With detachable hood and reflective tape
- Storm front with metal snaps

Waist Trousers:

- With reflective tapes, no fly in front, non-conductive
- Size: S to 4XL

Compliance: EN471 CLASS 3



SE6332

RAIN SUIT

PVC rain suit

- Made of heavy duty PVC coated on polyester, heat sealed seams offer 100% waterproof.
- Jacket with hood and trousers.
- Three layers for more protection.
- Thickness: 0.3 - 0.35 mm.
- Colour: Yellow.
- Sizes: S - 3XL.



Clothing Protection

Low GI Concentrates

Workers who drink when they are thirsty typically replace only half the fluid lost through sweat.

Conversely, workers who engage in Program Drinking maintain optimal hydration levels and do not become dehydrated. Program Drinking involves drinking small amounts of fluid frequently. Ensure you have access to fluid at regular intervals - the THORZT Hydration Backpack keeps hydration on person at all times.

- 2 litre bladder - Color: Black | Part number: BP25B
- 3 litre bladder - Color: Hi-Vis Yellow | Part number: BP2Y
- 3 litre bladder - Color: Hi-Vis Orange | Part number: BP25O



Accessories:



BPRT
Neoprene insulated
hydration tube



BPB
Replacement backpack
bladder 3L

Cooling Vest

Part number: ECVHVV XSI S | M | L | XL | 2XL | 3XL

Features & Benefits:

- Simple V-neck with zipper closure; works for a wide range of people and uses
- Can provide 5-10 hours of cooling relief per soaking
- Lightweight, easy to activate, and durable
- Comfortable quilted nylon outer with HyperKewl Plus fabric inner, water repellent nylon liner, and black poly-cotton trim
- Machine Washable up to 60°C



Active:

1. Simply submerge the vest in water for 1-2 minutes, allowing the HyperKewl fabric to absorb the water.
2. Gently squeeze out any excess water, wipe dry and the vest is ready to wear.
3. The vest will remain activated for 5-10 hours and can be re-hydrated by repeating these simple steps.

Cooling Cap

Part number: CCB | CCRB

Features & Benefits:

- Adjustable ties at the nape of the neck
- Ideal for wearing under a helmet, hard hat or alone
- When wet, stays cool while you are active
- Absorbent when dry, perfect for absorbing moisture and sweat
- Use for hours at a time, simply re-wet to reactivate
- Lightweight and durable
- Machine washable - cooling ability is not affected, reuse again and again



Active:

1. Submerge the THORZT Cooling Scarf in any temperature water and let it soak for 1 to 3 minutes.
2. Wring out the excess water, leaving it nice and moist.
3. Snap to activate.

Chill Towel

Part number: CSB

The THORZT Chill Towel stays cool for hours with no refrigeration or cold water needed - just 'Wet, Wring and Wave'. It's made from PVA material which can retain moisture for periods far longer than conventional towels, and contains a special plant extract that (once activated) turns moisture cold regardless of it's initial temperature.

Features & Benefits:

- Promotes Thermoregulation
- Reduces Heat Stress risks
- Comforts and cools the skin
- Looks as cool as it feels
- Machine washable

Active:

1. Submerge the THORZT Chill Towel in any temperature water and let it soak for 1 to 3 minutes.
2. Wring out the excess water, leaving it nice and moist.
3. Take hold of two corners, and wave it up and down for about 10 seconds.
4. Wrap it around your neck or other warm point on the skin for instant cooling relief.



Chilly Vests

Part number: CV | CVO

Features & Benefits:

- Promotes thermoregulation
- Reduces heat stress risks
- Comforts and cools the skin
- Looks as cool as it feels

Inner Fabric

- MICRO KNIT - 100% Australian Merino Wool for temperature and odour control
- Naturally fire retardant, ant-static and easy care

Outer Fabric

- COOLMESH - This 100% Australian made high performance sport fabric uses a Moisture Management system and Multi-Filament
- Technology for comfort and durability

Cooling Crystals

- Non-Toxic High Performance Polyacrylate/ Polyalcohol Copolymer

Active:

1. Vest comes in crystal form. Initially soak in water for 20-30 minutes so crystals in pockets swell into gel form (Pockets should be firm but not bursting).
2. When removing from water, grab top and bottom of vest and gently twist in opposite directions to remove excess water and hang to dry. Vest is now activated.



Cooling Scarf

Part number: CSHVO | CSHVV | CSK | CSRB

Features & Benefits:

- Microfiber Evaporative Cooling
- UPF 50 chemical-free production
- Lightweight stretch fabric with non-chafing elastic ends for comfortable cooling that will stay put
- Multi-purpose: protects from sun, defends against dust and debris, and keeps you cool at the same time
- Machine washable - reuse again and again

Active:

1. Submerge the THORZT Cooling Scarf in any temperature water and let it soak for 1 to 3 minutes.
2. Wring out the excess water, leaving it nice and moist.
3. Snap to activate.
4. Multiple ways to wear:



Cooling Ties

Part number: CTB | CTRB

Cooling Ties are designed to assist with Heat Stress prevention by promoting the body's thermoregulation.

Cooler skin contributes to a number of physiological advantages:

- Less output is directed toward the skin
- A lower core body temperature

Features & Benefits:

- Promotes Thermoregulation
- Reduces Heat Stress risks
- Comforts and cools the skin
- Looks as cool as it feels

Active:

Submerge your Cooling Tie in cold water for 15-20 minutes then wrap it around the neck, head or wrist (ideally at a pulse point) to immediately feel the cooling effect. You can also place the tie in the fridge or freezer overnight, then store in your esky/cooler on site for use later in the work day.

Cooling ties can be re-used as needed throughout the day by re-submerging in cold water for several minutes. However, it should be stressed that whilst this will deliver a refreshing feel, the main benefits of the ties come from the prolonged evaporative cooling that occurs over long periods.

Once the polymer crystals have fully absorbed the water, the cooling effects can last for hours, although the exact period varies depending on the climatic conditions.





Single Decontamination Shower

Lightweight and quick to deploy, the inflatable Decontamination Unit range from MFC International allow for rapid response.

- Lightweight and easily portable scenarios
- Will be set up within a matter of minutes and will stay standing without continuous inflation
- Raised floor panels prevent contact with contaminated shower wash off which is collected in a PVC chemically resistant sump
- Sleeves for pumped extraction of contaminated water are included as standard
- Chemical resistant PVC gloves are added onto the sides of the shower to allow a second person to help wash down the contaminated person
- Can be used on hard or soft standing and guy ropes are provided for securing in position
- Minimal training, servicing and maintenance costs



Four Person Decontamination Unit

Lightweight and quick to deploy, the inflatable Four Person Decontamination Unit from MFC Survival allow for rapid response in a decontamination situation.

- Lightweight and easily portable
- Will be set up within a matter of minutes and will stay standing without continuous inflation
- Optional raised floor panels prevent contact with contaminated shower wash off which is collected in a chemically resistant sump
- Sleeves for pumped extraction of contaminated water are included as standard
- Can be used on hard or soft standing and guy ropes are provided for securing in position
- Minimal training, servicing and maintenance costs



Mass Decontamination Units

Lightweight and quick to deploy, the inflatable Mass Decontamination Unit from MFC Survival allow for rapid response in a decontamination situation.

- Lightweight and easily portable scenarios
- Will be set up within a matter of minutes and will stay standing without continuous inflation
- The Mass decontamination unit is internally partitioned into three lanes with pre and post decon changing rooms
- Optional raised floor panels prevent contact with contaminated shower wash off which is collected in a chemically resistant sump
- Sleeves for pumped extraction of contaminated water are included as standard
- Can be used on hard or soft standing and guy ropes are provided for securing in position
- Minimal training, servicing and maintenance costs



KANOX 3

WELDING BLANKET

- Model:
- Kanox-3A (Length 0.75 M x Width 1.0 M x Thickness 3 mm).
- Kanox-3D (Length 1.50 M x Width 2.0 M x Thickness 3 mm).
- Material : 100% PAN (Pre-Oxidized Acrylonitrile).
- Weight: 400 g/m² ± 5%.
- Type : Non-Woven felt type.
- Flame Testing: Up to 900° above, within 3 minutes. No Shrinkage, No Melting, No Burning.
- Caution: Store away from water.

KANOX 6

WELDING BLANKET

- Kanox® NW6 - 100% PAN (Pre-Oxidized Acrylonitrile) fabric Non-Woven felt, with brass grommets (diameter 17mm) along 4 opposite sides at 18" intervals.
- Model:
- KANOX-6A (Width 1.5 M x Length 3.0 M x Thickness 6.0 mm).
- KANOX-6B (Width 1.5 M x Length 3.0 M x Thickness 6.0 mm).
- Weight: 900 g/m² ± 5%.
- Flame Testing: Up to 900° above. Non- Shrinkage, Non-Melting, Non- Burning within 3 minutes.
- Caution: Store away from water.



WB

WELDING BLANKET

- Heavy duty chrome leather for added durability
- Kevlar stitched to increase resistance to heat, cuts and abrasion
- Metal eyelets on outer edges for ease of securing
- Generous size 1800mm x 1800mm
- Moderate heat protection
- Sold and packaged individually
- Qty/Carton - 5.

WB33

WELDING BLANKET

- Heavy duty chrome leather for added durability
- Kevlar stitched to increase resistance to heat, cuts and abrasion
- Metal eyelets on outer edges for ease of securing
- Generous size 3000mm x 3000mm
- Moderate heat protection
- Sold and packaged individually
- Qty/Carton - 5.

Effective fall protection is more than one product — it's a team of products working together.

FALL PROTECTION IS AS EASY AS A, B, C & D

The first four letters of the alphabet help us understand the components of fall protection.

A is for anchorage, B is for body support, C is the connector that joins the two. D stands for the descent and rescue plan that must be on-site for each job.



A ANCHORAGE CONNECTORS

offer secure attachment to your location.

Anchorage connectors, as defined by OSHA, are secure points of attachment for lifelines, lanyards or deceleration devices and are designed to hold fast under the forces generated during a fall.

Anchorage connectors vary by industry, job, type of installation and structure.

- An anchorage connector may be a beam anchor, hook anchor, cross-arm strap, D-bolt, tripod, davit or other secure device that serves as a point of attachment.
- Anchorages and anchorage connectors must be independent and capable of supporting 5,000 lbs. per worker attached, or they may be designed, installed and used under the supervision of a qualified person as part of a complete personal fall arrest system that maintains a safety factor of at least two times maximum arresting force. They must also be located high enough for a worker to avoid contact with a lower level should a fall occur.

B BODY SUPPORT

provides a personal connection point and distributes fall force across the entire body.

Full Body Harnesses are used to distribute fall arrest forces across the shoulders, upper thighs, chest, and pelvis.

They feature a center back fall arrest attachment (dorsal D-ring) for clipping to the fall arrest connector and may have other D-rings for use in worker positioning, travel restraint, retrieval or ladder climbing. They are the only form of bodywear acceptable for fall arrest and should be selected based on the job task as well as the work environment.

Body Belts circle the waist and are used for worker positioning and travel restraint. While they are used in conjunction with a full body harness, they must NEVER be used for personal fall arrest.

C CONNECTORS

provide the lifeline between body harness and anchorage connector.

Connectors attach the worker's harness to the anchorage connector. Types will vary depending on whether the worker needs connecting for either of the following:

- Personal Fall Arrest

This connector is often a lanyard equipped with an energy-absorbing element to reduce the force transmitted to the user's body in the event of a fall.

- Positioning and Travel Restriction

This connector is usually a simple lanyard intended to reduce the potential for entering a fall hazard zone or for free falling from a distance of less than 2 feet.

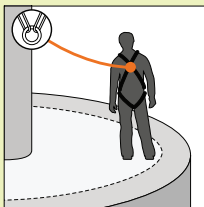
D DESCENT AND RESCUE DEVICES

retrieve an injured worker and lower him/her to the ground.

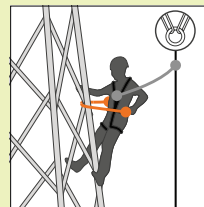
Users must have a rescue plan that either provides the prompt rescue of employees in the event of a fall or ensures that employees are able to rescue themselves.

TYPES OF PPE SYSTEMS

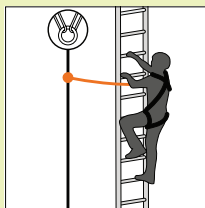
Different PPE devices are assembled together to create systems and subsystems which protect the operator in the event of a fall from a height, preventing or arresting the fall. They can be classified as follows.



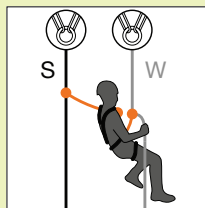
A restraint system limits the movement of the operator so that s/he cannot reach a zone from which a fall from a height is possible. This system does not arrest a fall, rather, it is designed to prevent a fall taking place. Such a system is not suitable for work situations where the operator needs to be supported by a harness.



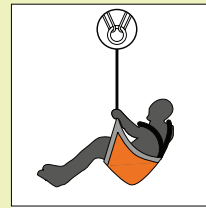
A work positioning system is not for arresting a fall, it must be used together with an adequate system for arresting a fall. It allows the operator who is in an awkward position to use both hands freely. A positioning device connects the lateral (EN 358) rings of the harness to the anchor points or to the fixed structure. Once it has been adjusted, the operator's weight is comfortably supported.



A fall arrest system arrests the operator's fall, limiting the loading on the body while doing so. This system allows the user to reach zones or positions in which the risk of falling freely exists and, if a fall occurs, limits the length of the fall and arrests the fall. A fall arrest system may include an energy dissipation device to limit loading on the body to tolerable value.



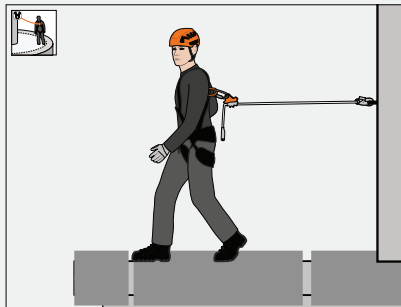
A rope access system allows the operator to work while suspended, avoiding or arresting a fall. This system is comprised of a working line (W) and a safety line (S), each separately anchored to the structure but both fixed to the operator's harness. The operator can descend down and climb back up the working line or remain suspended in the working position. The safety line is loaded only if there is a problem with the working line or the operator makes a mistake.



A rescue system allows an operator to rescue him/herself or other workers. It allows the lifting or lowering of a person to a safe place.

TYPES OF ACTIVITIES WHEN WORKING AT HEIGHT

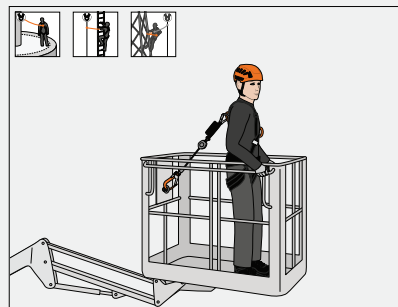
WORKING ON A HORIZONTAL SURFACE



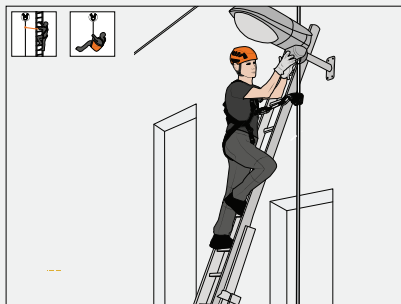
WORKING ON A ROOF



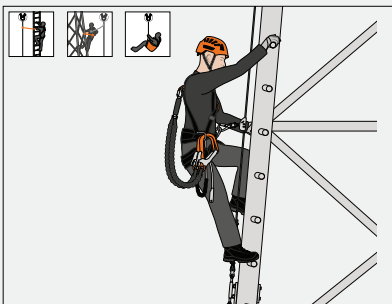
WORKING FROM AN AERIAL PLATFORM



WORKING ON A LADDER



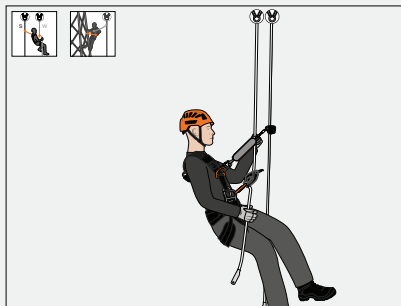
WORKING ON A PYLON



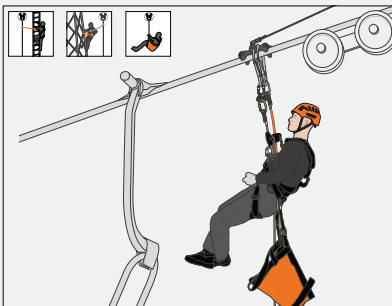
USE OF RESCUE KITS



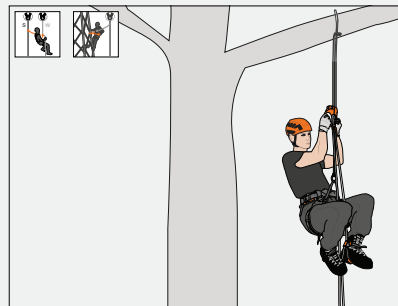
ROPE ACCESS WORK



EVACUATION FROM SKI LIFTS



TREE CLIMBING



D-ring locations



D-Ring Applications

	Dorsal	Sternal	Lateral	Shoulder	Ventral
Arrest	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Restraint	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Rescue	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Work positioning	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Climbing	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Rope Access	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

1. Comfort padding

Select models feature cushioning on shoulders, back and legs for increased comfort and additional security in a fall.

2. Dorsal D-ring

Make easier connections with the conveniently adjustable D-ring, which is built from high-quality alloy steel for strength and durability.

3. Lanyard keepers

Help prevent accidental entanglements by “parking” lanyards here when not in use.

4. Built-in impact indicator

Simplifies inspection for prior fall events.

5. Spring-loaded torso buckles

Provide fast and easy adjustment on the job.

6. Lightweight hardware

Reduces weight and fatigue. Increases comfort and productivity.

7. Body belt and hip pad

Add lumbar support, positioning capabilities and tool carrying capabilities.

8. Multiple connection points

Enhance versatility, allowing harness to be used for many different jobsite applications.

9. Tongue-buckle legs

Simple, fast and easy adjustment. An excellent choice when more than one worker uses a harness.



SELECTION GUIDE: HARNESS

A body harness is an indispensable part of personal protective equipment. Work positioning harnesses or sit harnesses are also often necessary for many kinds of rope access work in order to be able to execute certain jobs. The harness restrains the body and must be worn for temporary work at height. It connects the operator to her/his protection system and, in certain cases, it can hold her/him suspended or during the arresting of a fall. A harness must meet the requirements of both the purpose as well as the comfort and function.



Fall arrest harness in accordance with EN 361

For protection in areas where there is a danger of falling and for catching in the event of falls (e.g. when working on towers, masts, overhangs on buildings).

Work position harness in accordance with EN 358

To keep the user in the working position and hold him back in areas where there is a danger of falling. The holding eyelets are normally on the side in the area of the hips.

Rescue Harness/Loop

Harnesses and loops for rescuing people. Different designs for various rescue situations.

Fall-arrest harness for use in climbing protection in combination with EN 353-1

For protection in areas where there is a danger of falling and for catching in the event of falls in combination with following devices in fixed guides – climbing protection – (e.g. during work on towers, masts). The climbing protection eyelets are normally on the waist belt, centrally in front of the body.

Sitting Harness in accordance with EN 813

For holding in sitting working position when hanging freely. Sitting harness eyelets are, if possible, in the area of the body's centre of gravity.

IN DETAIL

IGNITE SERIES



The two orange roping-up loops made of fabric are approved for joint use and equipped with abrasion indicator for maximum safety.

The buckle by Fidlock in the chest area snaps magnetically and closes almost automatically.

Exceptional fit due to simplified adjustment options in the chest and leg area.

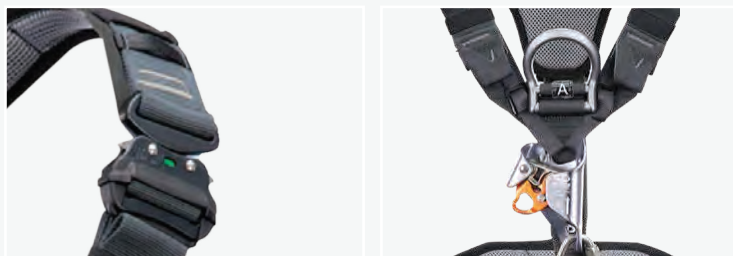
IGNITE SERIES



The synthetic sliding plate protects the hip pad from wear and tear.

Padding in the leg area provides optimum comfort, as friction on the skin and the formation of chafing points are prevented.

GRYPHON / GRYPHON ASCENDER



Shoulder strap with quick-release buckle

CHEST ASCENDER+ included



Straps for HOOK REST support (not included, ACS-0321)

Attachments for work seat (not included)

Fall Protection

ARG 30 G-0030



The high-performance full-body harness ARG 30 is the allrounder for maintenance work and construction.

CS 8 G-0908



The CS 8 is an absolute all-round harness. It is suitable for rope access technology, scaffolding, rescue work and working on wind turbines.

IGNITE TRION G-1131



High-quality all-round harness for industry and craft with climbing vprotection eyelet

IGNITE PROTON WIND G-1132



IGNITE PROTON scores with thermo-shaped hip padding that evenly distributes weight and is protected from wear and tear on the outside with a plate

IGNITE ION STRAP G-1135



The IGNITE ION STRAP is suitable for all classic construction and maintenance applications

GRYPHON G-1172



Comfortable and ergonomic harness equipped with six attachment points and specifically developed for rope access work

WORK TEC 140 G-1179



Ergonomic harness with two EN 361 attachment points developed for restraint systems and for use in fall arrest systems

AIR ASCENT G-1181



Rescue harness for use in hostile environments or with difficult access comprised of sit harness and chest harness.

FALC STANDARD G-1155



High-quality all-round harness for industry and craft with climbing vprotection eyelet

IGNITE NEON G-1153



The IGNITE NEON combines everything needed for a high-quality rope access harness. It has an integrated chest ascender and its own gray loops for attaching the seat board.

IGNITE NUCLEON G-1161



Fully equipped fall arrest and work positioning harness with plastic slide plate and arrester eyelet.

IGNITE NIOB 2.0 G-1143-02



Harness for firefighting, special forces or rope access equipment - covers the most varied use and rescue scenarios in classic H-style.

Accessories For Full Body Harness

XARRIER G-1173



The lightweight and ergonomic seat harness XARRIER is excellent for rope access workers who prefer comfort combined with lightness.

XARRIER TOP X G-1174



The CS 8 is an absolute all-round harness. It is suitable for rope access technology, scaffolding, rescue work and working on wind turbines.

XARRIER TOP Y G-1175



Detachable chest harness that combines with XARRIER seat harness to form a full-body harness equipped with five attachment points. Ideal for rescue operations.

WAIST TEC G-1180



Ergonomic waist belt designed for restraint systems and work in positioning. It can be combined with the WORK TEC 140 fall arrest harness.

SHOULDER PAD IGNITE ACS-0302



The removable and washable shoulder pads are suitable for all harnesses of the IGNITE series.

LEG PAD IGNITE ACS-0303



The removable and washable leg pads are suitable for all harnesses of the IGNITE series.

SEAT TEC G-0208



Robust, adjustable positioning seat developed for suspended working. Equipped with seven sturdy gear loops, positioned for optimal load distribution.

SLIDING BRIDGE G-1152



The flexibly exchangeable SLIDING BRIDGE with one O-ring is designed as a substitute or replacement part for the IGNITE ARB.

LANY PARK ACS-0190



Provides space for lanyards while not in use

STAND UP ACS-0305



This flexible loop ascender can be particularly well adjusted to the size of the user, especially for very large people.

RESC B G-1042-B



This rescue sheet can be used instead of a harness for abseiling in an emergency. The rescue sheet can be adjusted to almost all body sizes due to its different eyelets.

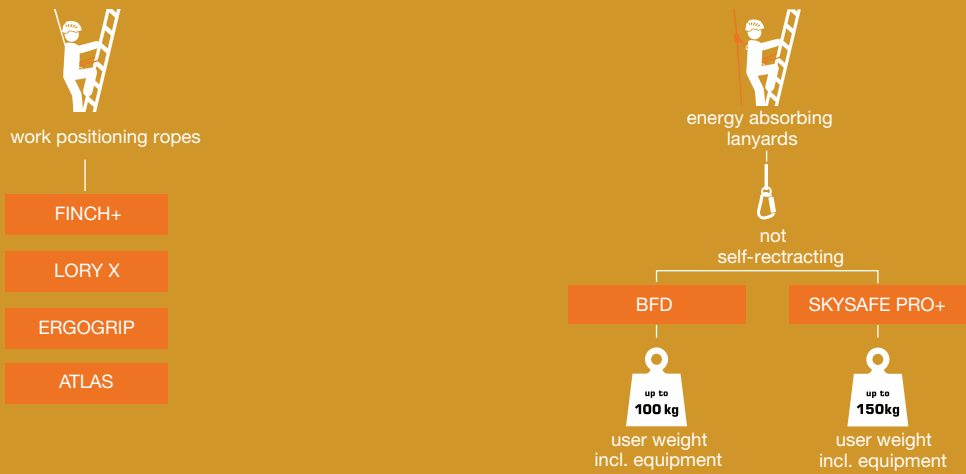
HOOK REST ACS-0321



Support specifically designed for the attachment of the carabiners of a fall arrest lanyard when only one arm is used, or when the equipment as a whole is not used.







Lanyards are the most important component between the harness and the anchor point and, in the form of positioning ropes, are primarily used for safe work positioning at height. Energy absorbers, on the other hand, reduce the force acting on the body (impact force) to a minimum in the event of a fall. The given user weight is decisive and must be taken into account in the selection.

SELECTION GUIDE

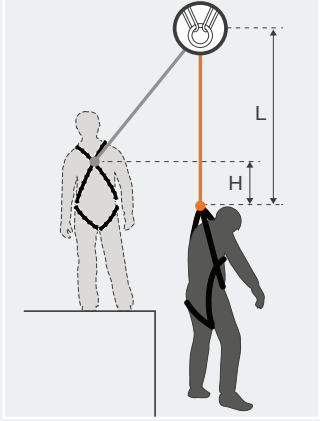


POSITIONING LANYARDS

ENERGY ABSORBING LANYARDS

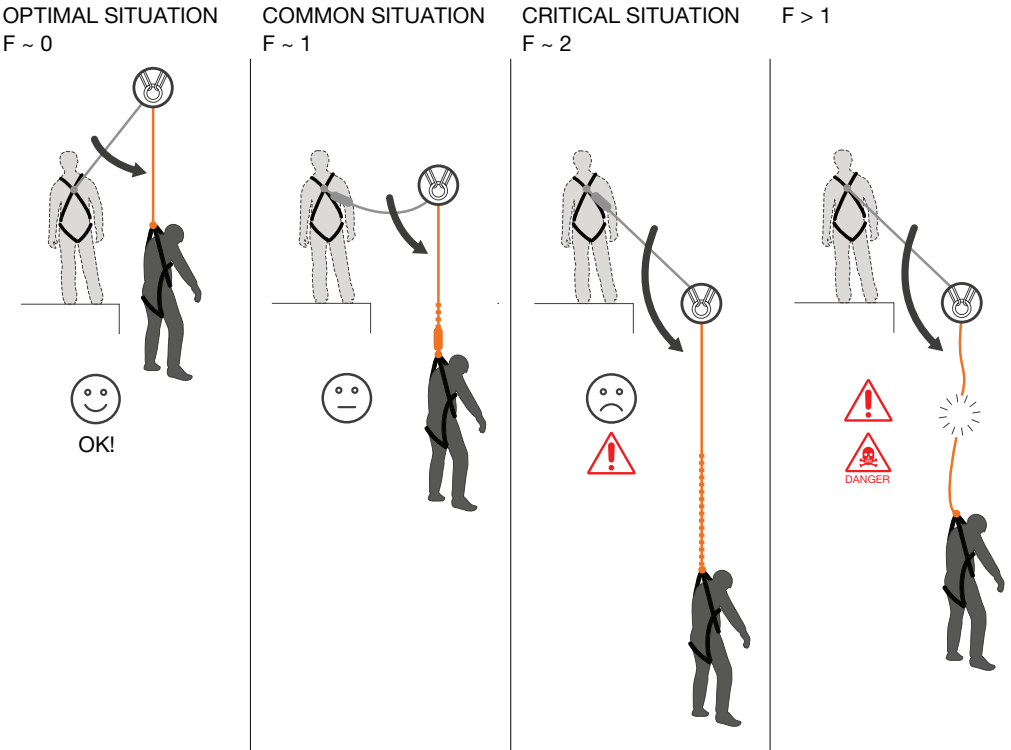
						
	FINCH+	LORY X	ERGOGRIP	ATLAS	BFD SK12 I + Y	SKYSAFE PRO+ I + Y
Max. user weight (in kg)	140 kg	150 kg	140 kg	150 kg	100 kg	150 kg
Integrated RESCUE LOOPS	✗	✗	✗	✗	✗	✓
Bypass-proof lanyard	✗	✗	✗	✗	✗	✓
Reduced falling height due to self-retractable system	✗	✗	✗	✗	✗	✗
Material	aluminium, polyamide, steel	aluminium, polyamide, steel	aluminium, polyamide, steel	aluminium, polyamide, steel	polyamide rope	polyester flex webbing
Edge-tested (horizontal use)	✗	✗	✗	✗	✗	✓
Suitable for work platforms	✗	✗	✗	✗	✗	✗
Available lengths	2 m, 3 m, 4 m, 5 m	1.5 m, 2 m, 3 m, 5 m	1.5 m, 2 m, 2.5 m, 3 m, 3.5 m, 4.5 m	1.5 m, 2 m	1.5 m, 2 m	1.8 m

Fall Factor



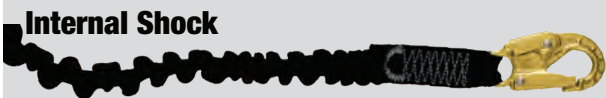
$F = H / L$
F = fall factor
H = stretching distance
L = length of the rope or safety device

Example: H = 0,3 m
L = 1,5 m
F = 0,3 / 1,5 = 0,2



Lanyard options

Internal Shock



Shock absorbing functionality incorporated into entire length of lanyard.

External Shock



Shock absorbing functionality incorporated into integral external shock pack.

Non-Shock



No shock absorbing functionality.

Adjustable



Adjust to fit length required by job.

Tie-Back



For tying around compatible structural anchor.

Tie-Off



For workers to move horizontally from one area to another while being continuously attached.

Work Positioning



Used in work positioning applications.

Extension



Hook types



One-hand operation makes snap hooks the most popular in the industry.

You can even operate them with your gloves on. Open and close without getting your fingers in the way!

All lanyards feature 16kN rated gates, meeting the rigorous ANSI Z359 standard.

Lanyard hook options

FS 51 ST Hook 18 mm gate opening. 20kN gate strength. Material: Steel	FS 90 ALU Hook 60 mm gate opening. 22 kN gate strength Material: Aluminium	FS 90 ST Rebar Hook 50 mm gate opening. 23 kN gate strength. Material: Steel	FS 90 ST ANSI Hook 60 mm gate opening. 50 kN gate strength. Material: Steel
FS 92 Hook 90 mm gate opening - 23kN gate strength. Material: Steel	FS 64 ALU Lock Hook 64 mm gate opening. 28 kN gate strength Material: Aluminium	ATTACK Hook 25 mm gate opening. 36 kN gate strength. Material: Aluminium	WIB IND ANSI Hook 30 mm gate opening. 16kN gate strength. Material: Steel
SNAP HOOK 23kN 22 mm gate opening - 23 kN gate strength. Material: Steel	KOBRA AL TRI Carabiner 22 mm gate opening. 45 kN gate strength. Material: Aluminium	KOBRA TRI Carabiner 22 mm gate opening. 45 kN gate strength. Material: Steel	STAK TRI Carabiner 22 mm gate opening. 28 kN gate strength. Material: Aluminium

Single-Leg Lanyards



SKYSAFE PRO FLEX

Part Number:	L-0568-1,8
Standards:	EN 354:2010, EN 355:2002, EN 795:2012, RFU PPE-R/11.063, RFU PPE-R/11.074
Maximum lifetime:	10 years
Minimum tensile strength:	22 kN
Lanyard rope diameter:	30.00 mm
Length:	1.8 m
Weight:	1.4 kg
Carabiner on anchoring point side:	FS 90 ST
Carabiner on belt side:	KOBRA TRI
Material:	Polyester, Steel
Rope material:	Polyester



SKYSAFE PRO+

Part Number:	L-0834-1C8
Standards:	EN 354:2010, EN 355:2002, EN 795:2012, RFU 11.063, RFU 11.074,
Maximum lifetime:	10 years
Minimum tensile strength:	22 kN
Lanyard rope diameter:	30.00 mm
Length:	1.8 m
Weight:	1.15 kg
Carabiner on anchoring point side:	FS 90 ST
Carabiner on belt side:	KOBRA TRI
Material:	Polyamide, Polyester, Steel
Rope material:	Polyamide, Polyester



BFD SK12

Part Number:	L-0095-1 L-0095-1.5 L-0095-2
Standards:	EN 354:2010, EN 355:2002
Maximum lifetime:	10 years
Minimum tensile strength:	22 kN
Lanyard rope diameter:	12.00 mm
Length:	1 m 1.5 m 2 m
Weight:	1.31 kg 1.35 kg 1.39 kg
Carabiner on anchoring point side:	KOBRA TRI
Carabiner on belt side:	KOBRA TRI
Material:	Polyamide, Steel
Rope material:	Polyamide



BFD SK12

Part Number:	L-0128-1 L-0128-1.5 L-0128-2
Standards:	EN 354:2010, EN 355:2002
Maximum lifetime:	10 years
Minimum tensile strength:	22 kN
Lanyard rope diameter:	12.00 mm
Length:	1 m 1.5 m 2 m
Weight:	1.48 kg 1.52 kg 1.56 kg
Carabiner on anchoring point side:	FS 90 ST
Carabiner on belt side:	FS 51 ST
Material:	Polyamide, Steel
Rope material:	Polyamide



BFD SK12

Part Number:	L-0194-1,5 L-0194-1,8 L-0194-2
Standards:	EN 354:2010, EN 355:2002
Maximum lifetime:	10 years
Minimum tensile strength:	22 kN
Lanyard rope diameter:	12.00 mm
Length:	1.5 m 1.8 m 2 m
Weight:	1.63 kg 1.88 kg 1.68 kg
Carabiner on anchoring point side:	FS 90 ALU
Carabiner on belt side:	STAK TRI
Material:	Aluminium, Polyamide
Rope material:	Polyamide



BFD SK12

Part Number:	L-0096-1 L-0096-1,5 L-0096-2
Standards:	EN 354:2010, EN 355:2002
Maximum lifetime:	10 years
Minimum tensile strength:	22 kN
Lanyard rope diameter:	12.00 mm
Length:	1 m 1.5 m 2 m
Weight:	1.24 kg 1.28 kg 1.33 kg
Carabiner on anchoring point side:	FS 51 ST
Carabiner on belt side:	FS 51 ST
Material:	Polyamide, Steel
Rope material:	Polyamide



BFD SK12

Part Number:	L-0097-1 L-0097-1.5 L-0097-2
Standards:	EN 354:2010, EN 355:2002
Maximum lifetime:	10 years
Minimum tensile strength:	22 kN
Lanyard rope diameter:	12.00 mm
Length:	1 m 1.5 m 2 m
Weight:	1.34 kg 1.39 kg 1.43 kg
Carabiner on anchoring point side:	FS 64 ALU
Carabiner on belt side:	STAK TRI
Material:	Aluminium, Polyamide
Rope material:	Polyamide



BFD SK12

Part Number:	L-0098-1.5 L-0098-2
Standards:	EN 354:2010, EN 355:2002
Maximum lifetime:	10 years
Minimum tensile strength:	22 kN
Lanyard rope diameter:	12.00 mm
Length:	1.5 m 2 m
Weight:	1.86 kg 1.96 kg
Carabiner on anchoring point side:	FS 92
Carabiner on belt side:	FS 51 ST
Material:	Polyamide, Steel
Rope material:	Polyamide

Twin-Leg Lanyards

**SKYSAFE PRO**

Part Number:	L-0559-1,8
Standards:	EN 354:2010, EN 355:2002, EN 795:2012, RFU PPE-R/11.063, RFU PPE-R/11.074
Maximum lifetime:	10 years
Minimum tensile strength:	22 kN
Lanyard rope diameter:	30.00 mm
Length:	1.8 m
Weight:	1.85 kg
Carabiner on anchoring point side:	FS 90 ALU
Carabiner on belt side:	STAK TRI
Material:	Aluminium, Polyamide, Polyester
Rope material:	Polyamide, Polyester

**BFD Y FLEX**

Part Number:	L-0209-1,5
Standards:	CNB/P/11.063:2014, EN 354:2010, EN 355:2002
Maximum lifetime:	10 years
Minimum tensile strength:	22 kN
Lanyard rope diameter:	30.00 mm
Length:	1.5 m
Weight:	2.26 kg
Carabiner on anchoring point side:	FS 90 ST
Carabiner on belt side:	FS 51 ST
Material:	Steel, Polyamide, Polyester
Rope material:	Polyamide, Polyester

**BFD SK12**

Part Number:	L-0117-2
Standards:	EN 354, EN 355:2002
Maximum lifetime:	10 years
Minimum tensile strength:	22 kN
Lanyard rope diameter:	12.00 mm
Length:	2 m
Weight:	2.38 kg
Carabiner on anchoring point side:	FS 90 ST
Carabiner on belt side:	FS 51 ST
Material:	Steel, Polyamide
Rope material:	Polyamide

**SKYSAFE PRO**

Part Number:	L-0561-1,8
Standards:	EN 354:2010, EN 355:2002, EN 795:2012, RFU PPE-R/11.063, RFU PPE-R/11.074
Maximum lifetime:	10 years
Minimum tensile strength:	22 kN
Lanyard rope diameter:	30.00 mm
Length:	1.8 m
Weight:	2 kg
Carabiner on anchoring point side:	FS 90 ST
Carabiner on belt side:	KOBRA TRI
Material:	Steel, Polyamide, Polyester
Rope material:	Polyamide, Polyester

**SKYSAFE PRO**

Part Number:	L-0572-1,8
Standards:	ANSI Z359.13-6/12FTFF:2013, AS/NZS 1891.1:2007, EN 354:2010, EN 355:2002, EN 795:2012, MEETS CSA Z259.11-05-E6:2010, RFU PPE-R/11.063, RFU PPE-R/11.074
Maximum lifetime:	10 years
Minimum tensile strength:	22 kN
Lanyard rope diameter:	25.00 mm
Length:	1.8 m
Weight:	2.72 kg
Carabiner on anchoring point side:	FS 90 ST ANSI
Carabiner on belt side:	KOBRA TRI
Material:	Steel, Polyamide, Polyester
Rope material:	Polyester, Polyamide

**SKYSAFE PRO**

Part Number:	L-0642-1,8
Standards:	EN 354:2010, EN 355:2002, EN 795:2012, RFU PPE-R/11.063, RFU PPE-R/11.074
Maximum lifetime:	10 years
Minimum tensile strength:	22 kN
Lanyard rope diameter:	25.00 mm
Length:	1.2 m - 1.8 m
Weight:	2.55 kg
Carabiner on anchoring point side:	FS 90 ST ANSI
Carabiner on belt side:	KOBRA TRI
Material:	Steel, Polyamide, Polyester
Rope material:	Polyester, Polyamide

**SKYSAFE PRO+**

Part Number:	L-0561-1,8
Standards:	EN 354:2010, EN 355:2002, EN 795:2012/B, RFU PPE-R/11.074
Maximum lifetime:	10 years
Minimum tensile strength:	22 kN
Lanyard rope diameter:	30.00 mm
Length:	1.8 m
Weight:	2.33 kg
Carabiner on anchoring point side:	FS 64 ALU
Carabiner on belt side:	KOBRA AL TRI
Material:	Aluminium, Polyamide, Polyester
Rope material:	Polyester, Polyamide

**SKYSAFE PRO+**

Part Number:	L-0836-1C8
Standards:	EN 354:2010, EN 355:2002, EN 795:2012/B, RFU PPE-R/11.074
Maximum lifetime:	10 years
Minimum tensile strength:	22 kN
Lanyard rope diameter:	30.00 mm
Length:	1.8 m
Weight:	2.48 kg
Carabiner on anchoring point side:	FS 90 ST ANSI
Carabiner on belt side:	KOBRA TRI
Material:	Steel, Polyamide, Polyester
Rope material:	Polyester, Polyamide

Positioning Lanyards



ERGOG RIP SK12

Part Number:	L-0030-2
Standards:	EN 358:2018
Maximum lifetime:	10 years
Minimum tensile strength:	15 kN
Length:	2 m
Weight:	1.22 kg
Lanyard rope diameter:	12.00 mm
Material:	Polyamide, Aluminium
Rope material:	Polyamide



ERGOG RIP SK12

Part Number:	L-0031-2
Standards:	EN 358:2018
Maximum lifetime:	10 years
Minimum tensile strength:	15 kN
Length:	2 m
Weight:	1.39 kg
Lanyard rope diameter:	12.00 mm
Material:	Polyamide, Steel
Rope material:	Polyamide



ERGOG RIP SK 12

Part Number:	L-0277-2
Standards:	EN 358:2018
Maximum lifetime:	10 years
Minimum tensile strength:	15 kN
Length:	2 m
Weight:	1.36 kg
Lanyard rope diameter:	12.00 mm
Material:	Polyamide, Aluminium
Rope material:	Polyamide



ERGOG RIP SK 12

Part Number:	L-0259-2
Standards:	EN 358:2018
Maximum lifetime:	10 years
Minimum tensile strength:	15 kN
Length:	2 m
Weight:	1.43 kg
Lanyard rope diameter:	12.00 mm
Material:	Aluminium, Polyamide, Steel
Rope material:	Polyamide



LORY X

Part Number:	L-0761-2
Standards:	EN 358:2018, EN 795-B:2012
Maximum lifetime:	10 years
Minimum tensile strength:	15 kN
Length:	2 m
Weight:	1.38 kg
Lanyard rope diameter:	11.00 mm
Material:	Aluminium, Polyamide, Steel
Rope material:	Polyamide



ERGOG RIP SK 16

Part Number:	L-0368-1,8
Standards:	ANSI/ASSP Z359.3, EN 358:2018
Maximum lifetime:	10 years
Minimum tensile strength:	15 kN
Length:	1.8 m
Weight:	1.89 kg
Lanyard rope diameter:	16.00 mm
Material:	Polyamide, Steel, Aluminium
Rope material:	Polyamide



FINCH+ SHELTER-S

Part Number:	L-1009-2 L-1009-3 L-1009-5
Standards:	CEN/TS 16415:2013, EN 12841-C:2006, EN 358:2018, EN 795-B/C:2012
Maximum lifetime:	10 years
Length:	2 m 3 m 5m
Weight:	0.82 kg 0.89 kg 1.05 kg
Lanyard rope diameter:	11.00 mm
Material:	Polyamide, Steel, Aluminium
Rope material:	Polyamide



FINCH+ ADVANCE

Part Number:	L-1011-2, L-1011-3 , L-1011-5
Standards:	CEN/TS 16415:2013, EN 12841-C:2006, EN 358:2018, EN 795-B/C:2012
Maximum lifetime:	10 years
Length:	2 m 3 m 5m
Weight:	0.69 kg 0.77 kg 0.93 kg
Lanyard rope diameter:	11.00 mm
Material:	Polyamide, Steel, Aluminium
Rope material:	Polyamide



ATLAS SK12

Part Number:	L-0138-1,5 L-0138-2
Standards:	EN 358:2018, GB 6095:2021
Maximum lifetime:	10 years
Minimum tensile strength:	29.00 kN
Length:	1.5 m 2 m
Weight:	1.19 kg 1.24 kg
Lanyard rope diameter:	12.00 mm
Material:	Aluminium, Polyamide, Steel
Rope material:	Polyamide



ATLAS SK12

Part Number:	L-0139-1,5 L-0139-2
Standards:	EN 358:2018
Maximum lifetime:	10 years
Minimum tensile strength:	29.00 kN
Length:	1.5 m 2 m
Weight:	0.93 kg 0.98 kg
Lanyard rope diameter:	12.00 mm
Material:	Polyamide, Steel, Aluminium
Rope material:	Polyamide



SELECTION GUIDE



rope access devices



fall-arrest devices

EASY ACCESS

detachable adjuster

EASY SPEED

detachable adjuster

SKR-2

detachable adjuster

SCOUT

non-detachable adjuster

SKN BFD SK 11

non-detachable adjuster



SCOUT



EASY SPEED



EASY ACCESS



SKN BFD SK 11



SKR-2

	SCOUT	EASY SPEED	EASY ACCESS	SKN BFD SK 11	SKR-2
Detachable adjuster	✗	✓	✗	✗	✓
Rope protection	✗	N/A	N/A	✗	N/A
Rated load	150 kg	140 kg (EN 12841:2006-A) 100 kg (EN 12841:2006-B) 140 kg (EN 353-2:2002) 120 kg (RFU 11.075)	140 kg (LINK 20, LINK 40)	140 kg	140 kg (EN 12841:2006-A, EN 353-2:2002)
Compatibility	N/A	LINK 20, LINK 40 (EN 12841:2006-A) EN 362 connector (EN 12841:2006-B) EN 362 connector, LINK 20, LINK 40 (EN 353-2:2002) LINK 20, LINK 40 (RFU 11.075)	LINK 20, LINK 40	N/A	EN 362 connector, KIT12
Available lengths	5 m, 10 m, 15 m, 20 m, 30 m, 50 m, 75 m, 100 m	N/A	N/A	5 m, 10 m, 15m, 20 m, 25 m	N/A
Rope diameter	11 mm	10.5 - 11 mm	11 mm	11 mm	10.5 - 11 mm
Standards	EN 353-2:2002 RFU 11.075	EN 12841:2006-A/B EN 353-2:2002 RFU 11.075	EN 12841:2006-A	EN 353-2:2002 RFU 11.075	EN 12841:2006-A EN 353-2:2002

KIT 12 L-1012



Accessory component to be used in combination with the SKR-2 device. Allows the user greater mobility. Lightweight and robust. Length: 32 cm (connectors included).

LINK 20 L-0829



Accessory component to be used in combination with the EASY SPEED and EASY ACCESS devices. Allows the user greater mobility. Length: 20 cm (excluding connectors).

LINK 40 L-0817



Accessory component to be used in combination with the EASY SPEED and EASY ACCESS devices. Allows the user greater mobility. Length: 40 cm (excluding connectors).

Self-Retracting Lifelines

1 Connector

Simplifies connection to anchor point (use Carabiner, Hook or Sling).

2 Top anchor/Handle

Helps prevent lifeline twisting and reduces wear on web lifeline.

3 Impact resistant case

Thermoplastic housing is lightweight, compact and durable.

4 Lifeline

The lifeline can be stainless steel/ galvanized steel or webbing.

5 Indicator

Designed to aware if the fall happens.

6 Hook

Self-locking snap hook.



Hook Types



FS 51 ST HOOK

FS 90 ST HOOK



SNAP HOOK 23kN

FS 64 ALU HOOK



FS 92 HOOK

FS 90 ST ANSI HOOK



Carabiner

How to choose the right SRL

1. Anchor location

Not all SRLs are the same. SRLs designed for anchoring at foot-level are different than those meant for overhead anchorage.

2. Lifeline material

Galvanized and stainless steel increase durability and dependability, while web is lighter for personal use.

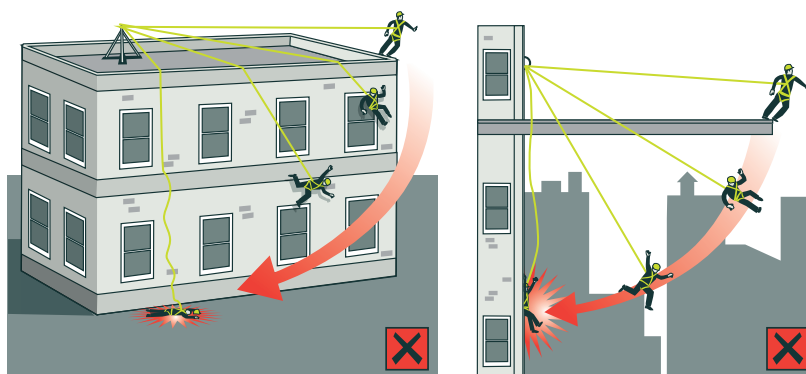
3. Length

Select a length that will allow maximum mobility while still arresting your fall at a safe distance.

4. Hook options

A variety of hook options help you to be flexible on the job when tying off to fall arrest rated anchor points.

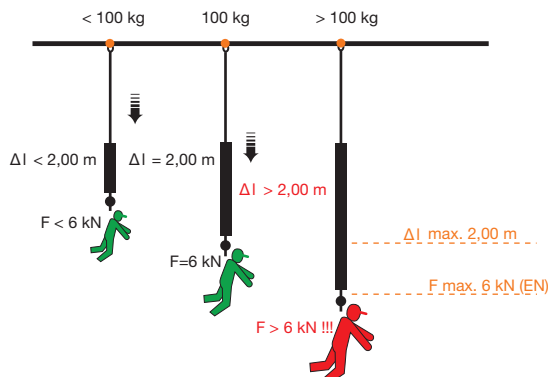
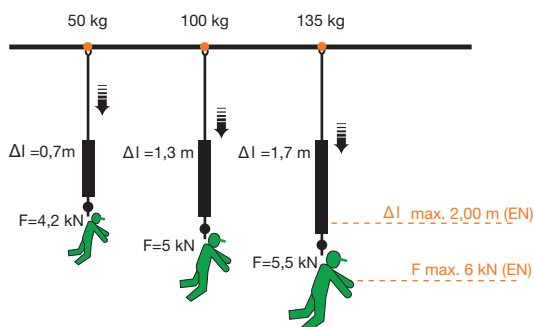
How to prevent the pendulum effect



Pendulum effect caused by anchor point rope too long (left) and anchor point swing back (right)

- > Select an anchorage point at a right angle to the position of the line at the perimeter edge. If a right angle to the work position is not possible to achieve, the anchor point should be no more than 30 degrees to the work position. A mobile anchorage may be used.
- > Use a secondary anchor point and/or an anchor line.
- > Use a perimeter guardrail to prevent the possibility of a fall.
- > Use a work positioning system, or some other means of access such as an elevating work platform.

The ultra-compact fall protection device PEANUT, with the One-4-All shock absorber a large weight range from 50 kg to 135 kg that always withstands a maximum impact of less than 6 kN at a maximum absorber length of 2.00 m. When using the PEANUT, the load on the entire safety chain is reduced. As a result, PEANUT can be used in combination with any of our harnesses for a user weight from 50 kg up to 135 kg.





The RAPTOR retractable type fall arrester with self-retracting wear galvanized steel cable and automatic blocking function enables safe working at height and depth.

RAPTOR is modular in design so that all components can be replaced individually, reducing inspection times and maintenance costs. An energy-absorbing inlet damper protects the device housing and the internal mechanics, so that continuously occurring impacts can be reduced and hand injuries can be excluded when pulling in the rope.

RAPTOR
HSG-040-6-LENGTH, HSG-042-LENGTH, HSG-042-LENGTH-S



- 2 fall indicators for double safety: Ensure unrestricted functionality with a visual check before each use
- Low maintenance costs, since the device can be checked by skilled individuals. Red colour indicates maintenance by an authorised service engineer is required
- Energy-absorbing retraction snubber: protection of the device housing and internal mechanisms from regular impacts, avoidance of hand injuries
- Design with inlet on the underside of the device ensures the direct transfer of forces into the device in the event of a fall
- Anchor point in grip shape allows intuitive use and prevents incorrect attachment
- Suitable for edges without additional shock absorber
- With RAPTOR attached overhead, it's possible to work safely up to an angle of 45° with lateral deflection of up to 1.5 m.



RAPTOR W / C / CS

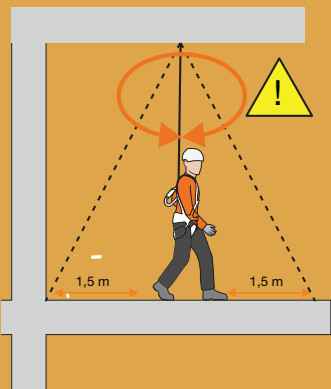
Max. user weight (kg)	140 kg
Self-retractable	✓
Edge-tested	✓ (edge testet for C6, C10, C20)
Modular setup for easy revision	✓
Material of the lanyard	webbing, steel or stainless steel cable
Fall indicator	at device and carabiner
Variants or max. working lengths	Webbing: 6 m 8 m Steel cable: 6 m 10 m 20 m Stainless steel cable with stainless steel SNAP HOOK: 10 m 20 m
Specialities	interchangeable marking, easy storage and modular construction, longer lifetime
Accessories	integrated rubber inlet damper protects housing and hands

The RAPTOR HUB retractable type fall arrester with a 20 m steel cable and automatic blocking function enables safe working at height and depth. RAPTOR HUB is in contrast to the RAPTOR additionally equipped with a rescue lifting device, which can be activated in an emergency and allows a quick rescue. After verification by a competent person, the device is ready for use again after the use of the rescue lifting device, which increases its economic efficiency.



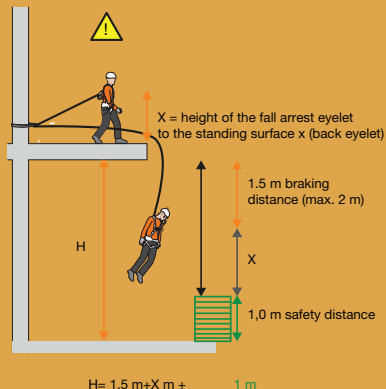
Usable independently or in combination with an individual holder on TRIBOC, JACKPOD TRI and JACKPOD DAVIT, which can remain permanently on the mobile anchor points

WITH RAPTOR ATTACHED OVERHEAD



With RAPTOR it's possible to work safely with lateral deflection of up to 1.5 m.

WORKING HEIGHT WHEN USING THE RAPTOR RETRACTABLE FALL ARRESTER FOR HORIZONTAL APPLICATION



When using the RAPTOR, a minimum working height (H) must be maintained.

Self-Retracting Lifelines

HK PLUS

Self Retracting Lifeline

HK PLUS fall-arrest blocks stand for a high degree of freedom of movement along with a short fall distance, which makes these reliable fall arresters the ideal companions for many jobs at height. The automatic rope retraction ensures that only the rope length actually required is extended. This means that the arrest distance is always as short as possible, whether the system is anchored overhead or applied horizontally.

Features:

- Maximum vertical working weight up to 140kg
- Edge suitability: HK PLUS devices are suitable for edges without using additional energy absorbers, which makes them appropriate for horizontal use as well
- Fall indicator: Carabiner has an integrated color symbol to display a previous fall and indicates that the device needs to be checked
- Resistant materials: Synthetic housing integrates cutting-edge technology for an extended service life



Part number	Max. Service Life	Cable Material	Rated Load	Fall Indicator	Weight	Length
HSG-050-06	10 Years	Steel	140 kg	Yes	3.7 kg	6 m
HSG-050-10	10 Years	Steel	140 kg	Yes	4.1 kg	10 m
HSG-050-15	10 Years	Steel	140 kg	Yes	7.32 kg	15 m

TUFF-BLOC

Self Retracting Lifeline

The TUFF-BLOC features an energy absorbing over-mould design suitable for robust environments. This unique housing provides protection to the internal mechanisms and allows for easy storage when stacking.

Features:

- Tough durable housing built for hard knocks.
- Built in fall indicator.
- Ezy-Grip handle providing easy installation when holding up SRL for install.
- Carry/storage clip.



Part number	Max. Service Life	Cable Material	Rated Load	Fall Indicator	Ezy-Grip Handle	Weight	Length
TUFF-BLOC006	5 Years	Galvanized Steel	140 kg	Yes	Yes	4.5 kg	6 m
TUFF-BLOC010	5 Years	Galvanized Steel	140 kg	Yes	Yes	5.6 kg	10 m
TUFF-BLOC015	5 Years	Galvanized Steel	140 kg	Yes	Yes	8.1 kg	15 m
TUFF-BLOC020	5 Years	Galvanized Steel	140 kg	Yes	Yes	10.6 kg	15 m

AERO-BLOC

Self Retracting Lifeline

Ergonomically designed to be used as a single person fall protection device. The 2m Aero-Bloc's lightweight compact design fits comfortably to the users harness keeping the Aero-Bloc out of the workers way.

Features:

- Lightweight compact unit.
- Clear durable housing for ease of unit inspection.
- External shock pack with durable cover.
- 140kg user rating.



Part number	Type	Material	Rated Load	Fall Indicator	Minimum Breaking Strength	Weight	Length
AEROBLOC2M-SH-KB	Single-Leg With Snap Hook	Webbing	140 kg	Yes	16kN	1.40 kg	2 m
AEROBLOC2M-RH-KB	Single-Leg With Rebar Hook	Webbing	140 kg	Yes	16kN	2.70 kg	2 m
AEROBLOC2M-SH-X2	Twin-Leg With Snap Hook	Webbing	140 kg	Yes	16kN	1.80 kg	2 m
AEROBLOC2M-RH-X2	Twin-Leg With Rebar Hook	Webbing	140 kg	Yes	16kN	3.60 kg	2 m

PEANUT

Self Retracting Lifeline

The PEANUT Y is edge-suitable and thus also serves for horizontal securing. The product contains the One-4-All damper and is therefore suitable for a very wide range of user weights from 50 to 135 kilograms. Due to the 2.5 m long arms, the PEANUT Y is ideal for securing in scaffolding. The fastener is available in a variety of karabiner variants (aluminium, steel, etc.). A red indicator shows when the strap has been released and provides additional safety.

Features:

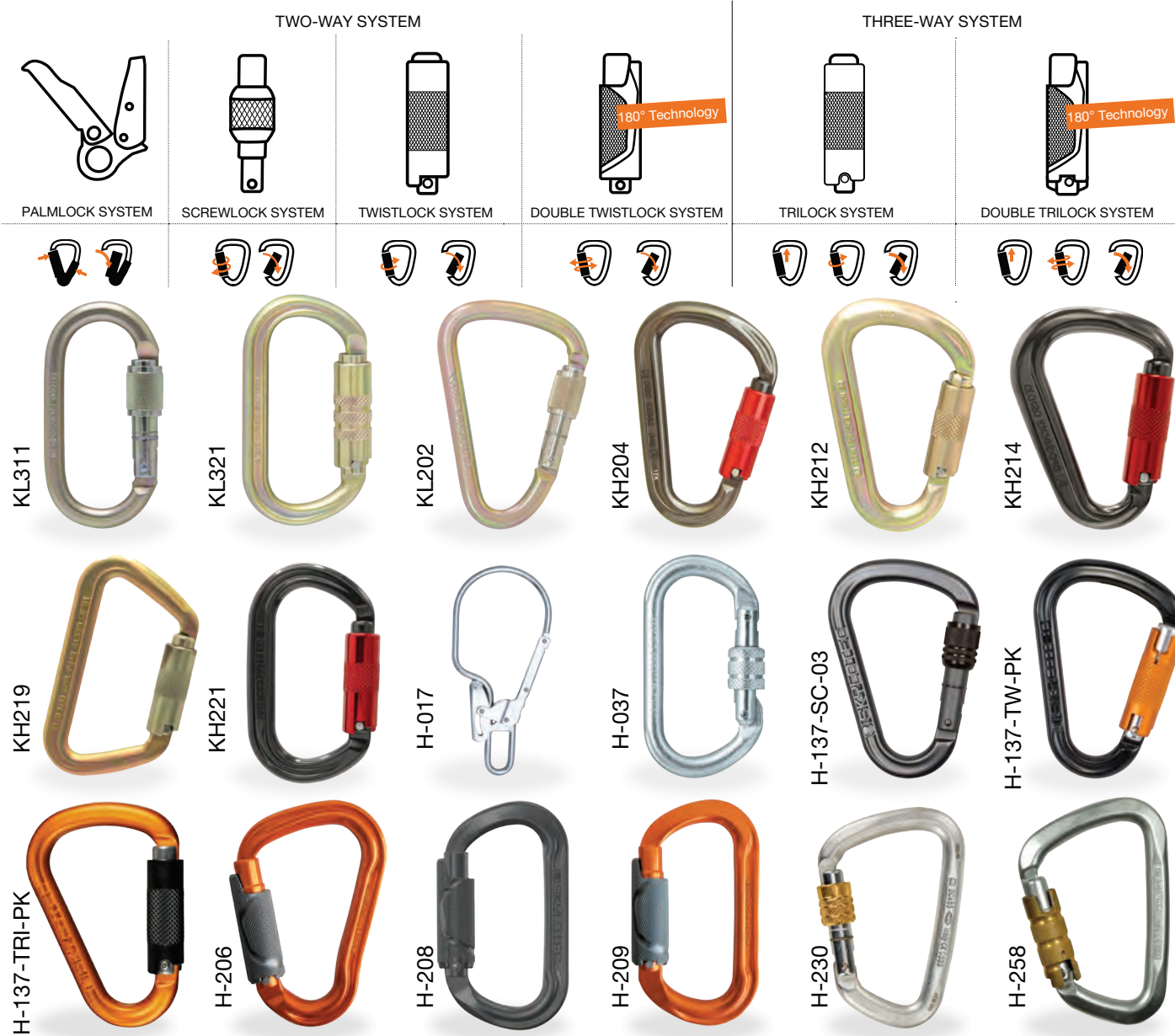
- A weight range from 50kg to 135 kg
- Edge certified
- Suitable for horizontal use applications
- A unique zip lock cover over the shock pack. This allows it to be removed for 100% inspection & maintenance i.e. if the device becomes wet the zip lock cover can be removed & the shock pack laid out to dry, prolonging the life of the product
- The PEANUT devices are certified for anchorage as low as foot level.



Red indicator shows if the shock absorber had been triggered

Part number	Max. Service Life	Material	Fall Indicator	Maximum User Weight Vertical	Minimum User Weight	Weight	Length
HSG-022-1,8-3	10 Years	Aluminium, Polyamide, Polyester, Steel	Yes	135 kg	50 kg	3.14 kg	1.8 m
HSG-022-2,5-1	10 Years	Aluminium, Polyamide, Polyester, Steel	Yes	135 kg	50 kg	2.86 kg	2.5 m
HSG-022-2,5-3	10 Years	Aluminium, Polyamide, Polyester, Steel	Yes	135 kg	50 kg	3.03 kg	2.5 m

A carabiner or karabiner is a specialized type of shackle, a metal loop with a spring-loaded gate used to quickly and reversibly connect components, most notably in safety-critical systems.

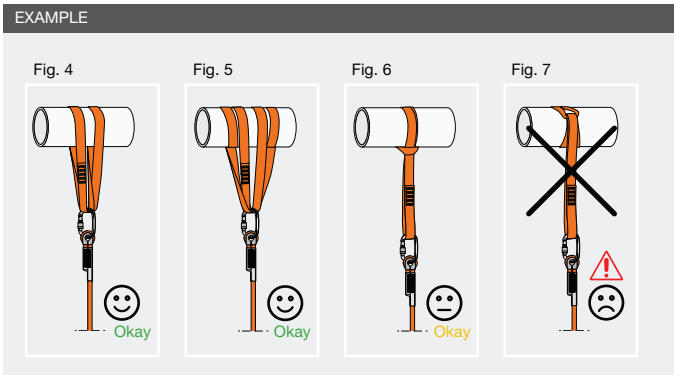
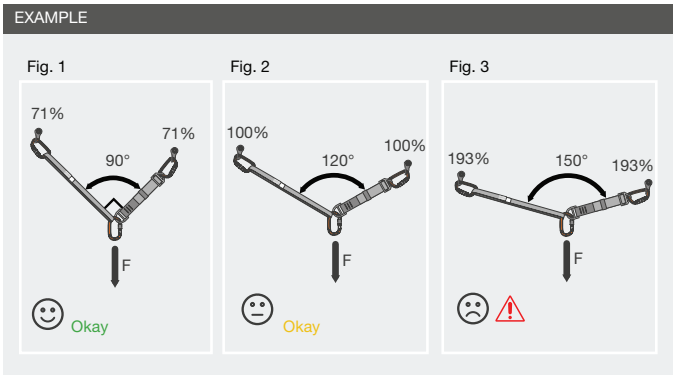


Part number	Dimensions	Material	Gate Opening	Locking Mechanism	Minimum Breaking Strength	Weight	Standards
KL311TL1	110 x 59 x 18mm	Steel	16mm	Screwlock	30kN	121g	EN362
KL321SS1	109 x 61 x 19mm	Steel	17mm	Twistlock	40kN	211g	EN362, ANSI z359.12
KL202SG1	-	Steel	26mm	Screwlock	45kN	250g	EN362
KH204TLB1	-	Aluminium	22mm	Twistlock	27kN	93g	EN 362
KH212TLB1	-	Steel	23mm	Twistlock	50kN	276g	EN 362
KH214SSB1	-	Aluminium	19mm	Trilock	27kN	98g	EN 362
KH219SG1	-	Steel	28mm	Screwlock	70kN	264g	EN 362
KH221SG1	-	Aluminium	19mm	Screwlock	25kN	86g	EN 362
H-017	330 x 153mm	Steel	85 mm	Palm lock	23kN	880g	EN 362
H-037	109 x 57mm	Steel	17 mm	Screwlock	25kN	170g	EN 362, EN 12275
H-137-SC-03-PK	112 x 76,5mm	Aluminium	27 mm	Screwlock	22kN	90g	EN 362, EN 12275
H-137-TW-PK	112 x 76,5mm	Aluminium	27 mm	Twistlock	22kN	100g	EN 362, EN 12275
H-137-TRI-PK	112 x 76,5mm	Aluminium	27 mm	Trilock	22kN	100g	EN 362, EN 12275
H-206	110 x 72mm	Aluminium	24 mm	Double Trilock	25kN	80g	EN 362, EN 12275
H-208	113 x 64mm	Aluminium	20 mm	Double Twistlock	25kN	80g	EN 362, EN 12275
H-209	113 x 64mm	Aluminium	20 mm	Double Trilock	25kN	80g	EN 362, EN 12275
H-230	116 x 79mm	Aluminium	25 mm	Screwlock	50kN	253g	EN 362
H-258	116x79mm	Aluminium	25 mm	Trilock	50kN	260g	EN 362

Anchorage

All systems and PPE's to safeguard against falling from a height need to be connected to secure anchor points. The choice of the type of anchor and its positioning is one of the most difficult aspects of working at height and the operator's safety depends on it. Anchors are generally divided into two types:

- Mobile: There are removable anchors positioned by the operator (webbings, struts, tripods, anchor weights etc.). These anchors must comply with standard EN 795 and, as a consequence, must be able to withstand 12 kN
- Structural: Permanent anchors positioned by a competent installer (expansion bolts, glue-in bolts, etc.) or made using parts of the building or structure where the work is taking place (wooden beams, beams, pillars)



Mobile Anchoring Device



The BEAMTAC 2.0 mobile anchoring device is suitable for use as an attachment clamp for steel beams with a flange width of 90 to 380 millimetres and can be used for many different kinds of work in an industrial environment. The successor to the popular BEAMTAC is impressive thanks to its ergonomically optimised operating elements and safety benefits. The easily adjustable clamping jaws ensure rapid and simple attachment to steel beams, whilst the multi-level safety system reliably prevents any unwanted movement or slipping during use. BEAMTAC 2.0 - essential for work in steel and industrial construction, as well as for all other types of plants with a suitable structure (steel beams).

- Features:**
- Suitable for use as an attachment clamp for steel beams
 - Ergonomically optimised operating elements and safety benefits
 - Easily adjustable clamping jaws ensure rapid and simple attachment to steel beam

Specification:

Weight	Size	Material	Standards
2.16 kg	490 x 75 x 109 mm	Aluminium	ANSI/ASSE Z359.18, EN 795



JAMBTAC Mobile Door Truss. Mobile anchoring point for all door widths from 600 to 1,100 mm. The adjustable mobile door truss made of aluminium is very light and can be easily adapted to different door widths. Rounded profile edges and plastic caps at the ends reduce the wear of material, the risk of injuries for the user and prevent the door posts from being scratched. JAMBTAC can be used simultaneously by up to two persons.

- Features:**
- Adjustable mobile door truss
 - Rounded profile edges and plastic caps at the ends
 - Can be used simultaneously by up to two persons.

Specification:

Weight	Size	Material	Standards
7.58 kg	1400 mm	Aluminium	EN 795

Sling | Loop

WEB ANKOR

Adjustable multi-use tape anchor, ideal for constructing high-strength anchor around a structural element.

Features:

- Made of reinforced, abrasion-resistant 45 mm tape;
- Halvanised steel end rings;
- Breaking load 35 kN.

Specification:

Breaking load	Width	Material
35 kN	45 mm	PA

Standards
EN 354, EN 795

LOOP 26 KN

Belt sling with a load capacity of 26kN. Different lengths have different colours so that they can be easily distinguished. Is used in the rope access and rescue sector.

Features:

- Load capacity of 26kN
- Different lengths in different colours
- Rope access technology and rescues

Specification:

Breaking load	Length	Material
26 kN	1 m, 1.5 m, 2 m	PA

Standards
EN 354, EN 795

CIPE

An innovative weaving procedure allows CIPE slings to be made without splices or seams. This not only prevents weak points, it makes handling much easier.

Specification:

Breaking load	Length	Material
22 kN	0.6 m, 1.2 m	Polyester

Standards
ANSI Z359.18, EN 354, EN 795

ANCHOR CABLE 8mm

The ANCHOR CABLE steel cable is ideal for setting up heavy-duty anchorage devices around structural elements and in the strand. It is made of galvanised steel cable (8 mm) and is cut and abrasion resistant. A transparent plastic protective cover protects against wear during use.

Specification:

Breaking load	Length	Material
37.60 kN	1 m	Steel

Standards
ANSI Z359.18, EN 354, EN 795



D5
RP885



The D5™ is a double-stop device with an auto-lock function (which is activated whenever the operator lets go of the handle) and a panic brake which is not overly sensitive in normal use.

D4
RP880



The D4™ is a double-stop device with an auto-lock function (which is activated whenever the operator lets go of the handle) and a panic brake which is not overly sensitive in normal use.

D2
KT860



The KT860 D2 is an innovative 'double-stop' Descender. The 'double-stop' function means that the D2 Descender has a sweet spot in which the descent speed can easily be

RAD
RP815/KT815



The RAD 'Rope Adjustment Device' is a multi-functional device which can be used as part of a work-positioning lanyard. The RAD can also be used for ascent, descent, work-positioning/restraint, belay and progress capture.

A-B
RP810



The A-B Descender is fitted with an extended, spring loaded, flip-down handle, which gives extra leverage, when a fine degree of descent control is required. The flip-down handle is of particular use for extra control of a rescue load.

MARK 1 PLUS
A-031



The abseil device MARK 1 PLUS is a double stop descender with a panic feature.

ROPEGRAP
RP204



This fixed-axle ropegrab is certified to EN567. ISC Ropegrabs have a nonaggressive cam-face design which helps prevent rope wear.

ROPEGRAP
RP205



The RP205 Ropegrab is fitted with a pip-pin axle, making it quick and easy to attach/detach mid-line. A thumb operated push-button is used to disengage the Pip-pin mechanism.

RED BACKUP
RP892



The RED's cams have a positively locking spring, which means that the device is self-parking rather than self-tailing. This is important for Rope Access work techniques as they require the back-up device to be positioned so as to reduce fall factors to a

ASCENDER SIMPLE+
H-330



Multi-use light-alloy right-hand rope ascender for climbing ropes or as a clamp for hauling/rescue.

CHEST ASCENDER+
H-259



Light alloy right-hand chest ascender for climbing up ropes. Equipped with an ascender that can lock on the rope and reduces wear.

CHEST ASCENDER+ HC
H-329



Light alloy right-hand chest ascender for climbing up ropes. Made with special anti-wear finish, ideal for intensive and prolonged use.

Pulleys, Rope Clamps

QUICK UP+ H-327 / H-328



Left or right-hand light alloy ascender handle with ergonomic rubber grip for climbing ropes.

QUICK STEP-A H-226 / H-227



Light alloy right-hand chest ascender for climbing up ropes. Equipped with an ascender that can lock on the rope and reduces wear.

QUICK TREE H-331 / H-332



Removable ascender for the right or left foot, when used in conjunction with an ascender handle or a chest ascender, makes it easier and speeds up the ascent of a rope. Ideal for tree climbing and working at height.

ULTRASAFE RP230/RP240



The Ultrasafe Hand Ascender is fitted with a pin to limit the range movement of the cam in order to prevent the rope from being accidentally pulled out between the cam and the body.

PROFESSIONAL RP210/RP220



The Hand Ascenders are fitted with Stainless Steel cams with cones (rather than spikes), to minimise rope wear.

CHEST H-058



An ascender that attaches at the chest. Moves with the user and provides good protection in the event of a fall.

QT UNIVERSAL H-333



Universal fixing support for QUICK TREE foot ascenders that can be installed onto any boot by using the webbing system with the adjustment buckle.

QT SPURS H-334



Special fixing support for QUICK TREE that has been designed to be installed onto any tree climbing crampons.

UP ROLL H-273



Double pulley, designed for the creation of an auto-blocking rescue winch in combination with the UP LOCK pulley.

UP LOCK H-267



Double locking pulley, designed for the creation of an auto-blocking rescue winch in combination with the UP ROLL pulley.

ORBITER A H-271



Innovative pulley with mobile light alloy side plates. Designed to increase the efficiency of the friction knot.

ORBITER F H-269



Pulley with fixed side plates that allow the insertion of any carabiner. Designed for hauling systems and deviations.

OTTO R S-STEEL A-062



Large-sized figure of eight descender, made of hot forged stainless steel and ideal for belaying the leader in a dynamic way and for abseiling.

Figure 8 RP101



The Rescue figure 8 devices have extended side bars to keep the rope in place, preventing the rope from creeping inwards and causing unwanted locking.

Figure 8 RP110



The Figure 8 Descender is our small standard descender. Made out of lightweight aluminium with an anodised finish. It is suitable for Rope Access and Industrial Height Safety.

ORBITER M
H-270



Pulley with mobile side plates that allow the insertion of any carabiner. Designed for hauling systems and deviations.

ORBITER S
H-274



Pulley with mobile side plates that allow the insertion of any carabiner. Designed for hauling systems and deviations.

ORBITER D
H-275



Pulley with mobile side plates that allow the insertion of any carabiner. Presents an auxiliary attachment point for creating different hauling systems.

ORBITER T
H-276



Double pulley with mobile side plates. Up to three carabiners can be hooked in the large eyelet plus one carabiner in the smaller eyelet.

ORBITER H
H-277



Triple pulley with mobile side plates, very versatile and robust. Ideal for constructing rescue winches with 6x reduction factor or in multiple pulley systems.

DUETTO
H-264



Twin pulley with fixed side plates that allows easy maneuvering on ropes or cables.

EASY RESCUE
H-278



Combined anchor and pulley for evacuation from cable cars and chair lifts. Upper attachment point that allows to slide along the cable without any interference from the rope.

POLLUX
H-200



Pulley with two ball bearings, movable side parts and three eyelets for versatile use under heavy loads.

CASTOR
H-201



Pulley with two ball bearings, movable side parts and three eyelets for versatile use under heavy loads.

GRIZZLY
H-279



Pulley for tree felling for high loads (80 kN). Equipped with an intuitive opening system and a closure mechanism that avoids accidental opening during use. Not a PPE.

TWISTER
H-255



Hot forged light alloy ball bearing swivel, ideal for avoiding rope twisting during load hauling.

TWIRL
H-256



Hot forged light alloy ball bearing swivel, ideal for avoiding rope twisting during load hauling.

RIGGING PLATE Mini
H-085



The RIGGING PLATE Mini is our compact solution for maintaining good belay and stance organisation. Rigging plates are ideal for more complex rigging configurations.

CHEESE PLATE S
H-260



Multi-anchor plate made of hot forged light alloy with 3 lower holes. Upper central hole suitable for insertion of up to 3 carabiners.

CHEESE PLATE L
H-261



Multi-anchor plate made of hot forged light alloy with 5 lower holes. Upper central hole suitable for insertion of up to 3 carabiners.

SELECTION GUIDE



for manual descent

SIRIUS

SPARK

SPARROW 200R

LORY PRO

descending and rigging-up



for automatic speed control
to store at or carry to operation site

MILAN 2.0

rescue down

MILAN 2.0 POWER

rescue up and down



for automatic speed control
personal rescue device to go

DEUS ONE

abseiling and self-evacuating

SIRIUS

SIRIUS packs the advantages of the best descenders for industrial and rescue applications into an extremely compact design - for better handling and long service life. SIRIUS lies perfectly in your hand. The auto-returning operating lever has a particularly small radius of motion so that you can work fast, accurately, more comfortably and safely. During rope insertion, which is intuitive and simple, the carabiner on the harness can stay connected to the device. We designed the route of the rope in such a way that it is protected from twisting and kinking, and from excessive wear and tear.

SIRIUS was developed for extended use under the toughest of conditions. That's why it is made of up to 100 % metal - without any vulnerable synthetic spots.

- outstanding handling thanks to compact design and intuitive route of the rope
- long-lasting and sturdy: 100% metal
- auto-locking function, improved anti-panic-function



Standards	ANSI/ASSP Z359.9, EN 12841-C, EN 15151-1, EN 341-2A, NFPA 2500
Weight	0.51 kg
Material	Aluminium, Steel
Dimension	47x79x175mm
Maximum Abseil Speed	2.00 m/s
Rope Diameter	9 - 12 mm
Maximum Load 1 Persons	141.00 kg
Maximum Load 2 Persons	250.00 kg
Maximum Lifetime	30 years

SIRIUS

SPARK is designed for permanent use in the toughest conditions. The product combines the advantages of the best descenders for industrial and rescue use. SPARK is characterised in particular by its design without antipanic function, which enables fast, precise and uninterrupted abseiling.

Intuitive and simple rope handling, while the carabiner on the harness can remain connected to the device, the well thought-out ergonomics and the precise operation of the lever allow for the best handling. Thanks to the sophisticated rope guide inside the device, the rope is protected against twisting and kinking as well as heavy wear.

- Fast, precise, uninterrupted abseiling without anti-panic-function
- Outstanding handling thanks to compact, ergonomic design and intuitive rope guide
- Durable and robust: 100% metal without vulnerable plastic parts



Standards	EN 12841-C, EN 15151-1, EN 341-2A, NFPA 2500
Weight	0.51 kg
Material	Aluminium, Steel
Dimension	47x79x175mm
Maximum Abseil Speed	2.00 m/s
Rope Diameter	9 - 12 mm
Maximum Load 1 Persons	141.00 kg
Maximum Load 2 Persons	250.00 kg
Maximum Lifetime	30 years

Lory PRO

LORY is a robust descender and belay device. Its various application areas make the Lory your reliable companion for rope access and rescue (abseiling up to 225 kg load). LORY is used for work positioning, as a restraining device at roofs or slab edges, as a temporary anchor or for fall arrest in flexible cable systems.

LORY PRO can also be used for work positioning, as a restraining device at roofs or slab edges, as a temporary anchor or for fall arrest in flexible cable systems.

With LORY PRO, the belaying person can easily feed and take rope. When using the device correctly, it locks automatically if the user was to take a fall.

The LORY PRO, with its unimpeded movement of the cam is the ideal device for industrial purposes. It is equipped with a descent handle that ensures secure and controlled abseiling.

The double-stop function blocks if the handle is pulled overly in panic and provides extra safety



Standards	ANSI/ASSP Z359.3, ANSI/ASSP Z359.9, EN 12841-C, EN 341-2A, EN 795/B, MEETS CSA Z259.11-17 CLASS F
Weight	0.48 kg
Material	Aluminium
Abseiling Height	190 m
Rope Diameter	10 - 12 mm
Maximum Load 1 Persons	141.00 kg
Maximum Rated Load	225.00 kg
Maximum Lifetime	30 years

SPARROW 200R

Self-braking descender for rope work has been developed for high workloads. It allows the operator to lower themselves on the working line, to position themselves on the working line and to ascend the same rope. It is ideal in the event of assisted lowering of two people with the device installed at the anchor (the operator lowers the rescuer and the person being rescued) or for simultaneous lowering of two people (rescuer lowers themselves with the injured person).



Standards	EN 12841-C, EN 341
Weight	0.53 kg
Material	Aluminium
Dimension	87 x 179 mm
Maximum Abseil Speed	2.00 m/s
Rope Diameter	10.5 - 11 mm
Maximum Load	210.00 kg
Maximum Load 2 Persons	200.00 kg
Maximum Lifetime	12 years

DEUS ONE

The DEUS ONE is a personal, fully automatic self-evacuation device. The very small, handy format offers intuitive operation in emergency situations and is ready-to-use due to its configuration with rope and steel carabiners.

Without any necessary additional intervention in the abseiling process, even injured or unconscious persons arrive safely on the ground. The extremely compact and lightweight hybrid rope is only 5.9mm thick and heat-resistant up to 450°C. The set is maximally protected from moisture in a Sealtac packaging and can thus achieve a 15-year service life (exception 20m version).

All components are packed very practically in a compact, protective bag with adjustable straps, making it easy to take to any workplace.

- The smallest, fully automatic self-evacuation device on the market
- Compact to carry on the person
- User weight range: 59 - 141 kg



Standards	ANSI Z359.4, EN 341
Weight	4.42kg 5.47kg 7.91kg 9.41kg
Material	Polyamide, Stainless Steel
Dimension	65 m 100 m 160 m 200 m
Maximum Abseil Speed	0.50 m/s
Rope Diameter	5.9 mm
Maximum Load	140.00 kg
Maximum Load 1 Persons	140.00 kg
Maximum Lifetime	15 years

MILAN 2.0 POWER

The MILAN 2.0 POWER - RESCUE & EVACUATION KITS are the ideal tool for all work sites where an emergency evacuation or rescue may be required. Evacuation or rescue may need to be conducted at height or from a confined space. The MILAN 2.0 Power kits, combined with a Rescue Device Driver (RDD) will enable a swift, simple evacuation or rescue of stranded or injured workers from the work site. Consult your SKYLOTEC Technical Sales Specialist for guidance on the right kit for your needs & any further accessories & training requirements to ensure the rescue teams competence.

- Electrically operated rescue device with RDD
- Enables effortless roping up, < 2 min for 10 m
- 250 kg lifting capacity in an emergency / 280 kg lowering capacity with deflection



Standards	ANSI Z359.4, DIN EN 1496-A, DIN EN 341-1A, MEETS CSA Z259.2.3-1B
Weight	3.14 kg
Material	Aluminium, Polyamide, Steel
Dimension	87 x 179 mm
Maximum Abseil Speed	0.90 m/s
Rope Diameter	9 mm
Maximum Load 1 Persons	141.00 kg
Maximum Load 2 Persons	280.00 kg
Maximum Lifetime	30 years

UP YOU GO

Compact and ready to use. Anti-twisting. Ideal for limited manoeuvring spaces. Auto-locking recovery hoist ideal for use in rescue manoeuvres. Developed for lifting and releasing an injured operator or to tension a system.

- CE-marked and tested with a load of 18 kN for 3 minutes
- It prevents the load from slipping back once has been retrieved, making hauling operations smoother and faster
- Comprised pulleys equipped with sheaves mounted on ball bearings
- Drawstring closure that further expedites setting up the equipment
- Equipped with rope guide (patent pending), installed on the lower pulley, that keeps rope strands parallel and reduces the risk of tangling while in use
- Supplied with two oval OVX TG carabiners with triplex gate and anti-rotation elements
- Spare parts are available (ROPE GUIDE, BAG, FIXBAR, FIX-O)



Standards	EN 564
Weight	0.64 kg 0.85 kg 1.50 kg
Material	Aluminium, Polyamide
Dimension	1 m 2 m 5 m
Maximum Abseil Speed	2.00 m/s
Rope Diameter	8 mm
Maximum Load	4 kN
Efficiency	80 %
Maximum Lifetime	12 years

HAULERBINER

The HaulerBiner Rescue is a compact kit, which can be worn on the harness and used for Pick-off Rescue in work at height and rope access rescues. The HaulerBiner can also be used to easily adjust the orientation of a stretcher and can be used for short-haul tensioning.

The HaulerBiner device has a theoretical mechanical advantage of either 6:1 or 7:1, depending on the orientation the device is used in.

The pulley wheels are mounted in the body of the Karabiner, keeping them clear of the anti -tangle mesh outer, preventing it from jamming the wheels). Due to the in -Karabiner wheel mounting, the HaulerBiner kit is very compact when fully contracted, giving maximum haul height.



Standards	EN 12278, EN567
Weight	575 g
Material	Aluminium
Dimension	Maximum 1.05 m
Rated Load	140kg
Rope Diameter	6 mm
Minimum Breaking Strength	16 kN

SELECTION GUIDE



ACX

Heavy Industry
e.g. Wind Energy, Mining,
Power Advanced BM

ICX

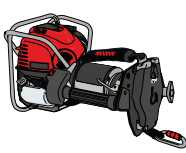
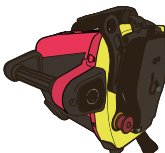
Professional, Light Prof., DIY
e.g. Rope Access, Confined,
Space Entry, Scaffolding,
Garden, Arborist

RCX

Rescue
e.g. Fire department
Helicopter
Paramilitary
Mountain Rescue

PMX

Remote areas without
power supply
e.g. Wind Energy, Mining,
Power Advanced BM



ASCENDER INFO MORE POWER	ACTSAFE ACX POWER ASCENDER	ACTSAFE ICX POWER ASCENDER	ACTSAFE RCX RESCUE ASCENDER	ACTSAFE PMX POWER ASCENDER
Working load limit	220 kg	185 kg	250 kg	250 kg
Rope diameter	11 mm	11 mm	6-11 mm	11 mm
Range (with 100 kg load, one battery or one tank of fuel)	600 m *	230 m	600 m **	750 m
Water/ Dust resistance	IP55	IP55	IP67	✗
Max. number of persons	2	1	2	2
Ascent Speed (with 100 kg load)	0-24 m/min	0-24 m/min	0-24 m/min	0-17 m/min
Max. Motor volume	76 dB	73 dB	76 dB	89 dB
Remote control range	150 m	50 m	150m	N/A
Compatible with AC power supply (POA-004)	✓	✗	✓	✗

* Performances with the usage of the high-capacity-battery (POA-039)

ACTSAFE ACX

The ACX battery-powered hoist is a motorised system to ensure the transport of persons or loads to areas that are difficult to access and where occasional or recurring work is carried out. ACX is used, among other things, for cleaning facades or windows, for the maintenance of complex building structures, for the rotor blade maintenance of wind turbines or for transporting loads on masts. The ACX POWER ASCENDER considerably simplifies and accelerates work on complex structures and makes expensive access systems or lifting platforms superfluous. Countless rescue scenarios can also be carried out efficiently and with minimum effort with the ACX. ACX forms a highly flexible system for easy and cost-efficient cleaning or maintenance. In an emergency, the ACX can be controlled by remote control. The operation and use of the ACX can be learned in special training courses.

Features:

- Lightweight, portable device due to a durable carry handle
- Fast rope setup with semi-static rope (SUPER STATIC 11.0)
- Easy operation via bi-directional throttle
- Easy-to-fit and rapidly charged battery with intelligent electronic management system and LED indicator
- Self-locking integrated rope grab system
- Suitable for 11mm ropes



ACTSAFE ICX

The ultralight, compact entry-level ActSafe ICX power ascender has been developed for a safe and efficient transport of persons in hard-to-reach areas.

Paired with a 11 mm rope, the ActSafe ICX forms an incredibly flexible system for the straightforward and cost-efficient cleaning and maintenance of complex structures. Its intuitive operation is effortlessly managed with a thumb wheel, enabling precise work. Equipped with a high-performance „Husqvarna“ battery, the hoist achieves an ascent speed of 24 m/min. The maximum battery range is 230 m with a 100 kg load and at a temperature of 20°C. Thanks to its IP55 rating, the ActSafe ICX can be used in all weather conditions. Rope loading is straightforward, streamlining your workflow and saving valuable time. Additionally, the control of the ActSafe ICX can be taken over by a second person on the ground using a remote control. This allows for the automatic ascent or descent of the individual operating the device, in case they are unable to do so themselves. Operating and utilizing the ActSafe ICX is quickly and easily learned through user training.

Features:

- Ultralight, compact personal power ascender
- Fast and secure rope loading
- Easy control with an intuitively operated thumb wheel or remote control



POA-033
Remote control with a range of up to 50 metres



ACTSAFE RCX

The battery-powered ActSafe RCX rope hoist is a motorised system to ensure the transport of persons or loads to hard-to-reach areas where occasional or repetitive work is carried out. The ActSafe RCX rope winch has been specially developed for effortless and efficient rescue operations. The main users are search and rescue (SAR) teams from the fire brigade, disaster relief or emergency services. The innovative device is compact, lightweight and complies with protection class IP67 (dustproof and waterproof). It is equipped with replaceable and rechargeable batteries and a remote control with a range of up to 150 metres. The ActSafe RCX is perfectly suited for ropes with different diameters and is therefore flexible and quickly ready for use. The device is certified for a user weight up to 250 kg.

Features:

- Simplifies and accelerates work during rescue operations
- 0-24 m/minute at 250 kg, IP67 standard
- Variable rope grab system: 6-11 mm



POA-003
ActSafe high capacity battery for ACX



POA-003
Bluetooth remote control with a range of up to 150 metres

ACTSAFE ACX

The ActSafe PMX rope hoist is a system to ensure the transport of persons or loads to areas that are difficult to access and where occasional or recurring work is carried out. The petrol-powered ActSafe PMX has its uniqueness in the combination of strength and the small portable size. Weighing only 13 kg and with at least 700 metres of rope-travelling on one tank of fuel, this is the tool that will take you through the hard, dirty jobs where you need to be able to rely on your equipment. The features of this petrol rope hoist include an enclosed rope grab system, and a left-hand-operated throttle. The descent lever is easy to operate for going down the rope, and the whole sturdiness of this Power Ascender makes it perfect for a never-ending list of lifting operations. Delivered in a rugged transportation box with wheels.

Features:

- For use in dirty working environments
- Working Load Limit (WLL) of 250kg
- 17 m / min at 100 kg
- Suitable for 11mm ropes



ACTSAFE EQUIPMENT LIFTING ROPE R-143-LENGTH



11 mm static rope for lifting loads only with ActSafe winches

POWER SUPPLY POA-004



Suitable for use with ACX and RCX power ascenders. Allows the power ascender to be connected to 230V AC supply.

ACX/RCX CABLE POWER SUPPLY POA-005



Interface cable between the Power Supply POA-004 and the ACX/RCX power ascender

ACCII CABLE POWER SUPPLY POA-056



Interface cable between the Power Supply POA-004 and the ACCII power ascender

ACX PROTECTIVE COVER CORDURA POA-023



Twin pulley with fixes side plates that allows easy maneuvering on ropes or cables.

SUPER STATIC 11.0 L-0531



The semi-static rope SUPER STATIC 11.0 is designed for high loads in working at height as well as for rescue operations



MINI PULLEY SYSTEM

Lightweight, compact and comfortable: SKYLOTEC offers an innovative new 6:1 Mini Pulley System. This ultra-light system with a ratio of 6:1 makes for easy lifting and a rope lock secures the load. The Mini Pulley System is a compact pre-rigged rescue and hauling system often referred to as a “Casualty Pulley System”, “Haul Track” or a “Pig Rig”. Possible applications include the raising or lowering of casualties, the tensioning of systems such as Tyrolean or tension lines and lifting light loads such as hand tools and other equipment. Mini Pulley Systems can be applicable to all sectors of work at height and rescue. It is not limited to confined or restricted access locations or tall structures. The set includes 23 metres of robust SKYLOTEC micro-rope with an operating length of just under 4 metres, two trilock DOUBLE carabiners and a compact carry bag for easy storage and transportation.

Part number:	SET-337-23
Weight:	0.95 kg
Length:	4 m
Rated load:	150 kg



GORDON

GORDON is the all-rounder among fall arrest blocks. Its low weight and robustness are impressive features. This offers great advantages especially when working at height: the devices can be combined with various certified textile ropes which can be easily interchanged by the user. GORDON offers an endless variety of potential uses: It can be used solely as a fall arrester, and in the GORDON RESCUE version as a fall arrester and lead climbing belay device.

GORDON RESCUE can also be used in combination with other hardware as a self-locking pulley system. GORDON RESCUE is suitable for entry, lead climbing and for belaying during rescues. Its compact dimensions and milled aluminium housing make it slimline, lightweight and easy to handle. The device can be equipped with rope of any length and used in both directions. GORDON stops falls. Thanks to a built-in gauge and distinct laser markings wear inspection is very simple.

Pre-configured devices

These GORDON configurations are very well suited for a safe descent or controlled abseiling, for example, in high rope courses or other environments where fall arrest devices with long rope lengths over 20 meters are needed.

These GORDON configurations are particularly useful as fall arrest devices for ascents as well as for descents in high ropes courses or for use in confined spaces, as endless rope movement in both directions is possible. Using a pulley (such as STANDARD ROLL) on the ground is recommended.

Pulley systems



GORDON PULLEY SYSTEM 1:3
A-120-3+ L-0741-Length (R-064)
Semi-static rope 10.5 mm
Sewn eyelets
rope length corresponds to lifting
height times 3

GORDON PULLEY SYSTEM 1:4
A-120-3+ L-0741-Length (R-064)
Semi-static rope 10.5 mm
Sewn eyelets
rope length corresponds to lifting
height times 4

GORDON PULLEY SYSTEM 1:5
A-120-3+ L-0741-Length (R-064)
Semi-static rope 10.5 mm
Sewn eyelets
rope length corresponds to lifting
height times 5



Basic Device



HSG-020
GORDON



HSG-020-R
GORDON RESCUE

Descenders & Rescue Devices

CONREST KIT



FOOT COVER

The foot cover enables the injured person's legs to be secured if necessary.

The CONREST rescue stretcher allows the rapid rescue of accident victims from hard-to-reach and confined spaces. The short design secures the patient's head, spine, pelvis and arms thanks to a particularly thick and stabilising belt strap construction. With its many grips, CONREST offers rescuers and emergency crews numerous options for moving accident victims out of the danger zone. Special attachments can also be secured to the carrying loops. These can be linked to a mobile attachment system that allows accident victims to be rescued from a sewer shaft, for example. A clear colour system ensures rapid handling: all of the attachment points are marked in orange. CONREST has a stable and solid skid plate that ensures the safe movement of the patient over edges or obstacles. A leg pouch, which when required can also be used to secure the feet, also comes as part of the standard equipment.

Part number:	SAN-9100-02
Standards:	EN 1497:2007
Weight:	9.50 kg
Dimension:	1020 x 240 x 80 mm
Rated load:	150 kg
Material:	Polyester



SAN-9000

Ultra Basket Stretcher

The ultraROLLTRETCHER, rollable carrier system, is particularly suitable for rescue in areas, which are difficult to access, in confined spaces, shafts and for mountain rescue. The rollstretcher can be used horizontally, angularly and vertical. Thanks to its tube-like form it is characterized by its exceptional stability. The patient is additionally protected by stabilizing elements in the shoulder, thorax, pelvic and spinal areas. The big advantage of the product is this low weight and small storage size on the way to rescue mission, simple and fast assembly on site, flexible and variable handling.

- Size: 2000 x 600 x 300mm
- Weight: 7.3 kg



SAN-9001

UltraRoll Stretcher Military

The ultraROLLTRETCHER, rollable carrier system, is particularly suitable for rescue in areas, which are difficult to access, in confined spaces, shafts and for mountain rescue. The rollstretcher can be used horizontally, angularly and vertical. Thanks to its tube-like form it is characterized by its exceptional stability. The patient is additionally protected by stabilizing elements in the shoulder, thorax, pelvic and spinal areas. The big advantage of the product is this low weight and small storage size on the way to rescue mission, simple and fast assembly on site, flexible and variable handling. The rollstretcher is approved for use by specific German Federal Armed Force helicopters (Bell UH-1D / NH90 / Sea King Mk. 41). Included in the delivery contents: 1 compact waterproof backpack carrier, 8 padded handles, 4 retainer belts with COBRA-Lock-System, 2 adjustable foot straps

- Size: Unisize
- Weight: 7.3 kg



SAN-0087-1

Ultra Basket Stretcher

- Size: 2178 x 618 x 189mm
- Rated load: 315 kg
- Max Service Life: 12 Years
- Weight: 14 kg
- Material: Polypropylene

SAN-0087-2

Ultra Basket Stretcher

- Size: 2200 x 650 x 200 mm
- Rated load: 315 kg
- Max Service Life: 12 Years
- Weight: 12 kg
- Material: Polypropylene



SAN-0086

ultraBRIDLES

- Max. number of persons: 1
- Size: 1600mm
- Weight: 2,58 kg
- Material: Polyester, Aluminium, Steel

SAN-0097-P

ultraFLEX PRO

- Max. number of persons: 1
- Maximum lifetime: 10 years
- Weight: 2.8 kg
- Material: Aluminium, Polyamide, Polyester, Stainless Steel



Descenders & Rescue Devices



JACKPOD TRI

Flexible fall prevention for working in confined spaces is now easier than ever with the tripod systems. The portable and stepwise adjustable systems require only a small working base area and are easy to transport and store thanks to their low weight and volume. High-quality finished aluminium and galvanised steel offer high ageing resistance. In two versions, the JACKPOD TRI covers the areas of the vertical entry with a variable height adjustment from 1.2 to incredible 3.1 meters. Even very wide entries can be covered. When using a winch, for example the JACKPOD WINCH 1, the retention function of a person is already in place and a descent into deeper work environments is no longer a risk.

TRIBOC

The TRIBOC is a multifunctional power package on three legs. It is ideal for lifting loads, as well as for securing, recovering and rescuing people. The tripod is easy to use and provides complete safety.

- The TRIBOC can be used with a material load of up to 500 kg (secured with chains).
- The legs can be set in 8 different ways.
- The standard steel head offers three additional anchoring points for material loads of up to 200 kg.
- The modular system means that hoisting and fall arrest devices can easily be taken out and transported separately.

JACKPOD TRI 1

JP-011-1

Tripod, small
With 1 deflection pulley

- Weight: 16.7 kg
- Material: Aluminium, Steel
- Standard: EN 795



JACKPOD TRI 2

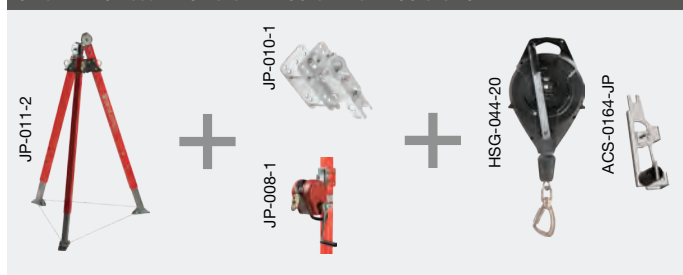
JP-011-2

Tripod, tall
With 3 deflection pulleys

- Weight: 23.8 kg
- Material: Aluminium, Steel
- Standard: EN 795



JP-011-2 + JP-008-1 + JP-010-1 + HSG-044-20 + ACS-0164-JPD = KIT



TRIBOC

AP-004

- Weight: 23.49 kg
- Material: Aluminium, Steel
- Standard: EN 795



TRIBOC T WIND

ACS-0036-15-T

- Material: Steel
- Size: 15 m
- Weight: 11.9 kg



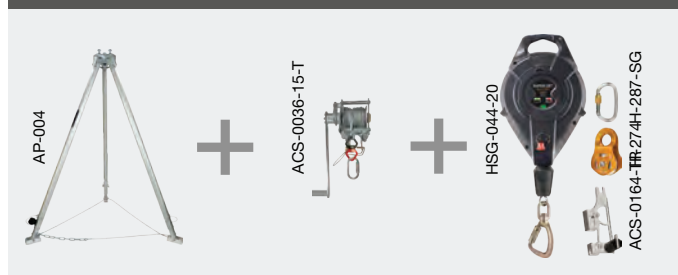
TRIBOC BAG

ACS-0013

- Material: Polyester
- Size: 1750 mm
- Weight: 0.91 kg



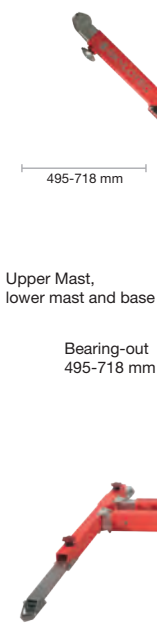
AP-004 + ACS-0036-15-T + HSG-044-20 + ACS-0164-TR + H-274 + H-287-SG = KIT



JACKPOD DAVIT SET

Flexible fall prevention for working in confined spaces is now easier than ever with the new JACKPDD davit arm and tripod systems. The portable and stepwise adjustable systems require only a small working base area and are easy to transport and store thanks to their low weight and volume. High-quality finished aluminium and galvanised steel offer high ageing resistance. JACKPOD TRI is suitable for vertical, JACKPOD DAVIT for horizontal and vertical entrances. Both systems are certified as anchoring points according to EN 795, Class B with a max. load capacity of 280 kg (for up to 2 persons with a weight of 140 kg each) and can be combined with winches and fall arrester devices.

The swivelling JACKPOD DAVIT SETS can be used vertically. With a few additional elements the system is also attachable to walls, tanks or other entrances. A simple plug-in mechanism allows quick and purposeful installation.



PARTS

JACKPOD BASE PORTABLE
Portable Base

JP-003-1
Weight: 29.1 kg
Material: Aluminium, Steel
Standard: EN 795



JACKPOD DAVIT UM
Upper Mast

JP-002-1 | 1016 mm
JP-002-2 | 1320 mm
Weight: 9.5 kg | 11.4 kg
Material: Aluminium, Steel
Standard: EN 795



Additional Base For Vertical Entry

JACKPOD BASE BOLT ON FLANGE

JP-003-2
Weight: 29.1 kg
Material: Aluminium, Steel
Standard: EN 795



JACKPOD DAVIT LM
Lower Mast

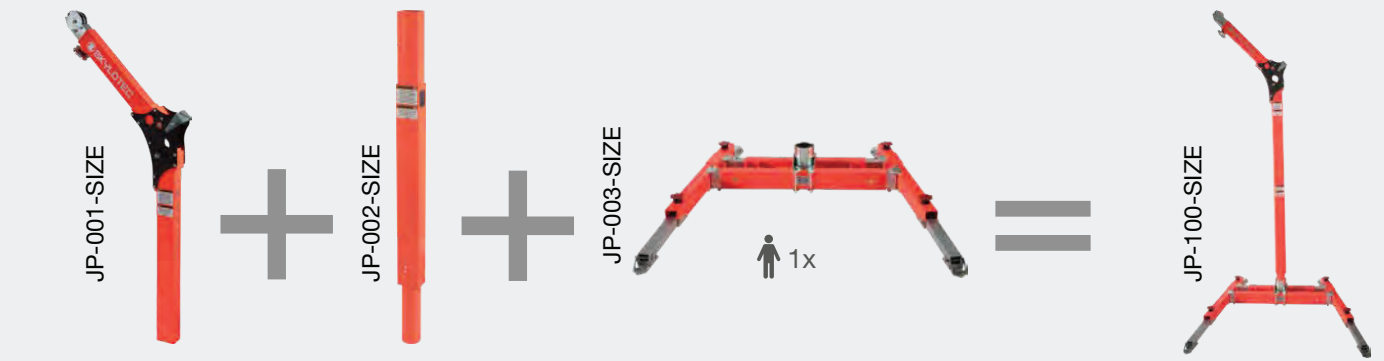
JP-001-1 | 1170-1400 mm
JP-001-2 | 1475-1695 mm
Weight: 5.4 kg | 7.3 kg
Material: Aluminium, Steel
Standard: EN 795



TECHNICAL DATA

Product	Part Number	Maximum Number	Set-up height	Material	Weight	Standards		Maximum Extension
JACKPOD DAVIT SET	JP-100-1	1	218.6 - 241.6 cm	Aluminium, Steel	42.6 kg	EN 795:2012-B	N/A	49.5 - 71.8 cm
	JP-100-2		249 - 272 cm		44.5 kg			
	JP-100-3		249.1 - 271.1 cm		44.5 kg			
	JP-100-4		279.5 - 301.5 cm		46.4 kg			

JP-001 + JP-002 + JP-003 = JACKPOD DAVIT SET



JACKPOD WINCH

The Winch 1 and 2 combine many advanced safety features, such as multiple braking mechanisms, a secondary inertia-actuated brake, an easy-to-read visual brake wear indicator and a visual overload indicator integrated into the carabiner. The winch has a stainless steel wire rope and is designed and rated for a working load limit of one person weighing a maximum of 140 kg (including all clothing, tools and equipment) when used in one-piece single rope operation, or for 280 kg and two persons in two-piece single rope operation (1:2 deflection) constructed and dimensioned.

Features:

- Multiple pawls
- Secondary coasting actuated brake
- Easy to read visual brake wear indicator
- Easy to read visual overload indicator on the snap hook



RAPTOR C20 HUB

RAPTOR HUB is in contrast to the RAPTOR additionally equipped with a rescue lifting device, which can be activated in an emergency and allows a quick rescue. After verification by a sexpert person, the device is ready for use again after the use of the rescue lifting device, which increases its economic efficiency. RAPTOR HUB offers maximum application possibilities, as it can be used both independently on anchor points according to EN795 and in combination with an individual holder on the TRIBOC, JACKPOD TRI and JACKPOD DAVIT mobile anchor points. The respective holder can remain attached to the mobile anchor points when the device is removed.

Features:

- Versatile use due to additional equipment with a rescue lifting device
- Easy and economical maintenance and revision thanks to modular design
- Two drop indicators
- High durability due to replaceable assemblies
- Space-saving storage and optimal handling due to special case design

Design

SKYLOTEC rope design is core-sheathed. Ropes based on this construction function via two fundamental components - the sheath and the core. While the core primarily carries the load, the sheath protects the rope from external elements such as dirt, friction, UV rays and moisture. In the event that the sheath is damaged, exposing the core, immediately replace the rope.

The rope core is made of high-quality material, which is wound or woven into intricate strands. The rope thus has excellent flexibility, as well as enormous strength and energy absorption capacity. These characteristics are extremely important for use in fall protection systems, rescue operations and abseiling equipment. Stranded cores also allow for highly stable rope end finishing, since the rope is not pressed or knotted as per conventional practice, but rather sewed by means of innovative sewing techniques.

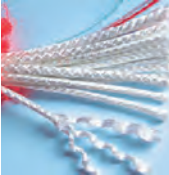
Rope types

Primarily two categories of ropes are available: static ropes and dynamic ropes.

Static ropes are core-sheathed ropes with low extension. Dynamic ropes are divided into three different types. While single ropes can be used in all applications to complete the safety chain and absorb the fall of a person, half-ropes may only be used in pairs for this purpose and twin ropes only in pairs and parallel. Dynamic ropes have a very high energy absorption capacity and thus reduce the arresting force.



Coated core rope, double plaited.



Coated core rope with twisted structure.



Twisted rope, 4-shaft



Shifting of the Outer Sheath

... states the shifting of the Outer Sheath in relation to the core of the rope, if a 2 m long piece of rope is pulled 5 x through a standardised test device. The permitted limit is ± 40 mm, the UIAA standard is ± 20 mm!

Expansion in Use







... is the stretching of a piece of rope under a load of 80 kg.

Arresting Force

... is a relative measure for the flexibility of a rope. Low values describe ropes with high flexibility.











Fall Count

... designates the number of normal falls withstood during dynamic fall testing (laboratory results). It is generally the case that the safety reserves increase with a rising number of falls.

Diameter	7.5 mm	8 mm	9 mm	10.5 mm	11 mm	12 mm
						
Product name	POLY TECHNORA 7.5	POLY-TECHNORA /TECHNORA 8.0	SUPER STATIC 9.0	SUPER STATIC 10.5	SUPER STATIC 11	EXPLORER 12.0
For use with	DEUS 3300	DEUS 3300 / DEUS 3700	MILAN	GORDON, ACX, SIRIUS, LORY, MARK 1 PLUS, MARK 8	GORDON, ACX, SIRIUS, LORY, MARK 1 PLUS, MARK 8	SIRIUS, LORY, MARK 1 PLUS, MARK 8
Maximum lifetime	10 years	10 years	10 years	10 years	10 years	10 years
Max. tensile strength	24 kN	24.9 kN	26.7 kN	32.7 kN	30 kN	22 kN
Rope type	Semi-static rope	Semi-static rope	Semi-static rope	Semi-static rope	Semi-static rope	Semi-static rope
Rope elongation	4.40 %	2.10 %	4.70 %	4.10 %	4.00 %	1.50 %
Standards	NFPA-1983 FIRE ESCAPE	NFPA-1983	EN 1891-A:1998	EN 1891-B:1998	EN 1891-A:1998	EN 1891-A:1998
Part number	L-0721	L-0722	L-0520	R-064	R-080	R-069

Helmets And Accessories

Comfortable, lightweight and ergonomic head protection for various applications - according to industrial and mountaineering standards. Available with or without ventilation openings and reflective stickers, depending on the needs of the application. Thanks to the modular system, other interchangeable accessories and spare parts are compatible with the helmets according to your needs.

INCEPTOR GRX					ARIES		
							
	GRX	GRX REF	GRX HIGH VOLTAGE	GRX HIGH VOLTAGE REF	ARIES	ARIES AIR	ARIES TREE
Standards	EN 397:2012 (150-250 N chin strap strength) EN 12492:2012 * (> 500 N chin strap strength)		EN 397:2012 (150-250 N chin strap strength) EN 50392:2002 meets partly EN 12492:2012 * (> 500 N chin strap strength)		EN 397:2012 EN 50365:2002 ANSI/ISEA Z89.1-2014 TYP 1 CLASS E	EN 397:2012	EN-12492:2012
Colour							
Aircondition	✓	✓	N/A	N/A	N/A	✓	✓
Accessoires	✓	✓	✓	✓	✓	✓	✓
Reflecting	non-reflecting	reflecting	non-reflecting	reflecting	reflecting only in combination with BE-515	reflecting only in combination with BE-515	reflecting only in combination with BE-515

* This chin strap is not included in the delivery. It can be ordered separately.

ACCESSORIES

TELESTICK ACS-0070-01



Infinitely adjustable, allows easy pre-clipping of ropes or quickdraws

SKYGRIP HALFFINGER BE-1000-920-SIZE BE-1001-920-SIZE



Light gloves that protect the hands from the frictional heat generated while belaying or rappelling, as well as from minor injuries. Also available in a half-finger version.

LONG LEASH FLEX ACS-0281



Secures tools flexibly and conveniently against falling or dropping with a sturdy spiral cord

WAIST TEC ACS-0302



Adjustable step ladder for ascending on the rope in combination with an ascender

FIX PRO / FIX PRO+ ACS-0312 / ACS-0313



Positioning bracket for correct alignment of the connecting element on the carabiner, the rope, or the device

ROPE SHIELD ACS-0316



Durable, removable rope protection with Velcro closure and attachment ring

DRYBAG ACS-0014-0R-SIZE



Waterproof bag with backpack straps

EQUIPMENT BAG ACS-0020



Max. rope length Ø 11 mm: 15 m

SKYPACK ACS-0244



Spacious, sturdy backpack, ideal for daily use



CONCRETE MOUNTED ANCHORS

ANCHORS

The structure must be assessed by an engineer, unless it is clear to a competent person that the structure is adequate.

Product Code	Description	Weight (kg)
FROGL001	FrogLink Anchor	0.291
FROGL001+RIVETS	FrogLink Anchor with 7 Aluminium Rivets	0.340
FROGL001+S5Z	FrogLink Unit + S5_Z Clamps	0.725
FROGL001+STROP_swaged	FrogLink Anchor, 1.2m Strop swaged, Strop Hook, Tag	0.779
FROGL001+STROP+RIVETS_swaged	FrogLink Anchor, 1.2m Strop swaged, Strop Hook, Tag and Rivets	0.828

ConcreteLink Anchor with Collared Eyebolt



- ConcreteLink can be ordered with Standard or Abseil Eyebolt. The Standard Eyebolt is designed for fall arrest only. The Abseil Eyebolt is designed to withstand a live load without activating the bending motion that occurs when arresting a fall.
- 360° Multi-directional, enabling full rotation around the anchor.
- Chemically anchored into concrete. Drill a 28mm hole to a depth of 90mm.
- Eyelet 28mm ID.

PRODUCT CODE: CONCL002

Components	Description	Material	Qty
NUT M16_316	Nut: M16	316SS	1
CON-INSERT	ConcreteLink Insert M16 90mm	316SS	1
Advise if you require Standard or Abseil Eyebolt			
EYEBT001	Standard Eyebolt (Bearing Length 178mm)	316SS	1
EYEBT002	Abseil Eyebolt (Bearing Length 130mm)	316SS	1

ConcreteLink Anchor with Collared Eyebolt



- ConcreteLink Collared Eyebolt is a low profile anchor point designed for use in concrete, where the eyebolt can be removed if required.
- 360° Multi-directional, enabling full rotation around the anchor.
- Chemically anchored into concrete.
- Drill a 28mm hole to a depth of 100mm.
- Eyelet 35mm ID.

PRODUCT CODE: CONCL002

Components	Description	Material	Qty
EYEBOLT M16x26mm	Collared Eyebolt M16 26mm	316SS	1
CON-INSERT	ConcreteLink Insert M16 90mm	316SS	1

ConcreteLink One Piece Unit - M16 x 90mm



- ConcreteLink One Piece Unit is a low profile anchor point designed for use in concrete, where the eyebolt will remain in place exposed for attachment.
- 360° Multi-directional, enabling full rotation around the anchor.
- Chemically anchored into concrete.
- Drill a 18mm hole to a depth of 100mm.
- Eyelet 35mm ID.

PRODUCT CODE: CONCL005

Components	Description	Material	Qty
CONCL005	One Piece Concrete Anchor	316SS	1

ConcreteLink One Piece Unit - M12 x 90mm



- ConcreteLink One Piece Unit is a low profile anchor point designed for use in concrete, where the eyebolt will remain in place exposed for attachment.
- 360° Multi-directional, enabling full rotation around the anchor.
- Chemically anchored into concrete. Drill a 14mm hole to a depth of 90mm.
- Eyelet 52mm ID.

PRODUCT CODE: CONCL012

Components	Description	Material	Qty
CONCL012	One Piece Concrete Anchor M12 x 90mm	316SS	1

Concrete Brass Bolt



- Brass Bolt to be used with concrete insert when eyebolt not in use.
- Keeps internal section of insert free from debris.

PRODUCT CODE: CONCL006

Components	Description	Material	Qty
CONCL006	Concrete Brass Bolt	Brass	1



WindowLink



- WindowLink anchor point designed for use in concrete structures where the eyebolt will remain concealed until needed for use.
- Designed to swivel 360 degrees with built in shock absorber.
- Discreet stainless steel cover.
- Chemically anchored into concrete.
- 55mm core drill to 20mm depth.
- 28mm drill to 122mm depth.
- Eyelet 28mm ID.

PRODUCT CODE: WINDL001

Components	Description	Material	Qty
WINDL001	Wall Mounted Concrete Anchor	316SS	1

SwiveLink



- SwiveLink anchor point designed for use in concrete structures with the convenience of a swivelling eyebolt.
- Designed to swivel 360 degrees with built in shock absorber.
- Chemically anchored into concrete.
- Drill a 28mm hole.
- Eyelet 28mm ID.

PRODUCT CODE: SWIVL002

Components	Description	Material	Qty
SWIVL002	SwiveLink Eyebolt Anchor	316SS	1

Tuff-Bracket Concrete Wall Mounted Anchor



- Wall mounted bracket with Collared Eyebolt.
- Chemically anchored into concrete.
- Eyelet 35mm ID.

PRODUCT CODE: TUFF-BRKT-C-COL

Components	Description	Material	Qty
EYEBOLT M16x26mm	Collared Eyebolt M16 26mm	316SS	1
WASHER M16_Spring_316	Spring Washer: M16	316SS	1
NUT M16_316	Nut: M16	316SS	1
TUFF-BRKT01	Tuff-Bracket	316SS	1
WASHER M16_DONUT	Washer: DonutLink M16	316SS	1
CON-M16x160	Anchor Rod wth M16 Nut & Spring Washer	316SS	1

Tuff-Bracket Concrete Wall Mounted Anchor

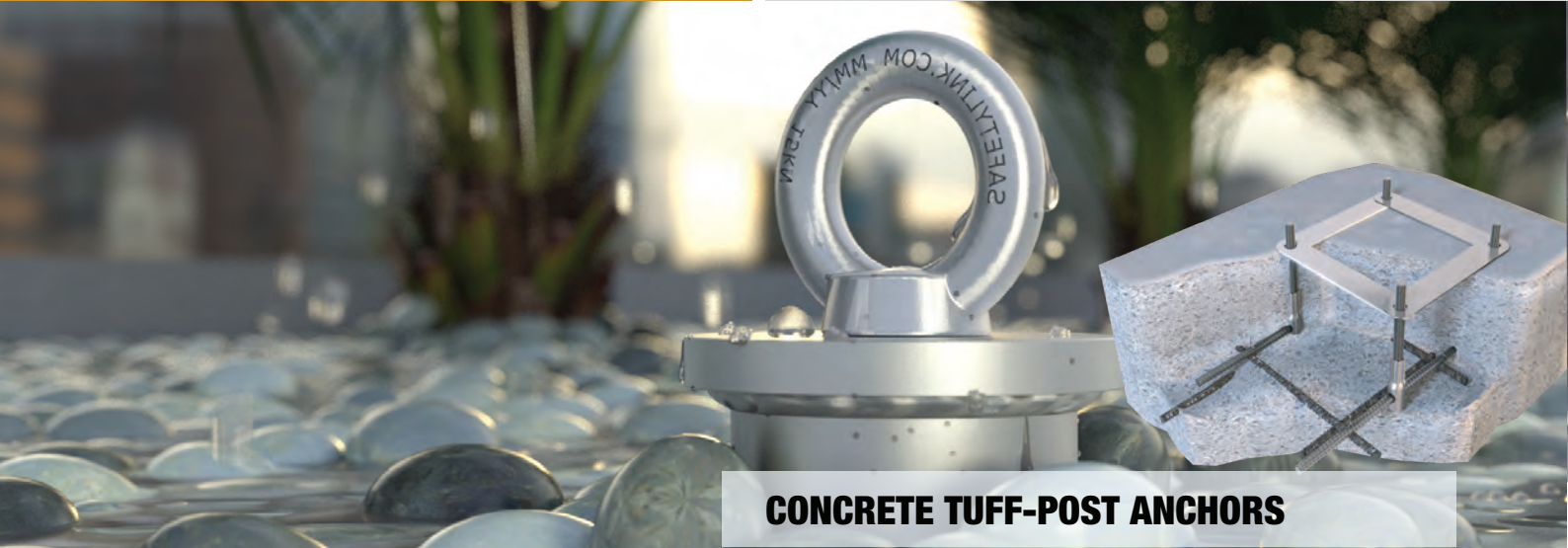


- Wall mounted bracket with Retro Eyebolt.
- Chemically anchored into concrete.
- Eyelet 28mm ID.

PRODUCT CODE: TUFF-BRKT-C-RET

Components	Description	Material	Qty
EYEBOLT RETRO	Retro Eyebolt with M16 Flat Washer and O-Ring	316SS	1
RETRO-WASHER	Retro Washer with Rubber	316SS	1
NUT M16	Nut: M16	316SS	1
TUFF-BRKT01	Tuff-Bracket	316SS	1
WASHER M16_DONUT	Washer: DonutLink M16	316SS	1
CON-M16x160	Anchor Rod wth M16 Nut & Spring Washer	316SS	1





CONCRETE TUFF-POST ANCHORS

Concrete Tuff-Post 150mm with Collared Eyebolt



- TUFF-POST 150 system is raised 150mm off the concrete.
- 360° Multi-directional, enabling full rotation around the anchor.
- Chemically anchored into concrete.
- Retro Eyebolt - Eyelet 28mm ID.

PRODUCT CODE: TUFF-POST150R-C-RET

Components	Description	Material	Qty
EYEBOLT-RETRO	Retro Eyebolt with M16 Flat Washer and O-Ring	316SS	1
RETRO-WASHER	Retro Washer with Rubber	316SS	1
TUFF-POST150R	TUFF-POST 150mm (Round)	316SS	1
CON-M12x160	Anchor Rod M12X160, M12 Spring Washer, Washer & Nut	316SS	4

Concrete Tuff-Post 300mm with Retro Eyebolt



- TUFF-POST 300 system is raised 300mm off the concrete.
- 360° Multi-directional, enabling full rotation around the anchor.
- Chemically anchored into concrete.
- Retro Eyebolt - Eyelet 28mm ID.

PRODUCT CODE: TUFF-POST300R-C-RET

Components	Description	Material	Qty
EYEBOLT-RETRO	Retro Eyebolt with M16 Flat Washer and O-Ring	316SS	1
RETRO-WASHER	Retro Washer with Rubber	316SS	1
TUFF-POST150R	TUFF-POST 300mm (Round)	316SS	1
CON-M12x160	Anchor Rod M12X160, M12 Spring Washer, Washer & Nut	316SS	4

Concrete Tuff-Post 600mm with Retro Eyebolt



- TUFF-POST 600 system is raised 600mm off the concrete.
- 360° Multi-directional, enabling full rotation around the anchor.
- Chemically anchored into concrete.
- Retro Eyebolt - Eyelet 28mm ID.

PRODUCT CODE: TUFF-POST600R-C-RET

Components	Description	Material	Qty
EYEBOLT-RETRO	Retro Eyebolt with M16 Flat Washer and O-Ring	316SS	1
RETRO-WASHER	Retro Washer with Rubber	316SS	1
TUFF-POST150R	TUFF-POST 600mm (Round)	316SS	1
CON-M12x160	Anchor Rod M12X160, M12 Spring Washer, Washer & Nut	316SS	4

Concrete Tuff-Post 900mm with Retro Eyebolt



- TUFF-POST 900 system is raised 600mm off the concrete.
- 360° Multi-directional, enabling full rotation around the anchor.
- Chemically anchored into concrete.
- Retro Eyebolt - Eyelet 28mm ID.

PRODUCT CODE: TUFF-POST900R-C-RET

Components	Description	Material	Qty
EYEBOLT-RETRO	Retro Eyebolt with M16 Flat Washer and O-Ring	316SS	1
RETRO-WASHER	Retro Washer with Rubber	316SS	1
TUFF-POST150R	TUFF-POST 900mm (Round)	316SS	1
CON-M12x160	Anchor Rod M12X160, M12 Spring Washer, Washer & Nut	316SS	4



- The TileLink roof anchor (winner of an episode on ABC1 The New Inventors) with unique energy absorbing capabilities, to reduce the risk of injury to the person and damage to the structure.
- The TileLink is quick to install, with amazing performance ability.
- Low profile reflective design is a plus for any commercial or residential enterprise wanting to maintain an aesthetically pleasing façade.
- The TileLink fits between the existing tiles ensuring no waterproofing issues. There is no need to cut the sarking as the design of this unique roof anchor eliminates any future potential roof leaks.
- Highly flexible design ensures installation to the majority of roof tile profiles.

TILELINK - RAFTER MOUNTED ANCHORS

ANCHORS

The structure must be assessed by an engineer, unless it is clear to a competent person that the structure is adequate.

Product Code	Description	Weight (kg)
TILEL001	TileLink Timber Rafter Mounted Anchor	0.634
TILEL001+SCREWS	TileLink Timber Rafter Mounted Anchor + 5 Screws	0.679
TILEL001_SFM	TileLink Steel Frame Mounted Anchor	0.630
TILEL001+RIVETS	TileLink Steel Frame Mounted Anchor + 5 Aluminium Rivets	0.665

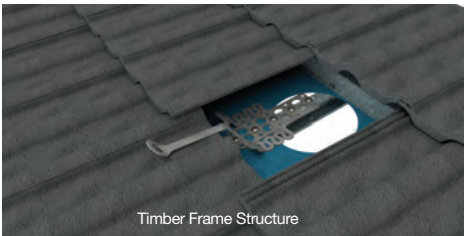
TileLink Anchor (Timber Rafters)



- TileLink anchor point designed for use on timber rafters with tiled roof.
- 360° Multi-directional, enabling full rotation around the anchor.
- Five fixing points with five (5) alternate fixing rows to suit multitude of tile roof profiles.
- Install using 5 x 12 gauge (50mm) roofing screws.
- Eyelet 30mm ID.

PRODUCT CODE: TILEL001+SCREWS

Components	Description	Material	Qty
TILEL001	TileLink Anchor for Timber Rafters	316SS	1
SCREW 12x50mm	12 Gauge x 50mm Hex Head Screw	Galvanized	5



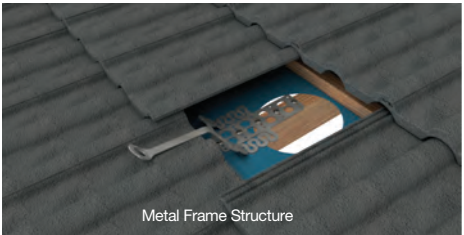
TileLink SFM Anchor (Steel Rafters)



- TileLink anchor point designed for use on steel rafters with tiled roof.
- 360° Multi-directional, enabling full rotation around the anchor.
- Five fixing points with three (3) alternate fixing rows to suit multitude of tile roof profiles.
- Install using 5 x 8mm Rivets (Drill Size 7.8-8.2mm Aluminium).
- Eyelet 30mm ID.

PRODUCT CODE: TILEL001+RIVETS

Components	Description	Material	Qty
TILEL001_SFM	TileLink Anchor for Steel Rafters	316SS	1
RIVET_8mm(27.7)	Tri-fold Rivets 7.7 x 27.7 length (Green seal)	Aluminium	5



- The RafterLink and HingeLink units include SafetyLink's patented Eyebolts. The length of the eyebolt enables to protrude above the roof structure when installing into timber structures.
- Standard Eyebolt is designed for fall arrest, it's long tapered stem is designed to absorb energy while arresting a fall therefore reducing the load off the structure and the person attached to the anchor.
- Abseil Eyebolt can be adapted to the RafterLink forming an anchor from where you can abseil, creating a safe work station

ANCHORS

RAFTER MOUNTED ANCHORS

The structure must be assessed by an engineer, unless it is clear to a competent person that the structure is adequate.

Product Code	Description	Weight (kg)
RAFTR001	RafterLink Anchor with Standard Eyebolt	1.446
RAFTR001 + ABSEIL	RafterLink Anchor wih Abseil Eyebolt	1.423
RAFTR004	Side Mounted RafterLink Anchor with Standard Eyebolt	1.682
RAFTR004 + ABSEIL	Side Mounted RafterLink Anchor with Abseil Eyebolt	1.659
HINGE001	HingeLink Anchor with Standard Eyebolt	1.301
HINGE001+ABSEIL	HingeLink Anchor with Abseil Eyebolt	1.258

RafterLink Anchor



- RafterLink anchor point is designed for use on timber structures where there is easy access to the top of the rafter.
- Fixing to hardwood F14 or greater, use 8 type 17 hex head 14g x 75mm screws.
- Fixing to softwood less than F14, use 8 type 17 hex head 14g x 90mm screws.
- 360° Multi-directional, will arrest a fall from any direction.
- Eyelet 28mm ID.

PRODUCT CODE: RAFTR001

Components	Description	Material	Qty
WASHER 75mm Square	75mm Rubber Hat Washer	Rubber	1
RAFTR-BASE	RafterLink Base 0 Degree Pitch	316SS	1
Advise if you require Standard or Abseil Eyebolt			
EYEBT001	Standard Eyebolt (Install Length 178mm)	316SS	1
EYEBT002	Abseil Eyebolt (Install Length 178mm)	316SS	1

Side Mounted RafterLink Anchor



- RafterLink Side Mounted anchor point is designed for use on timber structures where there is easy access to the rafter, installs onto the side of the rafter.
- Fixings required, eight (8) type 17 Hex Head 14g x 50mm screws.
- 360° Multi-directional, will arrest a fall from any direction.
- Eyelet 28mm ID.

PRODUCT CODE: RAFTR004

Components	Description	Material	Qty
WASHER 75mm Square	75mm Rubber Hat Washer	Rubber	1
RAFTR-BASE-SIDE	RafterLink Side Mounted Base	316SS	1
Advise if you require Standard or Abseil Eyebolt			
EYEBT001	Standard Eyebolt (Install Length 178mm)	316SS	1
EYEBT002	Abseil Eyebolt (Install Length 178mm)	316SS	1

HingeLink Anchor



- HingeLink anchor point is designed for use on metal/tiled/timber structures where there is easy access to the underside of the roof, the base of the unit is hinged enabling flexible means of attachment.
- Secure with four (4) M12 bolts and 2 Hex Head 12g 50mm screws.
- 360° Multi-directional, will arrest a fall from any direction.
- Eyelet 28mm ID.

PRODUCT CODE: HINGE001

Components	Description	Material	Qty
WASHER 75mm Square	75mm Rubber Hat Washer	Rubber	1
HINGE-BASE-SS	Hingelink Base	316SS	1
Advise if you require Standard or Abseil Eyebolt			
EYEBT001	Standard Eyebolt (Install Length 228mm)	316SS	1
EYEBT002	Abseil Eyebolt (Install Length 178mm)	316SS	1

- The RetroLink anchor points are designed for use on metal roofing with steel purlin structure.
- Installation is a simple task requiring no access from underside of the roof, requiring only one hole to be drilled into the roof sheeting and through the purlin.
- Waterproofing washer combined with an o ring seals the hole, eliminating any waterproofing issues.
- Easy installation into concealed areas.

RETROLINK - STEEL PURLIN ANCHORS

ANCHORS

The structure must be assessed by an engineer, unless it is clear to a competent person that the structure is adequate.

Product Code	Description	Weight (kg)
RETRO003	RetroLink Anchor with Flat Washer	0.447
RETRO004	RetroLink Anchor with Raised Washer (Cannot be used for Abseiling)	0.447
SWIVEL001	SwiveLink Anchor with Nut	0.568

RetroLink Anchor with Flat Washer



- RetroLink anchor can be installed onto a steel C or Z purlin, where no access is available from underneath the roof. Steel purlins must be a minimum 1.2mm gauge.
- Abseiling and Fall Arrest anchor with an unobtrusive design that requires no special tooling and minimal penetration to the roof sheeting.
- 360° Multi-directional, enabling full rotation around the anchor.
- Drill a 25mm hole.

PRODUCT CODE: RETRO003

Components	Description	Material	Qty
EYEBOLT-RETRO	Retro Eyebolt	316SS	1
RETRO-WASHER	Retro Washer with Foam	316SS	1
RETRO-TUBE	Retro Tube with Positioning Ties	316SS	1

RetroLink Anchor with Raised Washer



- RetroLink anchor with raised washer can be installed onto a steel C or Z purlin, where no access is available from underneath the roof. Steel purlins must be a minimum 1.2mm gauge.
- The RetroLink anchors installed to the raised section of roof sheet profiles are NOT suitable for Rope Access/Abseiling due to potential roof sheet distortion under live loading.
- 360° Multi-directional, enabling full rotation around the anchor.
- Drill a 25mm hole.

PRODUCT CODE: RETRO004

Components	Description	Material	Qty
EYEBOLT-RETRO	Retro Eyebolt	316SS	1
RETRO-WASHER-RAISED	Retro Raised Washer with Foam	316SS	1
RETRO-TUBE	Retro Tube with Positioning Ties	316SS	1

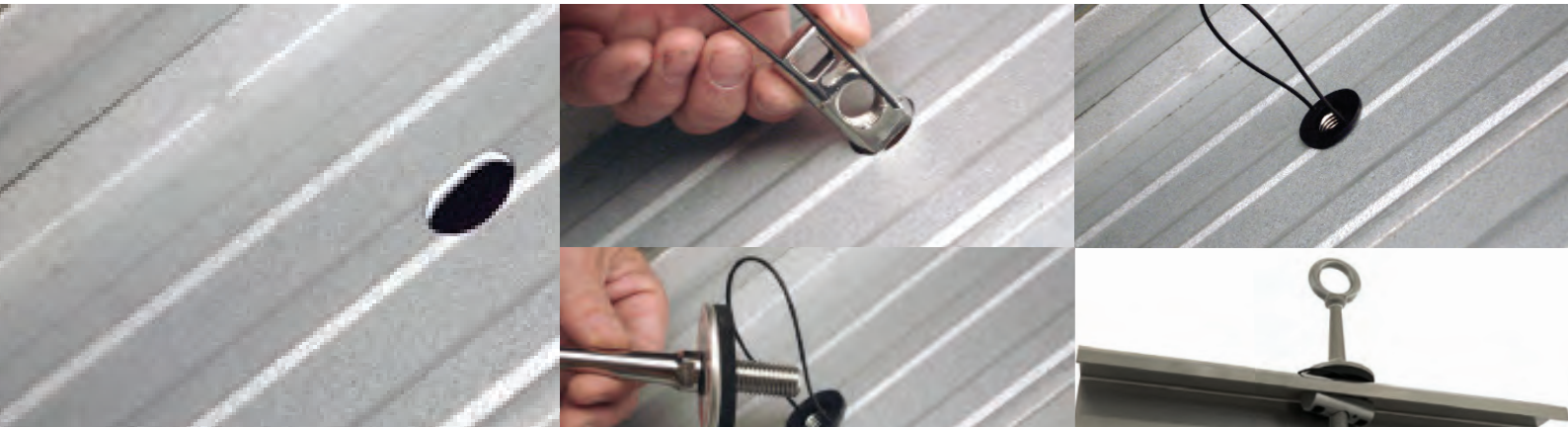
SwiveLink



- The patented SwiveLink is an anchor point used in concrete.
- Designed to swivel 360 degrees.
- Must be chemically fastened.
- Built in shock absorber.

PRODUCT CODE: SWIVEL001

Components	Description	Material	Qty
SWIVELINK	SwiveLink: Swiveling Unit 83mm	316SS	1
SWIVELINK NUT	SwiveLink Nut	316SS	1



- This revolutionary all in one unit has been designed to attach to all metal roof profiles with a single row of attachment holes. This unique configuration makes it a fast simple unit for installation.
- The FrogLink's low profile reflective design is a plus for many commercial or residential enterprises wanting to maintain an aesthetically pleasing facade.
- Dynamic design reduces the load back onto the structure and person attached to the anchor when arresting a fall.
- The FrogLink will arrest from any direction, multi-directional 360 degrees.

TILELINK - RAFTER MOUNTED ANCHORS

ANCHORS

The structure must be assessed by an engineer, unless it is clear to a competent person that the structure is adequate.

Product Code	Description	Weight (kg)
FROGL001	FrogLink Anchor	0.291
FROGL001+RIVETS	FrogLink Anchor with 7 Aluminium Rivets	0.340
FROGL001+S5Z	FrogLink Unit + S5_Z Clamps	0.725
FROGL001+STROP_swaged	FrogLink Anchor, 1.2m Strop swaged, Strop Hook, Tag	0.779
FROGL001+STROP+RIVETS_swaged	FrogLink Anchor, 1.2m Strop swaged, Strop Hook, Tag and Rivets	0.828

RECOMMENDED TOOLS FOR INSTALLATION

Product Code	Description
GESIPA.ACCU.PRO	Gesipa Powerbird BT Cordless Rivet Tool (includes extra battery)
GESIPA.PB.PRO.GOLD	Gesipa PowerPack PRO Cordless Rivet Tool (includes extra battery)
GESIPA001.02	Gesipa Hand Rivet Tool (HN 2)
HANDTOOL001	SafetyLink Hand Rivet Tool

FrogLink Anchor with Rivets



- FrogLink is a surface mounted height safety anchor point for use on metal roof profiles where access to building structure is difficult.
- 360° Multi-directional, enabling full rotation around the anchor.
- Install using 7 x 8mm Rivets (Drill Size 7.8-8.2mm Aluminium).

PRODUCT CODE: FROGL001+RIVETS

Components	Description	Material	Qty
FROGL001	FrogLink Anchor	316SS	1
RIVETS_8mm	Rivets: 8mm	Aluminium	7

FrogLink Anchor with S5_Z Brackets



- FrogLink is a surface mounted height safety anchor point for use on Kingzip standing seam roof profiles where access to building structure is difficult.
- 360° Multi-directional, enabling full rotation around the anchor.
- Install using 2 x S5_Z Clamps. This clamp has been designed to attach to Kingzip standing seam roof profile.
- For different standing seam roof profiles, consult with SafetyLink.

PRODUCT CODE: FROGL001+S5_Z

Components	Description	Material	Qty
FROGL001	FrogLink Anchor	316SS	1
S5_Z_BRACKET	S5 Z Clamp Bracket	Alum/SS	2

FrogLink Anchor with First Man up Strop



- FrogLink anchor with swaged Strop, to be used as a first man up system.
- 360° Multi-directional, enabling full rotation around the anchor.
- Attachment end should be secured with a strop hook when not in use to ensure it can be accessed from a safe area for next use.
- Install using 7 x 8mm Rivets (Drill Size 7.8-8.2mm Aluminium).

PRODUCT CODE:FROGLINK+STROP+RIVETS_swaged

Components	Description	Material	Qty
FROGL001	FrogLink Anchor	316SS	1
STROP 1.2m_swaged	1.2m Strop	316SS/PVC	1
STROPHOOK	Spring Fender Hook	316SS	1
STROPHOOK_TAG	Strop Hook Warning Label	Plastic	1
RIVETS_8mm	Rivets: 8mm	Aluminium	7

- Classic surface mounted roof anchor is multi directional, attaching to the top of the profile on the roof sheeting for superior waterproofing.
- The eyebolt is forged from 316 stainless steel with powerful energy absorbing qualities.
- The eyebolt was developed and tested extensively to maximize energy absorption while retaining its strength when arresting a fall.
- The eyebolts tapered design enables it to bend like a fishing pole to reduce the load back on the structure and the person attached to the anchor.
- Surface mounted anchors must not be used for rope access (abseiling).

SURFACELINK - SURFACE MOUNTED ANCHORS

ANCHORS

The structure must be assessed by an engineer, unless it is clear to a competent person that the structure is adequate.

Product Code	Description	Weight (kg)
SURFL001	Surface Mounted Anchor (2 Side Plates)	1.907
SURFL001+Rivets	Surface Mounted Anchor (2 Side Plates) with 12 Aluminium Rivets	1.991
SURFL001-BROWNUILT	Surface Mounted Anchor (2 Side Plates Bent for Brownbuilt Roof Profile) with 12 x 34mm Rivets (yellow)	1.991
ASURF001	Surface Mounted Anchor (Aluminium Plate)	0.892
ASURF001+Rivets	Surface Mounted Anchor (Aluminium Plate) with 10 Aluminium Rivets	0.962
HSURF001	Surface Mounted Anchor (Stainless Steel Plate)	1.420
HSURF001+Rivets	Surface Mounted Anchor (Stainless Steel Plate) with 10 Aluminium Rivets	1.490

Classic SurfaceLink Anchor (Adjustable Side Plates)

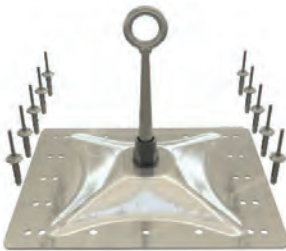


- SurfaceLink anchor point with two adjustable plates, designed for use on metal roof sheeting where access to building structure is difficult.
- Plates can be bent for Brownbuilt Roof Sheeting.
- 360° Multi-directional, enabling full rotation around the anchor.
- Eyelet 28mm ID.

PRODUCT CODE: SURFL001+FIXINGS

Components	Description	Material	Qty
EYEBOLT-SURFACELINK	SurfaceLink Eyebolt (Install Length 178mm)	Rubber	1
SURF-SIDEPLATE	SurfaceLink Side Plate with foam	316SS	2
WASHER 70od-SS	Washer: 70mm OD	316SS	1
WASHER 50od-SS	Washer: 50mm OD	316SS	1
NUT M16	Nut: M16	316SS	1
RIVETS 8mm	Rivets 8mm	Aluminium	12

Classic SurfaceLink Anchor (Aluminium Plate)



- SurfaceLink anchor point designed for use on metal roof sheeting where access to building structure is difficult.
- Adjustable design to suit different roof profiles.
- 360° Multi-directional, enabling full rotation around the anchor.
- Eyelet 28mm ID.

PRODUCT CODE: ASURF001+FIXINGS

Components	Description	Material	Qty
EYEBOLT-SURFACELINK	SurfaceLink Eyebolt (Install Length 178mm)	316SS	1
ADV-PLATE-AL-H-305	SurfaceLink Plate (precut holes)	*MGA	1
WASHER 70od-Plastic	Washer: 70mm OD	Plastic	1
WASHER 50od-SS	Washer: 50mm OD	316SS	1
NUT M16	Nut: M16	316SS	1
FOAM-TAPE	Adhesive single sided tape	Foam	2
RIVETS 8mm	Rivets 8mm	Aluminium	10

Classic SurfaceLink Anchor (Stainless Steel Plate)



- SurfaceLink anchor point designed for use on metal roof sheeting where access to building structure is difficult.
- Adjustable design to suit different roof profiles.
- 360° Multi-directional, enabling full rotation around the anchor.
- Eyelet 28mm ID.

PRODUCT CODE: HSURF001+FIXINGS

Components	Description	Material	Qty
EYEBOLT-SURFACELINK	SurfaceLink Eyebolt (Install Length 178mm)	Rubber	1
ADV-PLATE-SS-H-305	SurfaceLink Plate (precut holes)	316SS	1
WASHER 50od-SS	Washer: 50mm OD	316SS	1
NUT M16	Nut: M16	316SS	1
FOAM-TAPE	Adhesive single sided tape	Foam	2
RIVETS 8mm	Rivets 8mm	Aluminium	10

*MGA = Marine Grade Aluminium



TEMPORARY ANCHORS



TempLink 3000

- Lightweight compact unit, enabling easy manoeuvring to desired location.
- The TempLink can be installed directly on timber rafters or through metal roof sheeting to battens.
- 360° Multi-directional, enabling full rotation around the anchor.
- One person anchor.
- Easy to secure with adjustable stainless steel mounting tabs.
- UV coated cable. Protective rubberised sleeve preventing damage to roof materials.
- Handy carry bag with installation instructions.
- Eyelet 33.8mm ID.

Components	Description	Material	Qty	Weight
TEMPL003	TempLink 3000 - Temporary Anchor	316SS	1	1.019g



TempLink 5000

- Suitable for mounting on metal roof sheeting with steel purlins or timber battens.
- 316 stainless steel. Easy grip handle.
- 360° Multi-directional, enabling full rotation around the anchor.
- Less fixings required due to energy absorbing features.
- One person anchor.

Components	Description	Material	Qty	Weight
TEMPL5000	TempLink 5000 - Temporary Anchor	316SS	1	3.200g



Gridmesh

- The Gridmesh Anchor is ideal for use in a multitude of industrial applications and industries, including oil & gas, petrochemical plants onshore and offshore drilling rigs, power stations to name just a few.
- Lightweight compact unit, enabling easy manoeuvring to desired location.
- Two person rated anchor (GA02).
- It can also be used as a lifting device for hauling loads up to 1.2 tonne (GA03).
- Comes complete in a handy carry bag with installation instructions.
- ONLY to be used in a vertical orientation.
- ONLY to be used by a competent person, trained in fall protection or materials handling.
- The Gridmesh Anchor has been tested in accordance with ANSI Z359, EN795, AS/NZS 5532 and conforms with the anchorage strength requirements of AS/NZS1891.4 as a two person anchor.

Components	Description	Weight
TEMPL5000	Gridmesh Anchor Kit - PERSONAL FALL ARREST (2 Person Rated)	21kg
TEMPL5000	Gridmesh Anchor Kit - MATERIAL HANDLING (1.2T Rated)	21kg



- The FastFit Davit is rated for one user with a maximum weight of 150kg suspended from the shuttle and one user connected to either of the secondary attachment points.
- The Davit may be used to lift materials. Davits used for material lifting purposes shall not be used for supporting a user, see manual for maximum loads allowed on Davit Booms.
- The FastFit Davit Temporary Anchor System is compliant with AS/NZS 5532 and EN795.

FAST FIT DAVIT ANCHOR

DAVIT KIT - MAST 1600mm / BOOM 1600mm



- Davit Kit - Mast 1600mm with Boom 1600mm.
- Shuttle included with Boom.
- Base not included.
- Weight: 51.90kg

PRODUCT CODE: DAVIT_KIT16.16

Components	Description	Material	Qty
DAVIT_MAST16	1600mm Mast	Aluminium/Stainless Steel/Gal Steel	1
DAVIT_BOOM16	1600mm Boom	Aluminium/Stainless Steel/Gal Steel	1
DAVIT_BRACE16	1600mm Brace	Aluminium	1

DAVIT BOOM - 1600mm

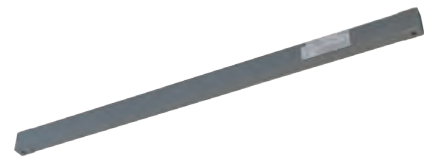


- Davit boom 1600mm. Supplied with moveable Shuttle.

PRODUCT CODE: DAVIT_BOOM16 Weight: 20.8kg

Components	Description	Material	Qty
DAVIT_BOOM.LABEL	Davit Boom Label	Adhesive Traffolyte	1
DAVIT_SHUTTLE	Davit Boom Shuttle	Stainless Steel	1
DAVIT_BOOM16_WELD	1600mm Boom Weldment	Aluminium	1

DAVIT BRACE - 1600mm



- Davit rear brace for 1600mm Mast. Required only for Booms over 1000mm.

PRODUCT CODE: DAVIT_BRACE16 Weight: 3kg

Components	Description	Material	Qty
DAVIT_BRACE16	Brace: 1600mm	Aluminium	1
DAVIT_BOOM.LABEL	Davit Boom Label	Adhesive Traffolyte	1

DAVIT MAST - 1600mm



- Davit mast 1600mm.
- Secondary anchor point included.

PRODUCT CODE: DAVIT_MAST16 Weight: 28.1kg

Components	Description	Material	Qty
DAVIT_MAST16	1600mm Mast	Aluminium/Stainless Steel/Gal Steel	1
DAVIT_BOOM.LABEL	Davit Boom Label	Adhesive Traffolyte	1

- Permanent horizontal height safety lifeline system, designed to be mounted into concrete structure.
- Concrete Rod must be chemically fastened, refer to Chemical Adhesive data sheet in Appendix 1.
- DonutLink washer installed as part of the FrogLine Concrete Lifeline allows pull testing to be completed without the need of additional eyebolt or removing any components from the system. Refer to Appendix 2 for pull testing.
- Equipped with an engineered energy absorbing region to minimise loads on users and structures in the event of a fall.
- Continuous connection with 8mm stainless steel cable, utilising the FrogLine Shuttle System, up to four (4) users per system, two (2) per span.

DONUTLINK CONCRETE MOUNTED FROGLINE

DonutLink: M16 316SS Adapter to be used with Hydrajaws Tester to pull test DonutLink Washer on Concrete FrogLine Lifeline.

Product Code	Description	Weight (kg)
STAT.FROGCAR002	FrogLine DonutLink Concrete End Anchor	0.965
STAT.FROGCAR001	FrogLine DonutLink Concrete Intermediate Anchor	0.961
STAT.FROGCAR008	FrogLine DonutLink Concrete Intermediate Extended Anchor	1.096
STAT.FROGCAR003	FrogLine DonutLink Concrete Corner Anchor	1.114

DonutLink Concrete Mounted END Anchor



End anchor is designed to be mounted into a concrete structure as attachment points for the cable to start and terminate at.

- Drill a 18mm hole to a minimum of 90mm embedment into concrete structure.
- Chemically anchored into concrete.

PRODUCT CODE: STAT.FROGCAR002

Components	Description	Material	Qty
FROGLINE END	FrogLine Base End	316SS	1
NUT M16_316	Nut: M16	316SS	1
WASHER M16_SPRING_316	Washer: M16 Spring	316SS	1
WASHER M16_DONUT	Washer: M16 DonutLink	316SS	1
ROD M16X130MM	Anchor Rod: M16x130mm (45 deg cut)	316SS	1

DonutLink Concrete Mounted INTERMEDIATE Anchor



Intermediate anchor is designed to limit lifeline span distances.

- Drill a 18mm hole to a minimum of 90mm embedment into concrete structure.
- Chemically anchored into concrete.

PRODUCT CODE: STAT.FROGCAR001

Components	Description	Material	Qty
FROGLINE INT	FrogLine Base Intermediate	316SS	1
NUT M16_316	Nut: M16	316SS	1
WASHER M16_SPRING_316	Washer: M16 Spring	316SS	1
WASHER M16_DONUT	Washer: M16 DonutLink	316SS	1
ROD M16X130MM	Anchor Rod: M16x130mm (45 deg cut)	316SS	1

DonutLink Concrete Mounted EXTENDED INTERMEDIATE Anchor



Extended Intermediate anchor is designed to limit lifeline span distances. Longer tube to enable bending to suit small degree changes in the line.

- Drill a 18mm hole to a minimum of 90mm embedment into concrete structure.
- Chemically anchored into concrete.

PRODUCT CODE: STAT.FROGCAR008

Components	Description	Material	Qty
FROGLINE INT_EXT	FrogLine Base Intermediate Extended	316SS	1
NUT M16_316	Nut: M16	316SS	1
WASHER M16_SPRING_316	Washer: M16 Spring	316SS	1
WASHER M16_DONUT	Washer: M16 DonutLink	316SS	1
ROD M16X130MM	Anchor Rod: M16x130mm (45 deg cut)	316SS	1

DonutLink Concrete Mounted CORNER Anchor



Corner anchor is designed to redirect cable by up to 90 degrees.

- Drill a 18mm hole to a minimum of 90mm embedment into concrete structure.
- Chemically anchored into concrete.

PRODUCT CODE: STAT.FROGCAR003

Components	Description	Material	Qty
FROGLINE CNR	FrogLine Base Corner	316SS	1
NUT M16_316	Nut: M16	316SS	1
WASHER M16_SPRING_316	Washer: M16 Spring	316SS	1
WASHER M16_DONUT	Washer: M16 DonutLink	316SS	1
ROD M16X130MM	Anchor Rod: M16x130mm (45 deg cut)	316SS	1

- Permanent horizontal height safety lifeline system, designed to be mounted into concrete structure.
- Concrete Insert must be chemically fastened, refer to Chemical Adhesive data sheet in Appendix 1.
- FrogLine Bolts installed as part of the FrogLine Concrete Lifeline allows easy proof load testing to be completed without the need to remove any components from the system. Refer to Appendix 2 for pull testing.
- Equipped with an engineered energy absorbing region to minimise loads on users and structures in the event of a fall.
- Continuous connection with 8mm stainless steel cable, utilising the FrogLine Shuttle System, up to four (4) users er system, two (2) per span.

CONCRETE MOUNTED FROGLINE

LIFELINES

The structure must be assessed by an engineer, unless it is clear to a competent person that the structure is adequate.

Product Code	Description	Weight (kg)
STAT.FROGCON001	Lifeline Concrete Intermediate Anchor	1.023
STAT.FROGCON002	Lifeline Concrete End Anchor	1.019
STAT.FROGCON003	Lifeline Concrete Corner Anchor	1.154
STAT.FROGCON008	Lifeline Concrete Intermediate Extended Anchor	1.172

Concrete Mounted END Anchor



Intermediate anchor is designed to limit lifeline span distances.

- Chemically anchored into concrete.
- Drill a 28mm hole to a depth of 90mm.

PRODUCT CODE: STAT.FROGCON002

Components	Description	Material	Qty
FROGLINE END	FrogLine Base End	316SS	1
FROGLINE BOLT	FrogLine Eyebolt M16 35mm	316SS	1
CON-INSERT	ConcreteLink Insert M16 90mm	316SS	1

Concrete Mounted INTERMEDIATE Anchor



End anchor is designed to be mounted into a concrete structure as attachment points for the cable to start and terminate at.

- Chemically anchored into concrete.
- Drill a 28mm hole to a depth of 90mm.

PRODUCT CODE: STAT.FROGCON001

Components	Description	Material	Qty
FROGLINE INT	FrogLine Base Intermediate	316SS	1
FROGLINE BOLT	FrogLine Eyebolt M16 35mm	316SS	1
CON-INSERT	ConcreteLink Insert M16 90mm	316SS	1

Concrete Mounted CORNER Anchor



Extended Intermediate anchor is designed to limit lifeline span distances. Longer tube to enable bending to suit small degree changes in the line.

- Chemically anchored into concrete.
- Drill a 28mm hole to a depth of 90mm.

PRODUCT CODE: STAT.FROGCON008

Components	Description	Material	Qty
FROGLINE INT_EXT	FrogLine Base Intermediate Extended	316SS	1
FROGLINE BOLT	FrogLine Eyebolt M16 35mm	316SS	1
CON-INSERT	ConcreteLink Insert M16 90mm	316SS	1

Concrete Mounted CORNER Anchor



Corner anchor is designed to redirect cable by up to 90 degrees.

- Chemically anchored into concrete.
- Drill a 28mm hole to a depth of 90mm.

PRODUCT CODE: STAT.FROGCON003

Components	Description	Material	Qty
FROGLINE CNR	FrogLine Base Corner	316SS	1
FROGLINE BOLT	FrogLine Eyebolt M16 35mm	316SS	1
CON-INSERT	ConcreteLink Insert M16 90mm	316SS	1



PURLIN MOUNTED RETRO FROGLINE

- Permanent horizontal height safety lifeline system, designed to be mounted onto metal purlins through various metal roof sheeting profiles.
- For extra height install with Extension Piece.
- Suits pitches no greater than 25 degrees on a multitude of roof profiles.
- Equipped with an engineered energy absorbing region to minimise loads on users and structures in the event of a fall.
- Continuous connection with 8mm stainless steel cable, utilising the Frogline Shuttle System, up-to four users per system, two per span.

LIFELINES

The structure must be assessed by an engineer, unless it is clear to a competent person that the structure is adequate.

Product Code	Description	Weight (kg)
STAT.FROGRET001	Lifeline RetroLink Intermediate Anchor	0.991
STAT.FROGRET002	Lifeline RetroLink End Anchor	0.987
STAT.FROGRET003	Lifeline RetroLink Corner Anchor	1.122
STAT.FROGRET008	Lifeline RetroLink Intermediate Extended Anchor	1.140
Extensions are used when extra height is required - lengths available 35mm, 55mm and 90mm		
STAT.FROGRET001_EXT	Lifeline RetroLink Intermediate Anchor with 35mm Extension	1.798
STAT.FROGRET002_EXT	Lifeline RetroLink End Anchor with 35mm Extension	1.794
STAT.FROGRET003_EXT	Lifeline RetroLink Corner Anchor with 35mm Extension	1.929
STAT.FROGRET008_EXT	Lifeline RetroLink Intermediate Extended Anchor with 35mm Extension	1.947

Retro INTERMEDIATE Anchor

Intermediate anchor designed to be mounted into metal purlin construction with various metal roof profiles, to limit lifeline span distances.

- Drill a 25mm hole.



PRODUCT CODE: STAT.FROGRET001

Components	Description	Material	Qty
FROGLINE INT	FrogLine Base Intermediate	316SS	1
BOLT-M16x90mm-SS	Bolt: M16 90mm Set Screw	316SS	1
O-RING	O-Ring	Rubber	1
WASHER M20	Washer: M20	316SS	1
WASHER 70OD-Foam	Foam Washer: 70OD	Foam	1
RETRO-TUBE	Retro Tube with Tie	316SS	1

Retro END Anchor

End anchor designed to be mounted into metal purlin construction with various metal roof profiles as attachment points for the cable to start and terminate at.

- Drill a 25mm hole.



PRODUCT CODE: STAT.FROGKSCF002

Components	Description	Material	Qty
FROGLINE END	FrogLine Base End	316SS	1
BOLT-M16x90mm-SS	Bolt: M16 90mm	316SS	1
O-RING	O-Ring	Rubber	1
WASHER M20	Washer: M20	316SS	1
WASHER 70OD-Foam	Foam Washer: 70OD	Foam	1
RETRO-TUBE	Retro Tube with Tie	316SS	1

Retro CORNER Anchor

Corner anchor designed to be mounted into metal purlin construction with various metal roof profiles. The lifeline cable runs through the corner anchor point re-directing it by up to 90 degrees.

- Drill a 25mm hole.



PRODUCT CODE: STAT.FROGKSCF003

Components	Description	Material	Qty
FROGLINE CNR	FrogLine Base Corner	316SS	1
BOLT-M16x90mm-SS	Bolt: M16 90mm Set Screw	316SS	1
O-RING	O-Ring	Rubber	1
WASHER M20	Washer: M20	316SS	1
WASHER 70OD-Foam	Foam Washer: 70OD	Foam	1
RETRO-TUBE	Retro Tube with Tie	316SS	1

Retro EXTENDED INTERMEDIATE Anchor

Intermediate anchor designed to be mounted into metal purlin construction with various metal roof profiles, to limit lifeline span distances. Longer tube to enable bending to suit small degree changes in the line.



PRODUCT CODE: STAT.FROGKSCF008

Components	Description	Material	Qty
FROGLINE INT_EXT	FrogLine Base Intermediate Extended	316SS	1
BOLT-M16x90mm-SS	Bolt: M16 90mm Set Screw	316SS	1
O-RING	O-Ring	Rubber	1
WASHER M20	Washer: M20	316SS	1
WASHER 70OD-Foam	Foam Washer: 70OD	Foam	1
RETRO-TUBE	Retro Tube with Tie	316SS	1

- Permanent horizontal height safety lifeline system, designed to be mounted into steel construction.
- Install up roof pitches no greater than 15 degrees and across roof pitches no greater than 25 degrees.
- Equipped with an engineered energy absorbing region to minimise loads on users and structures in the event of a fall.
- Continuous connection with 8mm stainless steel cable, utilising the FrogLine Shuttle System, up to four (4) users per system, two (2) per span.

STEEL MOUNTED FROGLINE

LIFELINES

The structure must be assessed by an engineer, unless it is clear to a competent person that the structure is adequate.

Product Code	Description	Weight (kg)
STAT.FROGST001	Lifeline Steel Purlin Intermediate Anchor	0.841
STAT.FROGST002	Lifeline Steel Purlin End Anchor	0.837
STAT.FROGST003	Lifeline Steel Purlin Corner Anchor	0.972
STAT.FROGST008	Lifeline Steel Intermediate Extended Anchor	0.990

Steel Purlin INTERMEDIATE Anchor



Intermediate anchor designed to be mounted into steel structures to limit lifeline span distances.

- Drill a 25mm hole.

PRODUCT CODE: STAT.FROGST001

Components	Description	Material	Qty
FROGLINE INT	FrogLine Base Intermediate	316SS	1
BOLT-M16x50mm-SS	Bolt: M16x50mm Set Screw	316SS	1
WASHER M16	Washer: M16	316SS	1
NUT M16	Nut: M16	316SS	1

Steel Purlin END Anchor



End anchor designed to be mounted into steel structures as attachment points for the cable to start and terminate at.

- Drill a 25mm hole.

PRODUCT CODE: STAT.FROGST002

Components	Description	Material	Qty
FROGLINE END	FrogLine Base End	316SS	1
BOLT-M16x50mm-SS	Bolt: M16x50mm Set Screw	316SS	1
WASHER M16	Washer: M16	316SS	1
NUT M16	Nut: M16	316SS	1

Steel Purlin CORNER Anchor



Corner anchor designed to be mounted into steel structures. The lifeline cable runs through the corner anchor point re-directing it by up to 90 degrees.

- Drill a 25mm hole.

PRODUCT CODE: STAT.FROGST003

Components	Description	Material	Qty
FROGLINE CNR	FrogLine Base Corner	316SS	1
BOLT-M16x50mm-SS	Bolt: M16x50mm Set Screw	316SS	1
WASHER M16	Washer: M16	316SS	1
NUT M16	Nut: M16	316SS	1

Steel Purlin EXTENDED INTERMEDIATE Anchor



Intermediate anchor designed to be mounted into steel structures to limit lifeline span distances. Longer tube to enable bending to suit small degree changes in the line.

- Drill a 25mm hole.

PRODUCT CODE: STAT.FROGST008

Components	Description	Material	Qty
FROGLINE INT_EXT	FrogLine Base Intermediate Extended	316SS	1
BOLT-M16x50mm-SS	Bolt: M16x50mm Set Screw	316SS	1
WASHER M16	Washer: M16	316SS	1
NUT M16	Nut: M16	316SS	1

- Permanent horizontal height safety lifeline system, designed to be mounted onto various metal profile roof sheeting.
- Suits pitches no greater than 25 degrees.
- Fitted where it is difficult to access the underside of the roof. Equipped with an engineered energy absorbing region to minimise loads on users and structures in the event of a fall.
- Continuous connection with 8mm stainless steel cable, utilising the FrogLine Shuttle System, up to four (4) users per system, two (2) per span.



SURFACE MOUNTED FROGLINE

LIFELINES

The structure must be assessed by an engineer, unless it is clear to a competent person that the structure is adequate.

Product Code	Description	Weight (kg)
STAT.FROGSAL002	FrogLine Surface Mounted End Anchor (Marine Grade Aluminium Plate)	1.468
STAT.FROGSAL002+Fixings	FrogLine Surface Mounted End Anchor (Marine Grade Aluminium Plate) + Fixings	1.568
STAT.FROGSAL001	FrogLine Surface Mounted Intermediate Anchor (Marine Grade Aluminium Plate)	1.464
STAT.FROGSAL001+Fixings	FrogLine Surface Mounted Intermediate Anchor (Marine Grade Aluminium Plate) + Fixings	1.564
STAT.FROGSAL008	FrogLine Surface Mounted Intermediate Extended Anchor (Marine Grade Aluminium Plate)	1.599
STAT.FROGSAL008+Fixings	FrogLine Surface Mounted Intermediate Extended Anchor (Marine Grade Aluminium Plate) + Fixings	1.699
STAT.FROGSAL003	FrogLine Surface Mounted Corner Anchor (Marine Grade Aluminium Plate)	1.617
STAT.FROGSAL003+Fixings	FrogLine Surface Mounted Corner Anchor (Marine Grade Aluminium Plate) + Fixings	1.717

Surface Mounted END Anchor (Alu Plate)

End anchor designed to be mounted on the surface of a metal roof profile as attachment points for the cable to start and terminate at.



PRODUCT CODE: STAT.FROGSAL002+FIXINGS

Components	Description	Material	Qty
FROGLINE END	FrogLine Base End	316SS	1
BOLT-M16x35mm-SS	Bolt: M16 x 35mm Set Screw	316SS	1
ADV-PLATE-AL-H-305	SurfaceLink Plate 305mm (precut holes)	*MGA	1
WASHER 70od-Plastic	Washer: 70mm OD	Plastic	2
WASHER 70od-SS	Washer: 70mm OD	316SS	1
NUT M16_316	Nut: M16	316SS	1
FOAM-TAPE 29cm	Barrier Foam Tape	Foam	2
SCREW 14.10x75mm	14-10x75mm Hex Head Screws	Coated	2
RIVETS_8mm	Rivets: 8mm	Aluminium	10

Surface Mounted INTERMEDIATE Anchor (Alu Plate)

Intermediate anchor designed to be mounted on the surface of a metal roof profile to limit lifeline span distances.

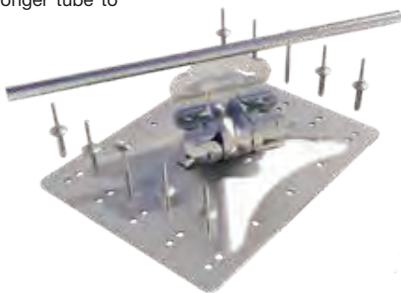


PRODUCT CODE: STAT.FROGSAL001+FIXINGS

Components	Description	Material	Qty
FROGLINE INT	FrogLine Base Intermediate	316SS	1
BOLT-M16x35mm-SS	Bolt: M16 x 35mm Set Screw	316SS	1
ADV-PLATE-AL-H-305	SurfaceLink Plate 305mm (precut holes)	*MGA	1
WASHER 70od-Plastic	Washer: 70mm OD	Plastic	2
WASHER 70od-SS	Washer: 70mm OD	316SS	1
NUT M16	Nut: M16	316SS	1
FOAM-TAPE 29cm	Barrier Foam Tape	Foam	2
SCREW 14.10x75mm	14-10x75mm Hex Head Screws	Coated	2
RIVETS_8mm	Rivets: 8mm	Aluminium	10

Surface Mounted INTERMEDIATE EXT Anchor (Alu Plate)

Extended Intermediate anchor with longer tube to enable bending to suit small degree changes in the line.



PRODUCT CODE: STAT.FROGSAL003+FIXINGS

Components	Description	Material	Qty
FROGLINE INT_EXT	FrogLine Base Intermediate Extended	316SS	1
BOLT-M16x35mm-SS	Bolt: M16 x 35mm Set Screw	316SS	1
ADV-PLATE-AL-H-305	SurfaceLink Plate 305mm (precut holes)	*MGA	1
WASHER 70od-Plastic	Washer: 70mm OD	Plastic	2
WASHER 70od-SS	Washer: 70mm OD	316SS	1
NUT M16	Nut: M16	316SS	1
FOAM-TAPE 29cm	Barrier Foam Tape	Foam	2
SCREW 14.10x75mm	14-10x75mm Hex Head Screws	Coated	2
RIVETS_8mm	Rivets: 8mm	Aluminium	10

Surface Mounted CORNER Anchor (Alu Plate)

Corner anchor designed to be mounted on the surface of a metal roof profile. The lifeline cable runs through the corner anchor point re-directing it by up to 90 degrees.



PRODUCT CODE: STAT.FROGSAL003+FIXINGS

Components	Description	Material	Qty
FROGLINE CNR	FrogLine Base Corner	316SS	1
BOLT-M16x35mm-SS	Bolt: M16 x 35mm Set Screw	316SS	1
ADV-PLATE-AL-H-305	SurfaceLink Plate 305mm (precut holes)	*MGA	1
WASHER 70od-Plastic	Washer: 70mm OD	Plastic	2
WASHER 70od-SS	Washer: 70mm OD	316SS	1
NUT M16	Nut: M16	316SS	1
FOAM-TAPE 29cm	Barrier Foam Tape	Foam	2
SCREW 14.10x75mm	14-10x75mm Hex Head Screws	Coated	2
RIVETS_8mm	Rivets: 8mm	Aluminium	10

SURFACE MOUNTED FROGLINE

- Permanent horizontal height safety lifeline system, designed to be mounted onto various metal profile roof sheeting.
- Install up roof pitches no greater than 15 degrees and across roof pitches no greater than 25 degrees.
- Fitted where it is difficult to access the underside of the roof. Equipped with an engineered energy absorbing region to minimise loads on users and structures in the event of a fall.
- Continuous connection with 8mm stainless steel cable, utilising the FrogLine Shuttle System, up to four (4) users per system, two (2) per span.

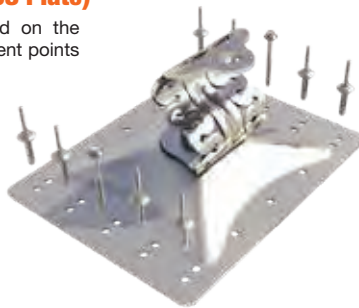
LIFELINES

The structure must be assessed by an engineer, unless it is clear to a competent person that the structure is adequate.

Product Code	Description	Weight (kg)
STAT.FROGSUR002	FrogLine Surface Mounted End Anchor (316 Stainless Steel Plate)	1.995
STAT.FROGSUR002+Fixings	FrogLine Surface Mounted End Anchor (316 Stainless Steel Plate) + Fixings	2.095
STAT.FROGSUR001	FrogLine Surface Mounted Intermediate Anchor (316 Stainless Steel Plate)	1.991
STAT.FROGSUR001+Fixings	FrogLine Surface Mounted Intermediate Anchor (316 Stainless Steel Plate) + Fixings	2.091
STAT.FROGSUR008	FrogLine Surface Mounted Intermediate Extended Anchor (316 Stainless Steel Plate)	2.126
STAT.FROGSUR008+Fixings	FrogLine Surface Mounted Intermediate Extended Anchor (316 Stainless Steel Plate) + Fixings	2.226
STAT.FROGSUR003	FrogLine Surface Mounted Corner Anchor (316 Stainless Steel Plate)	2.144
STAT.FROGSUR003+Fixings	FrogLine Surface Mounted Corner Anchor (316 Stainless Steel Plate) + Fixings	2.244

Surface Mounted END Anchor (SS Plate)

End anchor is designed to be mounted on the surface of a metal roof profile as attachment points for the cable to start and terminate at.



PRODUCT CODE: STAT.FROGSAL002+FIXINGS

Components	Description	Material	Qty
FROGLINE END	FrogLine Base End	316SS	1
BOLT-M16x35mm-SS	Bolt: M16 x 35mm Set Screw	316SS	1
ADV-PLATE-AL-H-305	SurfaceLink Plate 305mm (precut holes)	*MGA	1
WASHER 70od-Plastic	Washer: 70mm OD	Plastic	2
WASHER 70od-SS	Washer: 70mm OD	316SS	1
NUT M16_316	Nut: M16	316SS	1
FOAM-TAPE 29cm	Barrier Foam Tape	Foam	2
SCREW 14.10x75mm	14-10x75mm Hex Head Screws	Coated	2
RIVETS_8mm	Rivets: 8mm	Aluminium	10

Surface Mounted INTERMEDIATE Anchor (SS Plate)

Intermediate anchor is designed to be mounted on the surface of a metal roof profile to limit lifeline span distances.



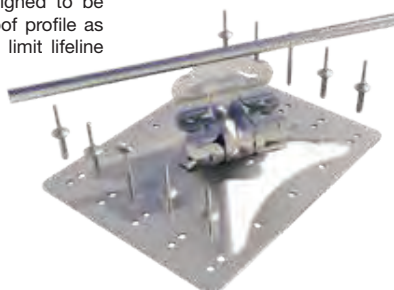
PRODUCT CODE: STAT.FROGSAL001+FIXINGS

Components	Description	Material	Qty
FROGLINE INT	FrogLine Base Intermediate	316SS	1
BOLT-M16x35mm-SS	Bolt: M16 x 35mm Set Screw	316SS	1
ADV-PLATE-AL-H-305	SurfaceLink Plate 305mm (precut holes)	*MGA	1
WASHER 70od-Plastic	Washer: 70mm OD	Plastic	2
WASHER 70od-SS	Washer: 70mm OD	316SS	1
NUT M16	Nut: M16	316SS	1
FOAM-TAPE 29cm	Barrier Foam Tape	Foam	2
SCREW 14.10x75mm	14-10x75mm Hex Head Screws	Coated	2
RIVETS_8mm	Rivets: 8mm	Aluminium	10

Surface Mounted INTERMEDIATE EXT Anchor (SS Plate)

Extended Intermediate anchor is designed to be mounted on the surface of a metal roof profile as part of a horizontal lifeline system, to limit lifeline span distances.

Longer tube to enable bending to suit small degree changes in the line.

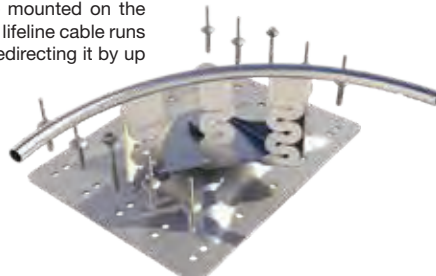


PRODUCT CODE: STAT.FROGSAL003+FIXINGS

Components	Description	Material	Qty
FROGLINE INT_EXT	FrogLine Base Intermediate Extended	316SS	1
BOLT-M16x35mm-SS	Bolt: M16 x 35mm Set Screw	316SS	1
ADV-PLATE-AL-H-305	SurfaceLink Plate 305mm (precut holes)	*MGA	1
WASHER 70od-Plastic	Washer: 70mm OD	Plastic	2
WASHER 70od-SS	Washer: 70mm OD	316SS	1
NUT M16	Nut: M16	316SS	1
FOAM-TAPE 29cm	Barrier Foam Tape	Foam	2
SCREW 14.10x75mm	14-10x75mm Hex Head Screws	Coated	2
RIVETS_8mm	Rivets: 8mm	Aluminium	10

Surface Mounted CORNER Anchor (SS Plate)

Corner anchor is designed to be mounted on the surface of a metal roof profile. The lifeline cable runs through the corner anchor point redirecting it by up to 90 degrees.



PRODUCT CODE: STAT.FROGSAL003+FIXINGS

Components	Description	Material	Qty
FROGLINE CNR	FrogLine Base Corner	316SS	1
BOLT-M16x35mm-SS	Bolt: M16 x 35mm Set Screw	316SS	1
ADV-PLATE-AL-H-305	SurfaceLink Plate 305mm (precut holes)	*MGA	1
WASHER 70od-Plastic	Washer: 70mm OD	Plastic	2
WASHER 70od-SS	Washer: 70mm OD	316SS	1
NUT M16	Nut: M16	316SS	1
FOAM-TAPE 29cm	Barrier Foam Tape	Foam	2
SCREW 14.10x75mm	14-10x75mm Hex Head Screws	Coated	2
RIVETS_8mm	Rivets: 8mm	Aluminium	10

Horizontal Lifeline

- Permanent horizontal height safety lifeline system, designed to be mounted onto Longline/Brownbuilt metal roof sheeting.
- Install up roof pitches no greater than 15 degrees and across roof pitches no greater than 25 degrees.
- Fitted where it is difficult to access the underside of the roof. Equipped with an engineered energy absorbing region to minimise loads on users and structures in the event of a fall.
- Continuous connection with 8mm stainless steel cable, utilising the FrogLine Shuttle System, up to four (4) users per system, two (2) per span.



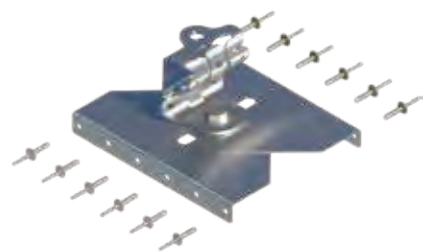
SURFACE MOUNTED FROGLINE

LIFELINES

The structure must be assessed by an engineer, unless it is clear to a competent person that the structure is adequate.

Product Code	Description	Weight (kg)
STAT.FROGSBB002+Fixings	FrogLine Brownbuilt End Anchor (Bent Side Plates for Longline/Brownbuilt) + Fixings	2.509
STAT.FROGSBB001+Fixings	FrogLine Brownbuilt Intermediate Anchor (Bent Side Plates for Longline/Brownbuilt) + Fixings	2.505
STAT.FROGSBB008+Fixings	FrogLine Brownbuilt Intermediate Extended Anchor (Bent Side Plates for Longline/Brownbuilt) + Fixings	2.640
STAT.FROGSBB003+Fixings	FrogLine Brownbuilt Corner Anchor (Bent Side Plates for Longline/Brownbuilt) + Fixings	2.658

Surface Mounted END Anchor (Bent Side Plates for Longline/Brownbuilt)

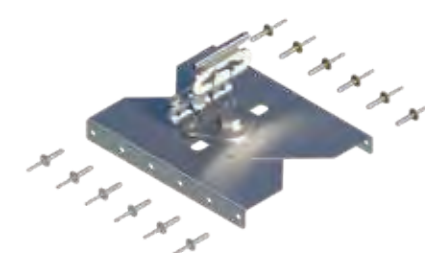


End anchor is designed to be mounted on the surface of a metal roof profile as attachment points for the cable to start and terminate at.

PRODUCT CODE: STAT.FROGSBB002+FIXINGS

Components	Description	Material	Qty
FROGLINE END	FrogLine Base End	316SS	1
BOLT-M16x35mm-SS	Bolt: M16 x 35mm Set Screw	316SS	1
SURF-SIDEPLATE-BB	SurfaceLink Side Plate BENT+foam	316SS	2
WASHER 70od_SS	Washer: 70mm OD	316SS	1
WASHER M16_SPRING_316	Washer: M16 Spring	316SS	1
NUT M16_316	Nut: M16	316SS	1
RIVET_8mm(34)	Tri-fold Rivet: 8mm 7.7 x 34.0 length (Yellow Seal)	Alum	12

Surface Mounted INTERMEDIATE Anchor (Bent Side Plates for Longline/Brownbuilt)

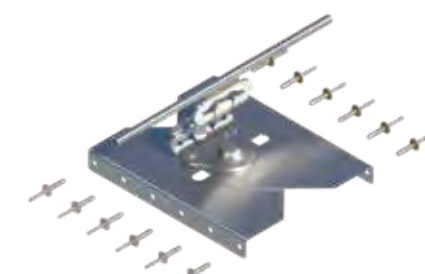


Intermediate anchor is designed to be mounted on the surface of a metal roof profile to limit lifeline span distances.

PRODUCT CODE: STAT.FROGSBB001+FIXINGS

Components	Description	Material	Qty
FROGLINE INT	FrogLine Base Intermediate	316SS	1
BOLT-M16x35mm-SS	Bolt: M16 x 35mm Set Screw	316SS	1
SURF-SIDEPLATE-BB	SurfaceLink Side Plate BENT+foam	316SS	2
WASHER 70od_SS	Washer: 70mm OD	316SS	1
WASHER M16_SPRING_316	Washer: M16 Spring	316SS	1
NUT M16_316	Nut: M16	316SS	1
RIVET_8mm(34)	Tri-fold Rivet: 8mm 7.7 x 34.0 length (Yellow Seal)	Alum	12

Surface Mounted INTERMEDIATE EXTENDED Anchor (Bent Side Plates for Longline/BB)



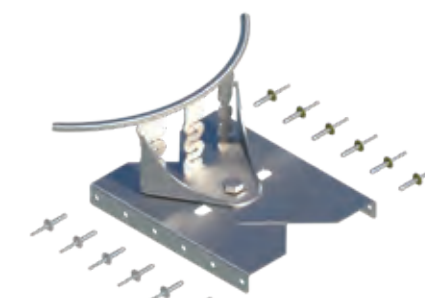
Extended Intermediate anchor is designed to be mounted on the surface of a metal roof profile as part of a horizontal lifeline system, to limit lifeline span distances.

Longer tube to enable bending to suit small degree changes in the line.

PRODUCT CODE: STAT.FROGSBB008+FIXINGS

Components	Description	Material	Qty
FROGLINE INT_EXT	FrogLine Base Intermediate Extended	316SS	1
BOLT-M16x35mm-SS	Bolt: M16 x 35mm Set Screw	316SS	1
SURF-SIDEPLATE-BB	SurfaceLink Side Plate BENT+foam	316SS	2
WASHER 70od_SS	Washer: 70mm OD	316SS	1
WASHER M16_SPRING_316	Washer: M16 Spring	316SS	1
NUT M16_316	Nut: M16	316SS	1
RIVET_8mm(34)	Tri-fold Rivet: 8mm 7.7 x 34.0 length (Yellow Seal)	Alum	12

Surface Mounted CORNER Anchor (Bent Side Plates for Longline/Brownbuilt)



Corner anchor is designed to be mounted on the surface of a metal roof profile. The lifeline cable runs through the corner anchor point redirecting it by up to 90 degrees.

PRODUCT CODE: STAT.FROGSBB003+FIXINGS

Components	Description	Material	Qty
FROGLINE CNR	FrogLine Base Corner	316SS	1
BOLT-M16x35mm-SS	Bolt: M16 x 35mm Set Screw	316SS	1
SURF-SIDEPLATE-BB	SurfaceLink Side Plate BENT+foam	316SS	2
WASHER 70od_SS	Washer: 70mm OD	316SS	1
WASHER M16_SPRING_316	Washer: M16 Spring	316SS	1
NUT M16_316	Nut: M16	316SS	1
RIVET_8mm(34)	Tri-fold Rivet: 8mm 7.7 x 34.0 length (Yellow Seal)	Alum	12

SURFACE MOUNTED FROGLINE

LIFELINES

The structure must be assessed by an engineer, unless it is clear to a competent person that the structure is adequate.

- Permanent horizontal height safety lifeline system, designed to be mounted onto standing seam roof profile.
- Brackets clamp to the roof profile with no penetration to the roof sheeting for superior waterproofing.
- Install up roof pitches no greater than 15 degrees and across roof pitches no greater than 25 degrees.
- Fitted where it is difficult to access the underside of the roof. Equipped with an engineered energy absorbing region to minimise loads on users and structures in the event of a fall.
- Continuous connection with 8mm stainless steel cable, utilising the FrogLine Shuttle System, up to four (4) users per system, two (2) per span.

Product Code	Description	Weight (kg)
STAT.FROGSBB002+Fixings	FrogLine Brownbuilt End Anchor (Bent Side Plates for Longline/Brownbuilt) + Fixings	2.509
STAT.FROGSBB001+Fixings	FrogLine Brownbuilt Intermediate Anchor (Bent Side Plates for Longline/Brownbuilt) + Fixings	2.505
STAT.FROGSBB008+Fixings	FrogLine Brownbuilt Intermediate Extended Anchor (Bent Side Plates for Longline/Brownbuilt) + Fixings	2.640
STAT.FROGSBB003+Fixings	FrogLine Brownbuilt Corner Anchor (Bent Side Plates for Longline/Brownbuilt) + Fixings	2.658

Surface Mounted END Anchor (advise roof profile for Clamp & Plate sizes)



End anchor is designed to be mounted on Standing Seam Roof Profile as attachment points for the cable to start and terminate at.

PRODUCT CODE: STAT.FROGPLT002 + PLATE + CLAMPS

Components	Description	Material	Qty
FROGLINE END	FrogLine Base End	316SS	1
BOLT-M16x35mm-SS	Bolt: M16x35mm Set Screw	316SS	1
WASHER 70od_Plastic	Washer: 70mm OD	Plastic	2
WASHER 70od_SS	Washer: 70mm OD	316SS	1
WASHER M16_SPRING_316	Washer: M16 Spring	316SS	1
NUT M16_316	Nut: M16	316SS	1
ADV-PLATE-AL-"SIZE"	SurfaceLink Plate (advise roof profile for Plate Size)	Alum	1
S5_BRACKET "TYPE"	S5_Clamp (advise roof profile for Clamp type)	Alum/SS	4

Surface Mounted INTERMEDIATE Anchor (advise roof profile for Clamp & Plate sizes)



Intermediate anchor is designed to be mounted on Standing Seam Roof Profile to limit lifeline span distances.

PRODUCT CODE: STAT.FROGPLT001 + PLATE + CLAMPS

Components	Description	Material	Qty
FROGLINE INT	FrogLine Base Intermediate	316SS	1
BOLT-M16x35mm-SS	Bolt: M16x35mm Set Screw	316SS	1
WASHER 70od_Plastic	Washer: 70mm OD	Plastic	2
WASHER 70od_SS	Washer: 70mm OD	316SS	1
WASHER M16_SPRING_316	Washer: M16 Spring	316SS	1
NUT M16_316	Nut: M16	316SS	1
ADV-PLATE-AL-"SIZE"	SurfaceLink Plate (advise roof profile for Plate Size)	Alum	1
S5_BRACKET "TYPE"	S5_Clamp (advise roof profile for Clamp type)	Alum/SS	4

Surface Mounted INTERMEDIATE EXTENDED (advise roof profile for Clamp & Plate sizes)



Extended Intermediate anchor is designed to be mounted on Standing Seam Roof Profile to limit lifeline span distances. Longer tube to enable bending to suit small degree changes in the line.

PRODUCT CODE: STAT.FROGPLT008 + PLATE + CLAMPS

Components	Description	Material	Qty
FROGLINE INT_EXT	FrogLine Base Intermediate Extended	316SS	1
BOLT-M16x35mm-SS	Bolt: M16x35mm Set Screw	316SS	1
WASHER 70od_Plastic	Washer: 70mm OD	Plastic	2
WASHER 70od_SS	Washer: 70mm OD	316SS	1
WASHER M16_SPRING_316	Washer: M16 Spring	316SS	1
NUT M16_316	Nut: M16	316SS	1
ADV-PLATE-AL-"SIZE"	SurfaceLink Plate (advise roof profile for Plate Size)	Alum	1
S5_BRACKET "TYPE"	S5_Clamp (advise roof profile for Clamp type)	Alum/SS	4

Surface Mounted CORNER Anchor (advise roof profile for Clamp & Plate sizes)



Corner anchor is designed to be mounted on Standing Seam Roof Profile. The lifeline cable runs through the corner anchor point redirecting it by up to 90 degrees.

PRODUCT CODE: STAT.FROGPLT003 + PLATE + CLAMPS

Components	Description	Material	Qty
FROGLINE CNR	FrogLine Base Corner	316SS	1
BOLT-M16x35mm-SS	Bolt: M16x35mm Set Screw	316SS	1
WASHER 70od_Plastic	Washer: 70mm OD	Plastic	2
WASHER 70od_SS	Washer: 70mm OD	316SS	1
WASHER M16_SPRING_316	Washer: M16 Spring	316SS	1
NUT M16_316	Nut: M16	316SS	1
ADV-PLATE-AL-"SIZE"	SurfaceLink Plate (advise roof profile for Plate Size)	Alum	1
S5_BRACKET "TYPE"	S5_Clamp (advise roof profile for Clamp type)	Alum/SS	4



WALL DONUTLINK CONCRETE FROGLINE

LIFELINES

The structure must be assessed by an engineer, unless it is clear to a competent person that the structure is adequate.

- Permanent horizontal height safety lifeline system, designed to be wall mounted into concrete.
- Significantly reduces the installation time, producing an efficient and cost effective system.
- No additional eyebolts needed for load testing. Testing done in situ, no dismantling required.
- Equipped with an engineered energy absorbing region to minimise loads on users and structures in the event of a fall.
- Continuous connection with 8mm stainless steel cable, utilising the FrogLine Shuttle System, up to four (4) users per system, two (2) per span.

WALL MOUNTED DONUTLINK CONCRETE FROGLINE LIFELINE

Product Code	Description	Weight (kg)
STAT.FROGCAR002	FrogLine Concrete DonutLink End Anchor	1.023
STAT.FROGCAR001	FrogLine Concrete DonutLink Intermediate Anchor	1.019
STAT.FROGCAR011	FrogLine Concrete DonutLink Corner Wall Anchor	2.217

DonutLink Concrete Mounted END Anchor



End anchor is designed to be mounted into a concrete structure as attachment points for the cable to start and terminate at.

- Drill a 18mm hole to a minimum of 90mm embedment into concrete structure.
- Chemically anchored into concrete.

PRODUCT CODE: STAT.FROGCAR002

Components	Description	Material	Qty
FROGLINE END	FrogLine Base End	316SS	1
NUT M16_316	Nut: M16	316SS	1
WASHER M16_SPRING_316	Washer: M16 Spring	316SS	1
WASHER M16_DONUT	Washer: M16 DonutLink	316SS	1
ROD M16X130MM	Anchor Rod: M16x130mm (45 deg cut)	316SS	1

DonutLink Concrete Mounted INTERMEDIATE Anchor



Intermediate anchor is designed to be mounted into a concrete structure as attachment points for the cable to start and terminate at.

- Drill a 18mm hole to a minimum of 90mm embedment into concrete structure.
- Chemically anchored into concrete.

PRODUCT CODE: STAT.FROGCAR001

Components	Description	Material	Qty
FROGLINE INT	FrogLine Base Intermediate	316SS	1
NUT M16_316	Nut: M16	316SS	1
WASHER M16_SPRING_316	Washer: M16 Spring	316SS	1
WASHER M16_DONUT	Washer: M16 DonutLink	316SS	1
ROD M16X130MM	Anchor Rod: M16x130mm (45 deg cut)	316SS	1

DonutLink Concrete Mounted CORNER WALL Anchor



Concrete wall anchor is designed to be mounted into a concrete wall on internal and external corners. The lifeline cable runs through the corner tube redirecting it by up to 90 degrees.

- Drill a 18mm hole to a minimum of 90mm embedment into concrete structure.
- Chemically anchored into concrete.

PRODUCT CODE: STAT.FROGCAR011

Components	Description	Material	Qty
STAT.FROGCAR001	FrogLine Concrete Intermediate	316SS	2
STAT.CTUBE001.01	Corner Tube: 90 degrees	316SS	1

- Permanent horizontal height safety lifeline system, designed to be wall mounted into concrete.
- Concrete Insert must be chemically fastened, refer to chemical Adhesive data sheet in Appendix 1.
- FrogLine Bolts installed as part of the lifeline allows easy proof load testing to be completed without the need to remove any components from the system.
- Equipped with an engineered energy absorbing region to minimise loads on users and structures in the event of a fall.
- Continuous connection with 8mm stainless steel cable, utilising the FrogLine Shuttle System, up to four (4) users per system, two (2) per span.

WALL MOUNTED CONCRETE FROGLINE

LIFELINES

The structure must be assessed by an engineer, unless it is clear to a competent person that the structure is adequate.

WALL MOUNTED CONCRETE FROGLINE LIFELINE

Product Code	Description	Weight (kg)
STAT.FROGCON002	FrogLine Concrete End Anchor	1.023
STAT.FROGCON001	FrogLine Concrete Intermediate Anchor	1.019
STAT.FROGCON011	FrogLine Concrete Corner Wall Anchor	2.217

Concrete Mounted END Anchor



End anchor is designed to be mounted into a concrete wall structure as attachment points for the cable to start and terminate at.

- Chemically anchored into concrete.
- Drill a 28mm hole to a depth of 90mm.

PRODUCT CODE: STAT.FROGCON002

Components	Description	Material	Qty
FROGLINE END	FrogLine Base End	316SS	1
FROGLINE BOLT	FrogLine Eyebolt M16 35mm	316SS	1
CON-INSERT	ConcreteLink Insert M16 x 90mm	316SS	1

Concrete Mounted INTERMEDIATE Anchor



Intermediate anchor is designed to be mounted into a concrete wall structure, to limit lifeline span distances.

- Chemically anchored into concrete.
- Drill a 28mm hole to a depth of 90mm.

PRODUCT CODE: STAT.FROGCON001

Components	Description	Material	Qty
FROGLINE INT	FrogLine Base Intermediate	316SS	1
FROGLINE BOLT	FrogLine Eyebolt M16 35mm	316SS	1
CON-INSERT	ConcreteLink Insert M16 x 90mm	316SS	1

Concrete Mounted CORNER WALL Anchor



Concrete wall anchor is designed to be mounted into a concrete wall on internal and external corners. The lifeline cable runs through the corner tube redirecting it by up to 90 degrees.

- Chemically anchored into concrete.
- Drill a 28mm hole to a depth of 90mm.

PRODUCT CODE: STAT.FROGCON011

Components	Description	Material	Qty
STAT.FROGCON001	FrogLine Concrete Intermediate Anchor	316SS	2
STAT.CTUBE001.01	Corner Tube: 90 degrees	316SS	1

CONCRETE MOUNTED OVERHEAD FROGLINE

- Permanent horizontal height safety lifeline system, designed to be wall mounted overhead into concrete.
- Concrete Insert must be chemically fastened.
- FrogLine Bolts installed as part of the FrogLine Concrete Lifeline allows easy proof load testing to be completed without the need to remove any components from the system.
- Equipped with an engineered energy absorbing region to minimise loads on users and structures in the event of a fall.
- Continuous connection with 8mm stainless steel cable, utilising the Frogline Shuttle System, up-to four users per system, two per span.



LIFELINES

The structure must be assessed by an engineer, unless it is clear to a competent person that the structure is adequate.

Product Code	Description	Weight (kg)
STAT.FROGCN009	FrogLine ConcreteLink End OVERHEAD Anchor (CONCRETE INSERT VERSION FOR PULL TESTING)	1.030
STAT.FROGCAR004	FrogLine Concrete Overhead DonutLink Intermediate Anchor	0.968
STAT.FROGCAR010	FrogLine Concrete Overhead DonutLink Corner Anchor	2.115
STAT.FROGCAR012	FrogLine Concrete DonutLink Overhead External Corner Anchor	1.150
STAT.FROGCAR013	FrogLine Concrete DonutLink Overhead Internal Corner Anchor	1.150

Concrete Mounted OVERHEAD END Anchor



End anchor is designed to be mounted into a concrete overhead structure as attachment points for the cable to start and terminate at.

PRODUCT CODE: STAT.FROGCAR009

Components	Description	Material	Qty
FROGLINE END_OH	FrogLine Base End Overhead	316SS	1
WASHER M16_DONUT	Washer: DonutLink M16	316SS	1
CON-M16x130	M16x130mm Anchor Rod+Washer+Spring Washer+Nut	316SS	1

DonutLink Concrete Mounted OVERHEAD INTERMEDIATE Anchor



Intermediate anchor is designed to be mounted into a concrete overhead structure to limit lifeline span distances.

PRODUCT CODE: STAT.FROGCAR004

Components	Description	Material	Qty
FROGLINE INT_OH	FrogLine Base Intermediate Overhead	316SS	1
WASHER M16_DONUT	Washer: DonutLink M16	316SS	1
CON-M16x130	M16x130mm Anchor Rod+Washer+Spring Washer+Nut	316SS	1

DonutLink Concrete Mounted OVERHEAD CORNER Anchor



Corner anchor is designed to be mounted into a concrete overhead structure. The lifeline cable runs through the corner tube redirecting it by up to 90 degrees.

PRODUCT CODE: STAT.FROGCAR010

Components	Description	Material	Qty
STAT.FROGCAR004	FrogLine DonutLink Concrete Intermediate Overhead	316SS	2
STAT.CTUBE001.01	Corner Tube: 90 degrees	316SS	1

DonutLink Concrete Mounted OVERHEAD EXTERNAL CORNER Anchor



EXTERNAL Corner anchor is designed to be mounted into a concrete overhead structure. The lifeline cable runs through the corner tube redirecting it by up to 90 degrees.

PRODUCT CODE: STAT.FROGCAR012

Components	Description	Material	Qty
FROGLINE CNR_OH_EXT	FrogLine Base Overhead External Corner	316SS	1
WASHER M16_DONUT	Washer: DonutLink M16	316SS	1
CON-M16x130	M16x130mm Anchor Rod+Washer+Spring Washer+Nut	316SS	1

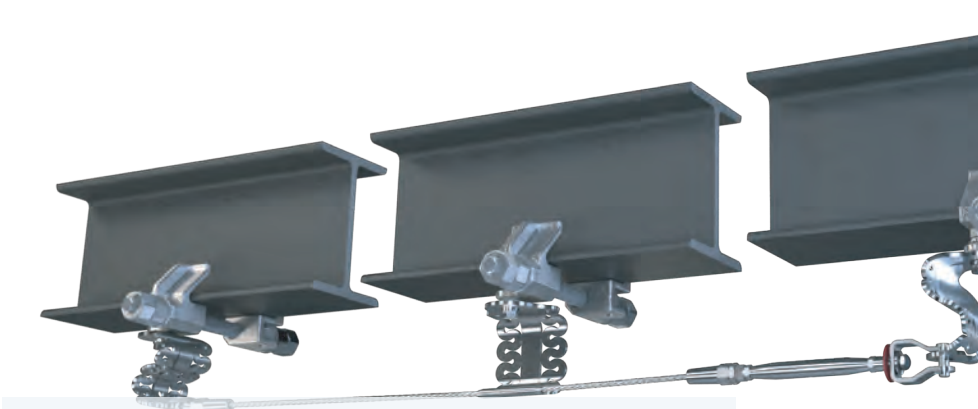
DonutLink Concrete Mounted OVERHEAD INTERNAL CORNER Anchor



INTERNAL Corner anchor is designed to be mounted into a concrete overhead structure. The lifeline cable runs through the corner tube redirecting it by up to 90 degrees.

PRODUCT CODE: STAT.FROGCAR013

Components	Description	Material	Qty
FROGLINE CNR_OH_INT	FrogLine Base Overhead Internal Corner	316SS	1
WASHER M16_DONUT	Washer: DonutLink M16	316SS	1
CON-M16x130	M16x130mm Anchor Rod+Washer+Spring Washer+Nut	316SS	1



OVERHEAD BEAMLINK FROGLINE

- Permanent horizontal height safety lifeline system, designed to be mounted overhead on flanged beams like universal beams and columns and fabricated sections.
- Consult an engineer if there is any doubt a structure can take the required load.
- Equipped with an engineered energy absorbing region to minimise loads on users and structures in the event of a fall.
- Continuous connection with 8mm stainless steel cable, utilising the FrogLine Shuttle System, up to four (4) users per system, two (2) per span.

LIFELINES

The structure must be assessed by an engineer, unless it is clear to a competent person that the structure is adequate.

BeamLink OVERHEAD END Anchor



End anchor is designed to be mounted overhead on flanged beams as part of a overhead horizontal lifeline system.

- End anchor attachment points for the cable to start and terminate at.

PRODUCT CODE: STAT.FROGSTE009+BEAM_FIXINGS

Components	Description	Material	Qty
FROGLINE END_OH	FrogLine Base End Overhead	316SS	1
FROGLINE BUSH M16-M12	FrogLine Bush: M16 to M12	316SS	1
BOLT-M12x45mm	Bolt: M12x45mm	316SS	1
WASHER M12_316	Washer: M12	316SS	1
WASHER M12_Spring_316	Washer: M12 Spring	316SS	1
NUT M12_316	Nut: M12	316SS	1
*** BEAMLINK TO BE ADDED - ADVISE LENGTH REQUIRED (160 / 210 / 285 / 385)			

BeamLink OVERHEAD INTERMEDIATE Anchor



Intermediate anchor is designed to be mounted on flanged beams as part of an overhead horizontal lifeline system.

- Intermediate to limit lifeline span distances.

PRODUCT CODE: STAT.FROGSTE004+BEAM_FIXINGS

Components	Description	Material	Qty
FROGLINE INT_OH	FrogLine Base Intermediate OVERHEAD	316SS	1
FROGLINE BUSH M16-M12	FrogLine Bush: M16 to M12	316SS	1
BOLT-M12x45mm	Bolt: M12x45mm	316SS	1
WASHER M12_316	Washer: M12	316SS	1
WASHER M12_Spring_316	Washer: M12 Spring	316SS	1
NUT M12_316	Nut: M12	316SS	1
*** BEAMLINK TO BE ADDED - ADVISE LENGTH REQUIRED (160 / 210 / 285 / 385)			

BeamLink OVERHEAD EXTERNAL CORNER Anchor



EXTERNAL Corner anchor is designed to be mounted on flanged beams .

- The lifeline cable runs through the corner tube redirecting it by up to 90 degrees

PRODUCT CODE: STAT.FROGSTE012+BEAM_FIXINGS

Components	Description	Material	Qty
FROGLINE CNR_OH_EXT	FrogLine Base Overhead External Corner	316SS	1
FROGLINE BUSH M16-M12	FrogLine Bush: M16 to M12	316SS	1
BOLT-M12x45mm	Bolt: M12x45mm	316SS	1
WASHER M12_316	Washer: M12	316SS	1
WASHER M12_Spring_316	Washer: M12 Spring	316SS	1
NUT M12_316	Nut: M12	316SS	1
*** BEAMLINK TO BE ADDED - ADVISE LENGTH REQUIRED (160 / 210 / 285 / 385)			

BeamLink OVERHEAD INTERNAL CORNER Anchor



INTERNAL Corner anchor is designed to be mounted on flanged beams .

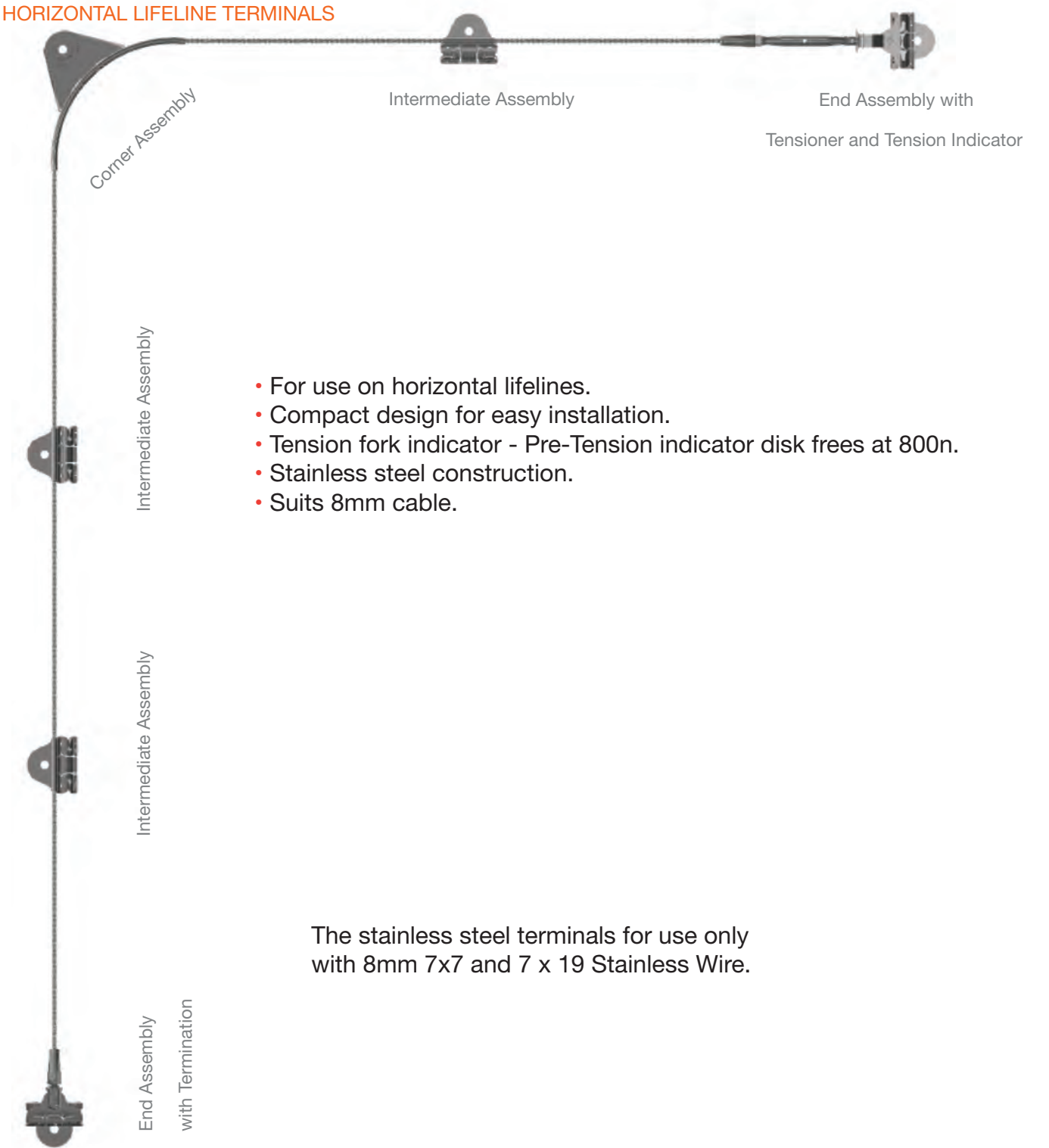
- The lifeline cable runs through the corner tube redirecting it by up to 90 degrees

PRODUCT CODE: STAT.FROGSTE013+BEAM_FIXINGS

Components	Description	Material	Qty
FROGLINE CNR_OH_INT	FrogLine Base Overhead Internal Corner	316SS	1
FROGLINE BUSH M16-M12	FrogLine Bush: M16 to M12	316SS	1
BOLT-M12x45mm	Bolt: M12x45mm	316SS	1
WASHER M12_316	Washer: M12	316SS	1
WASHER M12_Spring_316	Washer: M12 Spring	316SS	1
NUT M12_316	Nut: M12	316SS	1
*** BEAMLINK TO BE ADDED - ADVISE LENGTH REQUIRED (160 / 210 / 285 / 385)			

Horizontal Lifeline

HORIZONTAL LIFELINE TERMINALS



The stainless steel terminals for use only with 8mm 7x7 and 7 x 19 Stainless Wire.

SWAGELESS Terminals



Swageless Terminals.
Simple installation and removal with common hand tools.
Do not reuse jaws or house, contact SafetyLink to replace.
Suits 8mm, 7x7 & 7x19 cable.

Product Code	Description	Material	Qty	Weight (kg)
STAT.TERMN002	Swageless Termination	316SS	1	0.362
STAT.TENSR002	Swageless Tensioner	316SS	1	0.629
STAT.TENSR004	Swageless Tensioner with Tension Indicator	316SS	1	0.815

Cable



- For use on SafetyLink Lifeline Systems.
- 316 Stainless steel cable.
- 8mm diameter.
- 7x7, 7x19 and 1x19 wire rope.

Product Code	Description	Material	Qty	Weight (kg)
STAT.CABLE001	Cable: 8mm 7x7, per metre	316SS	1	0.260
STAT.CABLE001.01	Roll Cable: 8mm 7x7, 305 metres	316SS	1	83
STAT.CABLE001.02	Roll Cable: 8mm 7x7, 500 metres	316SS	1	138
STAT.CABLE_8mm_7x19_SS	Cable: 8mm 7x19, per metre	316SS	1	0.260
STAT.CABLE_8mm_1x19_SS	Cable: 8mm 1x19, per metre	316SS	1	0.260



Horizontal Lifeline Shuttle



- For use on SafetyLink HORIZONTAL Lifeline Systems.
- No need to disconnect from Lifeline as it passes easily over Intermediate anchor points.
 - Must be used with included SafetyLink Karabiner.
 - Suits 8mm Cable.

PRODUCT CODE: STAT.SHUTL003

Components	Description	Material	Qty	Weight (kg)
STAT.SHUTL003.01	FrogLine Shuttle	316SS	1	0.401
KARBNR034	SafetyLink Karabiner	Stainless Steel	1	0.212

Horizontal Overhead Lifeline Shuttle



- For use on SafetyLink horizontal OVERHEAD Lifeline Systems.
- No need to disconnect from Lifeline as it passes easily over Intermediate anchor points.
 - Must be used with included SafetyLink Karabiner.
 - Suits 8mm Cable.

PRODUCT CODE: STAT.SHUTL002

Components	Description	Material	Qty	Weight (kg)
STAT.SHUTL002.01	OVERHEAD Shuttle (Nylon Wheels)	316SS	1	0.628
KARBNR034	SafetyLink Karabiner	Stainless Steel	1	0.212

Horizontal Overhead Lifeline Shuttle



- For use on SafetyLink horizontal OVERHEAD Lifeline Systems.
- No need to disconnect from Lifeline as it passes easily over Intermediate anchor points.
 - Must be used with included SafetyLink Karabiner.
 - Suits 8mm Cable.

PRODUCT CODE: STAT.SHUTL004

Components	Description	Material	Qty	Weight (kg)
STAT.SHUTL004.01	OVERHEAD Shuttle (Stainless Steel Wheels)	316SS	1	0.943
KARBNR034	SafetyLink Karabiner	Stainless Steel	1	0.212

Horizontal Lifeline Shuttle



- For use on SafetyLink horizontal lifeline systems.
- No need to disconnect from lifeline as it passes easily over Intermediate anchor points.
 - Suits 8mm Cable.

PRODUCT CODE: STAT.SHUTL005

Components	Description	Material	Qty	Weight (kg)
STAT.SHUTL005	Horizontal Lifeline Shuttle	Stainless Steel	1	0.695

Horizontal Overhead Lifeline Shuttle



- For use on SafetyLink horizontal lifeline overhead systems.
- No need to disconnect from lifeline as it passes easily over Intermediate anchor points.
 - Suits 8mm Cable.
 - Available with Nylon or Stainless Steel wheels.

Components	Description	Material	Qty	Weight (kg)
STAT.SHUTL006	Horizontal Lifeline Shuttle with Nylon Wheels	SS/Nylon	1	1.040
STAT.SHUTL006_SS	Horizontal Lifeline Shuttle with Stainless Steel Wheels	316SS	1	1.210

- Essential entry point system to any height safety system, quick and easy installation.
- LadderLink stabilises your ladder preventing sideways movement and therefore holding your ladder in place.
- Adjusting the pitch of the LadderLink is to be done by a sheet metal fabricator's bending machine.
- Protects gutters and barge capping.



LADDER ACCESS BRACKETS

LadderLink (Standard)



- Quick and easy installation, protects gutters.
- Essential entry point system to stabilise your ladder.
- In addition, the LadderLink bracket has two tie off points to aid in securing the ladder in position.
- Can be installed under or over roof sheets.

Product Code	Description	Material	Qty	Weight (kg)
LADFX001	Fixed LadderLink	*MGA	1	2.290

LadderLink (Extended)



- To extend beyond box gutters and larger areas.
- 980mm gutter to end, overall length 1115mm.
- In addition, the LadderLink bracket has two tie off points to aid in securing the ladder in position.
- Can be installed under or over roof sheets.

Product Code	Description	Material	Qty	Weight (kg)
LADFX002	Fixed LadderLink: Extended	*MGA	1	6.600

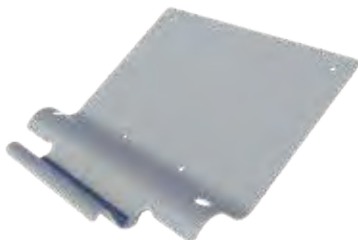
LadderLink (Wall Mounted)



- Wall mounted ladder bracket, fixes directly onto wall.
- In addition, the LadderLink bracket has two tie off points to aid in securing the ladder in position.
- Secure with a minimum of four appropriate fixings, see manual.

Product Code	Description	Material	Qty	Weight (kg)
LADFX003	Fixed LadderLink: Wall Mounted	*MGA	1	2.290

LadderLink (20 - 30 Degrees Pitch)



- Quick and easy installation on pitches 20-30 degrees.
- Essential entry point system to stabilise your ladder.
- In addition, the LadderLink bracket has two tie off points to aid in securing the ladder in position.
- Can be installed under or over roof sheets.

Product Code	Description	Material	Qty	Weight (kg)
LADFX001-30	Fixed LadderLink: Bent 20-30 degrees	*MGA	1	2.290

ENTRY ACCESS

First Man Up Strop



- Used as first man up system; reduces the amount of entry access anchors required. Supplied QuickLink to be attached to a load rated anchor.
- Attachment end should be secured with a strop hook when not in use to ensure it can be accessed from a safe area for next use, strop hook (below) sold separately.
- UV plastic coated to prevent wear on roof sheeting. 15kN Rated.

Product Code	Description	Material	Qty	Weight (kg)
STROP001.5	1.5m First man up Strop	316SS/PVC	1	0.440
STROP002	2m First man up Strop	316SS/PVC	1	0.531
STROP002.5	2.5m First man up Strop	316SS/PVC	1	0.619
STROP003	3m First man up Strop	316SS/PVC	1	0.669
STROP003.5	3.5m First man up Strop	316SS/PVC	1	0.814
STROP004	4m First man up Strop	316SS/PVC	1	0.886
STROP004.5	4.5m First man up Strop	316SS/PVC	1	0.977
STROP005	5m First man up Strop	316SS/PVC	1	1.069
Contact SafetyLink for site specific required lengths				

Strop Hook with Sign



- NOT INCLUDED with strops, order separately.
- Note, this is not a load rated anchor, to be used to secure the strop when not in use, ensuring wind cannot blow the strop away from the access point.
- Hook can be secured with 2 screws or 2 rivets.

Product Code	Description	Material	Qty	Weight (kg)
Strophook+Sign	Strop Hook with Warning Sign	316SS	1	0.048

Certification Labels



- Certification Labels supplied in packet of 100.
- Labels contain serial numbers for use in computer tracking systems.
- To be used for marking each individual anchor point for certification purposes.
- Protective clear cover to prevent removal of text from weather or tampering.

Product Code	Description	Material	Qty	Weight (kg)
LABEL001	Certification Labels	Polyethylene	1	0.157

Inspection Tag



- SafetyLink Tag to be used for marking each individual anchor point for inspection month and year.
- Inspection Tag contains serial numbers for use in tracking systems.
- Hole puncher is required to place hole on required month.

Product Code	Description	Material	Qty	Weight (kg)
CERT-TAG_Y_30.100	Next Inspection Due Yellow Tag (300mm x 120mm)	Plastic	1	0.100

Warning Entry Compliance Sign

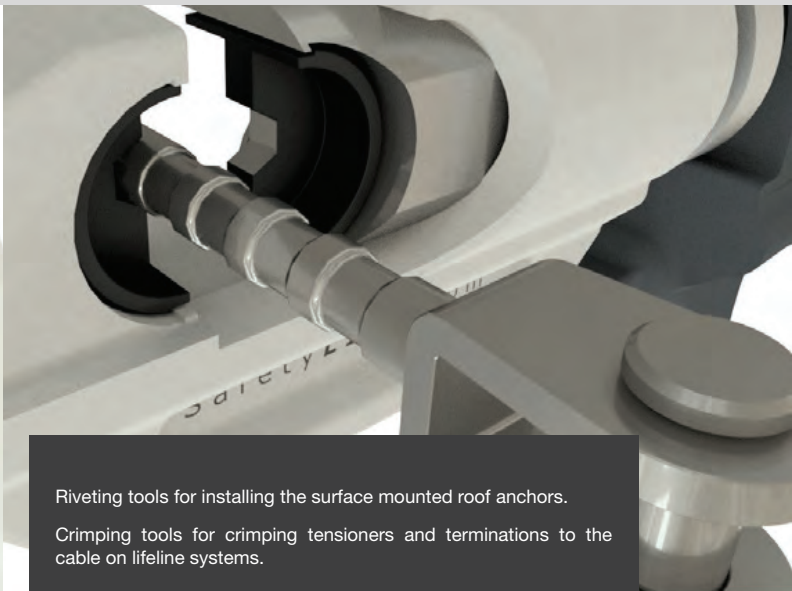


- Essential entry point information for safety system.
- Notes installer information, safe use and inspection details.
- Size 300mm x 120mm x 1mm.

Product Code	Description	Material	Qty	Weight (kg)
WARNG001	Warning Compliance Entry Sign	Aluminium	1	0.080



TOOLS



Riveting tools for installing the surface mounted roof anchors.
Crimping tools for crimping tensioners and terminations to the cable on lifeline systems.

RIVET TOOLS



Gesipa Accubird Pro Kit
Product Code: GESIPA.ACCU.PRO
Setting force: 13,000 N. Weight: 2.1 kg with battery (2.0 Ah)
• Drive: brushless motor (BLDC). Stroke: 25 mm
• Nosepieces: 17/20, 17/24, 17/27, 17/29, 17/32, 17/36, 17/40 and 17/48, Additional jaw pusher for bigger blind-rivet dimensions
• Blind rivets from O 2.4 mm up to O 6 mm all materials (max. mandrel O 3.7 mm).



Gesipa Powerbird Pro (Gold) Kit
Product Code: GESIPA.PB.PRO.GOLD
• Setting force: 20,000 N. Weight: 2.1 kg with battery (2.0 Ah)
• Drive: 18 V brushless DC motor (BLDC). Stroke: 25 mm
• Nosepieces: 17/32, 17/36, 17/40, 17/45 and 17/48.
• Blind rivets up to Ø 6.4 mm all materials and BULB-TITE®-blind rivets up to Ø 7.7 mm all materials (max. mandrel Ø 4.3 mm).



COMPACT HAND RIVET TOOL
Product Code: HANDTOOL001
Designed for installing height safety surface mounted anchor points.
• Lightweight and simple operation.
• Three piece jaws made of CR Mo steel provides long lasting tool life.
• Designed for use with 8mm Tri-fold rivets.
• Waste container for tidy collection of mandrels.
• Supplied with handy hex tool for removing and maintaining nose piece and jaws.
• Maximum Rivet Size: 8mm.
• Length 320mm.

GESIPA TOOL HN 2-BT

Product Code: GESIPA001.02
• Used in conjunction with 8mm Tri-fold rivets.
• Drill size 7.8-8.2mm. Length 27.7mm. Grip Range 1.0-9.5mm.
• Technical Data: Stroke: 10mm. Length: 577mm.



RIVET - 8mm

• Aluminium Bulbtite Rivets.
• Diametre 7.7.
• Hole 7.8-8.2 mm



Product Code	Description	Seal	Grip mm
RIVET_8mm(27.7)	8mm Bulbtite Rivet	Green	1.1-9.5
RIVET_8mm(34)	8mm Bulbtite Rivet	Yellow	6.4-15.9
RIVET_8mm(39)	8mm Bulbtite Rivet	Black	9.5-19.1

RIVET TOOL SIDE EJECTOR NOSE PIECE

Product Code: GESIPA001.10
• Nose Piece: 9/32BT Side eject nose assembly and adaptor.
• Eliminate swarf contamination within the tool.
• Prevents possible damage to the nose/jaw assembly and saves time in cleaning.
• Saves battery power with larger stroke.



CRIMPING TOOL



Product Code: STAT.CRIMP009
Battery powered Crimping Tool.
• Able to rotate for different working positions.
• Features: 42mm C-Jaw Opening.
• With 360 degrees swivel head.
• For connector, cable lug hexagon crimping.
• Standard die set (total 10pcs): 35/50/70/95/120/150/185/240/300/400mm² (i.e. B3035-B30400) (R30 Type).
• Battery & Charger Set Model No: B-04 (18V DC Li-Ion Battery/ 4Ah).
• Tool Dimension (reference only): 440(L)*290(W)*78(H)mm.
• Crimping range: 6-400mm (AWG10-750MCM).
• Complete unit with extra Die to crimp 8mm cable (use with STAT.TENSR003, STAT.TENSR005 & STAT.TERMN003).

CRIMPING TOOL ACCESSORIES

Die for battery powered crimping tool.
• Required for 8mm Cable, for use with STAT.TENSR003, STAT.TENSR005 and STAT.TERMN003.
• Size A/F10.83.





HYDRAJAWS PULL TESTER



- To comply with recognised Industry Standards each concrete anchor must be tested after installation and at every recertification inspection.
- Ensure you wait the recommended curing time as specified by the chemical anchor instructions.
- The pull test can be done using a 16mm threaded eyebolt/Donut-Link Adapter. Test consists of ultimate pull out force proof loading to 50% of design purpose of anchorage.

TESTER KIT

M2000 PRO



The M2000 PRO Kit comprises all the necessary accessories to enable it to cover a pull test on a comprehensive range of fixings up to a maximum tensile load of 25kN.

M2050 PRO



Extending the testing range to cover 0–50kN, the HydraJaws M2050 PRO Tester kit enables engineers to validate the correct installation or establish the safe working loads of a comprehensive range of anchors and fixings in line with BS 8539 up to a maximum tensile load of 50kN.

M2008 Heavy Duty



The HydraJaws M2008 Heavy Duty Tension Tester Kit enables engineers to validate the correct installation or establish the safe working loads of a comprehensive range of anchors and fixings in line with BS 8539 and relevant international standards up to a maximum tensile load of 145kN.

SAFETY LIFELINE Cable Tester



KIT 1

Installation of swaged components on newly installed or existing engineered lifeline systems to ensure compliance with BS 7883 up to a maximum tensile load of 20kN



KIT 2

Installed or existing engineered lifeline systems to ensure compliance with BS 7883 up to a maximum tensile load of 25kN.



KIT 3

Installation of anchors, eyebolts up to a maximum tensile load of 35kN and swaged components on newly installed or existing engineered lifeline systems to ensure compliance with BS 7883, up to a maximum tensile load of 20kN

CLAWLINE

The CLAWLINE system from SKYLOTEC combines the highest level of safety during climbing and maximum flexibility during installation. The system is the state of the art in vertical fall protection and supports the user in safely climbing vertical objects. In addition, with the CLAWLINE, existing systems can be upgraded and retrofitted easily, flexibly and across manufacturers, and with a large number of configuration options, a solution is available for every case.

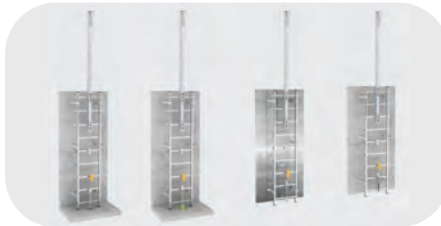


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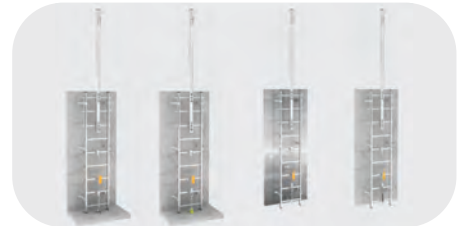
CONFIGURATION 1



CONFIGURATION 2



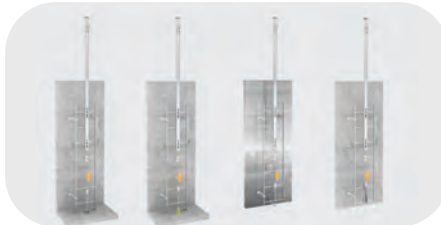
CONFIGURATION 3



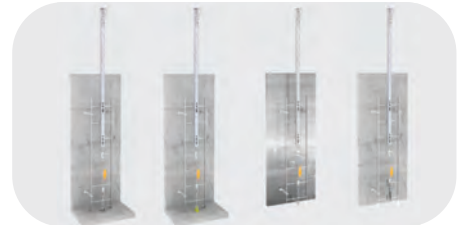
CONFIGURATION 4



CONFIGURATION 5



CONFIGURATION 6



CONFIGURATION 7



CONFIGURATION 8



CONFIGURATION 9



Runners:

CLAW

Made of high-quality stainless steel, the CLAW steel rope runner is suitable for vertical access to higher or lower workplaces on arrester systems with 8-10 mm or 5/16 to 3/8 inch stainless steel ropes. It is particularly characterised by its excellent running properties, which allow fatigue-free ascent and descent. The fall arrester that runs along has a well thought-out 3-fold safety device: the internal mechanical lock prevents it from being put on incorrectly, the external mechanical lock only allows it to be opened with both hands. In addition, a skull and crossbones symbol warns the user if the rope is put on incorrectly.

Features:

- High-quality steel rope runner made of stainless steel.
- Fatigue-free ascent and descent
- Sophisticated 3-fold safety device



CLAW SKC EVO+

Removable fall arrest device for "CLAW LINE" lifelines made of stainless steel and galvanized steel. Equipped with double action opening system and patented anti-overturning function.

Features:

- Equipped with lanyard with integrated energy absorber;
- small size and weight;
- Designed to easily pass intermediate supports without manual intervention;
- Quick and easy to attach and release from the lanyard; patented anti-overturning function;
- Innovative double action opening system: the device opens only if the action is performed sequentially, reducing the danger of accidental opening;
- Certified according to EN 353-1:2014+A1:2017;
- Usable by operators weighing between 50 and 140 kg.



SKYTAC

The SKYTAC system provides uninterrupted safety when climbing ladders - without the hassle of re-hooking anchors. The ladder and climbing protection system, with its revolutionary SPEED and SPEED ATTACH fall arresters, secures the user at any height and can be used both indoors, such as in high-bay warehouses, and outdoors, such as on church towers. In addition, the arrester system can also be used to upgrade existing ladders and make them safer for users.



SKYTAC ladder on a mobile phone mast.



SKYTAC rails on an aluminium ladder in a wind energy plant.



Durable, non-slip. slip-resistant.

The SKYTAC climbing protection rail with C-profile is made of robust 3 mm steel and is coated with a hot-dip GALVANIZED layer, which provides unbeatable anti corrosion Coating. The upward perforated rungs, make SKYTAC the ultimate choice for slip resistance and Slip resistance and slip resistance. The narrow spacing of the the arrester rail significantly shortens arrest distances and raises safety to a new significantly and raise safety to a new level.

Superiority in every ascent

Whether towers, chimneys, elevated tanks or bridge piers, our solutions adapt flexibly to your needs. The list of possible applications is endless: from antenna supports and machinery to industrial plants and building facades. Even in manholes, pits and on water and wastewater basins, SKYTAC is the choice for outstanding vertical safety.



Unsurpassed safety: The world's only runner with two redundant fall arrest systems and a speed-dependent fall arrest function

Effortless mounting and dismantling: Enjoy unparalleled comfort and fatigue-free climbing thanks to dual guide rollers.

Reduction of misuse: The ability to use the arrester and sternal attachment point, complemented by locking security, self-locking Trilock karabiner and clearly marked running direction, minimizes misuse.

Versatile and adaptable: Compatible with SKYTAC and SÖLL GlideLoc C profiles for a wide area of application.

Quick inspection: Two fall indicators for immediate visual inspection.

Durability: Low wear for a long service life.

Integrated safety: Shock absorber for maximum safety.

Compatibility with two different runners

SPEED



Can only be placed and removed at the designated removal points. Specially developed for systems with vertical C-rail certified according to EN 353-1:2014+A1:2017. Tested and certified on SÖLL GlideLoc rails and compatible with around 80 percent of rail systems on the market.

SPEED ATTACH



Can be attached and removed at any point on a C-section. Climbing protection runner can also be removed if, for example, work has to be performed on intermediate levels. Specially developed for systems with vertical C-rail certified according to EN 353-1:2014+A1:2017. Tested and certified on SÖLL GlideLoc rails and compatible with around 80 percent of rail systems on the market.



Self-retracting lanyard anchor kit, designed to be installed on the rungs of a ladder.

Systems shall be designed to limit free fall, swing fall and maximise fall clearance.

Where possible, systems should be installed as close to the centre of the ladder or climbing zone as possible.

Use in conjunction with SafetyLink’s Tuff-Bloc’s (shown in picture above, purchased separately).

 All load cases shall be considered by a trained engineer.

STANDARD

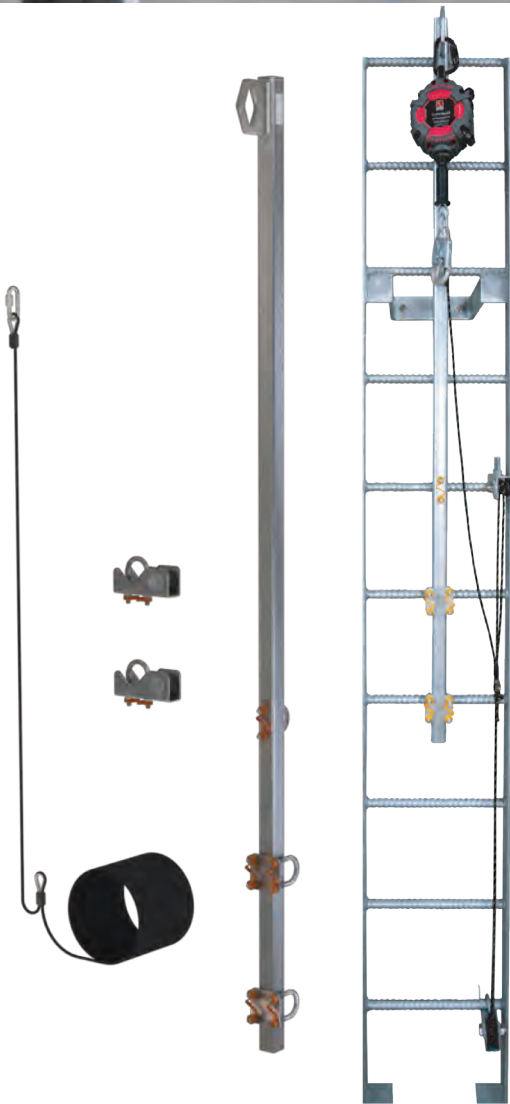
The Ladder SRL Anchor System is compliant with AS/NZS 5532, EN795 TYPE A and OSHA 1926.502 and 1910.140.

USER RATING

The Ladder SRL Anchor is rated for 1 user per system.

PRODUCT CODE: VLINE.SRL.KIT

Components	Description	Material	Qty
VLINE.SRL.ANCHOR	Self Retracting Anchor Kit	Galvanized	1
VLINE.SRL.ROPE	SRL Rope (for use at Maximum Height 15m)	Polyester	1
VLINE.SRL.PULLEY	Self Retracting Anchor Pulley Kit	Galvanized	2





V-LINE KIT: TOP AND BOTTOM BRACKETS



PRODUCT CODE: VLINE002

Components	Description	Material	Qty
VLINE.BTM.PM	V-LINE Bottom Bracket Kit	316SS	1
VLINE.TOP.PM	V-LINE Top Bracket Kit	316SS	1

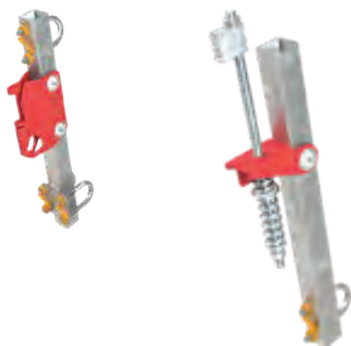
V-LINE KIT: TOP AND BOTTOM BRACKETS WITH MOUNTING PLATES



PRODUCT CODE: VLINE003

Components	Description	Material	Qty
VLINE.BTM.PM	V-LINE Bottom Bracket Kit	316SS	1
VLINE.TOP.PM	V-LINE Top Bracket Kit	316SS	1
VLINE.PLT.BTM	V-LINE Bottom Plate	316SS	1
VLINE.PLT.TOP	V-LINE Top Plate	316SS	1

V-LINE KIT: LADDER RUNG TOP AND BOTTOM BRACKETS - BOLT ON 485MM



GALVANIZED V-LINE - PRODUCT CODE: VLINE004

Components	Description	Material	Qty
VLINE.BTM.PM	V-LINE Bottom Bracket Kit	316SS	1
VLINE.TOP.PM	V-LINE Top Bracket Kit	316SS	1
VLINE.UBS.K	V-LINE Single U Bolt Kit	Galvanized	2
VLINE.UBT.K	V-LINE Twin U Bolt Kit	Galvanized	1
VLINE.POST.480	V-LINE Post 480mm (Top)	Galvanized	1
VLINE.POST.480B	V-LINE Post 480mm (Bottom)	Galvanized	1

STAINLESS STEEL V-LINE - PRODUCT CODE: VLINE004-SS

Components	Description	Material	Qty
VLINE.BTM.PM	V-LINE Bottom Bracket Kit	316SS	1
VLINE.TOP.PM	V-LINE Top Bracket Kit	316SS	1
VLINE.UBS.K-SS	V-LINE Single U Bolt Kit	316SS	2
VLINE.UBT.K-SS	V-LINE Twin U Bolt Kit	316SS	1
VLINE.POST.480-SS	V-LINE Post 480mm (Top)	316SS	1
VLINE.POST.480B-SS	V-LINE Post 480mm (Bottom)	316SS	1

V-LINE KIT: LADDER RUNG TOP AND BOTTOM BRACKETS - BOLT ON 1575MM



GALVANIZED V-LINE - PRODUCT CODE: VLINE005

Components	Description	Material	Qty
VLINE.BTM.PM	V-LINE Bottom Bracket Kit	316SS	1
VLINE.TOP.PM	V-LINE Top Bracket Kit	316SS	1
VLINE.UBS.K	V-LINE Single U Bolt Kit	Galvanized	2
VLINE.UBT.K	V-LINE Twin U Bolt Kit	Galvanized	2
VLINE.POST.1575	V-LINE Post 1575mm (Top)	Galvanized	1
VLINE.POST.480B	V-LINE Post 480mm (Bottom)	Galvanized	1

STAINLESS STEEL V-LINE - PRODUCT CODE: VLINE005-SS

Components	Description	Material	Qty
VLINE.BTM.PM	V-LINE Bottom Bracket Kit	316SS	1
VLINE.TOP.PM	V-LINE Top Bracket Kit	316SS	1
VLINE.UBS.K-SS	V-LINE Single U Bolt Kit	316SS	2
VLINE.UBT.K-SS	V-LINE Twin U Bolt Kit	316SS	2
VLINE.POST.1575-SS	V-LINE Post 1575mm (Top)	316SS	1
VLINE.POST.480B-SS	V-LINE Post 480mm (Bottom)	316SS	1

PORTABLE GAS DETECTOR SINGLE GAS DETECTORS



T40 II Rattler™

- Robust, compact, and light
- Fast sensor response
- Multiple sensor range options with high accuracy
- Replaceable battery with two-year runtime



GasBadge® Pro

- Interchangeable “smart” sensors monitor oxygen or any one of many toxic gases
- One-year data logging capacity (minimum)
- Standard STEL and TWA
- iNet® ready and DSX™ Docking Station compatible

The T40 II single gas monitor is primarily used to protect personnel lives by detecting the presence of hydrogen sulfide or carbon monoxide.

The T40 II instrument is robust and light, with an IP68 level of ingress protection, and is suitable for working in changing, hazardous environment. The industry leading ultra-fast T90 response time can detect gas hazards on the job in real time to ensure worker safety, saving valuable time. To meet the needs of long term operation, the high-performance lithium battery can operate under extreme weather conditions continuously for two years.

There are two visual red alarm LEDs, in addition to both an audible and vibration alarm when the gas concentrations exceed the high, low, TWA, or STEL alarm preset values

Display: Segment LCD

Keypad: Two buttons

Case Materials: Polycarbonate with a protective rubber over-mold

Alarms: Visual (two red LEDs); Audible (95db); Vibration, TWA, STEL

Dimensions: 82 x 60 x 27 mm

Weight: 85g

Ingress Protection: IP 66/68

Temperature Range: -40 °C to 50 °C (-40 °F to 122 °F)

Humidity Range: 5% to 95% Non-condensing

Battery: 3.6 V Primary Lithium-thionyl chloride (Li-SOCl₂), 1.5AH, 2/3AA , replaceable

Run Time: Up to two years of runtime, depending on operating conditions, the amount of time the unit is in alarm, and the use of the unit's confidence indicator.

Measuring Ranges:

CO: 0-1000 ppm 1 ppm T90≤10s
CO: 0-2000 ppm 1 ppm T90≤10s
H₂S: 0-100 ppm 0.1 ppm T90≤10s
H₂S: 0-200 ppm 0.1 ppm T90≤10s
H₂S: 0-500 ppm 0.1 ppm T90≤10s
O₂: 0-30%vol 0.1%vol T90≤10s

Built to Industrial Scientific's highest quality and reliability standards, GasBadge Pro provides a lifetime of gas hazard protection. A wide range of sensor types makes it easy to monitor unsafe levels of gases specific to your site.

Case: Rugged, water-resistant polycarbonate shell with protective concussion-proof overmold. RFI resistant.

Dimensions: 9.4 x 5.08 x 2.79 mm

Weight: 85 g

Display: Custom LCD with graphical icons for easy use; Segmented display for direct gas readings; Backlight for low light conditions; “Go/No Go” display mode; Peak reading indication

Alarms: User selectable low and high alarms. Ultra-bright LEDs, loud audible alarm (95 dB) and vibrating alarm

Battery run time: User replaceable 3V, CR2 Lithium battery, 2,600 hour run time, typical

Data Logging: 1 year continuous storage of data

Temperature range: -40 °C to 60 °C (-40 °F to 140 °F), typical

Humidity range: 0% to 99% RH (non-condensing), typical

IP rating: Third-party certified IP64

Measuring Ranges:

CO: 0-1,500 ppm in 1 ppm increments
CO/H₂ low: 0-1,500 ppm in 1 ppm increments
H₂S: 0-500 ppm in 0.1 ppm increments
O₂: 0-30% by vol in 0.1% increments
NO₂: 0-150 ppm in 0.1 ppm increments
SO₂: 0-150 ppm in 0.1 ppm increments
NH₃: 0-500 ppm in 1 ppm increments
Cl₂: 0-100 ppm in 0.1 ppm increments
ClO₂: 0-1 ppm in 0.01 ppm increments
PH₃: 0-10 ppm in 0.01 ppm increments
HCN: 0-30 ppm in 0.1 ppm increments
H₂: 0-2,000 ppm in 1 ppm increments

Certifications:

International: IECEx: Ex ia IIC T4 Ga; Ex ia I Ma

North America: UL: Class I, Division 1, Groups A, B, C, D T4
Class I, Zone 0, AEx ia IIC T4 Ga
CSA: Ex ia IIC T4

Europe: Class I, Division 1, Groups A, B, C, D T4
TEX: Ex ia IIC T4 Ga; Ex ia I Ma
CE: Directive 2014/30/EU, EN50270

China: Directive 2011/65/EU and 2015/863/EU
China Ex: Ex ia IIC T4 Ga
China MA: Ex ia I Ma
China CPA

Certifications:

ANZEx: Ex ia I/IIC T4

ATEX: Ex ia I/Ex ia IIC T4; Equipment Group/Category I M1/II 1G

China Ex: Ex ia I/IIC T4

CMA: Ex ia I

CSA: Cl I, Gr A-D, T4; Ex ia IIC T4

KC: Ex ia I/IIC T4

IECEx: Ex ia I/IIC T4

INMETRO: Ex ia IIC T4

UL: Cl I, Div 1, Gr A-D, T4; Cl II, Gr E-G



PORTABLE GAS DETECTOR MULTI GAS DETECTORS

Ventis® MX4

Configured for your safety, the highly configurable and iNet-compatible Ventis™ MX4 takes your gas detection program to the next level.

- Configure for diffusion applications or with an integral sampling pump for sample draw applications.
- Detect from one to four gases with a wide range of sensor options.
- Gain visibility of the instrument in darker environments with a tough, "Safety Orange" overmold.
- Realize true portability with multi-gas protection in single gas size.
- Utilize the diffusion monitor for 20 hours with a rechargeable lithium-ion extended range battery pack.
- iNet® ready and DSX™ Docking Station compatible.



Instrument Warranty:

One-year warranty, including sensors and battery.

Display/Readout:

Backlit Liquid Crystal Display (LCD).

Case Materials:

Polycarbonate w/ protective rubber overmold.

Alarms:

Ultra-bright LEDs, loud audible alarm (95 dB at 30 cm), and vibrating alarm.

Dimensions:

103 mm x 58 mm x 30 mm - Without pump, lithium-ion battery.

172 mm x 67 mm x 66 mm - With pump, lithium-ion battery.

Weight:

182 g - Without pump, lithium-ion battery.

380 g - With pump, lithium-ion battery.

Temperature Range:

- 20°C to + 50°C.

Humidity Range:

-15%-95% non-condensing (continuous).

Sensors:

Combustible gases/methane – Catalytic Bead.

O₂, CO/H₂ low, CO, H₂S, NO₂, SO₂ – Electrochemical.

Power Source/Run Time:

Rechargeable Slim Extended Lithium-ion battery

(18 hours typical @ 20°C) without Pump

Rechargeable Lithium-ion battery

(12 hours typical @ 20°C) without Pump

Rechargeable Extended-Range Lithium-ion battery (20 hours typical @ 20°C)

without Pump; (12 hours typical @ 20°C) with Pump

Replaceable AAA Alkaline battery (8 hours typical @ 20°C) without Pump;

(4 hours typical @ 20°C) with Pump

Accessories



Single-Unit Charger/Datalink

Soft Carrying Case

Ventis MX4 without Pump Calibration

Ventis MX4 with DSX

Ventis MX4 with Pump Calibration

Ventis® Slide-on Pump

Application



Measuring Ranges:

Combustible Gases:	0-100% LEL in 1% increments
Methane (CH ₄):	0-5% of vol in 0.01% increments
Oxygen (O ₂):	0-30% of vol in 0.1% increments
Carbon Monoxide (CO/H ₂ low):	0-1,000 ppm in 1 ppm increments
Carbon Monoxide (CO):	0-1,000 ppm in 1 ppm increments
Hydrogen Sulde (H ₂ S):	0-500 ppm in 0.1 ppm increments
Nitrogen Dioxide (NO ₂):	0-150 ppm in 0.1 ppm increments
Sulfur Dioxide (SO ₂):	0-150 ppm in 0.1 ppm increments

Ventis MX4 Kit

Ventis MX4 Confined Space Kits with Slide-on Pump Include:
Ventis MX4 Confined Space Kits with Slide-on Pump Include:
Ventis with LEL, CO, H₂S, and O₂ sensors, Ventis Slide-on Pump, 110 VAC desktop charger for each rechargeable instrument ordered (max of 2), calibration cup and tubing with T-fitting, dust filter/water stop, 10 feet of sample tubing, 34 liter cylinder of calibration gas, manual regulator, rugged hard plastic carrying case

Ventis MX4 Confined Space Kits with Integral Pump Include:
Ventis with integral pump, universal charger, soft carrying case, reference guide, calibration tubing, dust filter/water stop, calibration fitting, sample tubing, calibration gas (appropriate mix) with regulator, rugged hard plastic case



Certifications:

ANZEx:	Ex ia s Zone 0 I/IIC T4	IECEX:	Ex ia IIC T4 Ga
ATEX:	Ex ia IIC T4 Ga and Ex ia I Ma; Equipment Group and Category II 1G/I M	INMETRO:	Ex ia IIC T4 Ga
China CMC	Metrology approval	KC:	Ex d ia IIC T4
China CPC	CPA 2017-C103	KIMM:	Ex d ia IIC T4
China Ex:	Ex ia IIC T4 Ga; Ex ia d I Mb	MSHA:	30 CFR Part 22; Permissible for underground mines; Li-ion
China KA:	Approved for Underground Mines with CO, H ₂ S, O ₂ and CH ₄	PA-DEP	BFE 46-12 Permissible for PA Bituminous Underground Mines;
China MA:	Approved for Underground Mines with CO, H ₂ S, O ₂ and CH ₄	SANS	Charger/docking station accessories; Category 1
CSA:	CI I, Div 1, G A-D, T4; Ex d ia IIC T4	TIIS:	SANS 1515-1; Type A; Ex ia I/IIC T4; Li-ion
EAC:	CI IPB Ex d ia I X/IE d ia IIC T4 X, Div 1, Gr A-D, T4; CI II, Gr E-G	UL:	Ex ia IIC T4 X
			CI I, Div 1, Groups A-D, T4; Zone 0, AEx ia IIC T4;
			CI II, Gr F-G (Carbonaceous and Grain dust)

PORTABLE GAS DETECTOR
MULTI GAS DETECTORS



Ventis® Pro5

Detect up to five gases simultaneously with the rugged, wireless, Ventis® Pro5 Multi-Gas Monitor. With Ventis Pro5, safety goes beyond the gas detector whether you need team-based alarm sharing, remote monitoring with location details, or both. The monitor is also backed by a Guaranteed for Life™ warranty.

- Eliminate the need for two pieces of equipment by using Ventis Pro5 for personal monitoring and confined space entry.
- Train workers on one, multi-purpose gas monitor and reduce the risk and investment of having different devices in the field.
- Improve team and site safety by locally sharing alarms and gas readings between wirelessly connected Ventis Pro5 monitors.
- Get real-time location and alarm data directly from Ventis Pro5 gas monitors to a designated safety contact with the optional cellular or wi-fi battery pack.
- Reinforce safe behavior with programmable alarm action messages like "EVACUATE" or "VENTILATE" based on alarm level.
- Simplify the user experience with the ability to hide unnecessary screens based on user needs, role, industry, or site.

Warranty: All other sensors warranted for one year. Pumps and batteries are warranted for one year.
Display/Readout: Backlit liquid crystal display (LCD).
Keypad: Two buttons for operation. Dedicated panic button
Case Materials: Polycarbonate with protective rubber overmold.
Alarms: Four visual alarm LEDs (two red, two blue); 95 decibel (dB) audible alarm at a distance of 10 cm. Vibration alarm.
Dimensions: 104 x 58 x 36 mm without Pump, 172 x 67 x 65 mm with Pump, 104 x 58 x 61 mm with Wi-fi or Cellular Battery
Weight: 200 g (7.05 oz) typical, without Pump, 390 g (13.76 oz) typical, with Pump, 243 g (8.5 oz) typical, with Wi-fi Battery, 244 g (8.6 oz) typical, with Cellular Battery
Temperature Range: -40°C to 50°C.
Humidity Range: 15%-95% non-condensing (continuous).
Data Log: At least 3 months at 10-second intervals.
Event Logging: 60 alarm events.
Ingress Protection: IP68 (submersion at 1.5 meters for 1 hour)
Supplied With Monitor: Calibration Cup (without Pump), Sample Tubing (with Pump), Reference Guide
Reference Guide Language: English, French, Spanish, German, Italian, Dutch, Portuguese, Polish
Sensor: Combustible Gases/Methane – Catalytic Bead, O2, CO, CO/H2 low, H2S, HCN, NH3, NO2, PH3, SO2, Cl2 – Electrochemical, CO2, CH4, CO2/LEL, CO2/CH4, HC – Infrared

Measuring Ranges

Catalytic Bead	
Combustible Gases	0-100% LEL in 1% increments
Methane	0-5% of vol in 0.01% increments
Electrochemical	
Ammonia	0-500 ppm in 1 ppm increments
Carbon Monoxide	0-2,000 ppm in 1 ppm increments
Carbon Monoxide High	0-9,999ppm in 1 ppm increments
Carbon Monoxide/Hydrogen low	0-1,000 ppm in 1 ppm increments
Carbon Monoxide/Hydrogen Sulfide	CO: 0-1,500 ppm in 1 ppm increments
	H2S: 0-500 ppm in 0.1 ppm increments
Chlorine	0-50 ppm in 0.1 ppm increments
Hydrogen	0-2,000 ppm
Hydrogen Sulfide	0-500 ppm in 0.1 ppm increments
Hydrogen Cyanide	0-30 ppm in 0.1 ppm increments
Nitrogen Dioxide	0-150 ppm in 0.1 ppm increments
Oxygen (Standard/Long-Life):	0-30% of vol in 0.1% increments
Phosphine	0-10 ppm in 0.01 ppm increments
Sulfur Dioxide	0-150 ppm in 0.1 ppm increments
Infrared	
Carbon Dioxide	0-5% vol in 0.01% increments
Methane	0-5% vol in 0.01% increments
	5-100% vol in 0.1% increments
Carbon Dioxide/Combustible	0-5% vol in 0.01% increments
	LEL:0-100% LEL in 1% increments
Carbon Dioxide/Methane:	CO2: 0-5% vol in 0.01% increments
Combustible Gases:	CH4:0-5% vol in 0.01% increments
Combustible Gases:	CH4:5-100% vol in 0.1% increments
Hydrocarbons:	0-100% LEL in 1% increments
Hydrocarbon (HC ULP):	0-100% LEL in 1% increments
Methane (CH4 ULP):	0-100% LEL in 0.1% increments
	5.1-100% vol in 0.1% increments
Photoionization	
Volatile Organic Compounds (10.6 eV)	0-2,000 ppm in 0.1 ppm increments

COMMUNICATIONS

Lens™ Wireless Mesh Network	Frequency: ISM license-free band (2.405 - 2.480 GHz)
	Max Peers: 25 devices per network group
	Range: 100 m (300 ft) line of sight, face-to-face
Cellular	Encryption: AES-128
	United States: LTE CAT M1 (AT&T, Verizon)
	Canada: LTE CAT M1 (Bell, Rogers, Telus)
	EMEA: LTE CAT M1 (Tele2)
	UAE: LTE CAT M1 (Etisalat - E&)
	Brazil: LTE CAT M1 (Claro)
Wi-fi	802.11 b/g/n 2.4GHz wi-fi with WPA2 security

Certifications:

INGRESS PROTECTION IP68		IECEX:	CI I, Zone 0, Ex ia IIC, Ga, T4; CI I, Zone 1, Ex d ia IIC, Gb, T4, IR sensor
ANZEx:	Ex ia I Ma/Ex ia IIC T4 Ga, -40°C ≤ Ta ≤ 50°C	INMETRO:	Ex ia IIC T4 Ga, -40°C ≤ Ta ≤ 50°C
	Ex d ia I Mb/Ex d ia IIC T4 Gb IR sensor, -20°C ≤ Ta ≤ 50°C IR sensor		Ex d ia IIC T4 Gb IR sensor, -20°C ≤ Ta ≤ 50°C IR sensor
ATEX:	Equipment Group and Category II 1G, Ex ia IIC, Ga, T4	KC:	Ex d ia IIC T4
	Equipment Group and Category II 2G, Ex d ia IIC, Gb, T4, IR sensor	MSHA:	30 CFR Part 22; Permissible for underground mines
China CPC:	CPA 2017-C103	NCC:	NCC/TSNI/WN/TA/CERT/3139/2019
China Ex:	Ex ia IIC T4 Ga, -40°C ≤ Ta ≤ 50°C; Ex d ia IIC T4 Gb IR sensor, -20°C ≤ Ta ≤ 50°C IR sensor	UL:	CI I, Div 1, Gr A-D, T4; CI II, Div 1, Gr E-G, T4
CSA:	CI I, Div 1, Gr A-D, T4; CI I, Zone 1, Ex d ia IIC, T4 C22.2		CI I, Zone 0, AEx ia IIC, T4; CI I, Zone 1, AEx d ia IIC, T4, IR sensor
	No. 152 for % LEL reading only 70046111	PA-DEP:	BFE 46-12 Permissible for PA Bituminous underground mines

PORTABLE GAS DETECTOR MULTI GAS DETECTORS

MX6 iBrid®

Take your gas detection capabilities to new heights with the MX6 iBrid®. With the ability to monitor up to six gases at once, twenty-four sensor options, and a robust list of configurable settings, the MX6 iBrid easily adapts to your safety needs.

- 24 "Plug-and-Play" field-replaceable sensors including PID and Infrared options
- Up to 6 gases monitored simultaneously
- Simple, user-friendly, customizable, menu-driven navigation
- Five-way navigation button
- Durable, concussion-proof overmold
- Optional integral sampling pump with strong 30.5 meter (100 feet) sample draw
- Full-color graphic LCD is highly visible in a variety of lighting conditions
- Powerful, 95 dB audible alarm

Instrument Warranty:

Warranted for as long as the instrument is supported by Industrial Scientific Corporation.

Case Materials:

Lexan/ABS/Stainless Steel with protective rubber overmold.

Dimensions:

135 mm x 77 mm x 43 mm – without pump.

167 mm x 77 mm x 56 mm – with pump.

Weight:

409 g typical – without pump.

511 g typical – with pump.

Display/Readout:

Color Graphic Liquid Crystal Display.

Power Source/Run Time:

Rechargeable, Extended-Range Lithium-ion Battery (36 hours) without Pump

Rechargeable, Extended-Range Lithium-ion Battery (20 hours) with Pump

Replaceable AA Alkaline Battery Pack (10.5 hours) - without pump.

Temperature Range:

-20°C to 55°C.

Humidity Range:

15% to 95% non-condensing (continuous).

Measuring Ranges

Catalytic Bead

Combustible Gases:

Methane (CH₄):

0-100% LEL in 1% increments

0-5% of vol in 0.01% increments

Electrochemical

Ammonia (NH₃):

0-500 ppm in 1 ppm increments

Carbon Monoxide (CO):

0-1,500 ppm in 1 ppm increments

Carbon Monoxide (High Range):

0-9,999 ppm in 1 ppm increments

Carbon Monoxide/Hydrogen low:

0-1,000 ppm in 1 ppm increments

Chlorine

0-50 ppm in 0.1 ppm increments

Chlorine Dioxide

0-1 ppm in 0.01 ppm increments

Carbon Monoxide/

CO: 0-1,500 ppm in 0.1 ppm increments

Hydrogen Sulfide (COSH)

H₂S: 0-500 ppm in 0.1 ppm increments

Hydrogen

0-2,000 ppm in 0.1 ppm increments

Hydrogen Chloride

0-30 ppm in 0.1 ppm increments

Hydrogen Cyanide

0-30 ppm in 0.1 ppm increments

Hydrogen Sulfide

0-500 ppm in 0.1% increments

Nitric Oxide

0-1,000 ppm in 1 ppm increments

Nitrogen Dioxide

0-150 ppm in 0.1 ppm increments

Oxygen

0-30% vol in 0.1% increments

Phosphine

0-5 ppm in 0.01 ppm increments

Phosphine (High Range)

0-1,000 ppm in 1 ppm increments

Sulfur Dioxide

0-150 ppm in 0.1 ppm increments

Infrared

Hydrocarbons

0-100% LEL in 1% increments

Methane (% vol)

0-100% vol in 1% vol increments

Methane (% LEL)

0-100% LEL in 1% increments

Carbon Dioxide

0-5% vol in 1% increments

Photoionization

Volatile Organic Compounds (10.6 eV) 0-2,000 ppm in 0.1 ppm increments

Accessories



MX6 Confined Space Kit



Easy Sensor Replacement



MX6 Chargers

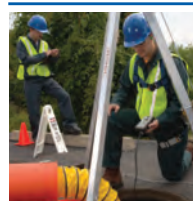


SP6 Motorized Sampling Pump



MX6 with DSX

Application



Certifications:

INGRESS PROTECTION IP64

ANZEx: Ex ia s Zone 0 I; Ex ia s Zone 0 IIC T4

ATEX: Ex ia IIC T4 Ga; II 1G (or Ex d ia IIC T4 Gb IR sensor);

Ex ia I; Equipment Group and Category: I M1/II 1G

China CPC: Metrology Approval

China Ex: Ex ia d I/IIC T4

CMA: Approval for Mining Products; CH₄, O₂, CO, CO

CSA: CI I, Gr A-D T4; Ex d ia IIC T4

EAC: PBExia d I X; 1Exia d IIC T4 X

UL: CI I, Div 1, Gr A-D, T4; CI II, Groups F G;

CI I, Zone LEL 0, AEx ia d IIC T4 (or AEx ia d IIC T4 IR sensor)

IECEX: Ex ia I (Ex ia d I IR sensor); Ex ia IIC T4 Ga; Ex d ia IIC T4 Gb

INMETRO: Ex ia IIC T4 Ga

KC: Ex d ia IIC T4

KIMM: Ex d ia IIC T4

MDR: Registration of Plant Design; CH₄, O₂, CO, H₂S, NO₂

MSHA: 30 CFR, Part 22, Intrinsically safe for methane/air mixtures

PA-DEP: BFE 114-08 Permissible for PA Bituminous Underground Mines

AREA MONITOR



Radius® BZ1

Trust the area monitor designed for the world's harshest environments. Alarms that sound at 108dB, bold LED lights, and clear alarm action messages like "EVACU-ATE" cut through even the busiest work areas. With local and remote monitoring options, everyone from teams working nearby to safety managers off site will know there's a hazard and how to respond.

- Never miss an alarm thanks to old, bright LED lights.
- Show gas readings from nearby monitors so you know what's happening across your site and to your peers.
- Gain visibility from a distance with a large, easy-to-read screen.
- Get to work faster with drop-and-go setup and a sturdy all-weather base.
- Cut right through high-noise environments with alarms that sound at 108 dB, plus bold LED lights.
- Know what's happening at a distance with the largest display of any area monitor and customizable alarm action messages, such as "EVACUATE" or "VENTILATE."
- Minimize the cost of labor and risks of charging and rotating equipment in hazardous locations using Solar Power Supply, which gives you unlimited run time.
- DualSense® Technology uses two sensors to detect the same gas, bolstering your safety efforts.
- With Radius BZ1, you can detect up to seven gases simultaneously using 18 sensor options, including photoionization detectors (PID).

Warranty: One-year warranty, including sensors and battery.

Case Material: Impact-resistant polycarbonate alloys

Dimensions: 29 x 29 x 55 cm

Weight: 7.5 kg

Power Source/Run Time:

Rechargeable Nickel-Metal Hydride (NiMH) Battery

7 days (168 hours) typical @ 20 °C, without Pump, with Wireless

3.5 days (84 hours) typical @ 20 °C, with Pump, with Wireless

30 days (720 hours) typical @ 20 °C, Electrochemical Sensors only, without Pump, with Wireless

≤8 hour recharge time

Alarms:

108 decibel (dB) at 1 m (3.3 ft) redundant audible alarms

Redundant, visual alarm LEDs (red and blue)

Display/Readout:

11.2 cm (4.4 in) monochrome backlit graphical Liquid Crystal Display (LCD)

Keypad: Three buttons

Temperature Range: -20 °C to 55 °C

Humidity Range: 15% to 95% non-condensing (continuous)

Event Logging: 60 alarm events

Data Log: At least 3 months at 10-second intervals

Pump: Optional integral pump, up to 30.48 m (100 ft) sample draw

Wireless:

Optional LENS Wireless, mesh network

Frequency: ISM license-free band (2.405 - 2.480 GHz)

Max Peers: 25 devices per network group / 10 independent, configurable network groups

Range: 300 m (~1,000 ft) line of sight

Encryption: AES-128

Approvals: FCC Part 15, IC, CE/RED, others **

Measuring Ranges

Catalytic Bead

Combustible Gases:

Electrochemical

Ammonia (NH3):

Carbon Monoxide (CO):

Carbon Monoxide (High Range)

Carbon Monoxide/Hydrogen low

Carbon Monoxide/Hydrogen Sulfide

Chlorine

Hydrogen

Hydrogen Sulfide

Hydrogen Cyanide

Nitrogen Dioxide

Oxygen

Sulfur Dioxide

Phosphine

Nitric Oxide

Chlorine Dioxide

Hydrogen Chloride

Infrared

Carbon Dioxide

Hydrocarbon

Methane

Photoionization

Volatile Organic Compounds (10.6 eV) 0-2,000 ppm in 0.1 ppm increments

0-100% LEL in 1% increments

0-500 ppm in 1 ppm increments

0-1,500 ppm in 1 ppm increments

0-9,999 ppm in 1 ppm increments

0-1,000 ppm in 1 ppm increments

CO: 0-1,500 ppm in 1 ppm increments

H2S: 0-500 ppm in 0.1 ppm increments

0-50 ppm in 0.1 ppm increments

0-2,000 ppm in 1 ppm increments

0-500 ppm in 0.1 ppm increments

0-30 ppm in 0.1 ppm increments

0-150 ppm in 0.1 ppm increments

0-30% vol in 0.1% increments

0-150 ppm in 0.1 ppm increments

0-5 ppm in 0.01 ppm increments

0-1000 ppm in 1 ppm increments

0-1 ppm in 0.01 ppm increments

0-30 ppm in 0.1 ppm increments

0-5% vol in 0.01% increments

0-100% LEL in 1% LEL increments

0-100% LEL in 1% LEL increments

Solar Power Systems

Version



How Will You Use Your Radius BZ1?

Area monitors are a highly flexible solution because they can be placed in temporary or long-term configurations based on your specific hazards. With the addition of LENS™ Wireless, networks are created out of the box and provide visibility into gas hazards that are happening in any location.

- 1 Confined Space Monitoring – Know what's happening in a confined space by using the pumped SafeCore Module and tubing to draw air samples to the monitor.
- 2 Perimeter Monitoring – Set up monitors around a tank, hot work, or other known hazardous areas to continuously monitor for gas leaks.
- 3 Fence Line Monitoring – Create a barrier between a safe zone and hazardous work area. Use the hopping capability of LENS™ Wireless to know what is happening up to 1.5 km away.



Certifications:

INGRESS PROTECTION IP66

ATEX: Ex da ia IIC T4 Ga, Equipment Group and Category II 1G

China EX: Ex d ia IIC T1 Ga; Ex d ia IIC T4 Gb IR sensor

China CPC: China CPC

CSA: CI I, Div 1, G A-D, T4

C22.2 No. 152 applies only to %LEL thermo-catalytic reading

IECEX: Ex da ia IIC T4 Ga

INMETRO: Ex da ia IIC T4 Ga; Ex db ia IIC T4 Gb IR sensor

KC: Ex d ia IIC T4

UL: CI I, Div 1, Gr A-D, T4; CI 1 Zone 0 AEx da ia IIC T4 Ga1



DSX™
DOCKING STATION

The DSX™ Docking Station is an automated gas detector maintenance, record storage, and fleet management solution that flexes with the needs of your business. Choose from DSX-L, DSXi, or DSX Standalone based on your data access requirements. All DSX Docking Stations offer automatic charging, bump testing, and calibration.

Email alerts and notifications provide information on worker exposure, instrument usage, and instrument service needs
Print bump test and calibration certificates for hot work and confined space entry
Auto detect calibration gas type and expiration date upon cylinder connection
Calibration gas status indicators provide warning to order replacement gas before a cylinder is empty
DSX Standalone requires no PC or network connection
DSXi Cloud-connected provides cloud-based record storage with automatic file back-up, fleet management, and automated maintenance and notifications through iNet Control
DSX-L Local Server provides server-based record storage, fleet management, and automated maintenance and custom data reporting

Warranty:
Two-year warranty – DSX (Standalone) and DSX-L (Local Server)
Guaranteed For Life™ Program* – DSXi (Cloud-connected)

Instruments Supported:
Ventis MX4, Ventis Pro5, MX6 iBrid, Tango TX1, GasBadge Pro, SafeCore

Dimensions:
GasBadge Pro, Tango TX1: 22.7 x 16.9 x 27.3 cm (8.92 x 6.65 x 10.75 in)
Ventis MX4, Ventis Pro5: 24.9 x 16.9 x 27.3 cm (9.83 x 6.65 x 10.75 in)
MX6 iBrid: 25.3 x 16.9 x 27.3 cm (9.96 x 6.65 x 10.75 in)
SafeCore: 27.3 x 16.9 x 29.2 cm (10.75 x 6.65 x 11.5 in)

Gas Inlets:
3-Port Version: One "fresh" air port, two calibration gas ports
6-Port Version: One "fresh" air port, five calibration gas ports (for Ventis, MX6 iBrid, and SafeCore only)

Pump Flow Rate: 1.2 SCFH (550 mL/min)

Communication:
10/100 Ethernet support, RJ-45 category 5 connection

DISPLAY:
128 x 64 Dot Matrix LCD – multilingual modes
English, Spanish, French, German and Portuguese**

Operating Temperature Range:
0 °C to 50 °C / 32 °F to 122 °F

Operating Humidity Range:
0% to 80% relative humidity (RH) up to 30 °C (86 °F), decreasing linearly to 50% RH at 50 °C (122 °F)

External Power Supply Ratings:
Supply voltage: 100-240 VAC / 12 VDC
Frequency range: 50-60 Hz
Current rating: 5A

*Specific terms of the Guaranteed for Life™ Program are included with all products and are available upon request.
**DSX-L (Local Server) does not support Portuguese.

	DSX Standalone	DSX-i Cloud-connected	DSX-L Local Server
Record Storage	USB	Cloud	PC, Server
Bump and Cal	✓	✓	✓
Print Certificates	✓	✓	✓
6-Ports (Optional)	✓	✓	✓
Reports		✓	✓
Fleet Management		✓	✓
Event Scheduling		✓	✓
Email Alerts		✓	
Auto Software Updates		✓	
Auto Cal Gas Replenishment (Optional)		✓	
Software	Not Applicable	Included	Included



T-DOCK™
AUTOMATED GAS DETECTOR
MANAGEMENT SYSTEM



The T-DOCK™ is an intelligent, automated instrument management station for T40 II Rattler™ Single-Gas Monitors. It enables ultra-fast bump testing for 8 instruments simultaneously, saving space, time, span gas, and enhancing productivity for safety teams.

- Maintain up to eight instruments simultaneously
- Bump test T40 II Rattler™ monitors in just 15 seconds
- No training needed - simple interface is intuitive, one button starts all bump tests
- Automate device management with programmable settings
- Enhance productivity and safety with ultra-fast gas monitor maintenance
- Easily download event logs

Warranty: 3-Year Warranty

Display: 5" Color LCD Touchscreen

Physical Button: 1 'Quick Bump' button, 1 'Fn' button, 1 reset button

Power Supply: Input: USB-C, DC20V/3.25A

Gas Inlets:
3 independent gas inlets (including 1 dedicated for quick bump test)
1 fresh-air inlet | 1 exhaust outlet

Dimensions: 368 x 310 x 110 mm

Weight: 2.71kg

Automatic Tests: Automatic bump test, calibration, zeroing, and purging

Pump: USB memory stick, Printer PCL5 or above

Software Management:
T40 II Rattler™ Instrument Firmware Upgrade
T-DOCK™ Operating System (Android 7.1)

Battery: Compatible with USB TYPE-C PD Power Bank Min Power 65 W

Datastorage: 16 GB Memory

Rating:
EMC Directive 2014/30/EU, EN IEC 61326-1:2021
FCC Part 15 | IP20

The T-DOCK™ is easy to install and its capacitive touchscreen guides the user through an easy-to-follow process. Download data from T40 II Rattlers via a USB memory stick or directly connect to a USB printer to print reports and certificates.

The T-DOCK™ is ideal for turnarounds, shutdowns, and mobile applications where power outlets are unavailable thanks to a USB-C power bank.





iNet® Platform
Whether you need live monitoring with real-time alerts, gas detection management with historical reports, or automatic instrument exchanges, our iNet® platform will help you to be safer and more productive

iNet® Control gives you the power to reduce risk by giving you critical insights and complete control over your equipment, data and worker behavior

- Spend less time updating your gas detection fleet by easily managing everything from monitor settings and firmware to calibration gas in one dashboard
- Access all historical alarm data and generate reports or calibration certificates at any time.
- Manage worker and site safety by tracking critical instrument data
- Reduce risk to your people and your site by identifying and intervening when SOPs aren't followed
- For DSXi Docking Station customers, access to iNet Control is included



iNet® Now live monitoring software provides real-time visibility into worker and site safety so you can proactively address hazards and respond quickly in an emergency with actionable information.

- Respond quickly and effectively in an emergency with real-time alerts that show who is in danger, where they're working and what hazards they face
- Get real-time visibility into what's happening across your site through remote monitoring
- Improve site safety and productivity by making decisions based on insights, not instincts

RGX®
GATEWAY

The portable RGX® Gateway transmits location, gas readings, and real-time alerts from anywhere, including hazardous locations, so you can respond faster and improve productivity. The RGX Gateway is suitable for permit tasks that last hours, incidents that last days, or projects that last weeks.

- Receive real-time alerts and location data from personal gas monitors and area monitors
- Monitor hazardous locations and get data out of confined spaces in real time
- Up and running in minutes without the need for costly IT infrastructure
- Compatible with LENS Wireless-enabled Ventis Pro5 Multil Gas Monitors and Radius BZ1 Area Monitors
- 168 hours of continuous run time
- Cell, wi-fi, or Ethernet connectivity options
- Automatic configuration and firmware updates without taking the gateway out of the field



iASSIGN®
BEACON AND TAGS

iAssign® Beacons and Tags allow you to go beyond the basic “what” and “when” data from gas detectors to understand “who” and “where”. Using a pre-programmed iAssign Tag, operators can wirelessly enter a name into a device by simply tapping it with a tag.

Now all data recorded in the instrument will be tagged with the user's name. This allows users to carry different gas monitors each day while still having a clear data record of who had an instrument when it went into alarm. When a worker (and tagged device) approaches an iAssign Beacon on your site, the beacon adds the device location to the data. iAssign Beacons can also be set with permission levels, allowing you to send automatic alerts to workers entering restricted areas.

- Locate problem sites across your facility
- Alert workers when entering restricted areas with simple-to program proximity alarms
- Manage worker clearances without the need for separate devices, extra signage, or physical barriers
- Intrinsically-safe beacons can be used indoors or outdoors, and cover areas as small as 1 meter or as large as 30 meters



iAssign Tag Specifications

Technology
Near Field Communication (NFC)
Programming Method
iAssign app available in Google Play store
Application
iAssign tags may be used to track workers and locations

iAssign Tag Specifications

Tag Type	Standard Tag	Waterproof Tag	All Weather Tag	Keychain Tag
Part Number (Pack of 10)	18109417	18109418	18109419	18109420
Thickness	0.7 mm	1.5 mm	3 mm	4 mm
Adhesive Back	Yes	Yes	No	No





**LENS®
WIRELESS**

LENS® Wireless is the first gas detection solution that allows personal monitors and area monitors to wirelessly share gas readings and alarms with one another. Now when a gas hazard, man-down, or panic situation causes an instrument to alarm, all peers in the connected group will instantly be notified of the hazard and the person in danger, allowing them to make smarter, faster, safer decisions.

- View gas readings from other peers in your group on any monitor without needing a central controller to relay the information
- Share gas readings and alarms between Ventis® Pro5 MultiGas
- Monitors and Radius® BZ1 Area Monitors from up to 1.5 km (about 1 mile) away with wireless hopping between instruments
- Enjoy out-of-the-box operation with no site surveys, IT setup, licenses, or additional infrastructure
- Connect up to 25 devices in a group with a simple tap
- Self-healing mesh networks always stay connected, even if a single unit drops off



Average time to deploy 25 LENS Wireless instruments
(Joining 25 instruments into a group)

2 minutes

Average time to implement other wireless solutions
(Instrument, IT, and central controller setup)

2 hours – 2 days

GAS DETECTION meets CONNECTED SAFETY

With the Ventis® Pro5 Personal Gas Monitor and Radius® BZ1 Area Monitor, you have the flexibility to choose how you want your teams to connect. Whether you want peer-to-peer alarm sharing, personal monitor to area monitor connectivity, or remote live monitoring, Industrial Scientific has you covered.

Personal Gas and Arena Monitoring

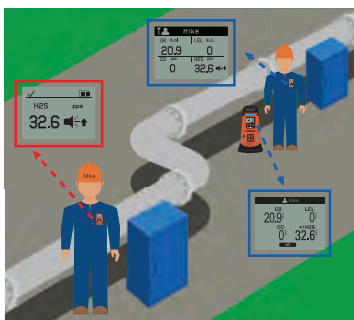
Reliable Ventis Pro 5 and Radius BZ1 gas monitors are key to protecting employees from invisible hazards.



Connect personal and area monitors across your worksite.

Team and Site-Based Safety

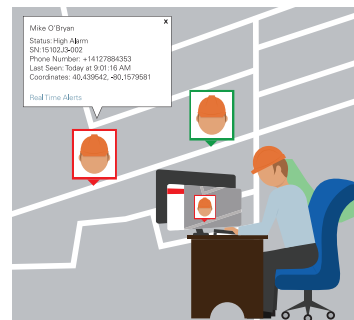
Give workers insight to their surroundings by sharing alarms and notifications between gas monitors.



When Mike is in alarm, his peers are immediately notified.

Manager Safety and Productivity

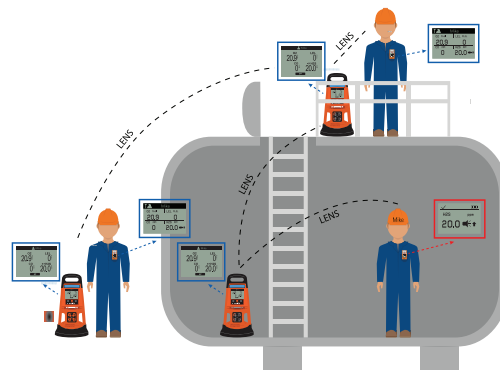
Get data out of any situation and increase productivity by knowing where your workers are and what dangers they may encounter.



With iNet® Now, the safety manager also knows that Mike is in alarm in real time.

INSTRUMENT-TO-INSTRUMENT WIRELESS

LENS™ Wireless, exclusive to Industrial Scientific, shares hazard exposures, panic, and man-down situations, with other connected instruments using a peer-to-peer network. No central command or complicated set up required. Just turn on the instruments to connect.



VOC Gas Detector

The Tiger XT's photoionisation detection (PID) technology has been independently verified as best performing on the market for speed, accuracy, resistance to humidity and contamination, thanks to its patented Fence Electrode Technology. Its patented Fence Electrode Technology and anti-contamination design ensures optimal performance within humid and heavily contaminated atmospheres, extending run time in the field.

Key Features

Improved Robust Design
The instrument's rugged body can withstand harsh environments
Large Internal Gas Table
Internal gas table has over 750 VOCs & toxic compounds
Instantaneous Alarms
Bright visible alarms: RED & AMBER with loud sounder (95 dBA at 300 mm (12"))

Technical Specifications

Intrinsically safe approvals:
• II 1G Ex ia IIC T4 Ga
• Tamb = - 15 °C ≤ Ta ≤ +45 °C (with lithium ion battery pack)
• Tamb = - 15 °C ≤ Ta ≤ +40 °C (with alkaline battery pack)
• ITS-I22ATEX35111X
• IECEx ITS 22.0025X
• ITS22UKEX0635X
• 3193491 conforms to UL Std. 913, 61010-1
• Certified to CAN/CSA Std.C22.2 No. 61010-1
• Class 1 Division 1. Approval for Groups A, B, C & D, T4

Protection:
• Designed to IP65
• EMC tested to EN61326-1:2013 & EN50270:2015 & CFR 47:2008 Class A

Alarm:
• Flashing LEDs Amber (low alarm) Red (high alarm)
• Sounder 95 dBA at 300 mm (12")
• Vibration on alarm
• Pre-programmed TWA and STEL*

The Tiger XT is the most advanced handheld VOC detector on the market with the widest measurement range, accurately detecting gases down to 1 part per billion (ppb) up to 20,000 part per million (ppm). Tiger has the fastest response time on the market of just two seconds, and is as quick to clear down. The Tiger XT handheld VOC gas detector can detect over 750 VOCs and toxic compounds!

IP65 Ingress Protection
Protection against a range of conditions and weather temperatures
Fast Response Time & Clear Down
<2 second response time, one of the fastest and most accurate on the market
Humidity Resistant and Anti-Contamination Design
Patented Fence Electrode Technology ensures optimal performance and extends run time

Battery life:
• Li-ion: Typical operating time of up to 24 hours
• Charge time: Typically 8 hours
• Alkaline: 3 x AA, typically 8.5 hours life

Data logging*:
120,000 points including date and time stamp

Lamps:
10.6 eV Krypton PID lamp (standard.) 10.0 eV and 11.7 eV lamps available

	10.6 eV	11.7 eV
Minimum Sensitivity	1 ppb or 0.001 mg/m ³	0.6 ppm (600 ppb)
Maximum Reading	20,000 ppm or 20,000 mg/m ³	9,000 ppm
Accuracy	± 5% or ± one digit	± 12% display reading
Response Time T90 (s)	< 2 seconds	< 6 seconds
Lamp Lifetime	10,000 hours	≥500 hours
Temperature Range	-20°C to +60°C	0°C to +60°C

Tiger XT

Rapid, accurate detection of Volatile Organic Compounds (VOCs), within the most challenging environments.



The Tiger XTL is a ground breaking low cost entry level VOC detector with all the essential functions you need to detect VOCs. The instrument has the lowest running costs on the market with inexpensive disposable parts, lamps and filters. This variant of the hugely popular Tiger XT VOC detector is low on cost but high on performance. Its revolutionary, patented PID sensor technology with resistance and anti-contamination design provides market leading accuracy and run time.

Key Features

Improved Robust Design
The instruments rugged body can withstand harsh environments
Long Rechargeable Battery Life
When fully charged, the lithium-ion battery can last up the 24 hours
IP65 Ingress Protection
Protection against a range of conditions and weather temperatures

Technical Specifications

Intrinsically safe approvals
• II 1G Ex ia IIC T4 Ga
• Tamb = - 15 °C ≤ Ta ≤ +45 °C (with lithium ion battery pack)
• Tamb = - 15 °C ≤ Ta ≤ +40 °C (with alkaline battery pack)
• ITS-I22ATEX35111X
• IECEx ITS 22.0025X
• ITS22UKEX0635X
• 3193491 conforms to UL Std. 913, 61010-1
• Certified to CAN/CSA Std. C22.2 No. 61010-1

Alarm:
• Flashing LED and 95 dBA at 300mm (12") audible sounder
• Selectable vibrating alarm

Flow rate:
≥ 220 ml/min (with blocked flow alarm)

Minimum resolution:
0.1 ppm

Combined with 24 hour battery life, these features maximise field time by minimising erroneous readings in high humidity and drift in hard environments.

The Tiger XTL portable VOC gas detector is ETL (Electrical Testing Laboratories), KGS (Korean Gas Safety), IECEx (International Electrotechnical Commission System for Certification to Standards Relating to Equipment for Use in Explosive Atmospheres) certified. It is also ATEX approved meaning the instrument is intrinsically-safe.

Fast Response Time & Clear Down
<2 second response time, one of the fastest and most accurate on the market
Instantaneous Alarms
Bright visible alarms: RED & AMBER with loud sounder (95 dBA at 300 mm (12"))
Humidity Resistant and Anti-Contamination Design
Patented Fence Electrode Technology ensures optimal performance and extends run time

Maximum reading:
5,000 ppm

Response time:
T90 < 2 seconds
Accuracy:
± 5% display reading ± one digit

Linearity:
5% display reading ± one digit

Battery life:
Li-ion: life up to 24 hours continual use

Temperature:
• Operating: -20 to 60 °C, -4 to 140 °F
• Humidity: 0-99% RH (non condensing)

Battery life:
Li-ion: life up to 24 hours continual use
Lamps:
10.6 eV Krypton PID lamp (standard)
Data logging:
Push-to-log, 128 zones, 80,000 data points
Calibration:
• Standard calibration 100 ppm isobutylene
• Custom calibration capability

Protection:
• Designed to IP65
• EMC tested to EN61326-1:2013 & EN50270:2015 & CFR 47:2008 Class A

Dimension & Weights:
• 370 mm (H) x 91 mm (W) x 60 mm (D) & 870g

Tiger XTL

Low cost Volatile Organic Compound (VOC) detector with reliable market leading accuracy!



Utilising the high output ION Science 10.0 eV lamp, the Tiger XT Select (XTS) portable benzene gas detector is capable of detecting Total Aromatic Compounds (TACs) including Benzene, Toluene and Acetone. The instrument is supplied with a pack of benzene pre-filter tubes to detect benzene selectively. The tube can be easily attached to ensure rapid detection and selective measurement of benzene.

Throughout the measurement process, Tiger XT Select benzene gas detector continuously displays real time data. Tiger XT Select can also provide 15 minute short term exposure limits (STELs) and 8 hour time weighted averages (TWAs) for Total Aromatic Compounds (TACs). The Tiger XT Select handheld benzene gas detector can be used in standard operational mode without the use of a benzene pre-filter tube to deliver active indications of volatile organic compounds (VOCs).

Tiger XT Select

Rapidly detects Benzene & Total Aromatic Compounds (TACs) providing the most accurate reliable data available!



Key Features

Improved Robust Design

The instrument's rugged body can withstand harsh environments

Long Rechargeable Battery Life

When fully charged, the lithium-ion battery can last up the 24 hours

IP65 Ingress Protection

Protection against a range of conditions and weather temperatures

Fast Response Time & Clear Down

<2 second response time, one of the fastest and most accurate on the market

Instantaneous Alarms

Bright visible alarms: RED & AMBER with loud sounder (95 dBA at 300 mm (12"))

Humidity Resistant and Anti-Contamination Design

Patented Fence Electrode Technology ensures optimal performance and extends run time

Technical Specifications

Intrinsically safe approvals

- II 1G Ex ia IIC T4 Ga
- Tamb = - 15 oC ≤ Ta ≤ +45 oC (with lithium ion battery pack)
- Tamb = - 15 oC ≤ Ta ≤ +40 oC (with alkaline battery pack)
- ITS-I22ATEX35111X
- IECEx ITS 22.0025X
- ITS22UKEX0635X
- 3193491 conforms to UL Std. 913, 61010-1
- Certified to CAN/CSA Std. C22.2 No. 61010-1
- Class 1 Division 1. Approval for Groups A, B, C & D, T4

Maximum reading**

- Standard mode up to 20,000 ppm or 20,000 mg/m³
- Tube mode 200 ppm or 639 mg/m³ benzene

Accuracy:

± 10% display reading ± one digit Benzene (tube mode)

Minimum sensitivity (PPB model)

- Standard running mode: 0.001 ppm
- TAC mode: 0.001 ppm
- Tube mode: 0.01 ppm (res. 0.001 ppm)

Minimum sensitivity (PPM model)

- Standard running mode: 0.1 ppm
- TAC mode: 0.01 ppm
- Tube mode 0.01 ppm (res. 0.001 ppm)

Lamps:

10.0 eV Krypton PID lamp

Communication:

Direct USB 1.1

Response time:

- 130 seconds at 20 oC (variable)
- Progressive indication of benzene breakthrough is displayed in real time

Calibration:

2 and 3 point calibration (via calibration kit accessory)

Battery life:

- Li-ion: life up to 24 hours, charge time 8 hours
- Alkaline: 3 x AA, typically 8.5 hours life

Data logging:

120,000 data log points including date and time stamp

The Mercury Vapour Indicator utilises dual beam UV absorption technology, which means that the portable mercury vapour indicator does not saturate or need regenerating between readings – like traditional gold film detection methods – eliminating the mercury indicators downtime.

Fast and accurate, the portable mercury vapour indicator gives a real-time response and is ready to detect instantly. The Mercury Indicator provides continuous readings and offers two detection ranges: 0.1 to 199 and 1 to 1999 microgram/cubic meter.



MVI

Key Features

Ultimate Performance

- Fast 3 second indicator response
- Range: 0.1 – 199 & 1 – 1999 microgram / cubic meter
- Fast indication and recovery
- Robust and withstands harsh environments

Ultimate Safety

- Fast indication and recovery
- Audible alarm gives clear indication of mercury vapours
- Highly accurate mercury indicator reading

Technical Specifications

Detector:

- Dual Beam Ultraviolet Absorption Module

Accuracy:

- ± micrograms or ± 10 % reading

Operation:

- After warm up MVI gives real time mercury vapour concentration

Alarm:

- Audible alarm factory pre-set to 20 microgram/cubic meter

Temperature:

- 10 °C to 50 °C

Repeatability:

- 35 % FSD @ 1 µg/m³

Batteries:

- NiMH – last up to 5 1/2 hours from full charge

Instrument Range:

0.1 to 199 and 1 to 1999 microgram cubic meter

Response:

- 3 seconds

Weight and Dimensions:

- 6 lbs 10 oz (3 kg)
- 145 x 295 x 80 mm



Cub TAC 10.0 eV

Cub TAC 10.0 eV personal benzene gas monitor for fast, accurate detection of total aromatic compounds (TACs) keeping you safe within your working environment. When worker exposure exceeds pre-set limits, this personal benzene gas monitor has audible, vibrating, and flashing LED alarms that alert you to the gases present. Readings are displayed on its bright, backlit LCD display with selectable data logging time.



Cub 10.6 eV

The Cub 10.6 eV personal VOC gas detector is worn within the breathing zone to detect volatile organic compounds, keeping you safe within your working environment. Our personal VOC gas detector is the worlds smallest and lightest wearable VOC gas detector. When worker exposure exceeds pre-set limits, the VOC detectors audible, vibrating, and flashing LED alarms alert you to the gases present. Readings are displayed on its bright, back-lit LCD display with selectable data logging time.



Cub 11.7 eV

The Cub 11.7 eV personal VOC gas monitor is worn within the breathing zone to detect volatile organic compounds, keeping you safe within your working environment. Our personal VOC gas monitor is the worlds smallest and lightest wearable VOC gas detector. When worker exposure exceeds pre-set limits, the gas monitors audible, vibrating, and flashing LED alarms alert you to the VOC gases present. Readings are displayed on its bright, back-lit LCD display with select-able data logging time.

Key Features

Ultimate Performance

- Unrivalled sensitivity detects benzene down to ppb levels
- Widest range detects gases 0 – 5,000 ppm
- Anti-contamination design for extended field operation
- In-built humidity resistance with no need to compensate

Ultimate Safety

- Fastest (<13 seconds) response to hazardous gases & vapors
- Clear audio, visual and vibrating alarms
- Large LCD display for clear readings
- Battery life up to 12 hours
- Meets ATEX, IECEx Certification

Ultimate Flexibility

- Easy to service
- Smallest, lightest personal PID monitor available

Ultimate Performance

- Unrivalled sensitivity detects VOCs down to ppb levels
- Widest range detecting VOC gases 0 to 5,000 ppm
- In-built humidity resistance with no need to compensate
- Measures 480 selectable compounds
- Anti-contamination design for extended field operation

Ultimate Safety

- Fast (<13 second) response to hazardous gases & vapours
- Clear audio, visual and vibrating alarms
- Large LCD display for clear readings
- Battery life up to 12 hours
- Meets ATEX, IECEx certification

Ultimate Flexibility

- 2-year warranty when Cub registered online
- Easy to service
- Easily upgrade your instrument

Ultimate Performance

- Unrivalled sensitivity detects VOCs down to ppb levels
- Widest range detecting gases 0.5 to 5,000 ppm
- In-built humidity resistance with no need to compensate
- Anti-contamination design for extended field operation

Ultimate Safety

- Fast (<11 second) response to hazardous gases & vapours
- Clear audio, visual and vibrating alarms
- Large LCD display for clear readings
- Battery life up to 12 hours
- Meets ATEX, IECEx certification

Minimal Downtime

- Fast start up with no complicated set up
- Battery life up to 12 hours continual use
- Simple icon driven menu requires minimal user training
- Direct USB connectivity for fast data download

Technical Specifications

Sensitivity:

- 0.001 ppm (isobutylene equivalent)*
- 0.002 mg/m3 (isobutylene equivalent)*

Accuracy:

± 5% display reading ± one digit

Response:

<13 seconds (T90)

PID lamp options:

10.6 eV, 10.0 eV

Data Logging:

30,000 readings

Temperature:

- Operating: – 4 to 140 °F
- Certified: -4 to 131 °F

Range:

0 – 5000 ppm

Alarm:

- LEDs, audio and vibrate Sounder 95 dB @ 300 mm.
- Pre-programmed TWA & STEL Work exposure alarm levels on all models.

Approvals:

- II 1 G Ex ia IIC T4 Ga (-4 °F ≤ Ta ≤ 131 °F)
- Baseefa11ATEX0027 IECEx BAS 11.0014

Sensitivity:

- 0.001 ppm (isobutylene equivalent)*
- 0.002 mg/m3 (isobutylene equivalent)*

Accuracy:

± 5% display reading ± one digit

Response:

<13 seconds (T90)

PID lamp options:

10.6 eV, 10.0 eV

Data Logging:

30,000 readings

Temperature:

- Operating: – 4 to 140 °F
- Certified: -4 to 131 °F

Range:

0 – 5000 ppm

Alarm:

- LEDs, audio and vibrate Sounder 95 dB @ 300 mm.
- Pre-programmed TWA & STEL Work exposure alarm levels on all models.

Approvals:

- II 1 G Ex ia IIC T4 Ga (-20 °C ≤ Ta ≤ 55 °C)
- Baseefa11ATEX0027
- IECEx BAS 11.0014

Resolution:

- PPM 0.1 ppm
- PPB 0.001 ppm
- TAC 0.01 ppm

Sensitivity:

0.5 ppm (500 ppb)

Accuracy:

± 12% of display reading

Response:

<13 seconds (T90)

PID lamp options:

11.7 eV

Data Logging:

30,000 readings

Temperature:

0°C to 55°C

Range:

0 – 5000 ppm

Alarm:

- LEDs, audio and vibrate Sounder 95 dB @ 300 mm.
- Pre-programmed TWA & STEL Work exposure alarm levels on all models.

Approvals:

- II 1 G Ex ia IIC T4 Ga (-4 °F ≤ Ta ≤ 131 °F)
- Baseefa11ATEX0027 IECEx BAS 11.0014

The Panther Gas Leak Detector utilizes a micro thermal conductivity sensor which offers fast and sensitive detection for many gases. The internal piezo pump offers extremely stable sample flow and makes it highly stable in draughty environments. The Panther has also demonstrated its relative immunity in high electro-magnetic field environments.

Using the Panther couldn't be easier, simply draw the probe along the area that needs checking, then once the leak has been 'pin-pointed' the leak-rate can be quantified from a variety of measurement units. For applications where the leak-rate requires to be logged, the Panther offers 10 days of continuous logging.

Panther PRO



Key Features

Internal Gas Table

With a large range of gases e.g Helium, Hydrogen and Refrigerants.

Datalogging*

View and export Panther data into Excel, CSV, file or PNG image

Integrated Torch

Used for dimly lit or dark areas

IP44 Ingress Protection

Splashproof protection.

Long Rechargeable Battery Life

When fully charged, the lithium-ion battery can last up to 20 hours.

Bluetooth* & ION PC Software

Connect to ION PC via Bluetooth and configure a wide range of instrument settings.

Technical Specifications

Detector:

Micro thermal conductivity detector (MTCD)

Battery Type:

Rechargeable Li-ion battery

Battery Life:

20 hours

Audible Alarm:

90 dBa at 10 cm

Temperature Operating:

0°C to 50°C

Humidity:

0-99% R.H

Leak:

0.0005 cc/s ($\pm 5\%$)

Data Logging:

10 days continuous

Weight:

447g (approx.)

Dimension:

320 x 80 x 55 mm (approx.)

Sensitivity (cc/s) Helium:

5 x 10⁻⁶

Hydrogen:

3.8 x 10⁻⁶

Response T90:

1 second

Flow Rate:

2 cc/min

Ingress Protection:

IP44

Factory Calibration:

At 50 % relative humidity, room temperature: 5000 ppm helium ($\pm 5\%$)

Unique multicoloured Projektor Alarm displays to the operators sightline a clear visual warning when a leak is detected. SF6 LeakCheck P1 XTL is a truly portable, precise and highly sensitive instrument for determining SF6 leaks built in a trolley style Peli Protector Case including a docking station for the wireless Handgun.

Maximum reliability and ultimate ease of use were the main guidelines in the development of P1 XTL. All vital parameters, such as the sample flow rate, are permanently monitored and regulated. Normal operation is a matter of switch on and go.

SF6 LeakCheck P1 XTL



Key Features

Easy to use

The SF6 Leak Detector is designed with ease of use in mind.

High Sensitivity

This instrument has high sensitivity for both leak rates and gas concentrations.

Easily Transportable

The trolley style protector case allows the instrument to be easily moved from one place to another.

Immune to 100% SF6

Even after exposure to high gas concentrations, the instrument recovers without any loss in sensitivity, accuracy or response time.

Negative Ion Capture Technology

This instrument utilises the award winning Negative Ion Capture (NIC) Technology.

Fast Response Time & Clear Down

The SF6 instrument requires no warm up or stabilisation time and has a response time of <0.5 seconds.

Technical Specifications

Detection Principle:

Negative Ion capture (NIC)

Sensitivity:

Standard: 1 x 10⁻⁷ cc/sec, 1 ppm, 0.01 g/a
HIGHsense: 1.0E-8 cc/sec, 0.1 ppm, 0.001 g/a

Response Time T90:

Approximately 0.5 seconds

Response Time T10:

Approximately 0.5 seconds

Alarm:

Selectable handgun vibration, audio and LED projection

Audio:

Frequency/ repeat rate coupled to leak rate, condition signals

Display:

2.8" touch display on handgun

Self Diagnostic:

Sample Flow
Sensor Condition
Battery Condition
Hardware Fault

Battery:

Handgun LiPo, inductive charge at docking station Console LiFe

Temperatures:

Storage : -10 °C to +60 °C
Operating: 0 °C to 50 °C

Power Supply:

85 – 265V (50/60 Hz)

Dimensions:

Console: 420 (H) x 240 (D) x 470 mm (W)
Handgun: 300 (H) x 105 (D) x 90 (W)

Weight:

Handgun: 750g

VOC Gas Detector

The Falco 2 fixed VOC Gas Detector, Diffused model, is an intrinsically safe and ATEX certified instrument making it approved for use in ATEX-zoned hazardous areas. Our fixed gas monitor is designed with Typhoon technology, making it able to withstand exceptionally harsh environments, including 0-100% relative humidity and condensing humidity, and temperatures from -40 to +50 °C without any compromise in performance.



FALCO 2
DIFFUSED MODEL

Key Features

IP65 Ingress Protection
Protection against harsh conditions and weather temperatures
Live Readings & Instantaneous Alarms
Bright visible status indicator: RED, AMBER, GREEN
Robust ExD Housing
ExD housing offers ease of installation and product protection

Typhoon Technology
Prevents condensation forming within the PID sensor
Diffused or Pumped Model Variants
10.6 eV and 10.0 eV variants available

Technical Specifications

Sensor:
Photoionisation detector with
10.6 eV and 10.0 eV lamp options

Falco detection ranges and sensitivity with 10.6eV lamp fitted*:

- 10.0 ppm, 0.001 ppm
- 50.0 ppm, 0.01 ppm
- 1000 ppm, 0.1 ppm
- 3000 ppm, 1 ppm

Detection range and sensitivity with 10.0 eV lamp fitted*

- 50 ppm, 0.01 ppm

Response time (T90):

- Diffused models: <30 seconds

Accuracy:

- ± 5% or ± 1 digit

Status indicator:

- Bright visible status indicator: RED, AMBER, GREEN

Output:

- 4 - 20 mA
- 2 programmable relays
- RS 485 Modbus

Falco 2 diffused environmental specification:

- Operational temperature: -40°C to +50°C 0-100% RH and condensing humidity
- Storage temperature: -20°C to +60°C

User interface:

- OLED high contrast white on black: 128 x 64 pixels
- Screen size: 35 mm (w) x 17.5 mm (h)
- 5 magnetic switches with LED confirmation (up, down, left, right & enter).

Mechanical interface:

- 2 x cable entry points with 3/4" NPT threads (left and right)

Weight & Dimensions (diffused):

- 2.5 kg
- 223 (h) x 192 (w) x 115 (d) mm

Mounting points:

- 2 x M8

EMC:

- EMC Directive 2014/30/EU

Ingress Protection:

- Main unit: IP65
- Sensor head: IP65

Power:

- Working voltage: 8 to 40 Vdc
- Typical 2 W, Max. 7 watts

Certification:

- IATEX: II 2G Ex db ib IIC T4 Gb
- IECEx: Ex db ib IIC T4 Gb

The Falco 2 Pumped is a fixed VOC gas monitor that eliminates false readings found with other competing technology and continuously monitors Volatile Organic Compounds (VOCs) in hazardous areas. The Falco 2 pumped, fixed VOC gas monitor uses a sample line to draw samples and is ideal for use in difficult locations such as underground or in confined spaces.



FALCO 2
PUMP MODEL

Key Features

IP65 Ingress Protection
Protection against harsh conditions and weather temperatures
Live Readings & Instantaneous Alarms
Bright visible status indicator: RED, AMBER, GREEN
Robust ExD Housing
ExD housing offers ease of installation and product protection

Typhoon Technology
Prevents condensation forming within the PID sensor
Diffused or Pumped Model Variants
10.6 eV and 10.0 eV variants available

Technical Specifications

Sensor:
Photoionisation detector with
10.6 eV and 10.0 eV lamp options

Falco detection ranges and sensitivity with 10.6eV lamp fitted*:

- 10.0 ppm, 0.001 ppm
- 50.0 ppm, 0.01 ppm
- 1000 ppm, 0.1 ppm
- 3000 ppm, 1 ppm

Falco TAC detection ranges and sensitivity with 10.0eV lamp fitted*

- 50.0 ppm, 0.01 ppm

Response time (T90):

- Pumped models: <10 Seconds

Accuracy:

- ± 5% or ± 1 digit

Status indicator:

- Bright visible status indicator: RED, AMBER, GREEN

Output:

- 4 - 20 mA
- 2 programmable relays
- RS 485 Modbus

FALCO 2 pumped environmental specification:

- Operational temperature: -20°C to +50°C 0-100% RH and condensing humidity
- Storage temperature: -20°C to +60°C

User interface:

- OLED high contrast white on black: 128 x 64 pixels
- Screen size: 35 mm (w) x 17.5 mm (h)
- 5 magnetic switches with LED confirmation (up, down, left, right & enter).

Mechanical interface:

- 2 x cable entry points with 3/4" NPT threads (left and right)

Weight & dimensions (pumped)

- 2.9 kg
- 325 (h) x 192(w) x 115 (d) mm

Mounting points:

- 2 x M8

EMC:

- EMC Directive 2014/30/EU

Ingress Protection:

- Main unit: IP65
- Sensor head: IP65

Power:

- Working voltage: 8 to 40 Vdc
- Typical 2 W, Max. 7 watts

Certification:

- ATEX: II 2G Ex db ib IIC T4 Gb
- IECEx: Ex db ib IIC T4 Gb

TITAN 2

Titan 2 benzene gas monitor incorporates the NEW MiniPID T2 10.0 eV Sensor which offers improved sensitivity, reliability and overall performance. The unique sampling method eliminates interfering gases such as toluene, xylene and methane providing you with accurate benzene concentration readings you can rely on.



Key Features

NEW MiniPID T2 10.0 eV Sensor
Unique to Titan 2, MiniPID T2 10.0 eV delivers the results that you can rely on
Low Detection Limit
Can detect benzene down to 0.02 parts per million (20 parts per billion)

IP65 Ingress Protection
Protection against a range of atmospheric conditions
Interchangeable Service Module
The service module can be removed and replaced as a remotely serviceable plug and play cartridge.

4-20 mA and RS485 Modbus (ASCII or RTU) Communication Options
4-20 mA and RS485 capabilities allow you to connect to your own control system.
Piezo Electric Micro Pump
The piezo electric micro pump combines silent operation with millisecond response and high precision.

Technical Specifications

Approvals:

- FTZU 14 ATEX 0172X
- EX II 2G Ex db IIB+H2 T4 Gb
- Tamb. = -20 oC to +55 oC
- IECEx FTZU 14.0030X
- Ex db IIB+H2 T4 Gb
- Tamb. = -20 oC to +55 oC
- QPS LR1621-1
- Ex db IIB+H2 T4 Gb
- AEx db IIB+H2 T4 Gb
- Ta=-20 oC to +55 oC

Sensor type:

- MiniPID T2 10.0 eV Sensor

Selectivity:

- Benzene specific within typical petrochemical matrix

Range:

- 0.02 ppm - 20 ppm

Measuring frequency:

- One minute

Lower limit of detection:

- 0.02 ppm (20 ppb) (10 ppb resolution)

Display:

- Graphical BW LCD 64 x 128 pixels with back light Bright LEDs for normal operation, fault and alarm
- Two magnetic switches for menu operation

Ingress protection rating:

- IP65

Humidity:

- 0 - 100 % RH

Minimum service period:

- 6 months – PID lamp, electrode stack, inline filter, VRV restrictor, hydrophobic & carbon filter
- 12 months – PID lamp, electrode stack, inline filter, VRV restrictor, hydrophobic & carbon filter and AirSep filter

Accuracy:

- ± 50 ppb or $\pm 10\%$, whichever is greater*

Cable entry:

- Two 3/4 NPT gland threads

Power:

- Vin (nom) 24 V DC @ 3.2A (recommended)
- Vin (max) 32 V DC @ 2.4 A
- Vin (min) 19 V DC @ 4.0 A

Communication:

- Isolated 4-20 mA output
- Isolated RS 485 Modbus (simplex/half duplex or fully duplex)
- USB when lid removed with PC software

Data storage:

- On board MMC, minimum of six months (2GB)

Relay output:

- Two isolated outputs, voltage free, 24 V DC @ 1.25 A

Operating temperature:

- Recommended operating range of -20 °C to +50 °C (-4 °F to +122 °F) for optimum performance

Flow rate:

- Sample flow rate ≥ 100 ml/min

Gas sample line:

- 10 m max length, PTFE, 6 mm OD, 4 mm ID

Weight and dimensions:

- 15 kg (33 lbs)
- 219 x 219 x 172 mm (8.6 x 8.6 x 6.8" approx.)

This robust fixed continuous VOC gas detector has a selectable detection range of 0 – 10 ppm, 0 – 100 ppm or 0 – 1000 ppm and is ideal for use in manufacturing and process industries where VOCs are typically present. With a 4-20 mA analogue output, the fixed continuous VOC gas detector can be simply integrated into a Distributed Control System (DCS) to provide warnings and enable control of high VOC levels in your working environment.



TVOC 2



MiniPID 2 sensor

Key Features

Ultimate Performance

- PID independently verified as best performing on the market
- In-built humidity resistance with no need to compensate
- Anti-contamination design for extended field operation
- Variable duty cycle prolongs run time

Ultimate Safety

- Accurate continuous over all environmental conditions
- Rugged and robust design withstands harsh environments
- Large LCD display for clear readings
- ATEX and IECEx approved

Ultimate Flexibility

- Simple to use – minimal training required
- Easy access PID sensor for fast, simple servicing
- Simple calibration procedure
- Easily integrated into a control system

Technical Specifications

Approvals:

- II 2G Ex ia IIC T4 Gb (-20°C \leq Ta \leq +50°C)
- II 3G Ex nA IIC T4 (-40°C \leq Ta \leq +50°C)
- Baseefa05ATEX0277X
- IECEx BAS 06.0057X

Ingress protection rating:

- Designed to IP65
- Sensor Ingress Protecting IP54

Power:

- 5-28 VDC Max 130 mA

Output:

- 4-20 mA requires a 8-35 VDC power supply
- For IS requirements 8-30 VDC power supply

Range:

- 0 to 10 ppm, 0 to 100 ppm, 0 to 1000 ppm (user selectable)

Sampling:

- Diffusion (can be pumped if required using an adaptor)

Display:

- 7 segment, 4 digit LCD, 4 color LEDs

Response:

- Sensor - T90 < 5 sec

Accuracy:

- 0 to 100 ppm: $\pm 5\%$ at calibration point.
- 100 to 1000 ppm: $\pm 10\%$ at calibration points.

Calibration:

- Accessed via magnetic switch
- 100 ppm Isobutylene via calibration kit accessory

Temperature:

- Operating: -20 oC to 50 oC (-4 oC- 122 oF)
- Humidity: 0-95% RH (non- condensing)

Weight & dimensions:

- Instrument: 1.4 kg (3.1 lb) Packed: 1.6 kg
- Dimensions: 188 x 126 x 78 mm

4-20 mA alarm levels:

- Selectable 2 mA & 3.5 mA options

Gas Leak Detection Cameras

EyeCGas® 2.0

Fast and effective gas leak detection is essential for keeping employees, the environment and property safe. EyeCGas® 2.0 ensures quick identification of methane and volatile organic compound (VOC) leaks for rapid and effective repair, guaranteeing safety while saving time and costs.

Designed and engineered based on customer inputs and industry needs:

Wireless

Built-in WiFi enables live video streaming and video download for better connectivity.

Safety Certifications

CSA C22.2 No. 213-M1987, Non-Incendive Electrical Equipment for Use in Class I, Division 2
ANSI/ISA-12.12.01 - Class I and II, Division 2, and Class III
ATEX intrinsically safe for Zone 2 ratings as: Ex II 3 GD; Ex ic nA nC IIC T6 Gc; Ex ic tc IIIC T85°C Dc

High Sensitivity

Improved sensitivity for small leak detection, 3rd party certification for EPA OOOO a compliance.

Thermographic Imaging

Temperature measurement capabilities and color pallets for better versatility.

Ldar Ready

Innovative built-in LDAR capabilities provide better operability.

1. Integration with leading LDAR software during inspection routes
2. Real time component tag synchronization
3. Built-in for geo-tagging
4. Patent protected integration with PID/FID Method 21 analyzers to enable Smart LDAR

EyeCGas Backward Compatibility

Easy upgradability from older EyeCGas® cameras into EyeCGas® 2.0 enables better maintainability.

Media Recording and Storage

Integral 64Gb solid-state memory, snapshot button, and HD color camera enable better usability.



EyeCGas® CO

EyeCGas® CO is a handheld OGI camera for CO gas leak detection. With this camera you can safely and remotely detect and locate carbon monoxide as well as other harmful gas emissions. Whether these toxic gases are part of the manufacturing process, or a byproduct of the production line, EyeCGas® CO helps increase safety and protect the environment.

Specialized

EyeCGas® CO is an infrared camera specially designed for high sensitivity CO detection for Steel, Chemical and Power Generation market requirements.

Field productivity

EyeCGas® CO allows for routine and on-demand inspections in the steel manufacturing operations and other industries where CO emissions need to be closely monitored. EyeCGas® CO helps you detect and repair toxic gas leaks inside the facility, while maintaining safety.

Powerful but simple

The EyeCGas® CO allows for fast inspection of vast areas with a simple and intuitive user interface.

No more guesswork

The EyeCGas® CO includes a large LCD display and a digital CCD camera for fast recognition of the components being inspected or leaking.

Safety

- UL1604 - Electrical Equipment for Use in Class I & II, Division 2, & Class III (Classified) Locations.
- CSA C22.2 No. 213-M1987 - Non-incendive Electrical Equipment for Use in Class I, Division 2 Hazardous Locations.
- ANSI/ISA-12.12.01 - Non-incendive Electrical Equipment for Use in Class I & II, Division 2 &
- Class III Hazardous (Classified) Locations.
- ATEX II 3G Ex nL IIC T6.



EyeCGas® CO2

With the EyeCGas® CO₂ OGI camera, you can safely and easily locate very small concentrations of CO₂ leaks, whether as a tracer gas used to find leaks during plant and Enhanced Oil Recovery (EOR) machinery inspections, or to verify completed repairs. Save time with fast and accurate detection, and cut operating downtime to a minimum while avoiding fines and lost profits.

Specialized

EyeCGas® CO₂ is an infrared camera specially designed for high sensitivity CO₂ detection for oil & gas, utilities, nuclear energy, and steel market requirements.

Field productivity

Ruggedized and hazardous environment certified, the EyeCGas® CO₂ broadens opportunities for use within the facility limits while maintaining safety, without the need of a "hot work" permit.

Powerful but simple

The EyeCGas® CO₂ allows for fast inspection of vast areas with a simple and intuitive user interface.

No more guesswork

The EyeCGas® CO₂ includes a large LCD display and a digital CCD camera for fast recognition of the components being inspected or leaking.

Safety

- UL1604 - Electrical Equipment for Use in Class I & II, Division 2, & Class III (Classified) Locations.
- CSA C22.2 No. 213-M1987 - Non-incendive Electrical Equipment for Use in Class I, Division 2 Hazardous Locations.
- ANSI/ISA-12.12.01 - Non-incendive Electrical Equipment for Use in Class I & II, Division 2 & Class III Hazardous (Classified) Locations.
- ATEX II 3G Ex nL IIC T6.



EyeCGas® FX

Gas leak detection equipment is vital to keeping your employees, products and environment safe. EyeCGas® FX finds leaks from a safe distance and automatically alerts plant personnel. Building on the success of the handheld EyeCGas® camera, EyeCGas® FX is the next generation automatic camera for installation in factories, as well as offshore platforms and rigs. This highly reliable system responds to the demands of 24/7 monitoring. EyeCGas® FX is specially designed for the natural gas, oil and petrochemical industries.



Automatic Leak Detection

EyeCGas® FX includes a highly sensitive IR camera and an HD color camera for fast recognition of the areas being inspected. The camera allows safe and ongoing monitoring of all areas of the plant, including remote and inaccessible areas. Video can be saved locally (on the camera) or remotely (feed sent to control room).



EyeCGas Mini

A compact, uncooled handheld OGI camera. Available in multiple models for Methane, SF6, Ammonia, HFC Refrigerants and more. This Feature-rich OGI camera revolutionizes the way inspections are held

Cost-Effective
Uncooled technology makes for low maintenance.
Cost-Effective
Uncooled technology makes for low maintenance.
Thermography
Thermographic imaging mode, also in the day camera
Automatic Gas Detection
Detecting gas in real-time overlayed on the visible image

Automatic Gas Detection
Detecting gas in real-time overlayed on the visible image
Multiple Models
Available for Methane, SF6, Ammonia & HFC Refrigerants
User-Friendly Interface
Simple and easy to operate with minimal training.
Connectivity
Wi-Fi, Bluetooth and USB C connectivity



EyeCGas 24/7

Uncooled continuous monitoring OGI camera for Methane leak detection, with automatic alerts via a control room and dedicated EyeCSite Pro software system.

Continues Monitoring
24/7 monitoring with multiple functionalities tailored to each customer.
Pan & Tilt Mounting
Pan & Tilt mounting allows wide coverage and surveillance of multiple area with a single camera.
Gas Leak Detection
Quickly identifies Methane.

Automated Alerts (Software)
Real-time indicators using alarms and visual signal alerts
Smart Software (EyeCSite Pro)
Dedicated management software for logs and statistics.
Versatile Communication (Software)
Modbus/OPC/ONVIF/HART communication..



EyeCGas 24/7 Pro

Cooled continuous monitoring OGI camera for Methane and over 400 VOC's, with automatic alerts via a control room and dedicated EyeCSite Pro software system. Cooled OGI technology enabling detection of small to large leaks from a far distance

Continues Monitoring
24/7 monitoring with multiple functionalities tailored to each customer.
Pan & Tilt Mounting
Pan & Tilt mounting allows wide coverage and surveillance of multiple area with a single camera.
Gas Leak Detection
Quickly identifies Methane.

Wide coverage
Monitor of multiple areas and configurations with a single PT camera from longer distances.
Automated Alerts (Software)
Real-time indicators using alarms and visual signal alerts
Smart Software (EyeCSite Pro)
Dedicated management software for logs and statistics.
Versatile Communication (Software)
Modbus/OPC/ONVIF/HART communication..



EyeCSite

Quantification (QOGI) and Alert software for handled OGI cameras for the oil and gas industry

Quantification
Quantification in leak rate (g/hr) and max concentration (e.g. ppm) values
Realtime & Offline
On-location and remote quantitative measurement of leak rates for Methane and VOC's..
Multiple Compound Quantification
Calibrated to accurately quantify most compounds
Wireless
Easily connect via Wi-Fi to the EyeCGas camera

Plume Coloring
For optimizing of sampling scene and pin pointing leak source.
Logs & Reporting
Quickly pull out reports of your inspections (logs) and review the history of events.
Safe & Rugged
EyeCSite is available in a rugged, portable, powerful and fully certified tablet or laptop.



EyeCSite Pro

Automated video management software for EyeCGas 24/7 Fixed OGI Solutions

Gas Detection
Detection of fugitive gas in a configured Region of Interest (ROI).
Gas Quantification
Quantifies the rate of the fugitive gas leaks into the atmosphere.
Gas Leak Detection
Easily integrate 3rd party lasers for increased quantification accuracy.

Anomalies Detection
Detection of abnormality related to movement or liquids.
Presets & Tour
Configure different presets positions combining them into a singular tour.
Multi-Camera Layout
View multiple cameras connected to the system using different viewing modes.

PART NO.	DESCRIPTION	Vol	0.5LPM Regulator	Demand Flow	with iGas Pressure Switch
18102151	CYL, 25 ppm Ammonia (NH3)	58L	18100883	18102509	18105841
18109081	CYL, 25ppm Ammonia (NH3)	116L	18100883	18102509	18105841
18106658	CYL, 25 ppm Ammonia (NH3)	650L	n/a	n/a	18106740
78103868	CYL, 50 ppm Ammonia (NH3)	58L	18100883	18102509	18105841
18109106	CYL, 50 ppm Ammonia (NH3)	116L	18100883	18102509	18105841
18109392	CYL, 50 ppm Ammonia (NH3)	650L	n/a	n/a	18106740
18102913	CYL, 2.5% Carbon Dioxide (CO2)	103L	18100883	18102509	18105841
18104208	CYL, 5.0% Carbon Dioxide (CO2)	103L	18100883	18102509	18105841
18102163	CYL, 100 ppm Carbon Monoxide (CO)	103L	18100883	18102509	18105841
18103101	CYL, 100 ppm Carbon Monoxide (CO)	552L	18102260	18103549	18105833
18101758	CYL, 10 ppm Chlorine (Cl2)	58L	18100883	18102509	18105841
18109082	CYL, 10 ppm Chlorine (Cl2)	116L	18100883	18102509	18105841
18106955	CYL, 10 ppm Chlorine (Cl2)	650L	18103374	18103556	18105858
18102996	CYL, 500 ppm Hydrogen (H2)	103L	18100883	18102509	18105841
18102154	CYL, 10 ppm Hydrogen Chloride (HCl)	58L	18100883	18102509	18105841
18109088	CYL, 10 ppm Hydrogen Chloride (HCl)	116L	18100883	18102509	18105841
18106963	CYL, 10 ppm Hydrogen Chloride (HCl)	650L	18103374	18103556	18105858
18100859	CYL, 25 ppm Hydrogen Sulfide (H2S)	58L	18100883	18102509	18105841
18109078	CYL, 25 ppm Hydrogen Sulfide (H2S)	116L	18100883	18102509	18105841
18106633	CYL, 25 ppm Hydrogen Sulfide (H2S)	650L	18103374	18103556	18105858
18109132	CYL, 25 ppm Hydrogen Sulfide (H2S)	4,000L	n/a	18103556	18105858
18102152	CYL, 10 ppm Hydrogen Cyanide (HCN)	58L	18100883	18102509	18105841
18109085	CYL, 10 ppm Hydrogen Cyanide (HCN)	116L	18100883	18102509	18105841
18107839	CYL, 10 ppm Hydrogen Cyanide (HCN)	650L	n/a	n/a	18106740
18102939	CYL, 100 ppm Isobutylene	103L	18100883	18102509	18105841
18107375	CYL, 100 ppm Isobutylene	552L	18102260	18103549	18105833
18101378	CYL, 2.5% Methane (CH4)	103L	18100883	18102509	18105841
18104778	CYL, 99% Methane (CH4)	34L	18100883	18102509	18105841
18102153	CYL, 25 ppm Nitric Oxide (NO)	58L	18100883	18102509	18105841
18109091	CYL, 25 ppm Nitric Oxide (NO)	116L	18100883	18102509	18105841
18107722	CYL, 25 ppm Nitric Oxide (NO)	650L	n/a	n/a	18106740
18102219	CYL, 5 ppm Nitrogen Dioxide (NO2)	58L	18100883	18102509	18105841
18109087	CYL, 5 ppm Nitrogen Dioxide (NO2)	116L	18100883	18102509	18105841
18105882	CYL, 5 ppm Nitrogen Dioxide (NO2)	650L	n/a	n/a	18106740
18101477	CYL, 25 ppm Nitrogen Dioxide (NO2)	58L	18100883	18102509	18105841
18109084	CYL, 25 ppm Nitrogen Dioxide (NO2)	116L	18100883	18102509	18105841
18107730	CYL, 25 ppm Nitrogen Dioxide (NO2)	650L	n/a	n/a	18106740
18104059	CYL, 1.0 ppm Phosphine (PH3)	58L	18100883	18102509	18105841
18102222	CYL, 5 ppm Sulfur Dioxide (SO2)	58L	18100883	18102509	18105841
18109086	CYL, 5 ppm Sulfur Dioxide (SO2)	116L	18100883	18102509	18105841
18108126	CYL, 5 ppm Sulfur Dioxide (SO2)	650L	n/a	n/a	18106740
18101220	CYL, 10 ppm Sulfur Dioxide (SO2)	58L	18100883	18102509	18105841
18109079	CYL, 10 ppm Sulfur Dioxide (SO2))	116L	18100883	18102509	18105841
18105817	CYL, 10 ppm Sulfur Dioxide (SO2)	650L	n/a	n/a	18106740
18109414	CYL, 10 ppm Sulfur Dioxide (SO2)	4,000L	n/a	n/a	18106740
18101584	CYL, Zero Grade Air (20.9% Oxygen)	103L	18100883	18102509	18105841
18102320	CYL, Zero Grade Air (20.9% Oxygen)	552L	18102260	18103549	18105833
18109247	CYL, Zero Grade Air (20.9% Oxygen)	4,000L	n/a	18103549	18105833

NOTE: Calibration gas cylinder expiration times vary due to gas type. Please contact Panindochina for detailed information.

Industrial Scientific Calibration Kits come equipped with everything you need to keep your gas monitoring devices operating accurately and reliably. Kits contain certified NIST-traceable (National Institute of Standards & Technology) span gases for safe, reliable instrument calibration. Complete kits are available for all installed sensors and include:

- Convenient carrying case
- Non-refillable cylinders
- Flow regulator



PART NO.	DESCRIPTION	Vol
18102269	KIT, 100 ppm CO, 18% O2, 25% LEL Pentane	103L
18102270	KIT, 100 ppm CO, 19% O2, 2.5% Methane	103L
18109137	KIT, 100 ppm CO, 25 ppm H2S, 18% O2, 25% LEL Pentane	116L
18109139	KIT, 100 ppm CO, 25 ppm H2S, 18% O2, 25% LEL Pentane with Demand Flow Regulator	116L
18109138	KIT, 100 ppm CO, 25 ppm H2S, 18% O2, 2.5% Methane	116L
18103317	KIT, 100 ppm CO, 2.5% CO2, 18% O2, 25% LEL Pentane	103L
18102147	KIT, 25 ppm Ammonia (NH3)	58L
18103275	KIT, 5.0% Carbon Dioxide (CO2)	34L
18102162	KIT, 100 ppm Carbon Monoxide (CO)	103L
18101741	KIT, 10 ppm Chlorine (Cl2)	58L
18102148	KIT, 10 ppm Hydrogen Chloride (HCl)	58L
18102149	KIT, 10 ppm Hydrogen Cyanide (HCN)	58L
18109135	KIT, 25 ppm Hydrogen Sulfide (H2S)	116L
18101303	KIT, 2.5% Methane	34L
18102491	KIT, 99% Methane	34L
18102150	KIT, 25 ppm Nitric Oxide (NO)	58L
18102238	KIT, 5 ppm Nitrogen Dioxide (NO2)	58L
18101469	KIT, 25 ppm Nitrogen Dioxide (NO2)	58L
18101261	KIT, 25% LEL Pentane	34L
18102239	KIT, 5 ppm Sulfur Dioxide (SO2)	58L
18101212	KIT, 10 ppm Sulfur Dioxide (SO2)	58L

Monitoring
Oxygen Levels

With low oxygen being a significant cause of death in confined spaces, it's important that you consistently measure oxygen levels.

The minimum "safe level" of oxygen in a confined space is 19.5%, while the maximum "safe level" of oxygen in a confined space is 23.5%. If a confined space's oxygen concentration surpasses 23.5%, the space is too oxygen-rich and could result in the ignition of combustible gases.

On the other hand, low oxygen levels impair judgment and coordination. Extremely low levels of oxygen cause nausea, vomiting and loss of consciousness.

When oxygen levels are too low, that typically means another gas is displacing it. In these instances, it's important to know what gas is displacing oxygen and why.

Monitoring
Combustible Gases

Gases cannot combust without enough oxygen, so a confined space's oxygen level can give you an idea of the concentration of combustible gases. There are two levels to pay attention to when measuring combustible gases:

Lower Explosive Limit (LEL):
The lowest concentration of a gas in the air that can combust or produce a flame when paired with an ignition source.

Upper Explosive Limit (UEL):
The highest concentration of a gas in the air that can combust or produce a flame when paired with an ignition source.

If a gas concentration is below its LEL, it cannot ignite. If the gas concentration is above its UEL, the gas is too rich and there's not enough oxygen for combustion.

Monitoring Toxic Gases

Multi-gas monitors are frequently configured for carbon monoxide and hydrogen sulfide, but these two gases aren't necessarily the most common in confined spaces.

In fact, because carbon monoxide is the result of incomplete combustion, it's uncommon in most confined spaces unless machinery is used inside.

While both of these gases are extremely toxic, you need to understand the hazardous gases workers are most likely to encounter on your site. Workers may be better protected by monitoring other common gases.

Be sure your teams know the LEL/UEL for the hazards they're likely to encounter, as well as your regulatory agency's exposure limits for different time periods. These exposure limits can vary by jurisdiction, so you should always check with your local regulatory agency

The Best Personal Gas Detectors
for Confined Spaces



Ventis® Pro5 Multi-Gas Monitor

The Ventis Pro5 Multi-Gas Monitor offers flexible sensor options to detect up to five gases. The Ventis Pro5 comes standard with a man-down alarm, panic button, customizable alarm action messages, and LENS® Wireless peer-to-peer connectivity. It is compatible with the Ventis® Slide-On Pump for pre-entry sampling. Optional connectivity features include a wi-fi battery, cellular battery, or dual cellular/-satellite connectivity through the TGX™ Gateway.



Ventis® MX4 Multi-Gas Monitor

The Ventis MX4 is a four-gas monitor with the portability and size of a single-gas monitor. Designed to be extremely rugged yet lightweight and easy to wear, the Ventis MX4 offers reliable gas detection in a small package. It is compatible with the Ventis® Slide-On Pump for pre-entry sampling.



MX6 iBrid Six-Gas Monitor

The MX6 iBrid® is a six-gas monitor that offers hundreds of possible sensor combinations and a robust list of available configuration settings. The MX6 iBrid provides the advanced gas detection you need for sampling and permitting tasks and excels in industries like oil and gas, petrochemicals, and metal production.

Area Monitoring and Live Monitoring
for Confined Spaces



Radius® BZ1 Area Monitor

The Radius BZ1 Area Monitor allows you to monitor up to seven gases simultaneously. Create perimeters or fence lines to monitor leaks or spills and protect safe zones. Know what's happening at a safe distance thanks to LENS Wireless peer-to-peer connectivity, loud and bright alarms, and an extralarge display.



iNet® Now Live Monitoring Software

iNet Now Live Monitoring software provides real-time text and email alerts for gas hazards, panic, and mandown situations, allowing you to see a map of activity and respond to incidents as they occur. iNet Now provides complete visibility into your site, making it easy to manage safety and productivity.

Choosing Your Monitor:
Sensors and Certifications

	Oxygen	Combustibles (LEL or CH4)	VOC	Ammonia	Carbon Dioxide	Carbon Monoxide	Chlorine	Chlorine Dioxide	Hydrogen	Hydrogen Chloride	Hydrogen Cyanide	Hydrogen Sulfide	Nitric Oxide	Nitrogen Dioxide	Phosphine	Sulfur Dioxide	UL	MSHA	CSA/C-UL	Cenelec & Australia
MX6 iBrid	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Ventis Pro	●	●		●	●	●					●	●		●	●	●	●	●	●	●
Ventis MX4	●	●				●						●		●		●	●	●	●	●
Radius BZ1	●	●	●	●		●	●		●		●	●		●		●	●	●	●	●
GasBadge Pro	●			●		●	●	●	●		●	●		●	●	●	●	●	●	●
Tango TX1						●						●		●		●	●		●	

Glossary of Occupational Safety and Health Terms

dB: Decibel – A unit used to measure the relative power of sound. A 3 dB increase in sound output power represents a doubling of the perceptible volume.

eV: Electron Volt – A measurement of energy equal to the amount of energy it takes to move 1 electron through 1 volt of potential.

IDLH: Immediately Dangerous to Life and Health - The maximum concentration of gas (in ppm) from which a worker could escape within 30 minutes with-out experiencing any escape-impairing or irreversible health effects.

LEL/LFL: Lower Explosive Limit/Lower Flammable Limit - The minimum concentration at which a gas will explode. A common unit of measurement is a percent of the LEL

mA: Milliamp - A unit of electric current expressed in amperes.

PEL: Permissible Exposure Limit - Level of gas (in ppm) a worker can be exposed to 8 hours a day/40 hours a week for the rest of their life with no long term health effects.

PID: Photoionization Detector – An instrument that utilizes ultra-violet light energy to ionize and detect the presence of an unknown gas or vapor.

ppm: Part Per Million - A common unit of measurement for toxic gases. This term literally means one part out of one million possible parts.

TLV-STEL: Short Term Exposure Limit - The average amount of gas (in ppm) a worker can be exposed to in a 15 minute period with no long term health effects. This may occur 4 times a shift with one hour between 15 minute exposures.

TLV-TWA: Time Weighted Average - The average amount of gas (in ppm) a worker can be exposed to over a certain time period. This time is defined as 8 hours to represent a normal work day.

TLV: Threshold Limit Value – A term used to signify limits in gas exposure. TLV is used as a prefix for TWA and STEL.

UEL/UFL: Upper Explosive Limit/Upper Flammable Limit – The maximum concentration at which a gas will explode.

VAC: Volts Alternating Current – An electric current that reverses direction at regular intervals.

VDC: Volts Direct Current – An electric current of constant direction.

VOC: Volatile Organic Compound – Any compound containing carbon, except methane, that can be readily vaporized.

Lower Explosive Limits of Combustible Gases

The following are the lower explosive limits of selected gases which should be useful:

Aceton	2.5% of volume	Hydrogen	4.0% of volume
Acetylene	2.5% of volume	Isopropyl Alcohol (Isopropanol)	2.0% of volume
Benzene	1.2% of volume	Methane	5.0% of volume
Butane	1.9% of volume	Methyl Alcohol (Methanol)	6.0% of volume
Butyl Alcohol (Butanol)	1.4% of volume	n-Pentane	1.4% of volume
Diethyl Ether	1.9% of volume	Propane	2.1% of volume
Ethane	3% of volume	Propylene	2.0% of volume
Ethyl Alcohol (Ethanol)	3.3% of volume	Styrene	0.9% of volume
Ethylene	2.7% of volume	Toluene	1.1% of volume
Ethylene Oxide	2.7% of volume	Xylene	1.1% of volume
Hexane	1.1% of volume		

Gas	Low	High	TWA	STEL	Gas	Low	High	TWA	STEL
O ₂	19.5% vol	23.5% vol	N/A	N/A	H ₂	50 ppm	100 ppm	N/A	N/A
CO	35 ppm	70 ppm	35 ppm	200 ppm	NH ₃	25 ppm	50 ppm	25 ppm	35 ppm
H ₂ S	10 ppm	20 ppm	10 ppm	15 ppm	SO ₂	2 ppm	4 ppm	2 ppm	5 ppm
CH ₄	1% vol	1.5% vol	N/A	N/A	PID	100 ppm	200 ppm	N/A	N/A
LEL	10% LEL	20% LEL	N/A	N/A	CO ₂	0.5% vol	1% vol	0.5% vol	3% vol
NO ₂	3 ppm	6 ppm	3 ppm	5 ppm	PH ₃	0.3 ppm	0.6 ppm	0.3 ppm	0.1 ppm

Sensor Cross Interference Table

SENSOR

	Carbon Monoxide	Hydrogen Sulfide	Sulfur Dioxide	Nitrogen Dioxide	Chlorine	Chlorine Dioxide	Hydrogen Cyanide	Hydrogen Chloride	Phosphine	Nitric Oxide	Hydrogen	Ammonia
Carbon Monoxide	100	1	1	0	0	0	0	0	0	0	20	0
Hydrogen Sulfide	5	100	1	-40	-3	-25	10	300	25	10	20	25
Sulfur Dioxide	0	5	100	0	0	0	-	40	-	0	0	-40
Nitrogen Dioxide	-5	-25	-165	100	45	-	-70	-	-	30	0	-10
Chlorine	-10	-20	-25	10	100	60	-20	6	-20	0	0	-50
Chlorine Dioxide	-	-	-	-	20	100	-	-	-	-	-	-
Hydrogen Cyanide	15	10	50	1	0	0	100	35	1	0	30	5
Hydrogen Chloride	3	0	5	0	2	0	0	100	0	15	0	0
Phosphine	-	-	-	-	-	-100	425	300	100	-	-	-
Nitric Oxide	25	1	1	5	5	-	-5	-	-	100	30	0
Hydrogen	22	0.03	0.5	0	0	0	0	0	0	0	100	0
Ammonia	0	0	0	0	-	0	0	0	0	0	0	100
Acetylene	150	<1	15	<1	-	-	-	-	-	<1	-	-

Hazardous Gases Found in Common Industrial Environments

(All values listed are established by HSE unless otherwise noted.)

Ammonia: NH_3

Colorless toxic gas with a pungent suffocating odor.

PEL/TWA: 25.0 ppm STEL: 35.0 ppm
IDLH: 300.0 ppm LEL: 15.0 % of volume

- Fertilizer Plants
- Water and Wastewater Treatment Plants
- Refrigeration Facilities and Cold Storage
- Semiconductor Industry

Carbon Dioxide: CO_2

Colorless, odorless gas.

PEL/TWA: 5,000.0 ppm STEL: 30,000.0 ppm
IDLH: 40,000.0 ppm

- Breweries and Wineries.
- Carbonated Beverage Bottling Plants.
- Food Processing Plants.
- Landfills.

Carbon Monoxide: CO

Colorless, odorless gas – most abundant toxic gas.

OSHA PEL/TWA: 50.0 ppm NIOSH PEL/TWA: 35.0 ppm
STEL: 200.0 ppm IDLH: 1,200.0 ppm

- LEL: 12.5% of volume
- Fire Fighting.
 - Steel Mills.
 - Mining and Minerals.
 - Parking Garages.

Chlorine: Cl_2

Green-yellow gas with a pungent, irritating odor.

PEL/TWA: 0.5 ppm STEL: 1.0 ppm
IDLH: 30.0 ppm

- Pulp and Paper Mills.
- Water Treatment Plants.
- Swimming Pools and Chlorination Plants.
- Nuclear Reactors.

Chlorine Dioxide: ClO_2

Red-yellow or orange-green, irritating odor.

PEL/TWA: 0.1 ppm STEL: 0.3 ppm
IDLH: 5.0 ppm

- Pulp and Paper Mills.
- Wastewater Treatment Plants.

Hydrogen: H_2

Colorless, odorless gas.

PEL/TWA: No limit set by OSHA STEL: N/A
IDLH: No limit set by NIOSH LEL: 4% of volume

Hydrogen Chloride: HCl

Colorless to slight yellow corrosive gas with a pungent, irritating odor.

OSHA PEL/TWA: 5.0 ppm STEL: N/A
LEL: 12.5 % vol IDLH: 50.0 ppm

- Vinyl Production.
- Cotton Production.
- Petroleum and Gas Wells.
- Steel Manufacturing.

Hydrogen Cyanide: HCN

Colorless toxic gas with a bitter, almond-like odor.

OSHA PEL/TWA: 10.0 ppm ACGIH PEL/TWA: 4.7 ppm
STEL: 35.0 ppm IDLH: 50.0 ppm

- LEL: 5.6% of volume
- Gold Plating Industries.
 - Precious Metal Mining and Recovery.
 - Nylon Manufacturing.

Hydrogen Sulfide: H_2S

Colorless toxic gas with a strong odor of rotten eggs.

PEL/TWA: 10.0 ppm STEL: 15.0 ppm
IDLH: 100.0 ppm LEL: 4.0% of volume

- TWA value by the ACGIH: 1 ppm
STEL value by the ACGIH: 5 ppm
- Oil Fields and Refineries.
 - Mining and Metals Industries.
 - Paper Mills and Leather Tanneries.
 - Water Treatment and Sewer Maintenance.

Nitric Oxide: NO

Colorless toxic gas.

PEL/TWA: 25.0 ppm STEL: 5.0 ppm
IDLH: 20.0 ppm

- Diesel Emissions.
- Underground Mining.
- Agriculture – Silos.
- Semiconductor Plants.

Nitrogen Dioxide: NO_2

Reddish-brown toxic gas with a pungent odor.

PEL/TWA: 3.0 ppm STEL: 5.0 ppm
IDLH: 20.0 ppm

- Boilers and Furnaces.
- Diesel Emissions.
- Underground Mining.
- Semiconductor Plants.

Ozone: O_3

Colorless, blue gas with a very pungent odor.

PEL/TWA: 0.1 ppm STEL: 0.3 ppm
IDLH: 5.0 ppm

- Wastewater Treatment Plants.
- Power Generation
- Welding.

Phosphine: PH_3

Colorless gas, garlic-like odor.

PEL/TWA: 0.3 ppm STEL: 1.0 ppm
IDLH: 5.0 ppm LEL: 1.79% vol

- Pesticides-Agricultural Fumigant.
- Doping Agent.

Sulfur Dioxide : SO_2

Colorless toxic gas with a pungent odor.

PEL/TWA: 2.0 ppm STEL: 5.0 ppm
IDLH: 100.0 ppm

- STEL value by the ACGIH: 0.25 ppm
- Pulp and Paper Mills
 - Coal Fired Generation Stations
 - Water Treatment.
 - Circuit Board (Etching) Industry

Volatile Organic Compounds Detected by a PID <10.6 eV

10.6 eV lamp	Dimethylamine	Methyl Bromide	Not Detected by a PID
Acetaldehyde	Dimethylaniline	Methyl Cellosolve Acetate	Acetonitrile
(Acetic acid)	Dimethylformamide	Methyl Ethyl Ketone	Carbon Dioxide
Acetic Anhydride	Dimethylhydrazine	Methyl Hydrazine	Carbon Monoxide
Acetone	Dimethyloacetamide	Methyl Iodide	Ethane
Acrolein	Dimethylphthalate	Methyl Mercaptan	Freons
Acrylamide	Dinitrotoluene	Methyl Methacrylate	Hydrogen
Allyl Alcohol	Dinitro Cresol	Methyl Methacrylate	Hydrogen Bromide
Allyl Chloride	Dinitro Aniline	Methyl Styrene	Hydrogen Chloride
Allyl Glycidyl Ether	Dinitro Benzene	Methylamine	Hydrogen Cyanide
Allyl Propyl Disulfide	Dioxane	Methylcyclohexane	Hydrogen Fluoride
Amino Pyridine	Diphenyl	Methylcyclohexone	Methane
Amyl Acetate	Dipropylene Glycol Methyl Ether	Methylcyclohexanol	Nitric Acid
Aniline	(Epichlorohydrin)	Monomethylaniline	Nitrogen
Benzene	(Ethanol)	Morpholine	Oxygen
Benzyl Chloride	Ethanolamine	Naphthalene	Ozone
Bromoform	Ethoxyethyl Acetate	Naphthylamine	Sulfur Dioxide
Butadiene	Ethyl Acetate	Nitroaniline	Water
Butoxyethanol	Ethyl Acrylate	Nitrobenzene	
Butyl Acetate	Ethyl Amyl Ketone	Nitromethane	
Butyl Alcohol	Ethyl Benzene	Nitrosodimethylamine	
Butyl Mercaptan	Ethyl Bromide	Nitrotoluene	
Butylamine	Ethyl Butyl Ketone	Octane	
Butyl Glycidyl Ether	Ethyl Ether	Pentaborane	
Butyl Toluene	Ethyl Mercaptan	Pentane	
Camphor Vapor	Ethyl Silicate	Pentanone	
Carbon Disulfide	Ethylamine	Perchloroethylene	
Chloroacetaldehyde	Ethylene Dibromide	Phenol	
Chloroacetophenone	Ethylenediamine	Phenyl Ether	
Chlorobenzene	Ethyleneimine	Phenylene Diamine	
Chloromethyl Methyl Ether	Furfural	Phenylhydrazine	
Chloronitropropane	Furfuryl Alcohol	Propyl Acetate	
Chloroprene	Gasoline	Propyl Alcohol	
Chrysene	Glycidol	Propylene Dichloride	
Cresol	Heptane	Propylene Imine	
Crotonaldehyde	Hexane	Propylene Oxide	
Cumene	Hexanone	Pyridine	
Cyclohexane	Hexone	Quinone	
Cyclohexanol	Hexylacetate	Stibine	
Cyclohexanone	Hydroquinone	Stoddard Solvent Vapor	
Cyclohexene	Isoamyl Acetate	Styrene	
Cyclopentadiene	Isobutyl Acetate	Terphenyls	
Di-ethylhexyl Phthalate	Isobutyl Alcohol	Tetrachloroethylene	
Diacetone Alcohol	Isophorone	Tetrachloronaphthelene	
Diazomethane	Isopropyl Acetate	Tetrahydrofuran	
Dibutylphthalate	Isopropyl Alcohol	Tetramethyl Lead	
Dichlorobenzene	Isopropyl Ether	Toluene	
Dichloro Ethyl Ether	Isopropylamine	Toluidine	
Dichloroethylene	Isopropyl Glycidyl Ether	Toner Fluid Vapor	
Dichlorvos	JP 4, 6, 8	Trichloroethylene	
Diesel	Ketene	Triethylamine	
Diethylamino Ethanol	Mesityl Oxide	Turpentine Vapor	
Diethylamine	Methyl Acetate	Vinyl Chloride	
Diglycidyl Ether	Methyl Acetylene	Vinyl Toluene	
Diisobutyl Ketone	Methyl Acrylate	White Spirit	
Diisopropylaniline	Methyl Amyl Ketone	Xylene	



Sampling Probes

Industrial Scientific sampling probes are available in many sizes and types to best fit the needs of most any remote sampling requirement. Probes are used in conjunction with Industrial Scientific sampling pumps or instruments with internal pumps.

Part Number		Description
18102111	(f)	4.5-Ft. Polycarbonate Probe w/ Tubing
18101428	(g)	4-Ft. Polycarbonate Probe w/ Tubing
18101386	(m)	6-Ft. Extendible Stainless Steel Probe
18102306	(i)	3' Stainless Steel Bar Hole Probe w/Filter
18102309	(h)	1.5-Ft. Polycarbonate Probe w/Filter
18102276	(j)	1.5-Ft. Stainless Steel Flue Gas Probe w/ Filter (to 1,500°F)
18102246	(k)	3-Ft. Extendible Probe w/ Teflon Tubing Insert
18103309		Aluminum Coiled Probe (800-900°F) (not pictured)
18104299	(l)	3-Ft. Polycarbonate Probe w/ High Capacity Filter
18105239		ATX 90° Quick Disconnect Probe Kit (not pictured)

Sample Tubing Kits

The universal urethane sample tubing kit is for use with all gases EXCEPT: Cl₂, ClO₂, HCl, and Volatile Organic Compounds (VOCs, measured using the MX6 PID sensor). This tubing kit will be offered in specific lengths of 10, 20, 30, 40, 50, 60, 70, 80, 90, and 100 feet. Below are the part numbers and descriptions for the 10 available versions of this universal urethane sample tubing kit.



Universal Urethane Sample Tubing Kit

Part Number		Description
18109207-10		Universal Urethane Sample Tubing Kit with Dust Filter/Water Stop, 10 ft/3 m length
18109207-20		Universal Urethane Sample Tubing Kit with Dust Filter/Water Stop, 20 ft/6.1 m length
18109207-30		Universal Urethane Sample Tubing Kit with Dust Filter/Water Stop, 30 ft/9. m length
18109207-40		Universal Urethane Sample Tubing Kit with Dust Filter/Water Stop, 40 ft/12.2 m length
18109207-50		Universal Urethane Sample Tubing Kit with Dust Filter/Water Stop, 50 ft/15.2 m length
18109207-60		Universal Urethane Sample Tubing Kit with Dust Filter/Water Stop, 60 ft/18.3 m length
18109207-70		Universal Urethane Sample Tubing Kit with Dust Filter/Water Stop, 70 ft/21.3 m length
18109207-80		Universal Urethane Sample Tubing Kit with Dust Filter/Water Stop, 80 ft/24.4 m length
18109207-90		Universal Urethane Sample Tubing Kit with Dust Filter/Water Stop, 90 ft/27.4 m length
18109207-100		Universal Urethane Sample Tubing Kit with Dust Filter/Water Stop, 100 ft/30.5 m length

Universal Teflon Lined Sample Tubing Kit

The universal Teflon lined sample tubing kit is primarily for use with specific exotic gases that are susceptible to being absorbed by certain types of tubing. These exotic gases include: Cl₂, ClO₂, HCl, and Volatile Organic Compounds (VOCs, measured using the MX6 PID sensor). While this Teflon lined tubing kit is primarily for use with these exotic gases, it may be used to take samples of any gas.

If you are unsure of the gases that your sample tubing will be used with, it is recommended that you use this tubing. Teflon lined tubing offers excellent instrument response and resistance to gas absorption, but may be difficult to attach to the pump inlet or attach filters to if the proper fittings are not available. For this reason, Industrial Scientific does not recommend using bulk Teflon lined tubing. Rather, the ISC Teflon lined tubing kits include small sections of urethane tubing at each end so the tubing can easily be attached to the pump inlet and the dust filter/water stop. The kits will be offered in specific lengths of 10, 20, 30, 40, 50, 60, 70, 80, 90, and 100 feet. Below are the part numbers and descriptions for the 10 available versions of this universal Teflon lined sample tubing kit.

Part Number	Description
18109206-10	Universal Teflon Lined Sample Tubing Kit with Dust Filter/Water Stop, 10 ft/3 m length
18109206-20	Universal Teflon Lined Sample Tubing Kit with Dust Filter/Water Stop, 20 ft/6.1 m length
18109206-30	Universal Teflon Lined Sample Tubing Kit with Dust Filter/Water Stop, 30 ft/9.1 m length
18109206-40	Universal Teflon Lined Sample Tubing Kit with Dust Filter/Water Stop, 40 ft/12.2 m length
18109206-50	Universal Teflon Lined Sample Tubing Kit with Dust Filter/Water Stop, 50 ft/15.2 m length
18109206-60	Universal Teflon Lined Sample Tubing Kit with Dust Filter/Water Stop, 60 ft/18.3 m length
18109206-70	Universal Teflon Lined Sample Tubing Kit with Dust Filter/Water Stop, 70 ft/21.3 m length
18109206-80	Universal Teflon Lined Sample Tubing Kit with Dust Filter/Water Stop, 80 ft/24.4 m length
18109206-90	Universal Teflon Lined Sample Tubing Kit with Dust Filter/Water Stop, 90 ft/27.4 m length
18109206-100	Universal Teflon Lined Sample Tubing Kit with Dust Filter/Water Stop, 100 ft/30.52 m length

Regulators

Regulators provide the proper flow rate for calibrating your Industrial Scientific instrument. Always make certain to use the appropriate regulator for the application as recommended in the Instruction Manual.



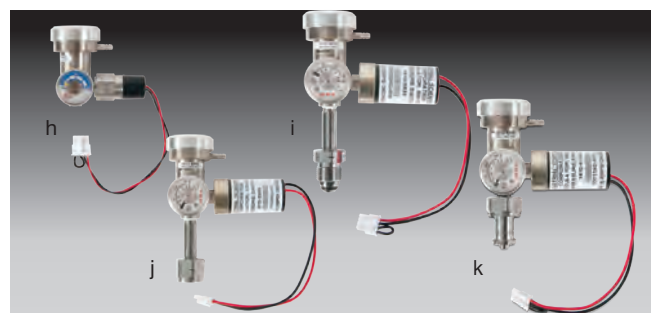
- a. 18100933 - 34 L Regulator (1/2 L/min flow)
- b. 18102509 - 58/103 L Demand Flow Regulator
- c. 18103564 - 34 L Demand Flow Regulator
- d. 18102260 - 552 L Regulator (1/2 L/min flow)
- e. 18100883 - 58/103 L Regulator (1/2 L/min flow)
- f. 18102155 - 58/103 L Ammonia Regulator
- g. 18103580 - 58/103 L Bump Test Regulator



MX6 iBrid DSX Docking Station shown (l) 18105924 - 5-port Clamp-on Gas Manifold with a Demand Flow Regulator (18105841) and cylinder connected to an iGas® Reader (18105684).

Regulators

Part No.	Description
18100933	(a) 34L Regulator (1/2L/min flow)
18102509	(b) 58/103L Demand Flow Regulator (and 34L Aluminum Cylinders)
18103564	(c) 34L Demand Flow Regulator, CGA 600
18103549	552L Demand Flow Regulator, CGA 590
18103556	650L Demand Flow Regulator, CGA 330
18104158	Demand Flow Regulator, CGA 660
18106708	Demand Flow Regulator, CGA 705
18102260	(d) 552L Regulator (1/2 L/min flow), CGA 590
18100883	(e) 58/103L Regulator (and 34L Aluminum Cylinders) (1/2 L/min flow)
18102155	(f) 58/103L Ammonia Regulator (1 L/min flow)
18103580	(g) 58/103L Bump Test Regulator w/Trigger
18103374	650L Regulator (1/2L/min flow), CGA 330
18104695	Regulator w/Bump Test Trigger, CGA 330
18104356	Regulator w/Bump Test Trigger, CGA 590
18105924	5-Port Clamp-on Gas Manifold



- h. 18105841 - 58/103/34L Demand Flow Regulator w/iGas Pressure Switch
- i. 18105833 - 552L Demand Flow Regulator, 590 CGA w/iGas Pressure Switch
- j. 18105858 - 650L Demand Flow Regulator, 330 CGA w/iGas Pressure Switch
- k. 18106740 - Demand Flow Regulator, 660 CGA w/iGas Pressure Switch

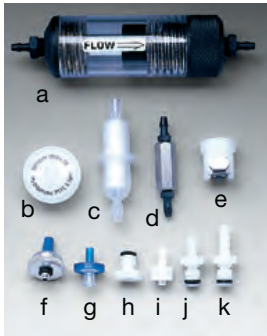


(l) 18105924 - 5-port Clamp-on Gas Manifold

Demand Flow Regulators

Part No.	Description
18105841	(h) 58/103/34L Demand Flow Regulator w/iGas 150 PSI Pressure Switch
18109244	(h) 58/103/34L Demand Flow Regulator w/iGas 250 PSI Pressure Switch
18105866	34L Demand Flow Regulator, 600 CGA w/iGas 150 PSI Pressure Switch
18109243	34L Demand Flow Regulator, 600 CGA w/iGas 250 PSI Pressure Switch
18105833	(i) 552L Demand Flow Regulator, 590 CGA w/iGas 200 PSI Pressure Switch
18109241	(i) 552L Demand Flow Regulator, 590 CGA w/iGas 500 PSI Pressure Switch
18105858	(j) 650L Demand Flow Regulator, 330 CGA w/iGas 200 PSI Pressure Switch
18109242	(j) 650L Demand Flow Regulator, 330 CGA w/iGas 500 PSI Pressure Switch
18106740	(k) Demand Flow Regulator, 660 CGA w/iGas 200 PSI Pressure Switch
18109246	(k) Demand Flow Regulator, 660 CGA w/iGas 500 PSI Pressure Switch
18106757	Demand Flow Regulator, 705 CGA w/iGas Pressure Switch
18101766	58/103L Regulator (1 L/min flow)

Remote sampling allows employees to assess air samples from an unknown and potentially toxic or combustible atmosphere using a pumped gas monitor before they enter the area. Adequate air flow is critical for proper remote sampling. All filters should be replaced when dirt or water inhibits air flow. Quick disconnect fittings allow easy connection to secure tubing to sampling pumps.



- Additional Remote Sampling Equipment:
- a. Inline High Capacity Water Stop
 - b. Dust Filter/WaterStop for Docking Station Fresh Air Inlet
 - c. Inline Dust Filter for iSP/ SP402/SP202/SP100 Pumps
 - d. Dilution Tube
 - e. Quick Disconnect Fitting, Female
 - f. Replacement Filters (Package of 5)
 - g. Internal Dust Filter/WaterStop for MX6/ATX Series
 - h. Quick Disconnect Fitting, Male, Threaded
 - i. Luer Fitting, Male, 1/8 in or 3/16 in Barb
 - j. Quick Disconnect Fitting, Male, 1/8 in Barb
 - k. Quick Disconnect Fitting, Male, 3/16 in Barb



- l. 17037961 – Carrying Case for 2 Cylinders (58 L)
- m. 17124348 – Wall/Desk Mount Cylinder Holder for use with 34, 58, 116, and 552 liter cylinders (cylinder not included)

Additional Remote Sampling Equipment

Part No.	Description
18102277	(a) Inline High Capacity Water Stop
17057803	Replacement Gortex Filter Insert for 18102277
17027152	(b) White Disc Filter
18109558	(b) White Disc Filter (pack of 10)
17050908	(c) Inline Dust Filter 10 micron, with adaptors for MX6 iBrid Ventis, VSP pumps
17041740	(d) Dilution Tube (for use with Sampling Pumps)
17050688	(e) Quick Disconnect Fitting, Female
17024597	(f) Replacement Filter for 6' Extendible Probe
18109559	(f) Replacement Filters for 6' Extendible Probe (Pack of 5)
17058157	(g) Internal Dust Filter/WaterStop for MX6 iBrid
17051611	(h) Quick Disconnect Fitting, Male, Threaded
17048273	(i) Luer Fitting, Male, 3.175 mm (1/
17050698	(i) Luer Fitting, Male, 3.175 mm (1/8 in) Barb
17050689	(j) Quick Disconnect Fitting, Male, 3.175 mm (1/8 in) Barb
17050775	(k) Quick Disconnect Fitting, Male, 4.7625 mm (3/16 in) Barb
17051319	Dust Filter/WaterStop for Docking Station Fresh Air Inlet
17051701	Replacement Probe Fitting for 18101386
17136540	SP6 Filter Cap (used with 18105155-X)
17152395	Internal Dust Filter/Water Stop for Ventis Slide-on Pump
17068099	3/16" To 1/8" Reducer
17129909	MX6 iBrid/Ventis Filter cap

Universal Urethane Sample Tubing Kit With Dust Filter/Water Stop

Part No.	Length	Part No.	Length
18109207-10	3 m/10 ft	18109207-60	18.3 m/60 ft
18109207-20	6.1 m/20 ft	18109207-70	21.3 m/70 ft
18109207-30	9.1 m/30 ft	18109207-80	24.4 m/80 ft
18109207-40	12.2 m/40 ft	18109207-90	27.4 m/90 ft
18109207-50	15.2 m/50 ft	18109207-100	30.5 m/100 ft

NOTE: Not for use with Cl₂, ClO₂, HCl, or PID Sensors

Universal Teflon Lined Sample Tubing Kit With Dust Filter/Water Stop

Part No.	Length	Part No.	Length
18109206-10	3 m / 10 ft	18109206-60	18.3 m / 60 ft
18109206-20	6.1 m / 20 ft	18109206-70	21.3 m / 70 ft
18109206-30	9.1 m / 30 ft	18109206-80	24.4 m / 80 ft
18109206-40	12.2 m / 40 ft	18109206-90	27.4 m / 90 ft
18109206-50	15.2 m / 50 ft	18109206-100	30.5 m / 100 ft

NOTE: For use with all sensors

Probe Tubing Kits - for use with 18101386 probe

18108043	Probe Tubing Kit for MX6 iBrid/Ventis – Urethane (Not for use with Cl ₂ , ClO ₂ , HCl, or PID sensors)
18108093	Probe Tubing Kit for MX6 iBrid/Ventis – Teflon lined (For use with all sensors)

BUMP-N-GO™

Bump Test Where The Work Is

Bump testing gas detectors before each day's use is the only way to be sure that the sensors respond to gas. But if your team works on the go, they might not have access to a docking station or calibration gas to check their monitors. By the time they enter hazardous areas, they may not even realize something is wrong with the monitor, until it is too late. Your team needs a solution that goes where the work is, so they can test their gas detectors regardless of location.

Introducing the Ultra-Portable Bump-N-Go™

- Bump test anytime, anywhere with the pocket-sized gas cylinder.
- Get 250 bumps out of one bottle, at a lower cost-per-bump, thanks to a pushbutton regulator that eliminates wasted gas.
- Enjoy lower shipping costs because there are no hazardous material fees for ground shipments
- Save time and money by ordering the six-pack option.



INDIVIDUAL CYLINDERS

Part No.	Description
18109566	Bump-N-Go Cylinder, 100 ppm CO
18109567	Bump-N-Go Cylinder, 40 ppm H ₂ S
18109568	Bump-N-Go Cylinder, 100 ppm CO, 75 ppm H ₂ S, 15% O ₂ , 25% LEL (Methane)

SIX-PACK CYLINDERS

18109579	Bump-N-Go Cylinder, 6-pack, 100 ppm CO
18109578	Bump-N-Go Cylinder, 6-pack, 40 ppm H ₂ S
18109577	Bump-N-Go Cylinder, 6-pack, 100 ppm CO, 75 ppm H ₂ S, 15% O ₂ , 25% LEL (Methane)

REGULATOR

18109565	Pushbutton regulator for use with Bump-N-Go Cylinders
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Calibration gas ensures that your gas detector is functioning properly and responding to gas exposures as expected. Gas detection equipment should be calibrated monthly to ensure the sensors in your gas detector are functioning properly. All Industrial Scientific calibration cylinders are manufactured to the highest quality standards and include NIST-traceable blend techniques, analytical leak testing of every cylinder, certified component concentrations, and clearly marked lot numbers and expiration dates. Replacement cylinders are available in a variety of sizes and concentrations for all gases detected by Industrial Scientific instruments.



DEMAND FLOW
REGULATORS

PART NO.	DESCRIPTION	Vol	0.5LPM Regulator	Demand Flow	with iGas Pressure Switch
18105825	CYL, 200 ppm CO, 75 ppm H ₂ S, 15% O ₂ , 25% LEL Methane (For bump testing only)	11L	18100883	18102509	18105841
18109173	CYL, 18% O ₂ , 25% LEL Pentane	103L	18100883	18102509	18105841
18109174	CYL, 100 ppm CO, 18% O ₂ , 2.5% Methane	103L	18100883	18102509	18105841
18109187	CYL, 100 ppm CO, 18% O ₂ , 2.5% Methane	552L	18102260	18103549	18105833
18109199	CYL, 100 ppm CO, 18% O ₂ , 2.5% Methane	4,000L	n/a	18103556	18105858
18109165	CYL, 100 ppm CO, 18% O ₂ , 25% LEL Pentane	103L	18100883	18102509	18105841
18109161	CYL, 100 ppm CO, 18% O ₂ , 25% LEL Pentane	552L	18102260	18103549	18105833
18109156	CYL, 100 ppm CO, 25 ppm H ₂ S, 18% O ₂ , 2.5% Methane	58L	18100883	18102509	18105841
18109158	CYL, 100 ppm CO, 25 ppm H ₂ S, 18% O ₂ , 2.5% Methane	116L	18100883	18102509	18105841
18109160	CYL, 100 ppm CO, 25 ppm H ₂ S, 18% O ₂ , 2.5% Methane	650L	18103374	18103556	18105858
18109198	CYL, 100 ppm CO, 25 ppm H ₂ S, 18% O ₂ , 50% LEL Methane	4,000L	n/a	18103556	18105858
18109155	CYL, 100 ppm CO, 25 ppm H ₂ S, 18% O ₂ , 25% LEL Pentane	58L	18100883	18102509	18105841
18109157	CYL, 100 ppm CO, 25 ppm H ₂ S, 18% O ₂ , 25% LEL Pentane	116L	18100883	18102509	18105841
18109159	CYL, 100 ppm CO, 25 ppm H ₂ S, 18% O ₂ , 25% LEL Pentane	650L	18103374	18103556	18105858
18109194	CYL, 100 ppm CO, 25 ppm H ₂ S, 18% O ₂ , 25% LEL Pentane	4,000L	n/a	18103556	18105858
18109176	CYL, 100 ppm CO, 2.5% CO ₂ , 18% O ₂ , 25% LEL Pentane	103L	18100883	18102509	18105841
18109186	CYL, 100 ppm CO, 2.5% CO ₂ , 18% O ₂ , 25% LEL Pentane	552L	18102260	18103549	18105833
18109269	CYL, 250 ppm CO, 2.5% CO ₂ , 18% O ₂ , 50% LEL Methane	103L	18100883	18102509	18105841
18109251	CYL, 100 ppm CO, 25 ppm H ₂ S, 2.5% CO ₂ , 18% O ₂ , 2.0% (40% LEL) Methane	116L	18100883	18102509	18105841
18109363	CYL, 100 ppm CO, 25 ppm H ₂ S, 2.5% CO ₂ , 18% O ₂ , 2.0% (40% LEL) Methane	650L	18103374	18103556	18105858
18109250	CYL, 100 ppm CO, 25 ppm H ₂ S, 2.5% CO ₂ , 18% O ₂ , 25% LEL Pentane	116L	18100883	18102509	18105841
18109362	CYL, 100 ppm CO, 25 ppm H ₂ S, 2.5% CO ₂ , 18% O ₂ , 25% LEL Pentane	650L	18103374	18103556	18105858
18109236	CYL, 100 ppm CO, 5 ppm NO ₂ , 18% O ₂ , 25% LEL Pentane	116L	18100883	18102509	18105841
18109235	CYL, 100 ppm CO, 5 ppm NO ₂ , 18% O ₂ , 25% LEL Pentane	650L	n/a	n/a	18106740
18109184	CYL, 100 ppm CO, 5 ppm NO ₂ , 18% O ₂ , 2.5% Methane	58L	18100883	18102509	18105841
18109324	CYL, 5 ppm SO ₂ , 18% O ₂ , 2.5% Methane	116L	18100883	18102509	18105841



Automatic Calibration Gas Replenishment Program

By joining the Auto Replenishment Program, you ensure that you and your team are never without calibration gas and therefore never without a properly calibrated instrument. For those who register for the program, a new cylinder of gas will automatically be sent when iNet Control detects a low gas cylinder.

NOTE: Calibration gas cylinder expiration times vary due to gas type. Please contact Panindochina for detailed information.

SELF CONTAINED BREATHING APPARATUS (SCBA)

ProPak-fx-EZ-Flo



The 3M™ Scott™ ProPak-fx EZ-Flo is a Type 2 open circuit, self-contained, compressed air breathing apparatus. It consists of a back plate, padded carrying harness and pneumatic system, containing a cylinder connector, reducer, pressure gauge, whistle and demand valve.

Performs in the toughest environments.

The 3M™ Scott™ ProPak-EZ-Flo utilises the proven EZ-Flo Demand Valve, as seen on the 3M Scott AirPak™ SCBA. ProPak-EZ-Flo enables the use of AV-3000 HT which features connections to advanced communications and situational awareness devices. ProPak-EZ-Flo is available in standard and CBRN variants, for protection in the toughest environments.



Features:

Adjustable padded shoulder straps

Reflective thread for visibility

Kevlar® blend webbing with wrap-around harness

Adjustable waistband features large buckles for quick and easy donning and doffing

Rapid connect cylinder band allows adjustment or change out of cylinder in seconds

Ergonomically designed, strong and lightweight injection moulded back plate

Adjustable back plate allows the unit to be altered to the users height increasing user comfort (ProPak fx only)

Swivelling waistbelt (ProPak fx only)

Specifications:

Weight/Dimensions:

Weight:

Single configuration without facemask (less cylinder)
ProPak-fx EZ-Flo 3.55kg and ProPak-f EZ-Flo 3.75kg
Single configuration and facemask (less cylinder)
ProPak-fx EZ-Flo 4.30kg and ProPak-f EZ-Flo 4.5kg

Length:

630mm

Width:

285mm

Depth:

220mm

Self Contained Breathing Apparatus



Sigma 2 Type 2 (V2)

Approved to EN137:2006 Type 2, the Scott Sigma 2 Type 2 Self Contained Breathing Apparatus combines the highest level of respiratory protection in a simple to operate, cost effective piece of equipment that meets the needs of Industrial and Marine firefighters. Sigma 2 Type 2's proven durability, reliability and appeal is confirmed by an extensive user base who demand a combination of maximum performance and true operational simplicity.

- Proven high performance pneumatic system.
- Compact first breath activated demand valve with bypass.
- Ergonomically designed lightweight backplate and type 2 harness.
- Kevlar blend flame retardant webbing with Kevlar cylinder band.
- Wide choice of facemasks from the Vision 3, Promask PP and Panaseal ranges.
- Corrosion resistant Nickel plated components.
- Simple operation for users.
- All components are user serviceable, low cost and easy to maintain.
- Will accept wide range of 200 and 300 bar cylinders.

Approved to EN137:2006 Type 2, MED.

Specifications:

Weight/Dimensions:

Weight:	Single configuration (less cylinder) 2.3kg Single configuration and facemask (less cylinder) 2.9kg
Length:	600mm
Width:	278mm
Depth:	(with 6.8 litre 300 bar cylinder) 200mm



ProPak-f (V2)

The 3M™ Scott™ ProPak-f is designed for use by the fire service or as a fire fighting set in the oil and gas or industrial markets with added padding for improved comfort. The entire 3M™ Scott™ ProPak range has been approved to EN 137:2006 Type 2, incorporating the stringent Full Flame Engulfment Test, and to the latest amendment of the MED.

- EN 137:2006 Type 2, MED Approved Breathing Apparatus
- Designed for use by the fire service or as a fire fighting set in the oil and gas or industrial markets
- Rigid backframe construction
- No tools required to remove pneumatics
- Simple to service and maintain
- Upper and lower harness padding for improved comfort
- Available with the AV-3000 HT facepiece and EZ-Flo demand valve

Specifications:

Weight/Dimensions:

Weight:	Single configuration (less cylinder) 2.3kg Single configuration and facemask (less cylinder) 2.9kg
Length:	600mm
Width:	278mm
Depth:	(with 6.8 litre 300 bar cylinder) 200mm



ProPak Sigma (V2)

The 3M™ Scott™ ProPak Sigma has been designed for use as a compliance set in marine or industrial fire fighting environments as a cost-effective solution with minimal padding. The entire 3M™ Scott™ ProPak range has been approved to EN 137:2006 Type 2, incorporating the stringent full flame engulfment test and the MED.

- EN 137:2006 Type 2 MED approved breathing apparatus
- Compliance set for marine or industrial fire fighting environments
- Rigid backframe construction
- No tools required to remove pneumatics
- Simple to service and maintain
- Webbing upper and lower harness to allow for ease in cleaning

Specifications:

Weight/Dimensions:

Weight:	Single configuration (less cylinder) 2.6kg Single configuration and facemask (less cylinder) 3.2kg
Length:	630mm
Width:	285mm
Depth:	(with 6.8 litre 300 bar cylinder) 215 mm



ProPak-fx (V2)

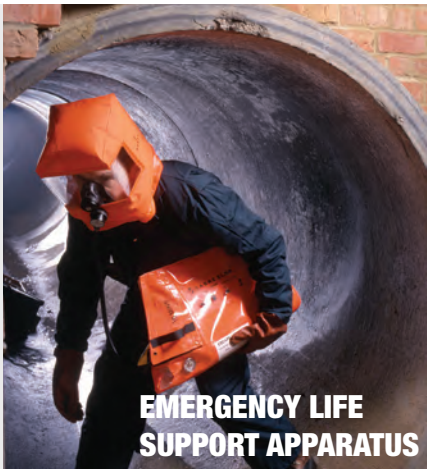
The 3M™ Scott™ ProPak-fx SCBA has been designed specifically to meet the demands of the fire service offering performance and user comfort through the adjustable backplate. The entire 3M™ Scott™ ProPak range has been approved to EN 137:2006 Type 2, incorporating the stringent Full Flame Engulfment Test and MED.

- EN 137:2006 Type 2 MED approved breathing apparatus
- Designed specifically for use by the fire service
- Rigid backframe construction with adjustable backplate
- No tools required to remove pneumatics
- Simple to service and maintain
- Padded upper and lower harness with an articulating and height adjustable waist pad for the ultimate in user comfort

Specifications:

Weight/Dimensions:

Weight:	Single configuration (less cylinder) 2.6kg Single configuration and facemask (less cylinder) 3.2kg
Length:	630mm
Width:	285mm
Depth:	(with 6.8 litre 300 bar cylinder) 215 mm



EMERGENCY LIFE SUPPORT APPARATUS

ELSA-15-B

The 3M™ Scott™ ELSA (Emergency Life Support Apparatus) is designed for rapid escape from hazardous industrial and marine environments.

Emergency Life Support Apparatus is a concept originally pioneered by 3M™ Scott™ Fire & Safety under its Sabre Breathing Apparatus brand and the original design principles continue to this day.

Designed to be simple and quick to operate, reliable and robust in use and performs to the European Standard EN 1146:2005.

- Breathing apparatus provides a constant supply of air for quick escape from hazardous industrial and marine environments
- Automatic quick-fire activation triggered by opening the carrying bag
- Cubic hood design with large visor area and ori-nasal mask for reduced carbon dioxide dead space
- Designed for reliability, robustness and ease of use for maximum protection in an escape situation



Specifications:

Weight/Dimensions (with steel cylinder)

15 minute bag version

Weight:	5.6kg
Length:	520mm
Width:	340mm
Depth:	135mm

POSITIVE PRESSURE FACEMASKS FOR SCBA & AIRLINE



AV-3000 HT

The AV-3000 HT is a high performance facemask, manufactured using innovative materials which have been engineered to provide enhanced thermal durability and improved wearer safety in the most extreme conditions.

The face seal utilises proven SureSeal technology for maximum comfort, the dual seal provides a secure fit, the Kevlar® head harness reduces discomfort under helmets and the large visor provides excellent vision.

Dual speech diaphragms offer voice transmission around the wearer, with optional right or left Epic Communications bracket for maximum versatility

- Approved to EN 136 Class 3, * BS 8468-1 and BS 8468-2
- High performance lens and bezel for improved thermal performance
- High temperature visor
- Right or left Epic Communications bracket for maximum user choice
- Speech diaphragm on both sides for improved voice transmission
- Kevlar® or rubber head harness suitable for fire or industrial applications, including CBRN environments
- Anti-fog coating on lens to reduce fogging
- Thermal performance passes EN 137 flame engulfment as well as NFPA thermal radiant heat requirement of 15 kW/m²
- Available in 3 sizes

Approvals:

CE marked in accordance with EN 136:1998 Class 3

CE marked in accordance with EN 137:2006 Type 2 when used in conjunction with 3M Scott ProPak SCBA

BS8468-1 when used in conjunction with 3M Scott ProPak-EZ-Flo CBRN SCBA

AS/NZS 1716:2012

BMP 540244



Vision 3

- Positive-pressure face masks with a liquid silicone rubber outer mask with reflex seal and TPE ori-nasal inner mask
- Designed for use with the entire range of 3M™ Scott™ breathing apparatus
- Multicurvature polycarbonate visor provides excellent panoramic vision
- Allows the user to wear integrated spectacle frames without compromising the face mask seal.

The Vision 3 face masks are designed to be used with the 3M Scott range of breathing apparatus, from the Professional Fire Fighting SCBA to the Airline and escape breathing apparatus range. The multicurvature face mask visor provides excellent panoramic vision and is made of a scratch- and impact-resistant polycarbonate material with a scratch resistant coating. The face mask allows the user to wear integrated spectacle frames without compromising the face mask seal. The face mask features a left-hand side bayonet connection for the demand valve. A speech diaphragm is mounted at the front of the mask to offer unimpeded speech transmission and includes a low-resistance positive-pressure exhalation valve to allow for normal breathing when used in positive pressure mode. CE marked in accordance with EN 136:1998 Class III. CE marked in accordance with EN 137:2006 Type II when used in conjunction with approved 3M Scott SCBA. CE marked in accordance with EN 14593-1 when used with 3M™ Scott™ airline equipment. AS1716/NZ.

Approvals:

CE marked in accordance with EN 136:1998 Class III

CE marked in accordance with EN 137:2006 Type II when used in conjunction with approved 3M Scott SCBA

CE marked in accordance with EN 14593 when used with 3M™ Scott™ airline equipment

AS1716/NZ



Promask

- Positive-pressure face masks with Procomp (bromobutyl/EPDM) outer mask with reflex seal and TPE ori-nasal inner mask
- Designed for use with the entire range of 3M™ Scott™ breathing apparatus
- Single-curvature polycarbonate visor provides excellent panoramic vision
- Allows the user to wear integrated spectacle frames without compromising the face mask seal.

Promask face masks are designed to be used with the 3M Scott range of breathing apparatus, from the Professional Fire Fighting SCBA to the Airline and escape breathing apparatus range. The single-curvature face mask visor provides excellent panoramic vision and is made of a scratch- and impact-resistant polycarbonate material with a flame-retardant coating. The face mask allows the user to wear integrated spectacle frames without compromising the face mask seal. The face mask features a left-hand side bayonet connection for the demand valve. Option for additional right-hand quick-fit port or ECB to take a communications interface. A speech diaphragm is mounted at the front of the mask to offer unimpeded speech transmission and includes a low-resistance positive-pressure exhalation valve to allow for normal breathing. CE marked in accordance with EN 136:1998 Class III. CE marked in accordance with EN 137:2006 Type II when used in conjunction with 3M™ Scott™ Propak. CE marked in accordance with EN 14593-1:2005 when used with 3M™ Scott™ airline equipment.

Approvals:

CE marked in accordance with EN 136:1998 Class III

CE marked in accordance with EN 137:2006 Type II when used in conjunction with 3M™ Scott™ Propak

CE marked in accordance with EN 14593:2005 when used with 3M™ Scott™ airline equipment



EPIC 3 RDI Voice Communication System

The 3M™ Scott™ EPIC 3 RDI Voice Communication System enhances SCBA facepiece voice intelligibility and delivers clear two-way radio communications when operated with compatible handheld field radios and remote speaker microphones.

Compatible with all 3M™ Scott™ AV-series facepieces and Air-Pak SCBA, the EPIC 3 RDI provides 3M™ Scott™ customers with the safety and operational benefits of enhanced tactical voice communications while extending the value of their SCBA and personal protection equipment.

- Clear communication when and where you need it
- Operates with compatible handheld field radios and remote speaker microphones
- Works with a broad range of 3M Scott SCBA and PPE equipment
- Multi-purpose utility consolidates devices while reducing costs
- User friendly operation and ergonomics
- Durable, reliable purpose-built design with high-heat rated construction
- Easy and flexible device configuration



EPIC 3 Voice Amplifier

Effective communication is essential for first responders, who often face life-threatening scenarios. Developed in response to the needs voiced by fire fighters and other emergency workers, the 3M™ Scott™ EPIC 3 Voice Amplifier offers first responders wearing respiratory protection equipment reliable, hands-free, person-to-person communications.

The EPIC 3 Voice Amplifier provides a dependable, easy-to-use means of voice communications with added features such as auto shut-off and directional speaker. When communication is critical, connect with 3M™ Scott™ EPIC communications products.

- Voice amplifier apparatus provides a reliable way for hands-free, person-to-person, voice communication in life-threatening situations
- Features high-sensitivity microphone with auto gain control and breath detection technology, as well as custom directional speaker with auto-shut off
- Designed for durability with temperature resistance as high as 1000 degrees Fahrenheit/520 degrees Celsius
- Withstands six-foot drops on all sides (version 1.8 meters)



EPIC 3 RI Voice Communication System

Communicate clearly and effectively on the fireground and easily switch from non-tactical to tactical communications with the EPIC 3 Radio Interface (RI) Voice Communication System. We developed the EPIC 3 RI system to address the changing communication needs of firefighters and emergency personnel. The lack of clear fire scene voice communications is a leading concern for fireground situational awareness and safety. Working closely with first responders around the world, 3M Scott developed the EPIC 3 RI Voice Communication System — voice amplifiers, lapel speaker microphones, specialized accessories, and programming utilities — to meet the demanding needs and conditions while complimenting the performance and safety benefits of 3M Scott SCBA and personal protective equipment (PPE).

- Enhances SCBA facepiece voice communication intelligibility and loudness
- Advances safety through easy-to-use wireless communication interoperability with mobile field radios
- Provides easy transition from non-tactical to tactical communication modes
- Ensures operational compatibility with both legacy and new Scott SCBA and PPE
- Consolidates device functionality to reduce technology costs
- Supports individual issue and device sharing usage for deployment flexibility
- Easily programmable to address specific user or task requirements



Regulatory approvals and certifications

NFPA 1981 2002, 2007, and 2013 Edition standards for SCBA communications.

ATEX/IECEx certifications include Ex ia IIB T3 Ga IP66/67 and complies with IEC standards IEC 60079-0: 2007-10 Edition 5; and IEC 60079-11: 2011 Edition 6.0

Battery life:

Alkaline AAA
NiMH Rechargeable AAA

Greater than 50 hours
Greater than 40 hours

Configuration:



EPIC 3 Voice Amplifier configuration for AV3000



EPIC 3 Voice Amplifier configuration for Promask



EPIC 3 Voice Amplifier configuration for Vision 3



AIRLINE BREATHING APPARATUS

Modulair Airline Trolley

The Modulair by 3M™ is a compact, easy to use airline trolley system designed to provide portable clean air in restricted access areas.

Versatile and robust, it consists of a lightweight stainless steel hose reel unit and cylinder frame that can be used independently or together.

The frame is designed to carry a pair of cylinders and where required an additional frame can be vertically stacked to allow connection of up to four cylinders.

This in conjunction with proven 300 bar high performance pneumatics delivering up to 1000 litres of breathing air per minute, permits four people to work at the same time.

Long duration operation is made simple through adjustable cylinder bands and high pressure cylinder connectors to accommodate a variety of cylinder sizes at both 200 and 300 bar.



Approvals:

The Modulair by 3M™ is certified to AS/NZS 1716:2012
The Modulair is also CE marked in accordance with EN139

Flite COV Airline

Positive pressure supplied air respirator that also provides emergency respiratory protection and escape capability
Allows user to enter IDLH (Immediately Dangerous to Life and Health) environments

If air flow from primary supply gets cut off, apparatus automatically switches to emergency cylinder air supply
Warning whistle alerts user that apparatus has switched to cylinder air

Approved for use with the 3M™ Scott™ Vision 3 and 3M™ Scott™ Promask PP full face masks
Simple to operate and maintain

The 3M™ Scott™ Flite COV (Change Over Valve) is a positive pressure supplied air respirator that also provides emergency respiratory protection and escape capability. This allows the user to enter hazardous atmospheres including those identified as Immediately Dangerous to Life or Health (IDLH).

Specifications:

Weight:	Flite (less cylinder): 1.9kg
	Flite with 10 minute cylinder (3.5kg): 5.4kg
	Flite with 10 minute superlight cylinder (2.3kg): 4.2kg
	Flite with 15 minute cylinder (5.6kg): 7.5kg
	Facemask (approximate): 0.7kg

Accessories:

▼ 'Y' Piece

Constructed from nickel-plated brass, with 2 Female Socket CEN type couplings and 1 male coupling, the Y-piece allows a single length of hose to be split into two branches.

A Y-piece is usually used at the end of a long length of hose and then followed by 3 metre or 15 metre lengths of hose



▼ HP-Red2

Reduces high pressure air from a single cylinder to medium pressure. As standard the HP-RED2 has a high pressure gauge fitted to display cylinder content. A 55 bar whistle is available together with a selection of connections to fit different types of cylinders.



▼ AFU 2 & AFU 4

The AFU is an Airline Filter Unit designed to remove dirt particles, water and oil from a breathable air supply for use with compressed-air airline breathing apparatus. AFU is available in two sizes, dependant upon the maximum flow-rate required:

- AFU 2 has a maximum flow capacity of 13 litres per second (28 cubic feet per minute) at 7 Bar G (100 psi G).
- AFU 4 has a maximum flow capacity of 25 litres per second (53 cubic feet per minute) at 7 Bar G (100 psi G)



▼ Airline Hose

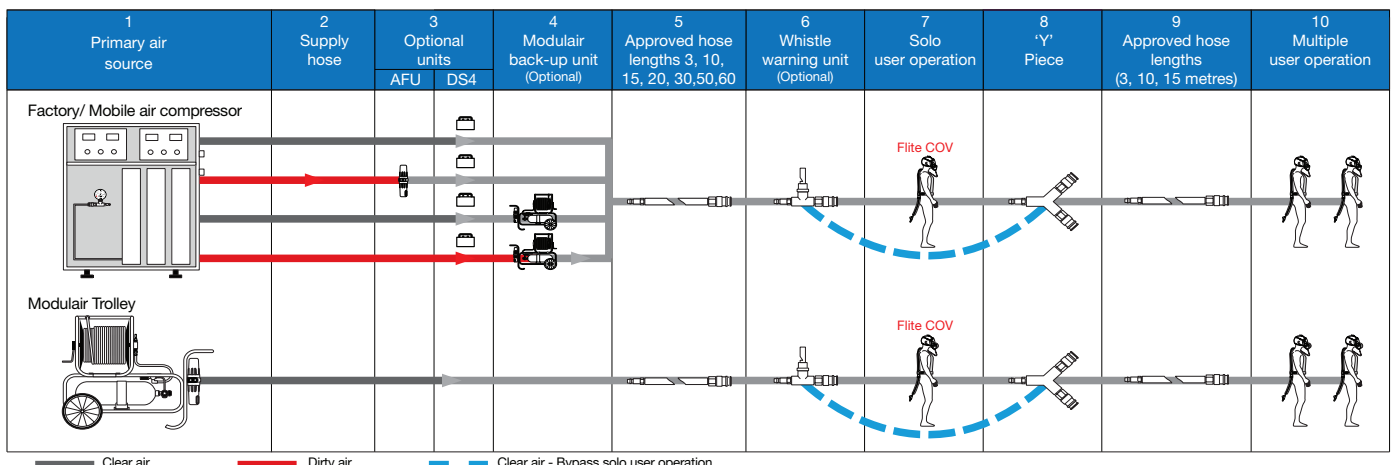
All supply hoses are CE marked to EN 139 and are approved with the full range of Airline Breathing Apparatus. Available in 3, 10, 15, 20, 30, 50, 60 and 90 meter lengths.

Each hose is fitted with a male (stainless steel) and a female (Plated brass body with Stainless Steel Bearings) CEN double action type coupling;

Hoses can be connected together to increase airline length.



Configuration:



CYLINDER

Over the years, breathing air cylinders have been providing BA users with a supply of breathable air. The original cylinders were made of steel and quite heavy. But today, advances in technology have enabled cylinders to become much lighter and less burdensome to the BA wearer. 3M™ Scott™ offers a complete assortment of cylinders to meet the needs and demands of all BA users – steel cylinders for infrequently used BA to carbon-wrapped cylinders for daily use



SCBA Cylinder

Steel Cylinder

Cost effective steel construction
300 Bar charging pressure
Manufactured to Applicable CE/ISO standards, PED approved
For infrequently used breathing apparatus

Carbon Fbre Fully Wrapped Aluminium Composite Cylinder

3M™ Scott™ cylinders are built to applicable CE, PED, and ISO specifications
Lightweight, composite cylinder consisting of an aluminium alloy inner shell with a total overwrap of carbon fibre, fibreglass and an epoxy resin
Available in variety of sizes for BA and escape set use

Carbon Fibre Fully Wrapped Aluminium Composite Cylinder Nonlimited-Life (NNL)

New, Nonlimited-Life Cylinders Allow For Extended Lifetime Use Provided Cylinders Continue To Pass Hydrostatic Testing.
Longer Life For A Lower Overall Cost Of Ownership.
Non-Limited Life.
Cap And Boot Standard (Required).

Escape Cylinder

Steel Cylinders

Cylinder for use with Flite COV
Manufactured to Applicable CE/ISO standards, PED approved
200 Bar Steel Cylinder
Delivered with pouch and reducer / hose

Carbon Fibre Cylinders

Cylinder for use with Flite COV
Manufactured to Applicable CE/ISO standards, PED approved
300 Bar Super Light Carbon Fibre Cylinder
Delivered with pouch and reducer / hose

MAINTENANCE/CLEANING

Scott Safety recommends that these basic regular maintenance procedures be followed for all composite cylinders:

- Ensure lubricants, if used, and components are compatible with both the cylinder and the gas mixture
- Keep the inside of the cylinder free from moisture, oil, dirt and other contaminants.
- Avoid completely discharging your cylinder
- Never artificially heat your cylinder
- Never remove, obscure or alter cylinder labels or markings
- Never use corrosive, caustic or acidic paint strippers or solvents to remove paint.
- Never repaint the cylinder with paints that require curing at elevated temperatures.
- Do not fill cylinder if damaged

STORAGE

The cylinder must be stored in a dry, cool, clean place free from acids, oils, grease, or highly combustible materials. Store away from direct heat and sunlight, storage temperature should not exceed -10°C to +40°C. Do not store the cylinder in a place where welding operations are likely to take place.

PERIODIC INSPECTION AND TESTING

Cylinders shall be subjected to periodic inspection and testing by an approved test station according to the requirements of AS 2030.1-2009.

DISPOSAL

Empty cylinders should be treated as special waste and disposed of according to local and state guidelines.

VALVE TYPE



RA-Valve



T-Valve

Description	Article numbers	Water capacity (litres)	Air capacity (litres)	Life (year)	Colour	Regulatory	Shell dimensions (diameter x length)	Shell weight (kg)	Charged weight (kg)	Duration at 40 lpm (minutes)*	Valve
Carbon Fibre Wrapped Aluminium Liner											
300 bar											
CYL-FWC-1860	2006640: EMPTY 2018942: RA-EMPTY	6.8	1860	15	Unpainted gel-coat	CE: PED ISO11119-2	157 x 530	4.2	7.3	46	T-Valve RA-Valve
CYL-FWC-1860-RA-NLL	2033223: RA-NLL-EMPTY	6.8	1860	NLL	Unpainted gel-coat	CE: PED ISO11119-2	159 x 515	3.9	7.0	46	RA-Valve
Flite COV – Supplied Air Respirator											
200 bar											
CYLFWC-1860	2031538: EMPTY	3.0	600	15				5.6	7.5kg	15	

THERMAL IMAGER

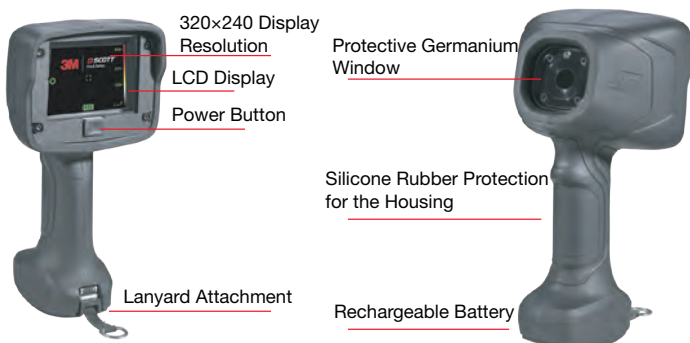
V320

Today's firefighters operate in extreme conditions, where temperatures are capable of rising faster and where visibility is reduced in seconds. Conditions within these environments can put firefighters in situations where their safety is compromised and they must have a complete understanding of the environment. The V320, featuring a 320x240 sensor, and equipped with extended battery life, provides firefighters with enhanced situational awareness that enables firefighters to make better decisions in extreme conditions.

- 320x240 Resolution Sensor
Provides clear images enabling firefighters to navigate through limited-visibility conditions.
- Extended Battery Life
Up to Eight-hour runtime with a removable rechargeable battery.

- Single Button
Single button ON/OFF provides easy deployment. No menus required.
- 3.5" High-Contrast Display
Ensures the image on the display can be seen in multiple light conditions.

Tactical Thermal Imaging Camera



LCD User Interface



SCOTT SIGHT

When you wear Scott Sight, you get more than constant thermal vision. You get your hands back. That's because unlike other hand held thermal imaging cameras, Scott Sight combines a camera with a display in the face piece without the need for reaching down and lifting a camera up. Firefighters now have both hands free for effective communication, victim extraction and carrying tools.

- Simultaneous Power Off**
 • Power off both the IMD & TIC by a single button press on the IMD..
 IMD instantaneous On
 • Power the IMD on with a 1 second push on the IMD power button.
- Standby Mode**
 Activate Standby Mode with a single push of the TIC power button.
- Powerful and light
 At 8 1/2 ounces you won't even know it's there.

- Enhanced situational awareness
Improved hot zone accountability.
- Fits any AV-3000 HT facepiece
Buy altogether as a completed kit or upgrade your current AV-3000 HT facepiece.
- In-mask Display
See a clear image unobstructed by the environment.
- Adjustable display
Configurable to your line of sight
- Minimum four-hour battery life
Powered by simple, everyday AAA batteries

Provides baseline, hands-free thermal intelligence

Compatible with AV-3000 HT facepiece



Provides optimal focus and unobstructed field of view



NIOSH Certified to NFPA 1981, 2013 ed, NIOSH 42CFR Part 84, UL 913 6th ed, ATEX, IECEx and IP 66/67.

Breathing Apparatus Compressor

LW 100 E1

The LW 100 ECO compressors are lightweight, reliable and ideal for mobile use. They are made of 100% proven elements from our successful LW 100 series. The main components such as e.g. Motor, compressor block, filter system and filling device are used completely from this series. The steel piston rings in the compressor stages provide long term consistent delivery performance (fill time).

Specifications

- Petrol compressor c/w pull start and auto cut off at low oil level
 - Aluminium frame
 - Manual condensate drain
 - Pressure maintaining and non return valve
 - 1x Filling hose c/w filling valve and pressure gauge
 - Intermediate coolers
 - Oil- / Water separators after 2nd and 3rd stage
 - Safety valves after for each stage
 - All pistons with piston rings
 - Filling pressure to your choice (200 or 300 bar)
 - Connections to your choice
 - (DIN 200 bar or 300 bar, CGA 200 bar or 300 bar and INT)
- Breathing air purification an accordance to EN 12021



LW 100 B

The gasoline-powered LW 100 B is a particularly lightweight and reliable air compressor. It's a very low maintenance compressor and ideal for mobile use. Due to the seawater resistant stainless steel frame and the painted block it is very popular in seawater environments. The steel piston rings in the compressor stages provide long term consistent delivery performance (fill time).

Specifications

- Petrol compressor c/w pull start and auto cut off at low oil level
 - Stainless steel frame
 - Manual condensate drain
 - Pressure maintaining and non return valve
 - 1x Filling hose c/w filling valve and pressure gauge
 - Intermediate coolers
 - Oil- / Water separators after 2nd and 3rd stage
 - Safety valves after for each stage
 - All pistons with piston rings
 - Filling pressure to your choice (200 or 300 bar)
 - Connections to your choice
 - (DIN 200 bar or 300 bar, CGA 200 bar or 300 bar and INT)
- Breathing air purification an accordance to EN 12021



LW 160 E / E1

Portable compressors without compromising power and capacity. The L&W 160 E/E1 compressors are compact and extremely easy to operate, the units have established themselves over the years as reliable compressors. The compressors are ready to run and come with a cable, plug and phase selector switch for easy direction of rotation control. Ideal for small applications or sporadic filling operations.

Specifications

- Electro motor ((E-Motor / 230V / single phase / 50Hz for 160 E and E-Motor / 400V / three phase / 50Hz for 160 E1)
 - Power cable with plug
 - Start/Stop Switch
 - Stainless steel frame
 - Manual condensate drain
 - Pressure maintaining and non return valve
 - 1x Filling hose c/w filling valve and pressure gauge
 - Intermediate coolers
 - Oil- / Water separators after 2nd and 3rd stage
 - Safety valves after for each stage
 - All pistons with piston rings
 - Filling pressure to your choice (200 or 300 bar)
 - Connections to your choice
 - (DIN 200 bar or 300 bar, CGA 200 bar or 300 bar and INT)
- Breathing air purification an accordance to EN 12021



LW 190 B

The user-friendly compressor with 4-stroke power in a compact design is a popular alternative for expeditions and safaris. The LW 190 B is portable and therefore ideal for mobile applications or occasional filling operations.

Specifications

- 4 stroke drive motor c/w pull start and auto cut off at low oil level
 - Steel frame c/w carrying handles
 - Manual condensate drain
 - 2.5 m air intake hose
 - Pressure maintaining and non return valve
 - 1x Filling hose c/w filling valve and pressure gauge
 - Intermediate coolers
 - Stainless steel pipes
 - Oil- / Water separators after 2nd and 3rd stage
 - Safety valves after each stage
 - Filling pressure to your choice (200 or 300 bar)
 - Connections to your choice
 - (DIN 200 bar or 300 bar, CGA 200 bar or 300 bar and INT)
- Breathing air purification an accordance to EN 12021



LW 225 E

User-friendly compressor with electric motor and in a compact design. The portable LW 225 E is ideal for mobile applications or occasional filling operations.

Specifications

- Electro motor (E-Motor / 400V / 3 Phase / 50 Hz)
 - Power cable with plug and phase selector
 - Start/Stop Switch
 - Steel frame c/w carrying handles
 - Manual condensate drain
 - Pressure maintaining and non return valve
 - 1x Filling hose c/w filling valve and pressure gauge
 - Intermediate coolers
 - Stainless steel pipes
 - Oil- / Water separators after 2nd and 3rd stage
 - Safety valves after each stage
 - Filling pressure to your choice (200 or 300 bar)
 - Connections to your choice
 - (DIN 200 bar or 300 bar, CGA 200 bar or 300 bar and INT)
- Breathing air purification an accordance to EN 12021



LW 245 B

User-friendly compressor with 4-stroke power and in a compact design. The portable LW 245 B is ideal for mobile applications or occasional filling operations.

Specifications

- 4 stroke drive motor c/w pull start and auto cut off at low oil level
 - Steel frame c/w carrying handles
 - Manual condensate drain
 - Inclusive air intake pipe
 - Pressure maintaining and non return valve
 - 1x Filling hose c/w filling valve and pressure gauge
 - Intermediate coolers
 - Stainless steel pipes
 - Oil- / Water separators after 2nd and 3rd stage
 - Safety valves after each stage
 - Filling pressure to your choice (200 or 300 bar)
 - Connections to your choice
 - (DIN 200 bar or 300 bar, CGA 200 bar or 300 bar and INT)
- Breathing air purification an accordance to EN 12021



Breathing Apparatus Compressor

LW 280 ES

The LW 280 ES is ideal for dive shops, diving clubs and diving schools, as well as medium-sized breathing air filling station. The three-stage compressor is sound insulated and operates at low speed. It is also suitable for continuous operation. It offers long service intervals, low maintenance costs and, through the oversized industrial components maximum reliability. It comes fully wired with star/delta start cycle.

Specifications

- Electro motor (E-Motor / 400V / 3 Phase / 50 Hz)
 - Painted steel housing (RAL 6026)
 - Sound insulated housing
 - Automatic condensate drain
 - Automatic stop at final pressure
 - Hour counter
 - Operating panel with start/stop and condensate test button, as well emergency stop switch
 - 2 x Filling hose c/w filling valve
 - Motor protection switch
 - Pressure maintaining and non return valve
 - All pistons c/w steel piston rings
 - Low pressure oil pump and filter
 - Oil- / Water separators in stainless steel
 - Safety valves after each stage
 - 3x concentric suction/pressure valves
 - Filling pressure to your choice (200 or 300 bar)
 - Connections to your choice (DIN 200 bar or 300 bar, CGA 200 bar or 300 bar and INT)
- Breathing air purification in accordance to EN 12021



LW 570 ES

The sound insulated LW 570 ES is a very slow running compressor with very low maintenance intervals and maintenance costs. It is suitable for continuous operation and comes fully wired with star / delta connection. The 4-stage compressor block is very reliable and is used for large and professional applications.

Specifications

- Electro motor (E-Motor / 400V / 3 Phase / 50 Hz)
 - Painted steel housing (RAL 6026)
 - Sound insulated housing
 - Automatic condensate drain
 - Automatic stop at final pressure
 - Hour counter
 - Operating panel with start/stop and condensate test button, as well emergency stop switch
 - Motor protection switch
 - Safety switch
 - Maintenance doors on both sides
 - Pressure maintaining and non return valve
 - All pistons c/w steel piston rings
 - Low pressure oil pump and filter
 - Oil- / Water separators in stainless steel
 - Safety valves after each stage
 - 4 concentric suction/pressure valves
 - High pressure outlet 10L
 - Connections to your choice (DIN 200 bar or 300 bar, CGA 200 bar or 300 bar and INT)
- Breathing air purification in accordance to EN 12021



STORAGE CYLINDERS

Storage tanks are frequently used to provide extra filling capacity during peak periods (with or without cascade filling panels).

Ideally, the storage pressure should be higher than the filling pressure. A fully automatic control system for compressors is recommended (e.g. ECC). L&W provides different storage systems in modular design, starting from 10 m³ storage volume up.

Our cascade filling panels are available for one to four stages operation. Tell us your requirements and we will calculate your individual system.

Specifications

- Stationary steel tanks 10 year hydro test, powder coated in accordance with EN 1089/3
- Powder coated according to EN 1089/3
- Special paintings on request
- 50 l tank size
- Operation pressure: up to 350 bar
- Operation pressure: 420 and 500 bar on request
- Painted steel housing (RAL 6026)
- Connected according to customer's specifications
- Modular construction to accommodate future expansions



Pressure Reducing Stations

Ideal for safe reducing storage pressure down to the required filling pressure. The pressure reducing stations are available for various inlet and outlet pressures and volumetric flows



Pressure reducing station with safety valve



Pressure reducing station with TÜV/CE safety valve

Pressure Reducers



Inlet: 100 - 420 bar | 2 x 1/4" NPT
Outlet: 27 - 300 bar | 2 x 1/4" NPT
Gas: Air, Inert gases



Inlet: 100 - 420 bar | 1 x 1/4" NPT
Outlet: 27 - 300 bar | 1 x 1/4" NPT
Gas: Air, Inert gases



Inlet: 0 - 6 bar | 1 x 1/2"
Outlet: 150 mbar - 6 bar | 1 x 1/2"
Gas: Air, Inert gases



Inlet: 100 - 300 bar | G5/8" DIN 477
Outlet: 0 - 50 bar | G1/4"
Gas: Air
Inlet: 0 - 200 bar | W 24,3 x 1/14 LH
Outlet: 0 - 20 bar | G1/4"
Gas: Nitrogen
Inlet: 0 - 200 bar | W 21,8 x 1/14 LH
Outlet: 0 - 20 bar | G1/4"
Gas: Hydrogen, Helium



STRUCTURAL FIREMEN SUIT

DENVER



Structural fire-fighting jacket

- High neck provided with frog, fixed by Velcro tape
- The lower sleeve can be adjusted by frog and Velcro tape
- The breast pocket is designed for handy radio
- Two pockets are cut horizontally, at the waist level, closed by flap, held by Velcro tape
- The left pocket is provided with frog with metallic spring-catch
- The right side of the breast is provided with some velcro tape, for name badge
- At the back, there are two parallel horizontal Velcro tape stripes
- Fluorescent/retroreflective FR bi-colour bands are placed on the jacket by stitching

Structural fire-fighting trousers

- EN 469 waist trousers with central opening closed by means of a metallic zipper
- Two bellow pockets are applied at the sides with flap closed by Velcro tape
- The lower leg is smooth
- At the knee level, there are two pockets closed by Velcro tapes, used for additional padding
- Some yellow/silver stripes (5cm wide) are placed on the external part of the legs

SUPER ARMOR PREMIUM



Prepare for the pinnacle of protection with Super Armor Premium – the epitome of advanced firefighting gear. Engineered for strength and durability, Super Armor Premium stands as a formidable shield against the most intense fire environments. At its core lies a three-layer assembly of fabrics sourced exclusively from Kanox and Mazic – renowned for their inherent fire-resistant properties

Structural fire-fighting jacket

- Shoulder & elbow area are reinforced by Jacquard fabric
- 3D-tailored elbow & buffer designed armpit
- Anti-wicking fabrics at sleeve end and coat hem
- Fire resistant wristlet with thumb hole
- Patch pocket, radio pocket, utility loops for torch and microphone
- Port for lining inspection (option)
- Drag Rescue Device (option)
- Incorporated RFID chip (option)

Structural fire-fighting trousers

- High-rise kidney protection (option)
- Hem at leg bottom curved upwards at heel area
- 3D-tailored knee area
- Removable knee padding (option)
- Two points suspenders with Mazic® Comfort shoulder pad (option)

INNOTEX® RDG10



Unique patented 3" BR 1™ four-layer collar. (US Patent 6 481 018)

Inverted L-shaped storm flap with integrated throat closure. Faster donning. Eliminates gaps around throat

Preformed sleeves and underarm gussets: increase mobility, minimize arm restriction and coat rise.

Polymer-coated aramid cuff reinforcements.

Two waist adjustment straps in black webbing with thermoplastic buckles. Hook & loop closure on outer fly flap with hook and D-ring safety clasp. 5-layer fly protection.

Regular knees with polymer-coated aramid reinforcement and one extra layer of padding (14oz Nomex® felt).

Outer Shell

- Brigade™ 750 yellow: Plain weave, water-repellent finish
- Content: 93% Nomex® / 5% Kevlar®/ 2% Carbon

• Weight: 7.5 oz/yd2

MoistureBarrier

- Stedair® 3000
- Substrate: Nomex®/non-woven spunlace.
- Film: Bi-component ePTFE membrane.
- Total weight: 5.2 oz/yd2

Thermal Liner

- Cloth: 50% Meta-aramid, 50% FR modacrylic (spun)
- Batting: Reprocessed Aramid, FR rayon, needle punch, non-woven
- Total weight: 8.0 oz/yd2

Aluminium Fire Fighting Clothing



10150N

Aluminised one piece overall lined inside with wool fabric with pouch for holding and protection of breathing apparatus

- Front fastening by metal zipper protected by flap closed by metal snaps
- The boots, fixed to the overalls, are provided with adjustable straps and back regulation system by metal snaps
- The soles made of high temperature resistant material covered in the inner part with wool and in the outer part with an anti-skid and against cutting KEVLAR bouclette
- Five finger gloves gauntlet style with inner electrical insulation woollen fabric, total length 500 mm
- Adjustable inner safety helmet according EN-397
- The hood can be used with a full face mask and with the breathing apparatus

The suit is EC approved on the ground of EN-469 EN-1486 TYPE 2 for PROXIMITY SPECIALIZED FIRE-FIGHTING.

Available sizes S-M-L.



10173N

Aluminised 5- piece overall, internally lined with woollen fabric. It is provided with pouch for breathing apparatus

- Wide shape, frontal opening fastened by press stud covered by flap
- Elastic round lower sleeves and legs
- Trousers provided with adjustable braces and elasticised waist
- The boot soles are made of high temperature resistant material
- Five -finger gloves with long cuff and split leather reinforcements on the palm
- Wide hood allowing the use of a mask for breathing apparatus

The overall is a 3rd category safety equipment, EC approved according to EN 1486 Type 2 standards as proximity specialised firefighting suit.

The overall is available in S-M-L size



10900N

Two pieces fire entry suit with external aluminised fabric style FIRETEX and 6 insulation layers.

- Jacket with pouch on shoulders, raglan sleeves and front fastening by means of metal snaps protected by flap closed by metal snaps, high Korean style collar.
- Trousers with elasticised adjustable suspenders, and adjustable strap at the bottom
- Booties with adjustable straps, full grain leather thickness 5mm. sole lined with Kevlar outside and wool inside; the sole is connected to the upper by metal nails.
- Two finger gloves insulated as the other components
- Hood wide shaped to allow the use of a full-face mask with breathing apparatus without hampering head movements
- The suit is available in S-M-L size



E2050

EN 1486 compliant coverall in FIRESHIELD complex consisting of a jacket, trousers, overboots, hood and gloves for interventions in the immediate vicinity of the fire. With or without a back pocket on the hood to cover an SCBA cylinder, with standard overboots or with basic overboots. In total, 4 packs to meet your needs:

E2050-101: standard overboots and hood.

E2050-102: standard overboots and backpack hood.

E2050-103: basic overboots and standard hood.

E2050-104: basic overboots and backpack hood

Fabric

Fireshield complex: Aluminised Aramid fabric 300g/m², Carbon felt insulation 320g/m², Aluminised glass fabric 135g/m², cotton and flame-retardant 185g/m²

Fully lined with cotton, flame-retardant for jacket and trousers

Norms

EN ISO 11612 A1/B1/C4/D0/E0/F2

EN 1486

CE marking



- Aluminised jacket with velcro fastener under flap, snap buttons, fully lined with cotton, flame-retardant treatment and aluminised fleece interlayer.
- Aluminised trousers with straps, fully lined with cotton, flame-retardant, aluminised fleece interlayer, 20-cm slit with velcro fastener at the bottom of each leg for putting on boots
- Aluminised hood with a 3-mm clear polycarbonate screen and a 1-mm gold polycarbonate screen
- Fibreglass helmet integrated into the hood and front of the hood adapted for the use of a respirator with valve on demand.
- Aluminised overboots with aluminised upper, lined with 100% flame-retardant cotton, multi-layer soles for walking on floors up to 400°C
- Overboots opened at back, under flap
- One ankle strap on each overboot

FIRE GEAR

FIRE 05



Awarded modern design and excellent protection properties. Optimal relationship between protection and comfort with a broad spectrum of optional upgrades.

Features:

- 1,000 °C: Extreme temperature resistance up to 1,000 °C in a ten-second flash over flames
- 14 kW/m²: Long-term temperature resistance, radiant heat test 14 kW/m²
- -30 °C: Excellent protection properties at low temperatures
- ImpactResist: High resistance to mechanical impacts
- High-speed particles: Visor resistant to high energy impacts

Standards:

EN 443:2008, EN 14458:2018, EN 16471:2014, EN 16473:2014, MED

FIRE COMPACT



A modern design in combination with an uncompromising choice of materials and production technology. The high degree of protection and simple usage make this extremely light helmet very versatile.

Features:

- 1,000 °C: Extreme temperature resistance up to 1,000 °C in a ten-second flash over flames
- 14 kW/m²: Long-term temperature resistance, radiant heat test 14 kW/m²
- -30 °C: Excellent protection properties at low temperatures
- ImpactResist: High resistance to mechanical impacts
- 1,165g: Lightweight

Standards:

EN 443:2008, EN 14458:2018, EN 166:2001, MED

R5SL



The R5SL features a slightly longer shell than the R5S which enables it to fit comfortably on a wider range of head sizes.

Features:

- DuPont™ Kevlar® and Fibreglass Reinforced Composite Shell
- Ratchet Adjustable Headband
- 3-Point Polyester Chinstrap
- Pacific Low Profile Buckle
- 4-point Nylon Cradle Harness

Standards:

NFPA 1951:2020, NFPA 1977:2016, ANSI/Z89.1:2014, EN397:2012, AS/NZS1801:1997

PACIFIC F6



The F6 is certified to NFPA 1971 and AS/NZS 4067. Made with a Fibretuff shell, the F6 can be fitted with a One Touch Eye Protector™ (OTEP) and/or an External Face Shield. Additionally it comes with a 2 point chinstrap with Postman's buckle to allow quick adjustment, and an optional Easi On-Off Base for mounting either a UK3AA or Adaro Adalit L5 torch.

Features:

- Light weight, fiber tuff fiberglass reinforced composite shell.
- Unique Full Cranium Polyurethane Liner
- Ratchet Adjustable Headband
- 2-Point Nomex® Chinstrap
- Pacific Quick Release Buckle
- 6-point Ribbon Cradle Harness
- Internal Eye Protector, externally Mounted Face Shield
- Flame Resistant Neck Protector
- Rear Hanger & reflector Sets
- Customised Branding

Standards:

AS/NZS 4067:2012, NFPA 1971:2018

INN0373™



A deluxe model, these premier hoods provide the best protection for firefighters with full shoulders, chest and back coverage.

- 8 oz Nomex®
- Unique 3-Piece Seamless Chin - Enhances Comfort.
- TRU-FLATTMSeam - Thinner seams compared to most competition. Practically eliminates pressure points under helmet for additional comfort
- Heavy-Duty 1/2" Elastic - Keeps snug fit around SCBA facepiece
- Double-needle binded bottom seam -Enhances durability
- Sewn with Nomex® thread

Certified to NFPA 1971

INN0374™



A deluxe model, these premier hoods provide the best protection for firefighters with full shoulders, chest and back coverage.

- 8 oz Nomex®/ Lenzing (20%/80%)
- Unique 3-Piece Seamless Chin - Enhances comfort
- TRU-FLATTM Seam - Thinner seams compared to most competition. Practically eliminates pressure points under helmet for additional comfort.
- Heavy-Duty 1/2" Elastic - Keeps snug fit around SCBA facepiece
- Enhances durability - Sewn with Nomex® thread

Certified to NFPA 1971

FIRE GEAR



INNOTEX815™ & INNOTEX810™

Noticeable flexibility and reduced hand fatigue. Proudly manufactured in the U.S.A. Proven protection and abrasion resistance.

Outer Shell

Black Eversoft split cowhide palm and back for proven protection and abrasion resistance

Lining

EF thermal lining

Moisture Barrier

PRO-TECT™ glove inserts for added thermal protection

Wristlet Style

Also available as INNOTEX810™ using 2 layers of black Nomex® knit for additional protection



Front
INNOTEX815™



Back
INNOTEX815™

Features

- 2D glove style
- PIVOT-THUMB™, natural / anatomically correct thumb to finger movement for better grip
- Exclusive liner retention system helps prevent liner shifting and pull-out
- Thumb seam welt for increased abrasion resistance in this critical area
- Kevlar® thread with lock stitching on the shell for added strength and heat resistance
- Nomex® thread with lock stitching on lining
- 1/2" Heavy duty elastic sewn around the entire wrist helps prevent the glove from falling off the hand by keeping a snug fit around the wrist
- Compliant to NFPA 1971:2018

"RANGER" 14755

Five-finger protective glove developed according to:
EN-659 standard for fire-fighting gloves
EN-407 for gloves with a specific protection from thermal risks
EN-388 for gloves with a specific protection from mechanical risks.
The glove is composed of 2 layers as follows:

External Layer

External layer manufactured in full grain leather
Cuff is manufactured in full suede leather black colour

Inner Layer

Palm and the back are made of Nomex/Kevlar/Viscose FR knitted fabric.
Cuff lining is manufactured in flame retardant cotton.



Front
"RANGER"



Back
"RANGER"

Features

- Ranger glove has an elastic band on the inner back part of the cuff, to assure a good comfort in the wrist area.
- A fire resistant reflective stripe, yellow colour, is placed all over the circumference of the oversleeve.
- All seams are made in KEVLAR 100% yarn to assure the integrity of the gloves in case of fire or heat
- Available sizes 06-07-08-09-10-11- 11L
- The outfit is EC marked proving the approval to sale according to Law Decree 475 dated 04.12.92 about Council Directive 89/686/EEC. This PPE belongs to 3rd category in conformity to EN 659 - EN407 PROTECTION CLASSES 4231XX - EN 388 PROTECTION CLASSES 2244



807-6003

This footwear is designed for structural fire fighters, providing ultimate protection to the foot and lower leg region through a single piece felt lining. Superior foot comfort and protection has been added by design with a removable thick cushion insert.

NFPA 1971-2007 Edition
ISO 9001-2000 Registered (International Standard/ISO 2000, Quality Systems Specification for Design, Development, Production, Installation and Servicing).
Underwriters Laboratories certified.



950100

The structural firefighting boot style 950100 is a safety footwear in conformity with EN 15090:2012 F2A CI AN HI3 rd SRC. It is certified as 3 category PPE.

The upper is made of: one piece vamp, linked to 2 quarters by means of a double stitching, a back stripe joined by double seam to the vamp and the quarters, a collar made of veal leather, two lateral hangers for easier donning.

The boot height as measured from the heel base to the collar top is 270 mm+3% on the side part and 240 +3% mm in size 42 (all other sizes develop total height harmonically).



950105

The structural firefighting boot style 950105 is a safety footwear in conformity with EN 15090:2012 F2A CI AN HI3 SRC. It is certified as 3rd category PPE.

The upper is made of: one piece vamp, linked to a 2 quarters by means of a triple stitching; a back stripe joined by a double seam to the vamp and the quarters; a collar made of veal leather; a bellows tongue.

The boot height as measured from the heel base to the collar top is 220 mm +3% on the side and 170 mm +3% in size 42. (all other sizes develop total height harmonically).

MOBILE FOAM UNIT - MFS SERIES

The Mobile Foam is highly deployable fire protection apparatus designed for operation by on person. Connection to a suitable water source, such as fire pump or pressurized fire hydrant valve using a fire hose connected to inlet of inductor while another to the inlet of the low expansion foam branchpipe.

- Trolley: Steel EPE Powder Coating
- Tank: Fibre Glass or Stainless Steel
- Inductor: 0% - 6% at 225 lire/min
- Foam Branchpipe: Aluminum alloy male instantaneous
- Hose: Two length of 38mm x 15 m fire hose



LONG RANGE HIGH VOLUME WATER/ WATER FOAM MONITOR-M-LRHV

- Standpost mounted type
- Horizontal 360o & vertical 90o & 45o rotator
- Hand-wheel for rotation of swivel joint
- Gun metal swivel joint with ball bearing
- Coated with anti-corrosive coating
- 3% or 6% foam induction
- Used AFFF, ARFFF & Fluoroprotein foam
- Aqua-foam nozzle with S.S/PVC pick up tube
- Flanged inlet 4"-6" or 8"



FOAM BRANCHPIPE & INDUCTOR - LOW EXPANSION

The low expansion foam branchpipes are suitable for use in hydrocarbon fire and come with adjustable variable valve from 0% to 6%. There are two type: one is with integral inductor, pick up tube and piercer, and another is without the pick up tube for premix foam. This product is suitable for polar solvent, AFFF and protein foam.

General Specifications

Material: Aluminium alloy

Expansion ratio: 15X

Inlet: 2 1/2" (65 mm) male instantaneous to BS336

Working pressure: 5-10 bar



450 Lt foam branchpipe c/w pick up tube and stainless steel piercer
FB 450 SI



225 Lt premixed foam branchpipe at 7 bar
FB 225

225 Lt foam branchpipe c/w up tube and stainless steel piercer
FB 225 SI

225 Lt foam branchpipe c/w pick up tube and stainless steel piercer and adjustable Variable valve
FB 225 XP

225/40 Lt variable foam inductor c/w pick up tube & stainless steel piercer
VI 225/450



AQUAJET MULTIPURPOSE NOZZLE

Solid jet and fog facilities simultaneously or independently

- Specially designed gives low back pressure
- Durable light hard anodized construction
- Straight stream to dense fog & flush without shut off
- Ball valve for flow control.
- Anti-slip rubber moulded pistol grip
- Female inlet with instantaneous Male Coupling.



SUPERFIRE NOZZLE

- Specially designed gives low back pressure
- Constant selectable gallonage nozzle with multiple flow setting. Flow remains the same in all pattern.
- Durable light hard anodized construction
- Straight stream to dense fog & flush without shut off
- Ball valve for flow control
- Anti-slip rubber moulded pistol grip
- Female inlet with instantaneous Male Coupling



FIRE - FIGHTING FOAM

FOAMGARD 3% AFFF



Foamgard AF3-20	Pail	20 Lires (5.28 gallons)
Foamgard AF3-30	Pail	30 Lires (7.92 gallons)
Foamgard AF3-200	Drum	200 Lires (52.8 gallons)

Typical Chemical and Physical Properties at 27°C

Appearance	Light yellow
Specific gravity	1.02 +/- 0.01
pH	7.5 +/- 0.5
Viscosity (maximum)	less than 0.3
Spreading Coefficient	more than 4.5
Sludge Content (% v/v)	less than 0.1%
Surface Tension	less than 17 dyne/cm
Approvals	U.L Listed

Option:

FOAMGARD 3% FLOUROPROTEIN AFFF



FOAMGARD 6% AFFF



Foamgard AF6-20	Pail	20 Lires (5.28 gallons)
Foamgard AF6-30	Pail	30 Lires (7.92 gallons)
Foamgard AF6-200	Drum	200 Lires (52.8 gallons)

Typical Chemical and Physical Properties at 27°C

Appearance	Light yellow
Specific gravity	1.00 to 1.15
pH	6.5 to 8.5
Viscosity (maximum)	3.0 to 10cps
Spreading Coefficient	more than 3.0
Sludge Content (% v/v)	less than 0.1%
Surface Tension	less than 17 dyne/cm
Approvals	U.L Listed

FOAMGARD 6% FLOUROPROTEIN AFFF



Dangerous Goods Cabinets

CLASSIFICATIONS LABELS

All appropriate classification, capacity labels, identification and instruction labels are applied to each indoor cabinet.

MANUFACTURED IN ISO9001 ACCREDITED FACILITY

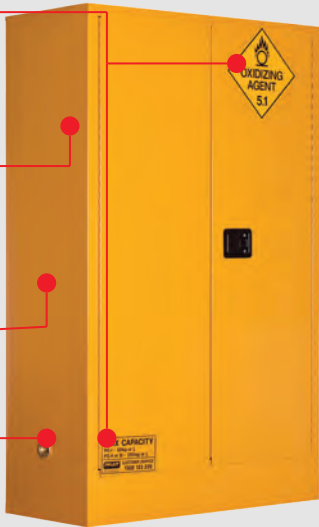
All cabinets are designed and manufactured to full conformance of AUS/NZ Standards.

POWDER COATED PAINT FINISH

Our metal indoor cabinets have an epoxy resin powder coating internally & externally, for improved chemical resistance.

50MM VENT BUNGS

Fitted into side walls of indoor metal cabinets, to allow for venting where required. Each vent incorporates a steel flash arrester. Each vent is supplied with resealable metal caps



SELF-CLOSING DOORS

All metal two door cabinets incorporate Pratt's unique and improved sequential self-closing door action, providing hands free closing and ensures doors close in the correct sequence. All metal indoor single door cabinets have self-closing door mechanism.

WALLS

Indoor metal cabinets are constructed using 1.2mm thick, double steel walls with 40mm air gap between walls to provide thermal insulation.

150MM DEEP LIQUID TIGHT SUMP: For containment of leakage or spillage

SHELVES

All metal indoor cabinets come with 1.6mm thick perforated galvanised steel shelves provide added strength and free air movement within the cabinet

FULLY ADJUSTABLE SHELVES

Indoor metal cabinets have 90mm shelving increments for large cabinets and 45mm for medium and small cabinets.

Flammable Liquid Storage Cabinets

Pratt Indoor Flammable Liquid Storage Cabinets comply with the Australian Standard AS 1940 "The Storage and Handling of Flammable and Combustible Liquids".

This range of cabinets is for the storage of flammable or combustible liquids as classified by the United Nations criteria and the ADG Code for Dangerous Goods.

These include flammable liquids such as Paints, Solvents, Petrol, Thinners, Kerosene, Turpentine, White Spirits, Alcohol and Ethanol.

Also combustible liquids such as Diesel, Linseed Oil and Pine Oil.



Model	Capacity	Doors	Shelves	Extra Shelf	External (mm)			Internal (mm)		
					Height	Width	Depth	Height	Width	Depth
5516AS	30 L	1	1	5517-29	770	515	465	525	420	370
5517AS	60 L	1	2	5517-29	1065	515	465	820	420	370
5535AS	160 L	2	2	5545-29	1295	1115	500	1015	1020	415
5530AS	205 L	1	Roller Set	-	1825	865	865	1580	770	775
5545AS	30 L	1	1	5517-29	770	515	465	525	420	370
5560AS	60 L	1	2	5517-29	1065	515	465	820	420	370
5590AS	160 L	2	2	5545-29	1295	1115	500	1015	1020	415

Corrosive Substance Storage Cabinets-Metal

Corrosive Substance Storage Cabinets comply with AS 3780 "The Storage and Handling of Corrosive Substances".

This range of cabinets is for the storage of Corrosive Substances in liquid or solid as classified by the United Nations criteria and the ADG Code for Dangerous Goods. These include chemicals such as: Acids, Alkalis, Caustics, Sodium Hydroxide Solution, Hypochlorite Solution etc.



Model	Capacity	Doors	Shelves	Extra Shelf	External (mm)			Internal (mm)		
					Height	Width	Depth	Height	Width	Depth
5535ASPH	100kg or L	2	1	5535PH-29	770	935	620	495	840	530
5545ASPH	250kg or L	2	3	5545PH-29	1825	1115	500	1545	1020	415

Toxic Substance Storage Cabinets

Indoor Toxic Substance Storage Cabinets comply with the Australian & New Zealand Standard AS/NZS 4452 "The Storage and Handling of Toxic Substances".

This range of cabinets is for the storage of toxic substances in liquid or solid form as classified by the United Nations criteria and the ADG Code for Dangerous Goods. These include chemicals such as Alkaloids, Arsenic, Aniline, Cyanides, Mercury, Phenol – Solid and Trichloroethylene.



5530AST



5545AST

Model	Capacity	Doors	Shelves	Extra Shelf	External (mm)			Internal (mm)		
					Height	Width	Depth	Height	Width	Depth
5530AST	160 L	2	2	5545-29	1295	1115	500	1015	1020	415
5545AST	250 L	2	3	5545-29	1825	1115	500	1545	1020	415

Oxidizing Agent Storage Cabinets

Indoor Oxidizing Agent Storage Cabinets comply with the Australian Standard AS 4326 "The Storage and Handling of Oxidizing Agents".

This range of cabinets is for the storage of Oxidizing Agents in liquid or solid form as classified by the United Nations criteria and the ADG Code for Dangerous Goods. These include chemicals such as Hypochlorite inorganic, Hydrogen Peroxide, Perchlorite inorganic and Potassium Nitrate.



5530AOA



5545AOA

Model	Capacity	Doors	Shelves	Extra Shelf	External (mm)			Internal (mm)		
					Height	Width	Depth	Height	Width	Depth
5530AOA	160kg or L	2	2	5545-29	1295	1115	500	1015	1020	415
5545AOA	250kg or L	2	3	5545-29	1825	1115	500	1545	1020	415

Organic Peroxide Storage Cabinets

Indoor Organic Peroxide Storage Cabinets comply with the Australian Standard AS 2714 "The Storage and Handling of Organic Peroxides".

This range of cabinets is for the storage of organic peroxides in liquid or solid form as classified by the United Nations criteria and the ADG Code for Dangerous Goods. These include chemicals such as Acetyl Acetone Peroxide, Methyl Ethyl Ketone Peroxides and Dibenzoyl Peroxide.



5530APO



5545APO

Model	Capacity	Doors	Shelves	Extra Shelf	External (mm)			Internal (mm)		
					Height	Width	Depth	Height	Width	Depth
5530APO	100kg or L	2	2	5545-29	1295	1115	500	1015	1020	415
5545APO	100kg or L	2	3	5545-29	1825	1115	500	1545	1020	415

Class 4 Dangerous Goods Cabinets

Indoor Class 4 Storage Cabinets comply with the new Standard AS/NZS 5026 "The Storage and Handling of Class 4 Dangerous Goods".

This range of cabinets is for the storage of Class 4 chemicals in liquid or solid form as classified by the United Nations criteria and the ADG Code for Dangerous Goods. Please refer to the Standard. These include the following divisions: Flammable Solids, Spontaneously or Combustible Dangerous when wet.



5517AC4



5535AC4

Model	Capacity	Doors	Shelves	Extra Shelf	External (mm)			Internal (mm)		
					Height	Width	Depth	Height	Width	Depth
5517AC4	100kg or L	1	2	5545-29	1295	1115	500	1015	1020	415
5535AC4	100kg or L	2	1	5545-29	1825	1115	500	1545	1020	415

Dangerous Goods Outdoor Cabinets

Pratt dangerous goods outdoor storage cabinets are manufactured to comply with the requirements of Australian standard AS 1940, Class 3 AS 1940, Class 5.1 AS 4326, Class 5.2 AS 2714 & Class 6 AS4452.

This range of cabinets provide a convenient and secure enclosure and helps with good house-keeping practices for the storage of dangerous goods. They are suitable for outdoor use only.



POD250



POD350

Model	Capacity	Doors	Shelves	Extra Shelf	External (mm)			Internal (mm)		
					Height	Width	Depth	Height	Width	Depth
POD250	100kg or L	2	2	5545-29	1295	1115	500	1015	1020	415
POD350	100kg or L	2	3	5545-29	1825	1115	500	1545	1020	415

Emergency Showers & Eyewash

WITH QUALITY SITE SAFETY & ENVIRONMENTAL PROTECTION PRODUCTS THAT COMPLY WITH AS/NZS AND INTERNATIONAL STANDARDS, OUR RANGE OF PRODUCTS ARE ROBUST ENOUGH FOR ANY WORKING ENVIRONMENT IN THE WORLD

Pratt is proud to provide a comprehensive range of products consisting of emergency showers & eye washes, dangerous goods storage cabinets, gas cages, spill containment & spill kits.

With an ever increasing focus on workplace & environmental safety, Pratt Safety Systems is committed to on going product development to ensure our customers have access to the latest technology available



AEROSTREAM

AEROSTREAM technology delivers a gentle cascade of soft flow water to flush away any hazardous materials from the eyes and face. The technology allows the user greater comfort at a time when its needed most.

All the eye wash units come standard with (FCR) flow control regulator to ensure effective flow.



SWIRLTEC

SWIRLTECH technology delivers a precise pattern and controlled flow rate of a large volume of flushing fluid, ensuring optimum decontamination when its needed most.

All showers come standard with (FCR) flow control regulator, this assists for simultaneous flow between the shower and eyewash to ensure minimum flow outputs aren't compromised

Emergency Showers & Eyewash

**Product Code: SE607**

Pratt Combination Shower With Eye & Face Wash With Bowl & Foot Treadle

Features:

- Shower stanchion and fittings are 304SS
- ABS Chemical/Impact Resistant Shower Head
- Stainless Steel Eye Wash Bowl
- Hand and Foot Operated via Push Handle, Foot Treadle and Pull Rod
- ABS Eye/Face Wash Nozzle Assembly

Technical Information

Inlet connection:	25mm BSPM
Water supply-line size:	25mm
Outlet connection:	25mm
Minimum performance requirements:	210kPa / 30PSI
Flow output	Shower 80 LPM Eye Wash 15 LPM Eye-Face Wash 30 LPM
Weight(kg):	18
Dimensions(cm):	122 X 19 X 37

**Product Code: SE607T316**

Pratt Combination 316ss Shower With Eye & Face Wash, Bowl & Foot Treadle

Features:

- Shower stanchion and fittings are 304SS
- 316 Stainless Steel Shower Head
- 316 Stainless Steel Eye Wash Bowl
- Hand and Foot Operated via Push Handle, Foot Treadle and Pull Rod
- ABS Eye/Face Wash Nozzle Assembly

Technical Information

Inlet connection:	25mm BSPM
Water supply-line size:	25mm
Outlet connection:	25mm
Minimum performance requirements:	210kPa / 30PSI
Flow output	Shower 80 LPM Eye Wash 15 LPM Eye-Face Wash 30 LPM
Weight(kg):	18
Dimensions(cm):	122 X 19 X 37

**Product Code: SE612**

Combination Shower With Eye & Face Wash With Bowl & Foot Treadle

Features:

- Shower stanchion and fittings are 304SS
- ABS Chemical/Impact Resistant Shower Head
- Stainless Steel Eye Wash Bowl
- Hand and Foot Operated via Push Handle, Foot Treadle and Pull Rod
- Stainless Steel Eyewash Assembly with Rubber Cups

Technical Information

Inlet connection:	25mm BSPM
Water supply-line size:	25mm
Outlet connection:	25mm
Minimum performance requirements:	210kPa / 30PSI
Flow output	Shower 80 LPM Eye Wash 15 LPM Eye-Face Wash 30 LPM
Weight(kg):	18
Dimensions(cm):	122 X 19 X 37

**Product Code: SE612T316**

Combination Shower With Eye & Face Wash With Bowl & Foot Treadle

Features:

- Shower stanchion and fittings are 304SS
- 316 Stainless Steel Shower Head
- 316 Stainless Steel Eye Wash Bowl
- Hand and Foot Operated via Push Handle, Foot Treadle and Pull Rod
- Stainless-Steel Eyewash Assembly with Rubber Cups

Technical Information

Inlet connection:	25mm BSPM
Water supply-line size:	25mm
Outlet connection:	25mm
Minimum performance requirements:	210kPa / 30PSI
Flow output	Shower 80 LPM Eye Wash 15 LPM Eye-Face Wash 30 LPM
Weight(kg):	18
Dimensions(cm):	122 X 19 X 37

**Product Code: SE480**

Combination Shower With Eye & Face Wash With Bowl & Foot Treadle

Features:

- Eyewash pipework and fittings are 304SS
- Stainless Steel Eye Wash Bowl
- Hand and Foot Operated via Push Handle and Foot Treadle
- ABS Eye/Face Wash Nozzle Assembly

Technical Information

Inlet connection:	15mm BSPM
Water supply-line size:	15mm
Outlet connection:	25mm
Minimum performance requirements:	210kPa / 30PSI
Flow output	Shower 80 LPM Eye Wash 15 LPM Eye-Face Wash 30 LPM
Weight(kg):	10
Dimensions(cm):	79 X 30 X 20

**Product Code: SE546**

Combination Shower With Eye & Face Wash With Bowl & Foot Treadle

Features:

- Eyewash pipework and fittings are 304SS
- Stainless Steel Eye Wash Bowl
- Hand and Foot Operated via Push Handle and Foot Treadle
- Stainless-Steel Eyewash Assembly with Rubber Cups

Technical Information

Inlet connection:	15mm BSPM
Water supply-line size:	15mm
Outlet connection:	25mm
Minimum performance requirements:	210kPa / 30PSI
Flow output	Shower 80 LPM Eye Wash 15 LPM Eye-Face Wash 30 LPM
Weight(kg):	10
Dimensions(cm):	79 X 29 X 20

**Product Code: SE475**

Wall Mounted Eye & Face Wash - No Bowl Or Foot Treadle

Features:

- Eyewash pipework and fittings are 304SS
- No Bowl
- Hand Operated via Push Handle
- ABS Eye/Face Wash Nozzle Assembly

Technical Information

Inlet connection:	15mm BSPF
Water supply-line size:	15mm
Outlet connection:	25mm
Minimum performance requirements:	210kPa / 30PSI
Flow output	Shower 80 LPM Eye Wash 15 LPM Eye-Face Wash 30 LPM
Weight(kg):	5
Dimensions(cm):	61 X 33 X 46

**Product Code: SE505**

Wall Mounted Eye Wash With Bowl - No Foot Treadle

Features:

- Eyewash pipework and fittings are 304SS
- Stainless Steel Eye Wash Bowl
- Hand Operated via Push Handle
- Stainless-Steel Eyewash Assembly with Rubber Cups

Technical Information

Inlet connection:	15mm BSPF
Water supply-line size:	15mm
Outlet connection:	32mm BSPF
Minimum performance requirements:	210kPa / 30PSI
Flow output	Shower 80 LPM Eye Wash 15 LPM Eye-Face Wash 30 LPM
Weight(kg):	5
Dimensions(cm):	31 X 26 X 14



**TWO DRUM
SPILL PALLET**

Two drum spill pallet made from 100% (yellow base) high strength HDPE by injection moulding

Specifications:

Weight:	21 kg
Sump Capacity:	260 litres
Load capacity:	1136 kg
Material:	Black HDPE
Storage:	2 Drums
Dimensions:	Height (mm): 419
	Width (mm): 1346
	Depth (mm): 737



**FOUR-DRUM
SPILL PALLET**

Four-drum spill pallet with drain, made from 100% high strength HDPE by injection moulding

Specifications:

Weight:	36 kg
Sump Capacity:	250 litres
Load capacity:	3000 kg
Material:	Black HDPE
Storage:	4 Drums
Dimensions:	Height (mm): 254
	Width (mm): 1295
	Depth (mm): 1295



**SINGLE IBC SPILL
CONTAINMENT**

Indoor spill containment bund provides a safe, convenient and effective facility to store a single ibc container.

Specifications:

Weight:	75 kg
Sump Capacity:	1185 litres
Material:	UV stable Low Density Polyethylene
Storage:	2 Way
Dimensions:	Height (mm): 800
	Width (mm): 1470
	Depth (mm): 1470

PORTABLE/ HANDHELD FLASH LIGHT/ SAFETY TORCH

SURVIVOR® 230V AC/12V DC SURVIVOR® 120V/100V AC/12V

The Survivor features a low-profile bezel that doesn't interfere with gear and equipment. A reinforced D-ring provides forward-hanging orientation. Safety rated for Class I, Div. 1 environments.

Battery Type: Nickel-metal Hydride, AA Alkaline
Length: 17.93 cm | Weight: 510.29 g
Colors: Orange, Yellow



Approvals: Class I & II, Division 1, Groups C, D, E, F, G, Class III, T-Code: T4; Class I, Division 2, Groups A, B, C, D, T-Code: T4
Charging rack meets requirements of NFPA 1900-11.1.11.2 (2024) mounted in any position

SURVIVOR®

Rated for Zone 0 with a low-profile bezel that doesn't interfere with gear and equipment. The clip securely grabs onto gear, and the reinforced D-ring allows your light to hang forward.

Battery Type: Nickel-metal Hydride, AA Alkaline
Length: 17.93 cm
Weight: 510.29 g
Colors: Orange, Yellow



Approvals: Class I & II, Division 1, Groups C, D, E, F, G, Class III, T-Code: T4; Class I, Division 2, Groups A, B, C, D, T-Code: T4
Charging rack meets requirements of NFPA 1900-11.1.11.2 (2024) mounted in any position

SURVIVOR® X

The Survivor features a low-profile bezel that doesn't interfere with gear and equipment. A reinforced D-ring provides forward-hanging orientation. Safety rated for Class I, Div. 1 environments.

Battery Type: Lithium Ion Cell Pack, AA Alkaline
Length: 17.93 cm
Weight: 345.86 g
Colors: Orange



Approvals: Class I & II, Division 1, Groups C, D, E, F, G, Class III, T-Code: T4; Class I, Division 2, Groups A, B, C, D, T-Code: T4
Charging rack meets requirements of NFPA 1900-11.1.11.2 (2024) mounted in any position

KNUCK LEHEAD® SPOT HAZ-LO®

Add this feature-laden, safety approved worklight to your toolbox of intrinsically safe equipment. The far-reaching beam of the Knucklehead Spot HAZ-LO can help you locate hazards or victims from a distance.

Battery Type: Nickel-Cadmium, AA Alkaline
Length: 23.37 cm
Weight: NiMH 655g | Alkaline 519g
Colors: Orange, Yellow



Approvals: Class I & II, Div. 1, Groups C,D,F,G; Class III; T-Code: T4; Exia; NON-INCENDIVE: Class I, Div. 2; Groups A,B,C,D, T-CODE T4
NFPA 1901.14.1.10.2

POLYSTINGER® LED

This all-purpose, polymer flashlight is designed for the broadest range of lighting needs at the best value, with multiple modes that provide a bright 485 lumen light on high, and 10 hours of runtime on low.

Battery Type: Nickel-metal Hydride
Length: 20.5 cm
Weight: 326.02 g
Colors: Yellow



Approvals: IPX4 water resistant; 3m impact resistance teste

POLYSTINGER® LED HAZ-LO

High performance and intrinsically Safe Class I, Div. 1 handheld flashlight. Developed for hazardous locations, atmospheres and environments including petro-chem, utility, and other heavy industrial applications.

Battery Type: Nickel-metal Hydride
Length: 25.91 cm
Weight: 382.72 g
Colors: Yellow



Approvals: Class I, II, Division 1, Groups C, D, F & G; Class I, Division 2, Groups A, B, C & D; Class III, 138°C (T3C)

Safety Light

STINGER® 2020

The Stinger 2020 is the next evolution in work-ready flashlights and produces 2,000 lumens. Its aluminum alloy body with an anti-roll design is ergonomically shaped for a sure grip. It features dual power switches and an intuitive mode selector switch for ease of use.

Battery Type: Streamlight SL-B26 Protected Li-Ion USB Rechargeable Battery Pack
Length: 19.48 cm
Weight: 348.70 g
Colors: Black



Approvals: Meets applicable European Community Directives.
CEC Compliant
Trade Agreement Act-Compliant
IP67

PROTAC® 2.0

The high performance ProTac® 2.0 produces 2,000 lumens without sacrificing run time. Powered by the new SL-B50® battery pack that charges inside or outside of the light using a USB-C cord.

Battery Type: Streamlight SL-B26 Protected Li-Ion USB Rechargeable Battery Pack, Lithium Ion Cell Pack, CR123A Lithium
Length: 15.49 cm
Weight: 233.88 g
Colors: Black



Approvals: Meets applicable United Kingdom and European Community Directives
CEC Compliant
IP67

SYCLONE

Inspect, identify and repair with the Syclone. It produces bright white light for everyday use or warm white (4,000K) high CRI light with Streamlight's Color-Rite Technology® for paint matching or identifying color differences in wires. Ultra-compact design doesn't get in the way and fits in small spaces. Go hands-free with the flat, magnetic base and stowable hook.

Battery Type: Lithium Ion
Length: 7.54 cm
Weight: 150.2 g
Colors: Red



Approvals: Meets applicable European Community directives.
CEC Compliant
IPX4

DUALIE® 3AA MAGNET

See what's ahead of you and around you with the intrinsically safe Dualie 3AA Magnet. It produces a focused spot light and soft flood light to illuminate your work area and help to avoid slips, trips and falls.

Now featuring a magnetic clip with integrated hang hook for hands-free use

Battery Type: Lithium Ion
Length: 17.78 cm
Weight: 192.78 g
Colors: Yellow, Black



Approvals: Class I, II, Division 1, Groups A, B, C, D, E, F, G; Class III; CL I, ZN 0, IIC; Exia; T-Code: T4
Meets applicable European Community Directives
IPX7

4AA PROPOLYMER®

The 4AA ProPolymer® LED is an intrinsically safe, high-performance, 4 "AA" alkaline-powered flashlight. It features a soft flood light with seven (7) ultra-bright white LEDs. The body is constructed of an engineering polymer resin that is virtually indestructible, shock-resistant, non-conductive, and lightweight.

Battery Type: AA Alkaline
Length: 16.51 cm
Weight: 178.6 g
Colors: Yellow, Black



Approvals: Class I, Div. 2, Groups A,B,C,D; Class II, Div. 2, Groups F,G; Class III, T3C
Class I, Div. 1, Groups C,D; Class I, Div. 2, Groups A,B,C,D; Class II, Div. 2, Groups F,G; Class III, T3C
Meets applicable United Kingdom and European Community Directives

2AA PROPOLYMER® HAZ-LO

The 2AA ProPolymer® HAZ-LO® is an extremely durable, waterproof alkaline battery-powered intrinsically safe flashlight. This light offers a push-button tailswitch for momentary on-on-off operation

Battery Type: AA Alkaline
Length: 16.26 cm
Weight: 102.06 g
Colors: Yellow



Approvals: Class I, II, Division 1, Groups A, B, C, D, E, F, G; Class III; CL I, ZN 0, IIC; T-Class: T4
II 1G Ex ia IIC T3/T4 Ga, BASEEFA 14ATEX0072; IECEx BAS 14.0034
Ex ia IIC T3/T4 Ga & DNV 15.0170X
Meets applicable European Community Directives.

MACROSTREAM® USB

The USB rechargeable MacroStream is a compact personal light that fits in the palm of your hand or comfortably in your pocket and provides unparalleled performance for its size.

Battery Type: Lithium Ion
Length: 11.43 cm
Weight: 62.37 g
Colors: Black



Approvals: Meets applicable European Community Directives.
CEC Compliant
IPX4

DUALIE® RECHARGEABLE MAGNET

See what's ahead of you and around you with the intrinsically safe Dualie Rechargeable. It produces a focused spot light and soft flood light to illuminate your work area and help you avoid slips, trips and falls.

Battery Type: AAA Alkaline
Length: 15.04 cm
Weight: 53.86 g
Colors: Yellow



Approvals: Class I, II, Division 1, Groups A, B, C, D, E, F, G; Class III; CL I, ZN 0, IIC; T-Code: T4
Meets applicable European Community Directives
IP67

HEADLAMP

3AA® HAZ-LO

The Survivor features a low-profile bezel that doesn't interfere with gear and equipment. A reinforced D-ring provides forward-hanging orientation. Safety rated for Class I, Div. 1 environments.

Battery Type: Nickel-metal Hydride, AA Alkaline
Length: 17.93 cm
Weight: 510.29 g
Colors: Orange, Yellow

Approvals: Class I & II, Division 1, Groups C, D, E, F, G, Class III, T-Code: T4; Class I, Division 2, Groups A, B, C, D, T-Code: T4
Charging rack meets requirements of NFPA 1900-11.1.11.2 (2024) mounted in any position



ENDURO® PRO HAZ-LO ATEX

A low-profile, Zone 0 rated headlamp. Three lighting modes cover a variety of tasks: spot for a focused beam, flood for soft area illumination that won't tire your eyes and spot/flood combo for even more light output.

Battery Type: AAA Alkaline
Length: 5.56 cm
Weight: 99.22 g
Colors: Orange

Approvals: Class I, II, Division 1, Groups A, B, C, D, E, F, G; Class III; Class 1, Zone 0, Group IIC, Exia; T-Code: T4
II 1G Ex ia op is IIC T4 Ga - FTZU 18 ATEX 0101X
Ex ia op is IIC T4 Ga - IECEx FTZU 19.0003X
Ex ia op is IIC T4 Ga - DNV 20.0025 X
Meets applicable European Community Directives



ENDURO® PRO

A low-profile multi-function headlamp with the performance you've come to expect from Streamlight headlamps. Three lighting modes to cover a variety of tasks: spot beam for a focused beam, flood for soft area illumination that won't tire your eyes and red or green LEDs to preserve night vision.

Battery Type: AAA Lithium, AAA Alkaline
Length: 5.56 cm
Weight: 96.39g
Colors: Black Case with Coyote Faceplate, Black Case with Yellow Faceplate

Approvals: Meets applicable European Community directives
IPX4



ENDURO® PRO USB

Save money over the cost of standard batteries with the Enduro Pro USB rechargeable headlamp. You'll always have the light you need with Spot and Flood beams, each with high, medium and low modes. Spot gives you a bright, focused beam and Flood gives you soft, area illumination that won't tire your eyes on a long job.

Battery Type: Lithium Polymer Cell
Length: 5.56 cm
Weight: 102.06g
Colors: Black Case with Yellow Faceplate

Approvals: Meets applicable European Community directives
IPX4



ARGO® LED

The Argo® headlamp with adjustable elastic head strap features a single C4® power LED for long distance lighting with three output modes and a low battery warning indicator.

Battery Type: Nickel-metal Hydride
Length: 20.5 cm
Weight: 326.02 g
Colors: Yellow

Approvals: Class 1, Division 2, Groups A,B,C,D; Class II, Division 2, Groups F,G; Class III, Temp Code: T5
Meets applicable European Community directives.
IPX4



PROTAC HL® USB

High lumen, hands-free, USB rechargeable lighting solution! When your task requires both hands and a bright light with a wide, flood beam, reach for the ProTac HL USB Headlamp. Charge on-the-go using almost any USB source.

Battery Type: Nickel-metal Hydride
Length: 25.91 cm
Weight: 382.72 g
Colors: Yellow

Approvals: Meets applicable European Community directives.
IPX4



EMERGENCY SCENE LIGHTS

VULCAN® 180 HAZ-LO® ATEX

Developed as a portable scene light for use in hazardous locations, the Zone 0 safety-rated Vulcan 180 HAZ-LO is lightweight and rechargeable. Combine its three bright white LEDs with cordless operation to eliminate trip hazards.

Battery Type: Lithium Ion
Length: 18.87 cm
Weight: 1111.3 g
Colors: Orange

Approvals: ATEX: II 1G Ex iaT4 Ga IECEx: Ex ia IIC T4 Ga
DEMKO 19 ATEX 2307X IECEx UL 19.0115x
Ex ia IIC T4 Ga; DNV 20.0147X
Meets applicable European Community Directives.
Charging rack meets requirements of NFPA 1900-11.1.11.2 (2024) mounted in any position.
IPX4



FIRE VULCAN® LED

This lightweight rechargeable LED lantern is a critical firefighting tool that even floats in water! Its super-bright beam reaches long distances, and two blue taillight LEDs make certain you can be seen by your partners in thick smoke.

Battery Type: Lithium Ion
Length: 19.76 cm
Weight: 875.43 g
Colors: Orange

Approvals: Class I Division 2 Groups A, B, C, D; Class II Division 2 Groups F, G; Class III; Temperature Class T4
Meets applicable United Kingdom and European Community Directives.
Charging rack meets requirements of NFPA 1900-11.1.11.2 (2024) mounted in any position
IPX7



VULCAN® LED ATEX

The Vulcan® LED is a rechargeable, water-resistant lantern featuring the latest in power LED technology for extreme brightness. Lithium-ion nanotechnology batteries make it the lightestweight lantern in its category. The lantern includes a momentary switch providing programmable access to various modes of operation.

Battery Type: Lithium Ion
Length: 19.76 cm
Weight: 875.43 g
Colors: Orange

Approvals: ATEX: II 3G Ex ec ic IIC T5 Gc II 3D Ex tc IIIC T54°C Dc FTZU 08 ATEX 0139X
IECEx: Ex ec ic IIC T5 Gc Ex tc IIIC T54°C Dc IECEx FTZU 15.0038X
InMetro: Ex ic IIC T5 Gc Ex tc IIIC T54°C Dc DNV 16.0076X
Charging rack meets requirements of NFPA 1900-11.1.11.2 (2024) mounted in any position
IP66



E-SPOT® FIREBOX

The E-Spot FireBox produces a long-range, focused beam pattern using four LEDs with deep parabolic reflectors to spotlight an area with focused bright light. An articulating head allows you to aim light where it is needed. Its large push-button switch is easy to use with heavy gloves and a large grip area makes for easy hand-offs.

Battery Type: Lithium Ion
Length: 28.45 cm
Weight: 1406.14 g
Colors: Orange

Approvals: Meets applicable United Kingdom and European Community Directives.
Charging rack meets requirements of NFPA 1900-11.1.11.2 (2024) mounted in any position.
IPX4



BEARTRAP® 360

Inspect, identify and repair with the multi-function BearTrap 360 work light featuring a 360° rotating and 270° pivoting body. It produces bright white light in both spot and flood modes. Go hands-free - it clamps virtually anywhere or stands on its own, allowing you to illuminate hard-to-reach spaces; also features a magnetic base.

Battery Type: Lithium Ion
Length: 19.35 cm
Weight: 1048.93 g
Colors: Red

Approvals: Meets applicable United Kingdom and European Community Directives.
IPX4



PORTABLE SCENE LIGHT II

Turn to a higher power with the Portable Scene Light II. With zero deployment time, it features a compact footprint, a 360° rotating head, and it's stackable for "light tower" capability with multi-level lighting.

Battery Type: Lithium Ion
Length: 40.64 cm
Weight: 7057.89 g
Colors: Red

Approvals: CEC Compliant
IPX7



VENTILATOR - ELECTRIC OR GAS POWER

COPPUS

CADET® Vaneaxial

These versatile, rugged and economical ventilators deliver exceptional air flow in a compact, lightweight design—and their non-corrosive injection-molded housing is nearly indestructible. They are ideal for utility underground and light manufacturing confined space ventilation and are available in a variety of models.

Features / Advantages:

- Flame-resistant injection-molded housing
- Glass-filled, polyester resin, spark-resistant fan blade
- Accommodates 8 in (203 mm) flexible duct
- 60Hz/50Hz AC motors
- Hazardous location motors NEC Class/Div1

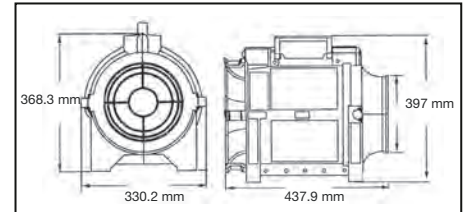


Model VAC

MODEL/SPECIFICATIONS

MODEL VEP

Vaneaxial hazardous location electric drive.



TECHNICAL DATA

AIR FLOW THROUGH DUCT (90° DEGREE BENDS)								
CADET 60 Hz	Free Air		1-90-degree		2-90-degree		3-90-degree	
	cfm	m ³ /hr	cfm	m ³ /hr	cfm	m ³ /hr	cfm	m ³ /hr
VAC1	867	1,465	776	1,318	766	1,301	756	1,284
VAC2	804	1,358	730	1,240	720	1,223	710	1,206
VAC3	867	1,465	776	1,318	776	1,301	756	1,465
VAC4	804	1,358	730	1,240	720	1,223	710	1,206
VEP1	867	1,465	776	1,318	766	1,301	756	1,284
VEP2	804	1,358	730	1,240	720	1,223	710	1,206
VEP3	867	1,465	776	1,318	766	1,301	756	1,284
VEP4	804	1,358	730	1,240	720	1,223	710	1,206

VANEAXIAL MODELS						
MODEL	DRIVE	MOTOR	HP	WEIGHT kg	FREE AIR	
					cfm	m ³ /hr
VAC1	Electric 115V/60Hz	TE	1/2	16	867	1465
VAC2	Electric 110V/50Hz	TE	1/2	16	804	1358
VAC3	Electric 230V/60Hz	TE	1/2	16	867	1465
VAC4	Electric 220V/50Hz	TE	1/2	16	804	1358
VEP1	Electric 115V/60Hz	EP	1/2	19	867	1465
VEP2	Electric 110V/50Hz	EP	1/2	19	804	1358
VEP3	Electric 230V/60Hz	EP	1/2	19	867	1465
VEP4	Electric 220V/50Hz	EP	1/2	19	804	1358

VENTILATOR - COMPRESSED AIR POWER

COPPUS

JECTAIR HP STANDARD

The unmatched performance of the COPPUS Jectair® HP is recognized throughout the industry. When compared with older-style air horns, the patented air mixing chamber of the Jectair® HP can produce up to a 40:1 air flow conversion and up to 26 percent savings on compressed air consumption.

Features / Advantages:

- Available in five sizes: 3S-HP, 3-HP, 6-HP, 8, or 9 Standard
- High-performance (HP) and Hornet models available in three sizes: 3S-HP, 3-HP and 6-HP
- Air flows range from 1,370 to 8,900 cfm (2,328 to 15,121 m³/hr)
- Induction ratios up to 40:1
- Multiple expansion nozzles machined into housing
- High static pressure capabilities
- Diffuser material available in steel, aluminum or shock-resistant-polymer (Hornet HP)
- No moving parts (virtually maintenance-free)
- Static bonding cable (standard on all models) with spring tension grip and replaceable contact tips

COPPUS

JECTAIR HORNET

The Jectair Hornet HP features a lightweight, shock-resistant, conductive polymer diffuser that is virtually indestructible.

Features / Advantages:

- Available in three sizes: 3S-HP, 3-HP and 6-HP. Polymer safely dissipates static electricity charges
- Diffuser is constructed of linear low-density polyethylene, rated UL 94 with maximum operating temperature of 160° Fahrenheit (93° Celsius)



TECHNICAL DATA

EFFICIENCY PERFORMANCE AT SELECT INLET PRESSURES INDUCTION RATIO = cfm of total airflow/cfm of compressed air								
INLET PRESSURE	MODEL	AIR FLOW		AIR CONSUMPTION		INDUCTION RATIO	BLOCK TIGHT STATIC PRESSURE	
		cfm	m ³ /hr	cfm	m ³ /hr		inch	mm
60 psig 4,2 kg/cm ²	3S-HP	1,370	2,328	47	80	29.1	5.8	147
	3-HP	1,520	2,595	47	80	32.3	5.8	147
	6-HP	3,980	6,762	98	167	40.6	4.3	109
	8	5,600	9,515	178	302	31.5	3.9	99
	9	6,880	11,096	265	450	25.8	5.5	140
80 psig 5,6 kg/cm ²	3S-HP	1,530	2,600	61	104	25.1	7.5	191
	3-HP	1,700	2,888	61	104	27.8	7.5	191
	6-HP	4,500	7,645	126	214	35.7	5.6	132
	8	6,250	10,620	233	396	26.8	5.2	132
	9	8,000	13,592	366	571	23.8	6.8	173
100 psig 7 kg/cm ²	3S-HP	1,660	2,820	72	122	23.0	8.9	224
	3-HP	1,860	3,160	72	122	25.8	8.9	224
	6-HP	4,870	8,274	153	260	31.8	6.7	170
	8	6,750	11,469	282	479	23.9	6.2	157
	9	8,900	15,121	410	697	21.7	7.7	196

PERFORMANCE THROUGH VARIOUS LENGTHS OF FLEXIBLE DUCT AT 80 PSIG (7 KG/CM2) High static pressure capabilities of the JectairHP air mover permit use of long runs of flexible duct on outlet or inlet diffuser.						
MODEL	Duct Diameter	FREE AIR	20 ft/6 m	30 ft/9 m	40 ft/12 m	50 ft/15 m
	in/mm	cfm/m3/hr	cfm/m3/hr	cfm/m3/hr	cfm/m3/hr	cfm/m3/hr
3-HP	8/203	1,700/2,888	1,550/2,634	1,480/2,515	1,410/2,396	1,350/2,294
6-HP	12/305	4,500/7,645	4,020/6,830	3,860/6,558	3,715/6,312	3,580/6,083
8	14/356	6,250/10,620	5,550/9,431	5,280/8,972	5,050/8,581	4,850/8,241
9	14/356	8,000/13,592	6,850/11,640	6,550/11,130	6,250/10,620	6,000/10,195

Ventilation System

COPPUS REACTION FAN

Rugged, cast aluminum housing and fan blade make these fans ideal for hazardous locations and demanding ventilation projects. The RF design uses action-reaction principles; compressed air is discharged through nozzles located at the tip of the fan blade providing extremely efficient, high-volume, low-maintenance air movers.

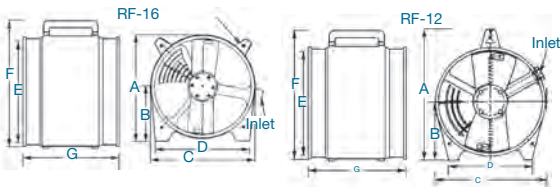


RF-12, RF-16

Features / Advantages:

- 2,100 to 5,100 cfm (3,566 to 8,665 m³/hr) at 80 psig
- Use for fresh air supply or fume exhaust
- Low compressed air consumption
- Spark-resistant, cast-aluminum housing and fan blade
- Virtually maintenance free
- Permanently lubricated bearings eliminate line oiler
- Cast-in handles and feet
- Cast-in bead to accept 12 in (305 mm) and 16 in duct (406 mm)
- Bolt holes allow optional adapter plates attachment

TECHNICAL DATA



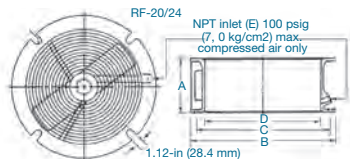
RF-12, RF-16 DIMENSIONS								
MODEL	in/mm							WT lbs/kgs
	A	B	C	D	E	F	G	
RF-12	14.5 368	6.4 163	12.0 305	10.5 267	10.9 276	11.8 299	10.8 273	39 18
RF-16	16.4 416	8.4 213	17.4 442	14.5 368	15.4 391	15.8 401	12.0 305	50 23



RF-20, RF-24

Features / Advantages:

- 11,000 to 16,900 cfm (18,689 to 28,713 m³/hr) at 80 psig*
- Use for fresh air supply or fume exhaust
- Can be carried or rolled to job site
- Spark-resistant cast aluminum housing and fan blade
- Permanently lubricated bearings
- Flanges mate with 20 in (508 mm) and 24 in (610 mm) API tank openings



RF-20, RF-24 DIMENSIONS								
MODEL	in/mm						WT lbs/ kgs	
	A	B	C	D	E	BOLT SLOTS		
						SIZE		NO.
RF-20	10.2 260	24.7 629	22.5 572	19.5 495	0.75 19	1.12 28.4	4	69 31
RF-24	11.6 294	31.2 794	30.2 768	24.0 610	1 25	1.12 28.4	4	160 73

RF-12, RF-16 FREE AIR OPERATING DATA AIR FLOW DIVIDED BY CONSUMED AIR = DELIVERY RATION (EFFICIENCY)								
MODEL	INLET PRESSURE		AIR CONSUMPTION		TOTAL AIR FLOW		DELIVERY RATIO	INLET CONNECTION NPT
	psig	kg/cm2	scfm	m3/hr	scfm	m3/hr		
RF-12	80	5.6	61	104	2,140	3,636	35	3/4 inch
RF-16	80	5.6	144	246	5,100	8,665	35	3/4 inch

RF-20, RF-24 FREE AIR OPERATING DATA AIR FLOW DIVIDED BY CONSUMED AIR = DELIVERY RATION (EFFICIENCY)								
MODEL	INLET PRESSURE		AIR CONSUMPTION		TOTAL AIR FLOW		DELIVERY RATIO	INLET CONNECTION NPT
	psig	kg/cm2	scfm	m3/hr	scfm	m3/hr		
RF-20	60	4.2	160	271	7,000	11,893	59	3/4 in
	80	5.6	210	375	11,000	18,689	53	
RF-24	60	4.2	324	550	14,600	24,804	45	1 in
	80	5.6	400	680	16,900	28,713	42	



Swing-out assembly for RF-20/24 and CP-20

Personnel and equipment egress or entrance to tanks and vessels can be achieved quicker, easier and safer with the RF-20/24 and CP-20 swing-out models; mounts to standard API 20 in (508 mm) or 24 in (610 mm) tank openings. Swing-out gate (constructed of cast aluminum) is held in closed position with industrial strength hook and loop fastener that can be opened and closed easily by pulling or pushing.

Accessories

Duct Canister



Extend the life of your duct with the protection of a COPPUS high-density, light-weight polyethylene canister; makes transporting and storage easier and safer.

Canisters for available duct sizes:

- 8 in x 25 ft (203 mm x 7,500 mm)
- 12 in x 20 ft (305 mm x 6,000 mm)
- 16 in x 30 ft (406 mm x 9,000 mm)

Flexible Air Duct



A large selection of flexible air duct for a variety of ventilation applications is available. Our most popular heavy-duty duct features impregnated polyester material designed for harsh, industrial environments. Other options include economical light-duty duct, source capture duct and hazardous location, antistatic duct.

Jectair Tripod



For stationary, long-term use; rotates 360 degrees for precise direction of air-flow and accommodates 3-HP and 6-HP Jectair sizes. Installs quickly and easily with two quick-release clamps. Large feet provide stability during operation, and spring-loaded legs fold up for easy transport and storage.



WV-10

The Seahorse. Type V, inherently buoyant, 3-piece vinyl-coated foam work vest. Closed cell flotation foam will not absorb water if cut or punctured. The tough, flexible coating resists caustics, acids, UV light, hydrocarbons, mildew, fading, drilling mud, tears, and abrasions. It's easy to clean with soap and water, and the webbing system is designed to take strains and loads. A chest strap helps to hold the vest on the wearer during falls into the water, and prevents the vest from riding up too high.



RB30

RB30S meets SOLAS requirements with International orange and reflective tape. The shell is made of tough high density polyethylene that is U.V. stabilized. With 100% foam filling, the buoy will not absorb water if torn or punctured. The floating polypropylene grab line can be easily replaced in the field. Buoys are available in international orange only.



MV3128T2

The MV3128 T2 Four-Pocket Flotation Vest is a functional PFD ideal for industrial applications. It offers large arm holes for mobility and Tug-Tite® adjustments for an almost custom fit. Four large Velcro™-secured front pockets conveniently store tools and two D-rings can be used for lanyard attachments. SOLAS reflective tape on the shoulders offer visibility in dark or stormy conditions. A great PFD for the commercial fishing, commercial transportation, industrial marine, search and rescue, special operations and security sectors.



WINDSOCK



Marine grade stainless steel swivel snap clip



Marine grade stainless steel mouth rings and wire rope harnesses



Windsock Applications

Aviation: Airports; aerodromes; private landing strips; helicopter landing platforms; air ambulance locations; parachute schools; microlight clubs. Safety: Oil, gas and petrochemical industry; emergency planning equipment; power stations; water and sewage treatment works; ports and marinas; bridges and motorways; general weather observation. Other : Windsocks can be used as an alternative form of advertising or decorative art feature with designs and logos applied. Sizes Our standard stock range of C type fitting windsocks are shown on page 3 and highlighted in orange. All other sizes and variations not highlighted and shown on pages 3 to 6 are made to order. Due to the requirements of global sourcing we manufacture windsocks in both imperial and metric dimensions - reflected in the many sizes shown on the following pages.

Windsock Type D

Fittings & Fixings

Our D type fitting comes complete with fitted brass eyelets and cable ties. It consists of a reinforced mouth fitted with a single row of brass eyelets. We supply heavy duty black uv resistant cable ties as a quick and easy way of securing the windsock to your windsock frame. The D type fitting is suitable for most applications where the windsock is being fitted to a windsock frame. Conformity 1. ICAO Annex 14 Vol I; 2. ICAO Annex 14 Vol II surface level heliports; 3. ICAO Annex 14 Vol II elevated heliports and helidecks; 4. CAP 1264; 5. EASA CS-ADR-DSN; 6. Defence Safety Authority MADS (issue 8); 7. CAP 168 NB conformity types 1 to 6 above are recommended minimum sizes.

Material


Our standard windsocks are made in durable polyester with polyurethane coating, total weight of 200 gsm tested to ISO 105 (4), EN 471 and EN 343.

Colour

Our standard windsocks are high visibility, fluorescent orange. Other colours are available.

Specification

Part number, length, mouth diameter tail diameter: see table; Material: polyester, polyurethane coated, 200 gsm; Colour : high visibility, fluorescent orange; Fixings: reinforced mouth fitted with a single row of brass eyelets and supplied with uv resistant cable ties.

Part number	Type	Length (L)	Mouth diameter (MD)	Tail diameter (TD)	
WIDA-072-024-012-ACS-AA	D	4 feet	24 inch	12 inch	

Circuit Breaker Lockouts

Universal Lockout Device can help prevent unintended energisation of energy source.

- Will Lock Out most Types of Miniature Circuit Breakers
- Lock Out 1 - 4 pole Circuit Breakers
- Made from durable plastics

Part Number	Material	Dimensions	Padlock Holes
UCL-1	50% recycled Nylon Plastic	42mm x 25mm x 10mm	1 x 8mm
UCL-2	Nylon Plastic	51mm x 25mm x 23mm	1 x 8mm
UCL-3	Nylon Plastic	42mm x 25mm x 10mm	1 x 8mm
UCL-4	Anodised Aluminium	25mm x 20mm x 6mm	1 x 8mm
UCL-5	Nylon Plastic	125mm x 63mm x 40mm	1 x 8mm
UCL-2-EL	Nylon Plastic	51mm x 25mm x 23mm	1 x 8mm
UCL-7	Sturdy Chemical Resistant Plastic	50mm x 30mm x 15mm	2 x 6mm



CBL-1 Circuit Breaker Lockout - Universal

Permanently mounted to eschuteon plate
Suitable for most large circuit breakers (universal type)
Made from strong ABS plastics
Includes 5mm spacer disc - arm length 126mm
Suitable for padlocks with up to 6.5mm shackle diameter

CBL-3 Toggle Blocking Lockout Hasp

Suitable for Schneider and Merlin Gerin Moulded Case CB's
Large Side for NS80, NSX100-250, NSE75-100, NSF150-250
Small side for NS/NSX400-630, NSJ 400-600
Made from powdercoated mild steel
3 padlock holes suitable for padlocks with up to 6.5mm shackle diameter

SPLD-LCB Moulded Case Circuit Breakers

Ideal for situations where lockout of individual breakers is required
Moulded from Re-Inforced Nylon
Fitted to Circuit Breaker Cover



Part Number	Description
CBL-1	Large Circuit Breaker Lockout
CBL-3	Circuit Breaker Toggle Lockout
SPLD-LCB	Lockout Device for Moulded Case Circuit Breakers

Universal Lockout Device for Fuse Holders

UFL-2 Universal Lockout Device for Fuse Holders

Will Lock Out most Types of Fuse Holders - One size fits all
Lock out 20 Amp to 400 Amp Fuse Holders
Made from sturdy Nylon Plastics
Dimensions: 60x35x15 mm wide
8mm padlock hole - max clamping 5mm
One size fits most fuse holders



UFL-NZ Lockout for Fuse Holders

Made from sturdy PVC
Dimensions 60 x 25mm
7mm padlock hole
Will prevent insertion of fuse in NZ01 and NZ02 fuses



Lockout Hasps

Lockout Hasps enable up to 6 workers to lock out the same point of machinery.

Model	Shackle Diameter	Padlock Holes	Jaw Size
SLH-30	8 mm	6	30 mm
SLH-31	9 mm	6	30 mm
SLH-42	9 mm	6	25 mm
SLH-44	9 mm	6	38 mm
SLH-52	9 mm	6	28 mm
SLH-40	9 mm	6	25 mm
SLH-41	9 mm	6	38 mm
SLH-12	9 mm	12	25 mm
SLH-24	9 mm	24	28 mm
SLH-70	8.5 mm	6	-



Cable Lockouts

Thread the cable into and or around device, continue pulling cable until tight, close the red lockout handle and place up to 4 padlocks and tags as needed.

MFL-2P - Cable Lockout Device

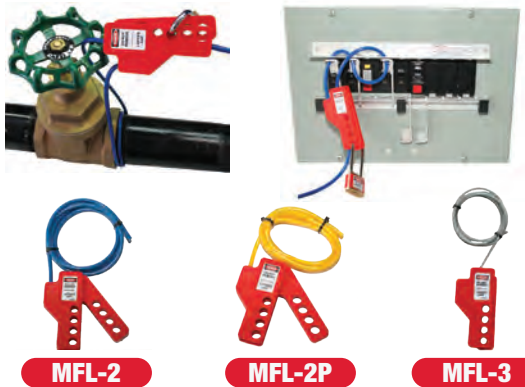
Lockout several Points, Gate Valves, Steering Wheels & other equipment
Plastic Housing with 5mm PVC coated Steel Wire Cable
Extra Cables available - 2, 6 and 15 metre (other sizes on request)

MFL-2P - 5mm Non Conductive/Plastic

Use where metal parts are not wanted eg inside electrical cabinets
Made from durable plastics with 5mm Cable

MFL-3 - 3mm Thin Steel Cable

Thin Cable Lockout for devices with small lockout holes.
Coated Steel Wire Cable - 1 metre or 2 metre
Made from durable plastics with 3mm cable



Model	Description
MFL-2	Extra Cables available - 2, 6 and 15 m
MFL-2P	Cable Lockout with 1 and 2 m plastic Cable
MFL-3	Thin Cable Lockout with 1 and 2 m Steel Cable

Plug Lockouts

Place Electrical Plug or Hose End into case, close and lock with padlock

PLD-1 - Plug and Hose Lockout Bag

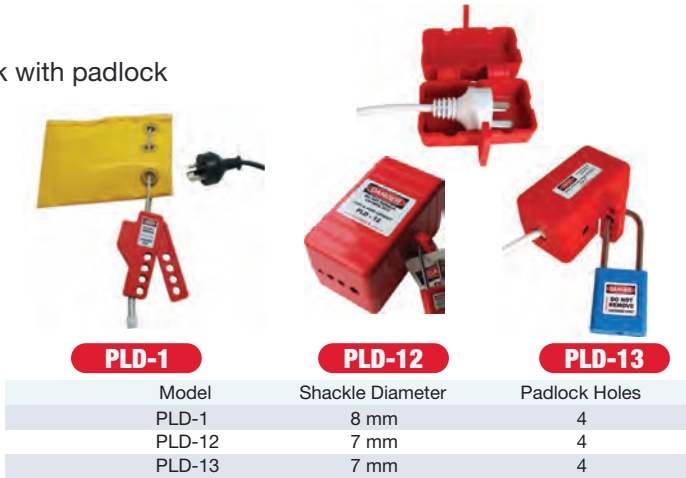
Heavy Duty Vinyl Bag with Steel Wire closing cord. Simple to use, place cord or hose end in bag, tighten cord around plug/hose with the attached cord clasp. Close cord clasp and place padlock and tag in holes provided.

PLD-12 - Plug Lockout Device - Large

Made from spark resistant high impact ABS plastic.
Suitable for 3 phase plugs and air hoses of various sizes
NOTE: Not suitable for Clipsal 33A plug, use PLD-2.

PLD-13 - Plug and Hose Lockout (240 Volts)

Made from spark resistant high impact ABS plastic.
Suitable for 240v size plugs and air hoses of various sizes



Model	Shackle Diameter	Padlock Holes
PLD-1	8 mm	4
PLD-12	7 mm	4
PLD-13	7 mm	4

Valve Lockouts

Gate Valve Lockouts

Wrap around valve handle and lockout out with Padlock

GVL-1a - Gate Valve Lockout - Adjustable

Can Lock Out Gate V alves up to 165mm (1" t o 6 1/2")
4 padlock holes up to 8.5mm shackle
Made from durable polypropylene
Covers and rotates freely around the valve handle

GVL-2-10 - Gate Valve Lockouts - Individual

Available in 5 different sizes
Chemical and heat resistant - made from strong Polyurethane
Once locked they swivel freely around Gate Valve handle
Available for handle diameter 50mm (2") t o 350mm (14")
Can be purchased individually or in a pack including on of each size



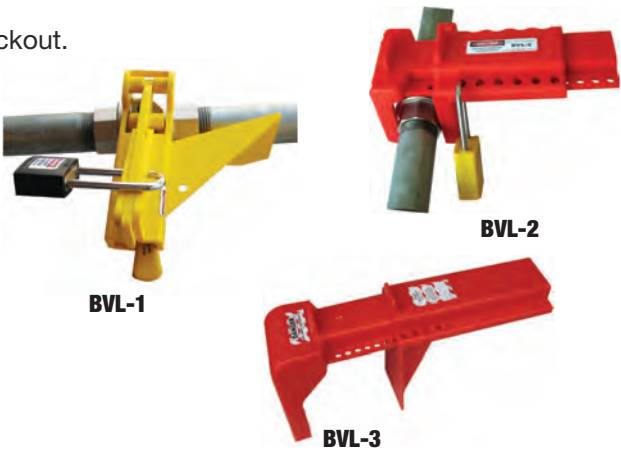
Logout - Tagout

Ball Valve Lockout

Lockout the valve with a padlock attached to the Ball Valve Lockout.

▼ BVL-1 - Ball Valve Lockout

Can Lock Out most Ball V alves 10 - 32mm (3/8" - 1 1/4")
Will also lock Valve in Open position on most Ball Valves
Great chemical resistance - made from tough Polypropylene plastic
Accommodates padlocks up to 6.5mm shackle diameter
'One-Piece' design - very easy to use - simply slide on handle and squeeze
NOTE: BVL-1 will only lock out valves with handles opening anti-clockwise
Can accomodate handles with a width of maximum 25mm



▼ BVL-2 - Ball Valve Lockout

Can Lock Out most Ball Valves 10mm -32mm (3/8" to 1 1/4") Left or Right turning
Great chemical resistance - made from tough Polyurethane plastic
Accommodates padlocks up to 7mm shackle diameter
Can lock in On & Off position

▼ BVL-3 - Ball Valve Lockout

Can Lock Out most Ball Valves 10mm -32mm (3/8" to 1 1/4") Left or Right turning
Great chemical resistance - made from tough Polyurethane plastic
Accommodates padlocks up to 7mm shackle diameter

Model	Ball Valves
BVL-1	10 - 32mm (3/8" - 1 1/4")
BVL-2	10mm -32mm (3/8" to 1 1/4")
BVL-3	10mm -32mm (3/8" to 1 1/4")

Safety Lockout Padlocks

Padlocks are Keyed Individually as standard. Keyed Alike and Master Keyed also available (except for in the SLP-150 series).



Brass Body With Coloured Sleeve
50mm Shackle



Nylon Body, 38mm Shackle
(Stainless Steel)



Nylon Body 50mm Shackle
(Stainless Steel)



Nylon Body, 38mm Shackle
(Non Conductive)

Model	Description
SLP-150-XXX	Economy Padlock - Keyed Differently - Single Pack
SLP-150-XXX- 2 KEY	Economy Padlock - Keyed Differently - Single Pack - 2 Keys
SLP-438-XXX	Safety Padlock - Keyed Differently - Single Pack
SLP-438-XXX-KA	Safety Padlock - Keyed Alike - Single Pack
SLP-438-XXX-MK	Safety Padlock - Master Keyed - Single Pack
SLP-450-XXX	Safety Padlock - Keyed Differently - Single Pack
SLP-450-XXX-KA	Safety Padlock - Keyed Alike - Single Pack
SLP-450-XXX-MK	Safety Padlock - Master Keyed - Single Pack
SLP-550-XXX	Safety Padlock - Keyed Differently - Single Pack
SLP-550-XXX-KA	Safety Padlock - Keyed Alike - Single Pack
SLP-550-XXX-MK	Safety Padlock - Master Keyed - Single Pack

Group Lock Box

Ensures lockout of energy sources on largers projects until all workers have removed their locks.

▼ Group Lock Box - 16 Padlocks

Sturdy Metal Construction
Size 155mm x 255mm x 105mm
Lockout holes for up to 13 padlocks
Use as Group Lock Box, and/or for Padlock Storage
Available in Red as standard - other colours available upon request
Has convenient carry handle.



GLB-6-RED



GLB-8-YLW

▼ Group Lock Box - 29 Padlocks

Made from tough ABS Plastics
Clear sliding lid, can view keys inside
Holes for Wall Mounting
Standard in H igh Visibility Y ellow
Dimensions: 330mm w x 280mm h x 90mm

KLEVER XCHANGE

Safety Knife



KCJ-XC-20R
The narrow blade head (20) is ideal for standard applications and includes two openings for double the usage.



KCJ-XC-30B
The wide blade head (30) is ideal for thicker substrates including double-wall corrugate.



KCJ-XC-35G
The multipurpose wide blade head (35) is ideal for thicker substrates and multipurpose use.



KCJ-XC-35G
The multipurpose wide blade head (35) features an integrated tape splitter on the head as well as the handle!



KCJ-XC-35Y
The multipurpose wide blade head (35) features a bladeless scraper, further expanding the XChange's versatility and usefulness!



KCJ-XC-40X
The Kurve blade head (40) is a versatile head option for abrasive and unique substrates.



Innovative Plastic Tape Splitter Available in the yellow handle ONLY.



Available in Red, Orange, Yellow, and Blue.

Safety and Convenience

- Recessed blade reduces cut injuries and damaged goods.
 - Cuts boxes, film, tape, and thousands more applications.
 - Ergonomic 'Soft Touch' handle reduces hand fatigue and stress.
 - Innovative Metal Tape Splitter
 - Advanced Plastic Polymers - Soft grip handle.
 - Highest Safety Level.
 - Interchangeable, replaceable head.
- (1 pre-loaded per handle. Additional sold separately.)

Product	Description
KCJ-XC-20 Klever X-Change (narrow cut head)	Available in Yellow, Orange, Red, Blue
KCJ-XC-20 Klever X-Change (narrow cut head)	Available in Yellow, Orange, Red, Blue
KCJ-XC-30 Klever X-Change (wider cut head)	Available in Yellow, Orange, Red, Blue
KCJ-XC-30 Klever X-Change (wider cut head)	Available in Yellow, Orange, Red, Blue
KCJ-XC-35 Klever X-Change (Wider cut head with Scraper)	Available in Yellow, Orange, Red, Blue
KCJ-XC-35 Klever X-Change (Wider cut head with Scraper)	Available in Yellow, Orange, Red, Blue



KLEVER XCHANGE
REPLACEMENT BLADE HEADS™

Interchangeable, snap-in heads built for use with our entire line of X Change™ safety cutters.



KLEVER HOLSTER™

Safely store and carry Klever X Change™ safety cutters and replacement blade heads



The brand name is originated by our non-stop innovation and development to expand the market and the focus for the Protective Equipment and improve the safety aware of the users. Since then up to now, is accepted as one of reputable supplier for Safety Equipment and its services in Vietnam.

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