

SAFETY SOLUTIONS FOR RAILWAY COACH MANUFACTURING & WORKSHOP



Head Protection



Eye & Face Protection



Hearing Protection



Respiratory Protection



Welding Shield



Hand Protection



Protective Clothing



Fall Protection



Spill Control Solutions



Ergonomics Solutions

Who we are

Bison Life®, headquartered in Alpharetta, USA, is a one-stop-shop for Industrial Safety, Industrial Cleaning, Food Safety, Health Care, and Household products in the North American market. Founded in 2009, With a steadfast commitment to customer satisfaction, we aim to surpass expectations by providing exceptional customer service, enhanced flexibility, and cost-saving solutions for in-store and retail operations.



10+M

Work Force

Protected everyday.



30+

Industries

Providing protection to over 30 Specific industries.



40M

Products

More than 40M products manufactured every year.



50

States

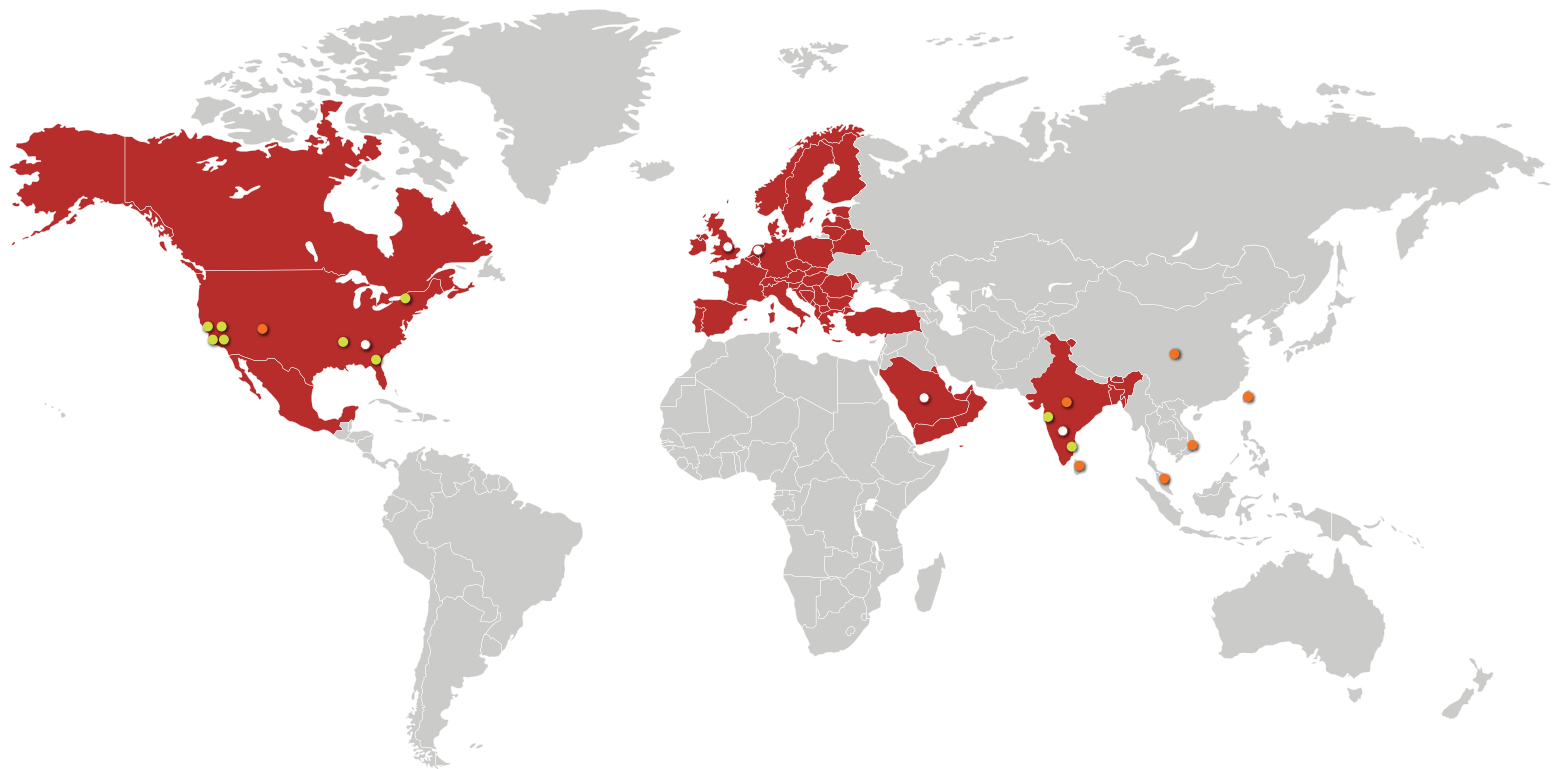
Serving customers in all the 50 states of USA.

Designed For Safety. Value For Life.

History

In 2009, during the height of a global recession an idea was born on an extremely cold winter night in Wyoming. Drawing inspiration from the resilience of a herd of bison huddled in the cold, the founder had a vision to build an organization that could stand the test of time. From humble beginnings starting with 6 products the company has grown to several thousand products shipping to customers globally. Looking forward, the organization continues to grow by becoming a one-stop shop for the ever evolving needs of various industries and sectors worldwide. Designed for Safety, Value for Life®

WORLD OF BISON LIFE



● Global Foot Print

○ Headquarters

Global Corporate

Bison Life® USA, Alpharetta, GA

Regional

Bison Life® India, Bengaluru | Bison Life® UK, London

Bison Life® Europe, Netherland | Bison Life® UAE, Middle East

● Manufacturing

USA | India | Taiwan | Malaysia | Sri Lanka | PRC

● Warehouse

Colton, California | Little Rock, Arkansas
Corona, California | Morristown, New Jersey
Forest Park, Georgia | Laverne, California
Ontario, California | Bhiwandi, Mumbai
Sholavaram, Chennai

Total Sustainability Solution

Project Gigaton

A strategic partnership with Walmart Sustainability



1 MW

Solar panels installed through 2.5 Acres



130 M

Bison Life[®] has saved more than 130 million plastic bottles from going into landfills annually.



200 MW

100 Windmills of 2 MW installed



Recycled Product

Green Seal-certified Stripping and Cleaning pads



30,000 MT

30,000 Metric tons of CO₂e is reduced through Water treatment plant installation



Packaging

BRICK Specialty Packing saves space Up to 75% more cases per cube, pallet, container, bin. Easier inventory count and easier shipping/handling



Plastic Bottles to Gloves



Biodegradable Gloves



Biodegradable Earplugs



End-of-life Li-ion Waste Battery Management System



Recyclable Safety Glasses

RECYCLED GLOVES

PLASTIC BOTTLES TO HAND GLOVES



Yarn is used to make gloves



Plastic bottle



Processed to tiny chips



Chips melted to pellets



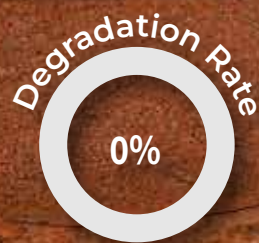
Pellets are spun into yarn



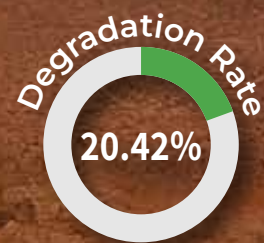
3R Recycle
Renew
Reuse

BIODEGRADABLE EARPLUGS

ENVIRONMENT FRIENDLY



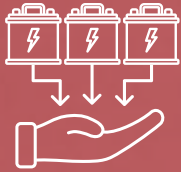
Day 1



Day 45



END-OF-LIFE LI-ION BATTERY WASTE MANAGEMENT SYSTEM



Collection



Consolidation



Recycling



Renewal



COMMUNITY AWARENESS & OUTREACH
PROGRAM FOR E-WASTE MANAGEMENT



Our Brands



Industrial Safety

Safe Handler® is a trusted brand dedicated to excellence in industrial safety. We offer a comprehensive range of personal safety equipments (PPE's) to fulfill every industrial safety requirement.



Industrial Cleaning

Kleen Handler® is a dedicated brand committed to excellence in industrial cleaning. We offer a comprehensive range of disposable, reusable, and biodegradable products to fulfill every industrial cleaning needs.



Food Safety Products

At Kleen Chef®, we are dedicated to achieving food safety excellence. We offer a full line of high-quality kitchen safety gear that sets the industry standard for comfortable and reliable protection in the workplace and to meet all your food safety needs.



Household Protection

Discover the excellence in household products with the Popular Life® brand. We cater to every household need, offering a wide range of disposable, reusable, and biodegradable products.



Healthcare Protection

The Zayaan Health® brand is dedicated to upholding healthcare excellence. Our comprehensive range encompasses disposable, reusable, and biodegradable options to cater to every healthcare safety need.



**Head
Protection**



**Hand
Protection**



**Eye & Face
Protection**



**Protective
Clothing**



**Hearing
Protection**



**Fall
Protection**



**Respiratory
Protection**



**Spill Control
Solutions**



**Welding
Helmets**



**Ergonomics
Solutions**

Regulatory

CE Information

In the EU, all products defined as PPE (Personal Protective Equipment) are covered by the PPE Regulation 2016/425. It is a mandatory requirement that the CE mark is affixed to all PPE provided all the appropriate elements of the Regulation are satisfied. **Without the CE mark, the product cannot be sold in the EU as PPE.** The package itself can be marked if product marking is not appropriate.



CATEGORY 1

For Minimal Risks Only.

PPE's in this category are designed to protect against the risk that are minimal.



CATEGORY 2

The risk is not classified as minimal

PPE's in this category are designed to protect against the risk that are not minimal.



CATEGORY 3

intended to protect against mortal and irreversibly damage health

PPE's in this category are designed to protect against the highest level of risk.

PPE Assessment And Markings

| CERTIFICATION RULES | CATEGORY I | CATEGORY II | CATEGORY III |
|--|---|---|--|
| Classification | Minor Risk | Intermediate Risk | Mortal Risks Or Irreversible |
| Obligations of the Manufacturer | Technical file of the PPE Declaration of conformity User instruction CE marking | Category I EU type examination by a Notified Body (module B) | Category II Annual PPE surveillance by a Notified Body (Module C2 or D) Affix the number of the Notified Body on the marking |
| Marking | | | |



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Smart Safety Solutions 138-141



Hazards involve in Railway Coach manufacturing and workshop environments

Railway manufacturing and workshop environments involve multiple hazards due to heavy machinery, electrical systems, and material handling. Here are the key hazard categories:



Raw Material & Parts

Hazards:

Sharp edges, falling materials
Manual handling injuries
Slips/trips
Oil & Chemical spillage

PPE:

Safety helmet
Cut-resistant gloves
Safety shoes
High-visibility vest
Respirator at bulk storage area
Safety eyewear
Environmental & Prevent slip hazard
Spill kits

Sheet Metal Cutting & Bending

Hazards:

Cuts from sharp sheets
Flying metal particles
High noise levels

PPE:

Cut-resistant gloves
Safety goggles / face shield
Earplugs / earmuffs
Safety shoes
Hardhat

Welding & Assembly Sections

Hazards:

Welding arc radiation
Burns & sparks
Toxic fumes
Electric hazards

PPE:

Welding shield
Welding purpose gloves
Flame-resistant clothing
Respirator
Safety shoes



Fitting & Machining Sections

Hazards:

Rotating machinery (entanglement)
Flying chips
Noise & vibration

PPE:

Safety goggles
Cut-resistant gloves
Ear protection
Safety shoes
Hardhat



Panel, Paint & Furnishing Sections

Hazards:

Paint mist & chemicals
Skin irritation
Fire risk

PPE:

Respirator (organic vapor)
Chemical-resistant gloves
Safety goggles
Coveralls
Safety shoes



Electrical & Wiring Sections

Hazards:

Electric shock
Arc flash
Short circuits

PPE:

Insulated gloves
Arc-rated face shield
Electrical safety shoes
Helmet with noncontact voltage detector



Inspection & Testing

Hazards:

Unexpected equipment movement
Electrical exposure
Minor mechanical risks

PPE:

Safety helmet
Gloves
Safety shoes
Eye protection
Hardhat



Final Assembly

Hazards:

Heavy component handling
Pinch/crush points
Tool-related injuries

PPE:

Safety helmet
Gloves
Safety shoes
High-visibility vest



Quality Control

Hazards:

Sharp edges
Minor mechanical risks

PPE:

Safety shoes
Gloves
Eye protection

Common PPE Across All Processes

Helmet

Safety shoes

Gloves

Eye protection

Hearing protection (where required)

HEAD
PROTECTION

TorShell[®]

Head Protection

Essential for Workplace Safety

In the dynamic realm of industrial safety, there's no compromise when it comes to protecting the most vital asset: the head. In the fast-paced, high-risk settings of industrial workplaces, the human head is vulnerable to a myriad of hazards. TorShell® range of Safety Helmets protects from falling debris to unexpected collisions, the risks are omnipresent. Bison Life® rises to the challenge, offering a comprehensive solution designed to fortify against these threats and ensure safety from the top down.

Why Head Protection Matter?

Protecting your head is crucial for staying safe at work. Whether you're in construction, manufacturing, or any other industry, wearing the right headgear can prevent serious injuries and even save lives.

Understanding the Importance

Head injuries can be severe and sometimes life-threatening. Wearing a helmet or other head protection can reduce the risk of head injuries from falling objects, bumps, or impacts. It's not just about avoiding cuts or bruises; head protection can prevent traumatic brain injuries that can have long-term effects on your health and well-being.

Choosing the Right Gear

Selecting the right head protection is essential. Helmets should fit properly and meet safety standards to ensure they provide adequate protection. Different workplaces may require different types of headgear, so it's essential to understand the specific hazards you face and choose gear accordingly.

Making Safety a Priority

Prioritizing head protection means taking proactive steps to keep yourself safe. It's not just a matter of following rules or regulations—it's about looking out for your own well-being and the well-being of your colleagues. By wearing proper headgear, you're not only protecting yourself but also setting an example for others to follow.

EN 397 is a European standard specifying the requirements for industrial safety helmets. The standard covers a range of performance requirements to ensure adequate protection for the wearer under typical conditions encountered in industry.

key aspects of EN 397 standard:

- **Impact Protection:**

Helmets must be able to withstand the force of an object falling from a height. This is tested by dropping a specified weight onto the helmet from a specified height.

- **Penetration Resistance:**

Helmets must resist penetration from sharp objects, tested by dropping a pointed object onto the helmet.

- **Chin Strap Anchorage:**

If the helmet includes a chin strap, it must not detach when subjected to forces typical of industrial use.

- **Flammability:**

Helmets must be made from materials that do not easily ignite and burn.

- **Shock Absorption:**

Helmets must absorb a significant amount of the impact force, reducing the amount transmitted to the wearer's head.

Optional Requirements (Additional Protections)

● Resistance to Extreme Temperatures:

Helmets can be tested for performance in extreme cold or heat, ensuring they protect a range of environmental conditions.

● Electrical Insulation:

Some helmets are tested for their ability to protect against electrical shocks.

● Molten Metal Splash Resistance:

Helmets can be tested for resistance to molten metal splashes, making them suitable for use in foundries and similar environments.

● Lateral Deformation:

Helmets may be tested for their ability to withstand side compression, providing additional protection in environments where lateral impacts are a risk.

Marking and Information:

Helmets that meet the EN 397 standard must be marked with:

- The manufacturer's name or logo.
- The model or type of helmet.
- The year and quarter of manufacture.
- The standard number (EN 397).
- Any additional optional requirements met.

Use and Maintenance:

Inspection: Helmets should be regularly inspected for damage or wear and replaced if necessary.

Cleaning: Helmets should be cleaned with mild soap and water, avoiding the use of solvents or harsh chemicals that could degrade the material.

Storage: Helmets should be stored away from direct sunlight and chemicals when not in use to prolong their life.

EN 397 safety helmets are crucial in providing head protection in industrial settings, ensuring worker safety by mitigating the risks associated with head injuries.

IS 2925 is an Indian Standard specification for industrial safety helmets, similar to the EN 397 standard in Europe. It specifies the requirements and testing methods for helmets used to protect the heads of industrial workers from various hazards, including impact and penetration.

key aspects of IS 2925 standard

● Material Requirements:

The helmet's shell and harness must be made from materials that provide adequate protection and durability.

● Design and Construction:

Helmets must be designed to offer maximum coverage and comfort while ensuring stability and protection. They must have a smooth, rounded outer surface without any sharp projections.

● Performance Requirements:

Impact Resistance: Helmets must absorb a specified amount of energy to protect the wearer's head from impacts.

Penetration Resistance: Helmets must resist penetration by sharp objects to prevent punctures and other injuries.

Flame Resistance: The materials used in the helmet must resist ignition and quickly self-extinguish to provide protection in fire situations.

Electrical Insulation: Helmets must offer protection against accidental contact with live electrical conductors up to specified voltage levels.

Water Absorption: Helmets must not absorb more than a certain amount of water to maintain their protective qualities even in wet conditions.

● Marking and Labeling:

Helmets complying with IS 2925 must be clearly marked with:

- The ISI mark (indicating compliance with the standard).
- The manufacturer's name or trademark.
- The year of manufacture.
- The model number or designation.
- Instructions for use and maintenance

● Testing Methods:

The standard specifies various tests to assess the helmet's performance, including:

Impact Test: Dropping a specified weight from a set height onto the helmet.

Penetration Test: Dropping a pointed object onto the helmet to test resistance.

Flame Resistance Test: Exposing the helmet to a flame and observing its reaction.

Electrical Insulation Test: Applying a specified voltage to the helmet and measuring the leakage current.

Water Absorption Test: Immersing the helmet in water for a specified duration and measuring the amount of water absorbed.

Industrial safety helmets complying with IS 2925 provide workers with essential protection against head injuries in various industrial environments, ensuring their safety and well-being. These helmets are mandatory in many industries and are subjected to rigorous testing and certification processes to meet the standard's requirements.

key aspects of EN 812 standard:

EN 812 is the European standard that specifies the requirements for industrial bump caps, which are designed to protect the wearer from head injuries caused by striking the head against hard, stationary objects. Unlike traditional safety helmets, bump caps are intended for use in environments where there is no risk of falling objects but where there is a danger of accidental bumps.

Key features include:

- **Impact Resistance:**

Bump caps must provide sufficient protection against impacts to the head, as specified by the standard.

- **Material Durability:**

Bump caps must be made from materials that can withstand impacts and wear during normal use.

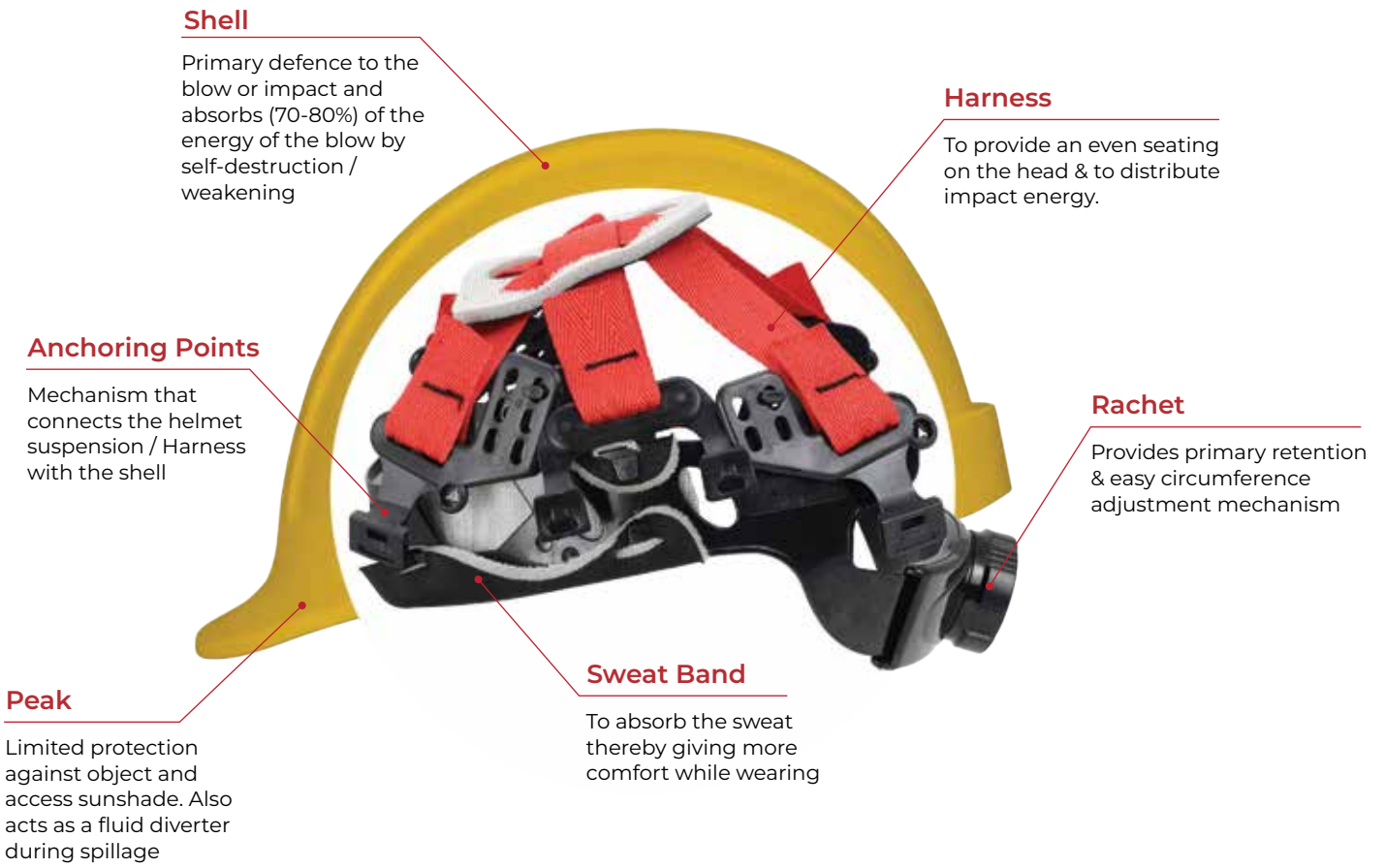
- **Design Requirements:**

The caps should cover the top of the head and have an adjustable fit for comfort and security.

EN 812 ensures that bump caps offer adequate protection in low-risk environments, complementing other personal protective equipment (PPE) used in the workplace.



Know Your Safety Helmet



8-point

nylon suspension for better protection



Unique 3-point

height adjustment in suspension



Shell

HDPE / ABS



Harness

Nylon



Suspension

HDPE



Ratchet

Rotating
Push & Rotate



Air Circulation

Vented



Sweat Pad

Soft Foam

BC3232

Breathable Bump Cap with Rechargeable LED Light (3 Modes), Available with chinstrap option.



Press Once Glare Light
Press Twice Low Light
Press Thrice SOS Warning Light

Available Colours



Product Specification

| | |
|--------------------|-------------------------|
| Outer Material | Polyester |
| Inner Shell | ABS |
| Size | Universal |
| Style | Baseball Style |
| Reflective Stripes | Yes |
| Closure Type | Elastic Strap with clip |
| LED | 3 Modes |

Packaging Information

| |
|--------------------|
| 1 Piece / Polybag |
| 20 Pieces / Carton |

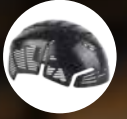
| Product SKU | Size | Colour | Inner pack UPC | Carton GTIN |
|----------------|------|--------|----------------|----------------|
| BLSH-BC-M3-LED | OSFM | Green | 810148533656 | 00810148533663 |



CE EN 812:2012



Breathable Mesh



Impact Resistant ABS Shell



Foam Padding for Comfort



3 Mode LED Light



USB Rechargeable Light

BC3131

Breathable Bump Cap with HDPE Shell & Anti-Shock Foam Cushioning

CE EN 812:2012



Available Colours



Product Specification

| | |
|--------------------|-------------------------|
| Outer Material | Polyester |
| Inner Shell | HDPE |
| Size | Universal |
| Style | Baseball Style |
| Reflective Stripes | Yes |
| Closure Type | Elastic strap with clip |

Packaging Information

| |
|--------------------|
| 1 Piece / Polybag |
| 40 Pieces / Carton |

| Product SKU | Size | Colour | Inner pack UPC | Carton GTIN |
|-------------------|------|-----------|----------------|----------------|
| BLSH-MS-PFBC-BK-1 | OSFM | Black | 810148533670 | 00810148533687 |
| BLSH-MS-PFBC-BL-1 | OSFM | Navy Blue | 810148533694 | 00810148533700 |
| BLSH-MS-PFBC-O-1 | OSFM | Orange | 810148533717 | 00810148533724 |
| BLSH-MS-PFBC-GR-1 | OSFM | Green | 810148533731 | 00810148533748 |

BC3241

Bump Cap

CE EN 812:2012



Available Colours



Product Specification

| | |
|--------------|----------------|
| Material | Polycotton |
| Shell | ABS |
| Size | Universal |
| Style | Baseball Style |
| Closure Type | Velcro |

Packaging Information

| |
|--------------------|
| 1 Piece / Polybag |
| 40 Pieces / Carton |

| Product SKU | Size | Colour | Inner pack UPC | Carton GTIN |
|------------------|------|--------|----------------|----------------|
| BLSH-MS-FBC-BL-1 | OSFM | Blue | 810090087399 | 00810090087405 |
| BLSH-MS-FBC-BK-1 | OSFM | Black | 810090087412 | 00810090087429 |

HL3221 Non-Vented ABS Helmet

CE 2233 EN 397:2012 +A1:2012  ISEA Z 89.1 - 2014   



Available Colours



Product Specification


| | |
|---------------------------|---------------|
| Shell | ABS |
| Harness | HDPE |
| Suspension | 8 Point Nylon |
| Sweatband | Yes |
| Chin Strap | Yes |
| Adjustment Type | Ratchet |
| Shell weight | 310 ± 15g |
| Shell with Harness weight | 440 ± 15g |

Packaging Information

| |
|--------------------|
| 1 Piece / Polybag |
| 28 Pieces / Carton |

| Product SKU | Size | Colour | Inner pack UPC | Carton GTIN |
|--------------------|------|--------|----------------|----------------|
| BLSH-ES-ABS-HHN7Y | OSFM | Yellow | 810090089485 | 10810090089482 |
| BLSH-ES-ABS-HHN7BL | OSFM | Blue | 810148535834 | 00810148535865 |
| BLSH-ES-ABS-HHN7W | OSFM | White | 810090089492 | 10810090089499 |

HL3421 Vented ABS Helmet

CE EN 397:2012 +A1:2012 



Available Colours



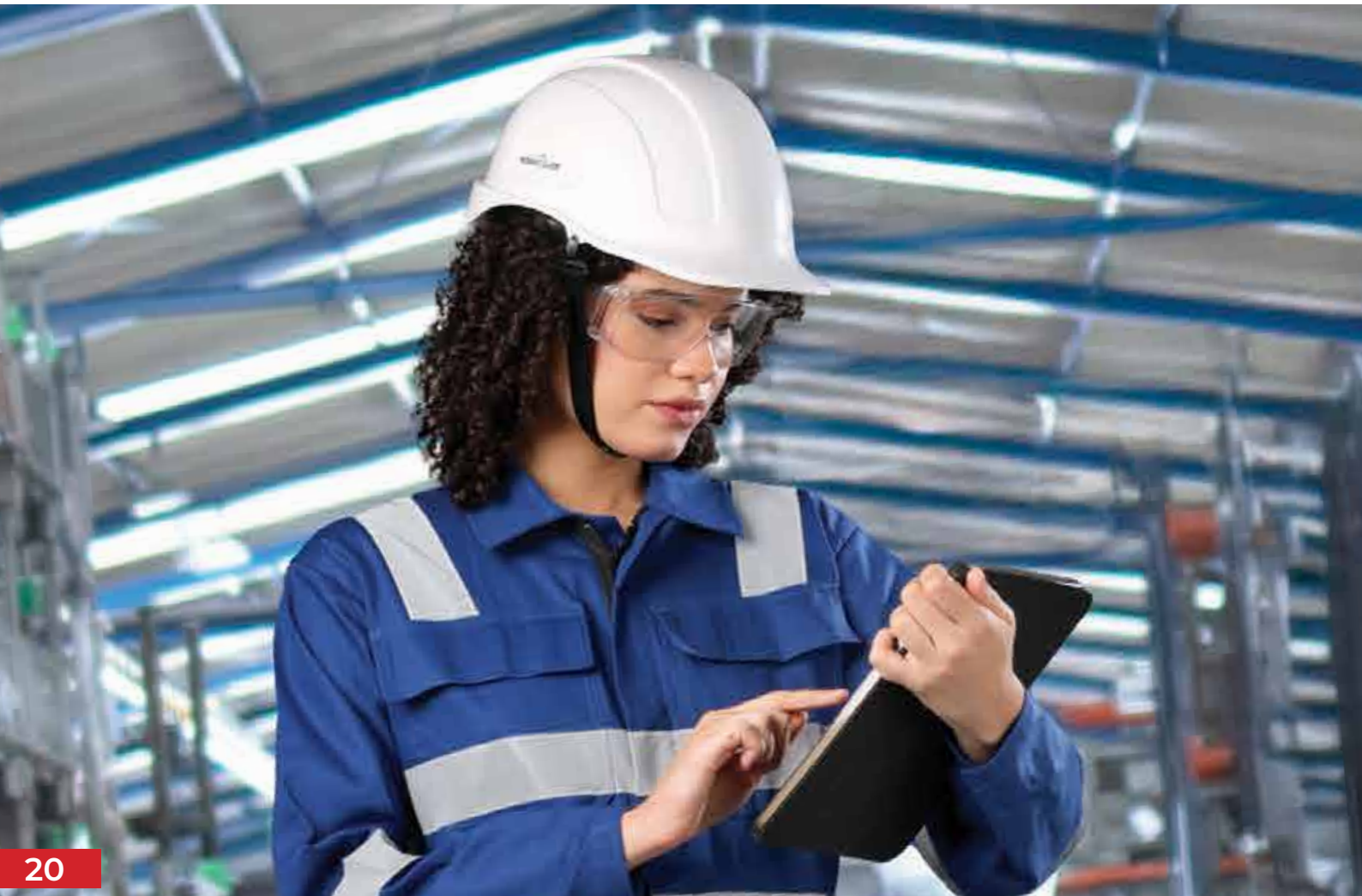
Product Specification

| | |
|---------------------------|---------------|
| Shell | ABS |
| Vented | Yes |
| Harness | HDPE |
| Suspension | 8 Point Nylon |
| Sweatband | Yes |
| Chin Strap | Yes |
| Adjustment Type | Ratchet |
| Shell weight | 310 ± 15g |
| Shell with Harness weight | 440 ± 15g |

Packaging Information

| |
|--------------------|
| 1 Piece / Polybag |
| 28 Pieces / Carton |

| Product SKU | Size | Colour | Inner pack UPC | Carton GTIN |
|--------------------|------|--------|----------------|----------------|
| BLSH-ES-ABS-HHV8Y | OSFM | Yellow | 810090089553 | 10810090089550 |
| BLSH-ES-ABS-HHV8BL | OSFM | Blue | 810148535858 | 00810148535841 |
| BLSH-ES-ABS-HHV8W | OSFM | White | 810090089560 | 10810090089567 |



EYE

PROTECTION

VisonSafe[™]

Eye Protection

Essential for Workplace Safety

In today's fast-paced workplaces, protecting your vision is paramount. That's why VisonSafe™ offers a range of cutting-edge eye protection solutions designed to keep your eyes safe from a variety of workplace hazards. At Bison Life®, we understand the importance of clear vision and the potential risks your eyes face every day. Our safety glasses, goggles, and face shields are meticulously crafted using high-quality materials to provide durability, comfort, and maximum protection.

Why Eye Protection Matter?

Protecting your eyes is crucial for staying safe at work. Whether you're in construction, manufacturing, healthcare, or any other industry, wearing the right eye protection can prevent serious injuries and safeguard your vision.

Understanding the Importance

Eye injuries can be severe and sometimes lead to permanent vision loss. Wearing safety glasses, goggles, or face shields helps shield your eyes from flying debris, chemicals, bright lights, and other hazards. This protection is vital for preventing injuries that could affect your ability to see clearly.

Choosing the Right Gear

- **Safety Glasses:** Lightweight and comfortable, these are ideal for protecting against dust, particles, and minor impacts.
- **Goggles:** Provide a secure seal around the eyes, offering protection from chemicals, splashes, and fine dust.
- **Face Shields:** Cover the entire face, providing additional protection against splashes, chemical spills, and high-velocity impacts.
- **Welding Helmets:** Designed to protect the eyes and face from intense light and sparks during welding operations.
- **Sunglasses with UV Protection:** Essential for outdoor workers to protect against harmful ultraviolet (UV) rays.
- **Prescription Safety Glasses:** Prescription safety glasses are essential for individuals who need vision correction and work in environments with potential eye hazards.

Making Safety a Priority

Prioritizing eye protection means understanding the risks and choosing the appropriate gear. It's not just about following workplace rules; it's about protecting your vision and overall health. Always wear the right protection for the job and ensure it fits properly.

EN 166 is a European standard that sets out the requirements for personal eye protection. This standard covers a wide range of protective eyewear, including safety glasses, goggles, and face shields, designed to shield the eyes from various hazards in the workplace or other environments.

key aspects of EN 166 standard:

● Impact Resistance:

Eyewear must provide adequate protection against high-speed particles and projectiles, ensuring they do not shatter upon impact.

● Optical Quality:

Lenses must have minimal optical distortion to provide clear vision without causing discomfort or eye strain.

● Protection Against Ultraviolet (UV) Radiation:

Some eyewear may offer UV protection to shield the eyes from harmful UV rays, which can cause long-term damage to the eyes and surrounding skin.

● Frame Durability:

Frames should be robust and capable of withstanding mechanical stresses without breaking or deforming.

● Comfort and Fit:

Eyewear should be comfortable to wear for extended periods, with adjustable features to ensure a secure and personalized fit for different users.

● Resistance to Chemicals and Liquids:

Eyewear may be tested for resistance to various chemicals and liquids, depending on the intended use and workplace hazards.

● Marking and Labeling:

Each piece of eyewear must be marked with relevant information, including the manufacturer's details, lens properties (e.g., optical class, UV protection), and compliance with the EN 166 standard.

By adhering to the requirements outlined in EN 166, manufacturers ensure that their protective eyewear offers reliable protection against common workplace hazards, promoting safety and reducing the risk of eye injuries. It's important for employers and workers to select eyewear that meets the appropriate standards for their specific tasks and environments to ensure optimal protection and comfort.

Key Aspects of ISO 16321-1:2021

● Adaptability to Emerging Risks:

ISO 16321-1:2021 addresses emerging risks, such as protection against ultraviolet and infrared radiation, which may not be fully covered by EN166:2001 but under other standards such as EN170, EN171. This guarantees more complete protection in constantly changing work environments since ISO 16321-1:2021 covers them all.

● Personalized Risk Assessment:

The new standard places strong emphasis on the assessment of specific risks in the workplace, allowing for more precise selection of protective devices. This leads to more effective and personalized protection for workers.

● Labeling & Marking Improvements:

ISO 16321-1:2021 establishes detailed requirements for the labeling and marking of eye protection devices, facilitating quick and clear identification of the safety features provided.

● Incorporating Technological Advances:

By integrating the latest technological advances and scientific discoveries, the standard ensures that eye protection products are at the forefront of safety, leveraging innovations for greater effectiveness.

The ANSI Z87.1 standard, set by the American National Standards Institute, outlines the criteria for the design, construction, testing, and use of eye protection devices, including prescription safety glasses. The standard ensures that eyewear provides adequate protection against hazards such as impacts, chemicals, dust, and radiation.

Key Aspects of ANSI Z87.1

● Impact Protection:

High Impact: Tested by shooting a 1/4-inch steel ball at the lens at high speeds. High-impact lenses must withstand this without breaking.

Basic Impact: Requires lenses to withstand a lower impact force than high-impact lenses.

● Lens Markings:

Lenses marked with "Z87+" meet the high-impact protection standards.

Basic impact lenses will simply have "Z87" marked on them.

● Frame Markings:

Frames are marked with "Z87-2" if they can accommodate prescription lenses and meet the safety requirements.

Regular safety frames without prescription capabilities are marked "Z87."

● Lens Coatings and Features:

Anti-fog, anti-scratch, and UV protection coatings can be added to enhance the functionality and safety of the glasses.

Markings indicating specific features, such as "U" for UV protection and "V" for variable tint.

● Coverage and Fit:

Eyewear must provide adequate coverage to protect the eyes from different angles, including side protection.

Should fit securely and comfortably to ensure they stay in place during use.

● Specific Use Cases:

ANSI Z87.1 also covers specialized eyewear for protection against chemical splashes, dust, and optical radiation from welding and cutting operations.

Importance of Compliance

Compliance with ANSI Z87.1 ensures that safety glasses provide reliable and standardized protection in hazardous environments. Employers are responsible for providing appropriate eye protection to their workers, and ensuring compliance with this standard helps mitigate the risk of eye injuries.



SportzV®



REPLACEABLE LENS

Product Specification

| | |
|---------------|-----------------------|
| Frame | Nylon |
| Lens Material | Polycarbonate |
| Lens Colour | Clear |
| Anti-Fog | Yes |
| Anti-Scratch | Yes |
| UV Protection | Yes |
| Nose Bridge | TPR |
| Temple | Nylon with Rubber tip |

Packaging Information

| |
|------------------------|
| 1 Piece / Polybag |
| 12 Pieces / Bubblewrap |
| 144 Pieces / Carton |

| Product SKU | Size | Inner pack UPC | Carton GTIN |
|------------------------|------|----------------|----------------|
| BLSH-MS-SVSG-CLLCT-BKR | OSFM | 810090089393 | 00810090088839 |

CE EN 166

ANSI Z87.1

SportzV® Safety Glasses are lightweight, sturdy, protective, stylish, and comfortable.



ANTI-SCRATCH



ANTI-FOG



ANTI-SLIP TEMPLE



SOFT NOSE BRIDGE



BROW GUARD



LATERAL PROTECTION

Hicross® Plus Polycarbonate Lens with Soft Padding & Soft Temple Tip

CE EN 166 ANSI Z87+



Product Specification

| | |
|---------------|----------------------|
| Lens Material | Polycarbonate |
| Lens Colour | Clear / Black |
| Anti-Fog | Yes |
| Anti-Scratch | Yes |
| UV Protection | Yes |
| Nose Bridge | Integrated with lens |
| Temple | Polycarbonate |
| Padded Seal | Yes |



ANTI-FOG



ANTI-SCRATCH



PADDED SEAL



LATERAL PROTECTION



ANTI-SLIP TEMPLE

Packaging Information

| |
|------------------------|
| 1 Piece / Polybag |
| 12 Pieces / Bubblewrap |
| 144 Pieces / Carton |

| Product SKU | Size | Colour | Inner pack UPC | Carton GTIN |
|---------------------|------|--------|----------------|----------------|
| BLSH-VS-HCP-CLLCT | OSFM | Clear | 810188141361 | 00810188141385 |
| BLSH-VS-HCP-CLCT-BK | OSFM | Black | 810188141392 | 00810188141415 |

PrimeX™ IR5 Frameless Safety Glasses with Soft Temple Tip

CE EN 166 ANSI Z87.1



IR5

Product Specification

| | |
|---------------|-------------------------------|
| Lens Material | Polycarbonate |
| Lens Colour | IR5 |
| Anti-Fog | Yes |
| Anti-Scratch | Yes |
| UV Protection | Yes |
| Nose Bridge | Integrated with lens |
| Temple | Polycarbonate with Rubber tip |



Anti-Fog



Anti-Scratch



Anti-Slip Temple



Lateral Protection

Packaging Information

| |
|------------------------|
| 1 Piece / Polybag |
| 12 Pieces / Bubblewrap |
| 144 Pieces / Carton |

| Product SKU | Size | Inner pack UPC | Carton GTIN |
|------------------------|------|----------------|----------------|
| SH-PRXSG-FCBK-MS14-IR5 | OSFM | 810025605186 | 00810025605193 |

Duarte® Semi-Framed Safety Glasses (OTG)

CE EN 166 ANSI Z87.1



Comes with Cord

Product Specification

| | |
|---------------|-----------------------|
| Frame | Nylon |
| Lens Material | Polycarbonate |
| Lens Colour | Clear |
| Anti-Fog | Yes |
| Anti-Scratch | Yes |
| UV Protection | Yes |
| Nose Bridge | TPR |
| Temple | Nylon with Rubber tip |



Anti-Fog



Anti-Scratch



Brow Guard



Lateral Protection

Packaging Information

| |
|------------------------|
| 1 Piece / Polybag |
| 12 Pieces / Bubblewrap |
| 144 Pieces / Carton |

| Product SKU | Size | Inner pack UPC | Carton GTIN |
|-----------------------|------|----------------|----------------|
| BLSH-MS-OTGP-CLLCT-BK | OSFM | 810090089362 | 00810090088808 |

BoxerX® Frameless Safety Glasses with Adjustable Temples

CE EN 166 ANSI Z87.1



Comes with Cord

Product Specification

| | |
|-------------------|---------------|
| Lens Material | Polycarbonate |
| Lens Colour | Clear |
| Anti-Fog | Yes |
| Anti-Scratch | Yes |
| UV Protection | Yes |
| Nose Bridge | TPR |
| Adjustable Temple | Nylon |



Anti-Fog



Anti-Scratch



Soft Nose Bridge



Adjustable Temple



Multi Angle Adjustment Temple



Lateral Protection

Packaging Information

| |
|------------------------|
| 1 Piece / Polybag |
| 12 Pieces / Bubblewrap |
| 144 Pieces / Carton |

| Product SKU | Size | Inner pack UPC | Carton GTIN |
|----------------------|------|----------------|----------------|
| BLSH-MS-BOX-CLLCT-BK | OSFM | 810090089416 | 00810090088853 |

VisonSafe™

Prescription Safety Glasses



CE EN 166 EN ISO 16321-1

Prescription safety glasses are essential for individuals who need vision correction and work in environments with potential eye hazards.

Product Specification

| | |
|---------------|----------------------|
| Frame | Polycarbonate |
| Lens Material | Polycarbonate |
| Lens Colour | Clear |
| UV Protection | Yes |
| Nose Bridge | Integrated with lens |
| Temple | Polycarbonate |

Features

- **Lateral Protection**
Integrated side shields with a wraparound design for complete safety, shielding you from dust and debris
- **UV Protection**
Blocks harmful rays so your eyes stay safe, no matter the forecast
- **Safety Meets Style**
Eyewear that delivers both performance and protection. Whether at work or play, protect your eyes without compromising on comfort or aesthetics



Powered by

TITAN EYE+

HEARING
PROTECTION



NoiseGard[®]

Hearing Protection

Essential for Your Safety

Protecting your hearing is vital. Noise-induced hearing loss is often irreversible, making proactive measures essential. NoiseGard® provides advanced solutions designed to safeguard your ears in various noisy environments. Whether you're in a loud workplace, attending concerts, or participating in other activities with high noise levels, investing in quality hearing protection can help prevent long-term damage and preserve your hearing health.

Why Hearing Protection Matter?

Noise-induced hearing loss is one of the most common problems people face at work. It happens slowly and painlessly, so many don't notice it until it's too late. What makes it so serious is that once your hearing is damaged, it can't be fixed.

What is Noise?

Noise is made up of loud sounds that can damage your hearing. But it's not just your hearing that suffers; noise can also be annoying and distracting. Even quieter sounds, like a ticking clock or a dripping tap, can make it hard to concentrate.

What Happens When You're Exposed to Noise?

Every day, we're exposed to noise from all sorts of sources, which constantly stresses our ears. This daily noise can cause permanent hearing loss.

But noise affects more than just your ears. It can stress your entire body without you even realizing it. Constant noise can make it hard to concentrate, upset your stomach, raise your blood pressure, and even increase the risk of a heart attack.

That's why protecting your hearing is so important. It's not just about saving your hearing but also about keeping your whole body healthy. Make sure to use hearing protection in noisy environments to avoid these risks.

SNR, or Single Number Rating, is a measure used to indicate the effectiveness of hearing protection devices in reducing noise exposure. It represents the average sound reduction level in decibels (dB) that the device provides across different frequencies. A higher SNR value means better noise attenuation, offering greater protection against loud sounds.

Brief overview of how SNR is used:

- **Determine the noise level:**

Measure or estimate the average noise level in your environment.

- **Choose hearing protection with appropriate SNR:**

Select earplugs or earmuffs with an SNR that reduces the noise level to a safe threshold, typically below 85 dB.

- **Apply the SNR value:**

Subtract the SNR value from the measured noise level to estimate the effective noise exposure when wearing the protection.

For example, if you're in an environment with a noise level of 100 dB and use earplugs with an SNR of 30, the estimated noise exposure would be 70 Db.

Using products with appropriate SNR ratings ensures that you are effectively protecting your hearing based on the specific noise levels you encounter.

The **EN 352** series is a set of European standards that specifies the requirements for hearing protection devices. The series is divided into several parts, each addressing different types of hearing protection:

EN 352-1: Ear Muffs

This part of the standard specifies requirements for ear muffs, which are designed to reduce the level of noise reaching the ears.

Key aspects include:

- **Attenuation Levels:**

The ear muffs must provide adequate noise reduction (attenuation) levels, which are tested across different frequencies.

- **Design and Construction:**

Ear muffs must be comfortable to wear for extended periods, with adjustable headbands to ensure a secure fit.

- **Materials:**

The materials used should be durable and suitable for different environmental conditions.

- **Marking:**

Each ear muff must be clearly marked with the manufacturer's details, the standard number (EN 352-1), and the attenuation values.

- **Testing:**

Ear muffs must undergo various tests to ensure they meet the standard's performance criteria, including mechanical strength, temperature resistance, and hygiene requirements.

EN 352-2: Ear Plugs

This part of the standard specifies requirements for ear plugs, which are inserted into the ear canal to reduce noise levels.

Key aspects include:

- **Attenuation Levels:**

plugs must provide effective noise reduction, which is tested across different frequencies.

- **Design and Fit:**

Ear plugs should be designed to fit comfortably in the ear canal and stay in place during use.

- **Materials:**

The materials must be non-toxic, hypoallergenic, and durable.

- **Marking and Instructions:**

Each package of ear plugs must be marked with the manufacturer's details, the standard number (EN 352-2), and instructions for use.

- **Testing:**

Ear plugs must pass tests for mechanical properties, hygiene, and user comfort to ensure they meet the standard's performance criteria.

EN 352-3: Ear Muffs Attached to a Safety Helmet

This part of the standard specifies requirements for ear muffs that are integrated with or attached to a safety helmet.

Key aspects include:

- **Attenuation Levels:**

The ear muffs must provide effective noise reduction, similar to standalone ear muffs.

- **Compatibility:**

The ear muffs must be compatible with the specific safety helmets they are designed to be attached to.

- **Design and Construction:**

The attachment mechanism should allow the ear muffs to be securely fitted to the helmet and easily adjusted for user comfort.

- **Materials:**

The materials must be durable and suitable for the environments in which the helmet and ear muffs will be used.

- **Marking:**

Each pair of ear muffs must be marked with the manufacturer's details, the standard number (EN 352-3), and attenuation values.

- **Testing:**

Ear muffs attached to helmets must undergo tests to ensure they meet performance criteria, including mechanical strength, temperature resistance, and ease of attachment.

By complying with these standards, manufacturers ensure that their hearing protection devices provide adequate protection against harmful noise levels, are comfortable to use, and are durable in various environmental conditions.



Disposable & Re-usable Ear Plugs

NoiseGuard® Series

EP1112

Disposable Corded PU Ear Plug

€ 2797

EN 352-2:2020

Product Specification

| | |
|-----------|-------------------|
| Style | Disposable |
| Material | Polyurethane Foam |
| Colour | Orange |
| Shape | Tapered |
| SNR | 37dB |
| HML | 36,35,34 |
| Cord type | Corded |



Packaging Information

| |
|----------------------------|
| 1 Pair / Polybag |
| 500 Pairs / Master Polybag |
| 2000 Pairs / Carton |

| Product SKU | Size | Inner pack UPC | Carton GTIN |
|----------------|------|----------------|----------------|
| BLSH-ES-DCEP-O | OSFM | 810090089935 | 00810090089966 |

EP3232 | EP3232B

Re-usable Corded TPR Ear Plug

€ 2797

EN 352-2:2020

Product Specification

| | |
|-----------|--------------|
| Style | Re-usable |
| Material | TPR |
| Colour | Orange |
| Shape | Multi-Flange |
| SNR | 31dB |
| HML | 31,28,27 |
| Cord type | Corded |



Packaging Information

| |
|----------------------------|
| 1 Pair / Polybag |
| 100 Pairs / Master Polybag |
| 500 Pairs / Carton |

Also available with Storage box option .

| Model No. | Product SKU | Size | Inner pack UPC | Carton GTIN |
|-----------|-------------------|------|----------------|----------------|
| EP3232 | BLSH-ES-RCEP-O | OSFM | 810090089942 | 00810090089973 |
| EP3232B | BLSH-ES-RCEP-BX-O | OSFM | 810090089959 | 00810090089980 |

Passive Earmuffs

NoiseGuard® Series

EM2310

Head Mount Ear Muff

€ 2754

EN 352-1:2020

Product Specification

| | |
|-------------------|-----------------------|
| Style | Head Mount |
| Ear cups | ABS |
| Colour | Black |
| Cushion | PVC |
| Headband Material | Neoprene & pu leather |
| SNR | 36dB |
| HML | 38, 34, 28 |



Packaging Information

| |
|-----------------|
| 1 Pc / Box |
| 20 Pcs / Carton |

| Product SKU | Size | Inner pack UPC | Carton GTIN |
|------------------------|------|----------------|----------------|
| BLSH-NG-3020GT-36DB-BK | OSFM | 810148530167 | 00810148530198 |

EM3310

Head Mount Ear Muff

€ 2754

EN 352-1:2020

Product Specification

| | |
|-------------------|------------------|
| Style | Head Mount |
| Ear cups | ABS |
| Colour | Black |
| Cushion | PVC |
| Headband Material | Polyoxymethylene |
| SNR | 34dB |
| HML | 37, 31, 24 |



Packaging Information

| |
|-----------------|
| 1 Pc / Box |
| 20 Pcs / Carton |

| Product SKU | Size | Inner pack UPC | Carton GTIN |
|---------------------|------|----------------|----------------|
| BLSH-NG-X5M-34DB-BK | OSFM | 810148533557 | 00810148533564 |

EM3230

Helmet Mount Ear Muff

€ 2754

EN 352-3:2020

Product Specification

| | |
|----------|--------------|
| Style | Helmet Mount |
| Ear cups | ABS |
| Colour | Black |
| Cushion | PVC |
| SNR | 31dB |
| HML | 37, 31, 24 |



Packaging Information

| |
|-----------------|
| 1 Pc / Box |
| 20 Pcs / Carton |

| Product SKU | Size | Inner pack UPC | Carton GTIN |
|---------------------|------|----------------|----------------|
| BLSH-NG-X3HM-31DB-Y | OSFM | 810148533571 | 00810148533588 |

EM2230

Helmet Mount Ear Muff

€ 2754

EN 352-3:2020

Product Specification

| | |
|----------|--------------|
| Style | Helmet Mount |
| Ear cups | ABS |
| Colour | Black |
| Cushion | PVC |
| SNR | 33dB |
| HML | 37, 31, 23 |



Packaging Information

| |
|-----------------|
| 1 Pc / Box |
| 20 Pcs / Carton |

| Product SKU | Size | Inner pack UPC | Carton GTIN |
|----------------------|------|----------------|----------------|
| BLSH-NG-PSHM-33DB-BK | OSFM | 810148533618 | 00810148533625 |

NoiseGard[®]-Comm

Communication Ear Muff

EMC100

CE 2834 EN 352



**12 hours
Battery Life**



**Protection Against
Splashing**



**Available with SNR 32dB
Attenuation Value**



**PTT
Button**



VOX Mode



**Condenser (Electret)
Microphone**



**Control
Buttons**



**Communication Range
2000 Meters**

Product Specification

| | |
|----------------------------------|--|
| Attenuation | SNR = 32 dB/30 dB; NRR: 27dB/24 dB |
| Bluetooth | optional |
| Battery Life | +18 hours |
| Ambient Sound Awareness Mode | Ensures clear awareness of surrounding sounds like machinery, alarms, and conversations while keeping external noise below 82 dB for safe hearing. |
| Communication Range | 2000 meters (Line of sight) |
| Network Capacity | >250 nodes |
| Noise Cancelling Mic | High-noise environments (up to 120 dB) |
| Microphone type | Condenser (Electret) |
| External radio device connection | Yes |
| Built in two way channel | Yes |
| IP Protection | IP54 |
| Easy Operation | Dedicate Knob for Ambient Sound Awareness adjustment |
| Headband | High-strength metal wire core, over-assembled with durable PU. Adjustable for a secure fit |
| Earcups | Lightweight construction with compact cup design to reduce head pressure. |
| Replaceable Cushions | Thick, slow-recovery foam cushions for superior sealing and comfort. Optional for Gel cushion. |
| Weight | Approx. 440g |

RESPIRATORY PROTECTION



Respiratory Protection

Essential for Workplace Safety

Why Respiratory Protection Matters?

Protecting your lungs is crucial for staying safe at work. Whether you're in construction, manufacturing, healthcare, or any other industry, FiltAer™, ProAer™ and ConAer™ range of respiratory protection can prevent serious health issues caused by inhaling harmful substances.

Understanding the Importance

Respiratory hazards, such as dust, fumes, smoke, and chemicals, can cause severe health problems, including lung diseases, asthma, and even cancer. Wearing respiratory protection, like Respirators and respirators, helps filter out these harmful substances, ensuring you breathe clean air.

Choosing the Right Respiratory Protection

Disposable Respirator: Lightweight and convenient for short-term use, these Respirators protect against dust and other particulates.

Half-Facepiece Respirators: Provide a better fit and protection against dust, fumes, and some gases. They require replaceable filters or cartridges.

Full-Facepiece Respirators: Offer complete protection for the face and eyes, ideal for more hazardous environments with higher levels of contaminants.

Powered Air-Purifying Respirators (PAPRs): Use a battery-powered blower to provide a steady flow of filtered air, suitable for long-duration use in high-risk areas.

Supplied-Air Respirators (SARs): SARs deliver clean air from an external source, ideal for hazardous environments or confined spaces where filtering ambient air isn't sufficient.

Self-Contained Breathing Apparatus (SCBA): Provide breathable air from a tank, essential for extremely hazardous environments where the air quality is severely compromised.

Making Safety a Priority

Prioritizing respiratory protection means understanding the risks and choosing the appropriate equipment. It's not just about following workplace rules; it's about protecting your lungs and overall health. Always use the right protection for the job and ensure it fits properly.



EN 140: Half Facepiece for Respiratory Protection

EN 140 is a European standard that specifies the requirements for half facepiece used in respiratory protective devices. These Respirators cover the nose, mouth, and chin (half facepiece) and are used with filters or breathing apparatus to protect against hazardous airborne substances.

Key Aspects of EN 140

● Design and Construction

Materials: Facepiece must be made from durable, non-toxic materials that are comfortable to wear and do not cause skin irritation.

Face Seal: Facepiece must have an effective seal around the face to prevent contaminants from leaking in.

Components: Respirators typically consist of the respirator body, head harness, and connections for filters or other respiratory devices.

● Performance Requirements

Breathing Resistance: Respirators must allow for easy breathing, with minimal resistance to airflow when inhaling and exhaling.

Filter Compatibility: Respirators should be compatible with various types of filters or cartridges depending on the specific hazards present.

Mechanical Strength: Respirators must be robust and able to withstand handling and environmental stresses without degrading.

● Testing and Certification

Leak Tightness: Respirators must be tested to ensure they maintain a tight seal around the face, preventing any contaminants from entering.

Mechanical Performance: Respirators must pass tests for durability and strength, ensuring they can handle impacts and other mechanical stresses.

Flammability: Respirators must be tested to ensure they do not easily catch fire or melt when exposed to high temperatures.

● Comfort and Fit

Adjustability: Respirators must have adjustable head straps to ensure a secure and comfortable fit for different face sizes and shapes.

Weight and Balance: The design should distribute weight evenly to minimize pressure points and increase comfort during prolonged use.

Ease of Use: Respirators should be easy to put on and take off, with simple mechanisms for attaching and detaching filters.

● Marking and Information

Manufacturer's Details: Respirators must be clearly marked with the manufacturer's name, model number, and size.

Compliance: Respirators must display a mark indicating compliance with the EN 140 standard.

User Instructions: Comprehensive instructions for use, maintenance, and cleaning must be provided to ensure proper handling and longevity of the respirator.

Respirator Cartridge Selection: Ensuring Proper Protection

Selecting the right respirator cartridge is crucial for providing adequate protection against specific airborne hazards. Different cartridges are designed to filter out various types of contaminants, including particulate matter, gases, and vapors. Here's a guide to help you choose the right respirator cartridge for your needs.

Steps for Selecting the Right Respirator Cartridge

● Identify the Hazard

Particulate Matter: Dust, fumes, mists, smoke.

Gases and Vapors: Organic vapors, acid gases, ammonia, formaldehyde, etc.

Combination Hazards: Environments with both particulates and gases/vapors.

● Understand Cartridge Types

Particulate Filters:

P1 Filters: Provide protection against low levels of dust and solid particles, suitable for environments with non-toxic dust.

P2 Filters: Offer protection against moderate levels of dust, mists, and fumes, commonly used in construction and industrial settings.

P3 Filters: Provide the highest level of protection against fine particles, including toxic dust, fumes, and asbestos, ideal for high-risk environments.

Gas and Vapor Cartridges:

Organic Vapor (OV): Protects against organic vapors such as solvents and hydrocarbons.

Acid Gas (AG): Protects against acid gases like chlorine, sulfur dioxide, and hydrogen chloride.

Ammonia/Methylamine (AM): Protects against ammonia and methylamine.

Formaldehyde (FM): Protects against formaldehyde vapors.

Combination Cartridges:

Multi-Gas/Vapor: Protects against a variety of gases and vapors.

PAPR Cartridges: Used with Powered Air-Purifying Respirators for extended use and higher comfort levels.

● Consider the Workplace Environment

Contaminant Concentration: Determine the levels of contaminants in the air to choose a cartridge with the appropriate protection factor.

Exposure Duration: Longer exposure may require more robust filtration or the use of powered air-purifying respirators (PAPRs).

Presence of Oils: If the environment contains oil aerosols, choose filters and cartridges rated for oil resistance (R or P series).

● Check Compatibility

Ensure that the cartridge is compatible with your respirator model. Not all cartridges fit all respirators, so refer to the manufacturer's compatibility chart.

● Follow Regulations and Standards

Adhere to guidelines set by occupational safety organizations such as OSHA (Occupational Safety and Health Administration) in the U.S., and ensure the selected cartridge meets relevant standards.

Color Coding for Respirator Cartridges (Based on EN Standard)

In Europe, the color coding for respirator cartridges follows the EN (European Norm) standard, ensuring that users can easily identify the type of protection each cartridge provides. Here is a guide to the color codes used for different types of contaminants according to the EN standard:

• Particulate Filters

White:


P1: Low efficiency filter (80% minimum efficiency) for protection against low levels of fine dusts.

P2: Medium efficiency filter (94% minimum efficiency) for protection against moderate levels of fine dusts, mists, and fumes.


P3: High efficiency filter (99.95% minimum efficiency) for protection against high levels of fine dusts, mists, and fumes, including carcinogenic and radioactive particles, as well as bacteria and viruses.

• Gas and Vapor Cartridges


Brown:

 **Type A:** Organic gases and vapors with boiling points above 65°C (e.g., solvents and hydrocarbons).


Grey:

 **Type B:** Inorganic gases and vapors (e.g., chlorine, hydrogen sulfide, hydrogen cyanide).


Yellow:

 **Type E:** Acid gases (e.g., sulfur dioxide, hydrogen chloride).

Green:

 **Type K:** Ammonia and organic ammonia derivatives.


Red:

 **Type CO:** Carbon monoxide (used with specific devices that have an end-of-service-life indicator).

Blue:

 **Type NO:** Nitrogen oxides

Brown & Green:

 **Type AX:** Organic gases and vapors with boiling points below 65°C (e.g., low boiling point organic compounds). Note: AX filters are single-use only.

• Combination Filters


Brown/White:

 **A-P:** Organic vapors and particulates.


Grey/White:

 **B-P:** Inorganic gases and particulates.


Yellow/White:

 **E-P:** Acid gases and particulates.


Green/White:

 **K-P:** Ammonia and particulates.

Brown/Grey/White:


 **A-BE-P:** Organic, inorganic gases, and acid gases and particulates.

Olive:

 **A-BE-K-P:** Organic, inorganic gases, ammonia, acid gases, and particulates.

• Other Specific Filters

Olive & Red:

 **A-BE-K-Hg-P:** Organic gases and vapors, inorganic gases, ammonia, mercury vapor, acid gases, and particulates.

Important Considerations

• Markings:

Each cartridge or filter should have clear markings indicating its type and the specific contaminants it protects against. Ensure that the markings are visible and legible.

• Expiration Date:

Cartridges have a shelf life, and expired cartridges should not be used. Check the expiration date before use.

• Fit Testing:

Ensure that the respirator with the selected cartridge fits properly. Conduct regular fit tests to ensure a secure seal.

By adhering to the EN standard color coding system, workers can easily select the appropriate cartridge for their specific needs, ensuring they have the necessary protection against various workplace hazards. Proper training and regular updates on cartridge selection and use are crucial for maintaining safety and compliance in the workplace.

H200

Single Cartridge Half Face Respirator - Silicone

GB 2890-2022



Product Specification

| | |
|----------------------------|--------------------|
| Product Type | Half Face Piece |
| Cartridge Type | Single Cartridge |
| Faceseal | Silicone |
| Connection Type | Snapped |
| Cool Flow Exhalation Valve | Yes |
| Head Harness Assembly | 3 point adjustable |
| Strap Material | Spandex |

Packaging Information

1 Piece / Polybag
20 Pieces / Carton

| Product SKU | Size | Colour | Inner pack UPC | Carton GTIN |
|---------------|------|-----------|----------------|----------------|
| BLSH-PA-H9200 | OSFM | Navy Blue | 810148531355 | 00810148531362 |



H430

Dual Cartridge Half Face Respirator - Silicone

CE 2834 EN 140:1998



Product Specification

| | |
|------------------------------------|--------------------|
| Product Type | Half Face Piece |
| Cartridge Type | Dual Cartridge |
| Faceseal | Silicone |
| Connection Type | Bayonet |
| Exhalation Valve | Hidden |
| Head Harness Assembly | 3 point adjustable |
| Strap Material | Spandex |
| Compatible with ConAer™ SAR System | Yes |

Packaging Information

1 Piece / Polybag
20 Pieces / Carton

| Product SKU | Size | Colour | Inner pack UPC | Carton GTIN |
|---------------|------|--------|----------------|----------------|
| BLSH-PA-H8700 | OSFM | Blue | 810148531416 | 00810148531423 |



F500

CE 2834 EN 136:1998 CL2

ProAer[®]
Reusable Full Face Respirator



Dual Cartridge Full Face Respirator - Silicone

Product Specification

| | |
|------------------------------------|--------------------|
| Product Type | Full Face Piece |
| Cartridge Type | Dual Cartridge |
| Lens | Polycarbonate |
| Anti-Fog | Yes |
| Face Seal | Silicone |
| Connection Type | Bayonet |
| Exhalation Valve | Hidden |
| Head Harness Assembly | 4 point adjustable |
| Strap Material | Silicone |
| Compatible with ConAer™ SAR System | Yes |

Packaging Information

| |
|-------------------|
| 1 Piece / Box |
| 4 Pieces / Carton |

| Product SKU | Size | Colour | Inner pack UPC | Carton GTIN |
|---------------|------|-----------|----------------|----------------|
| BLSH-PA-F8800 | OSFM | Navy Blue | 810148531454 | 00810148531461 |



Peel Off Visor Is
Option Available



F600

CE 2834 EN 136:1998 CL2

ProAer[®]
Reusable Full Face Respirator



Speaking Diaphragm



Dual Cartridge Full Face Respirator - Silicone

Dual Cartridge Respirator - Silicone

Product Specification

| | |
|------------------------------------|--------------------|
| Product Type | Full Face Piece |
| Cartridge Type | Dual Cartridge |
| Lens | Polycarbonate |
| Anti-Fog | Yes |
| Face Seal | Silicone |
| Connection Type | Bayonet |
| Exhalation Valve | Hidden |
| Head Harness Assembly | 6 point adjustable |
| Strap Material | Silicone |
| Compatible with ConAer™ SAR System | Yes |
| Speech Diaphragm | Yes |

Packaging Information

| |
|-------------------|
| 1 Piece / Box |
| 4 Pieces / Carton |

| Product SKU | Size | Colour | Inner pack UPC | Carton GTIN |
|---------------|------|--------|----------------|----------------|
| BLSH-PA-F9800 | OSFM | Grey | 810148531478 | 00810148531485 |



Dual side Anti-fog coated polycarbonate lens



Hidden downward exhalation design



Six-point adjustable silicone harness



Peel Off Visor Is Option Available

P101 P2 Class Particulate Filter

GB 2626-2019 KN95



Product Specification

| | |
|----------------------|----------------------|
| Product Type | Particulate Filter |
| Protection Class | P2 |
| Cartridge Type | Single Cartridge |
| Compatible Facepiece | ProAer®-H100, H200 |
| Compatible Retainer | ProAer®-R101 |
| Compatible Cartridge | ProAer®-GF100, GF101 |

Packaging Information

| |
|---------------------|
| 50 Pieces / Polybag |
| 500 Pieces / Carton |

| Product SKU | Inner pack UPC | Carton GTIN |
|---------------|----------------|----------------|
| BLSH-PA-H4N95 | 810148531331 | 00810148531348 |

P102 P2 Class Pre-Filter

GB 2890-2022 KN95



Product Specification

| | |
|----------------------|----------------------|
| Product Type | Particulate Filter |
| Protection Class | P2 |
| Cartridge Type | Single Cartridge |
| Compatible Facepiece | ProAer®-H100, H200 |
| Compatible Retainer | ProAer®-H102 |
| Compatible Cartridge | ProAer®-GF100, GF101 |

Packaging Information

| |
|---------------------|
| 50 Pieces / Polybag |
| 500 Pieces / Carton |

| Product SKU | Inner pack UPC | Carton GTIN |
|---------------|----------------|----------------|
| BLSH-PA-H5PF1 | 810148533250 | 00810148533267 |

P201 P2 Class Particulate Filter

CE 2834 EN 143:2021 P2



Product Specification

| | |
|----------------------|---|
| Product Type | Particulate Filter |
| Protection Class | P2 |
| Cartridge Type | Dual Cartridge |
| Compatible Facepiece | ProAer®-H300, H400, H430, H450, F500 & F600 |
| Compatible Retainer | ProAer®-R201 |
| Compatible Cartridge | ProAer®-GF200, GF201, GF202 |

Packaging Information

| |
|---------------------|
| 10 Pieces / Box |
| 300 Pieces / Carton |

| Product SKU | Inner pack UPC | Carton GTIN |
|---------------|----------------|----------------|
| BLSH-PA-H8N95 | 810148533274 | 00810148533281 |

PF200 P3 Class Particulate Filter for solid & liquid dust

CE 2834 EN 143:2021 P3



Product Specification

| | |
|----------------------|---|
| Product Type | Particulate Filter |
| Protection Class | P3 |
| Cartridge Type | Dual Cartridge |
| Compatible Facepiece | ProAer®-H300, H400, H430, H450, F500 & F600 |

Packaging Information

| |
|-------------------|
| 1 Pair / Polybag |
| 50 Pairs / Carton |

| Product SKU | Inner pack UPC | Carton GTIN |
|----------------|----------------|----------------|
| BLSH-PA-H8P100 | 810148531492 | 00810148531508 |

PF200OV P3 Class Particulate Filter with Nuisance Level Organic Vapor Relief

CE 2834 EN 143:2021 P3



Product Specification

| | |
|----------------------|---|
| Product Type | Particulate Filter |
| Protection Class | P3 |
| Cartridge Type | Dual Cartridge |
| Compatible Facepiece | ProAer®-H300, H400, H430, H450, F500 & F600 |

Packaging Information

| |
|-------------------|
| 1 Pair / Polybag |
| 50 Pairs / Carton |

| Product SKU | Inner pack UPC | Carton GTIN |
|-----------------|----------------|----------------|
| BLSH-PA-H8P100C | 810148531515 | 00810148531522 |

PF200AG P3 Class Particulate Filter (Carbon) with Nuisance Level Acid Gas Relief

CE 2834 EN 143:2021 P3



Product Specification

| | |
|----------------------|---|
| Product Type | Particulate Filter |
| Protection Class | P3 |
| Cartridge Type | Dual Cartridge |
| Compatible Facepiece | ProAer®-H300, H400, H430, H450, F500 & F600 |

Packaging Information

| |
|-------------------|
| 1 Pair / Polybag |
| 50 Pairs / Carton |

| Product SKU | Inner pack UPC | Carton GTIN |
|-----------------|----------------|----------------|
| BLSH-PA-H8P100A | 810148531539 | 00810148531546 |

PF201

P3 Class Particulate Filter

CE 2834 EN 143:2021 P3

Product Specification

| | |
|----------------------|---|
| Product Type | Particulate Filter |
| Protection Class | P3 |
| Cartridge Type | Dual Cartridge |
| Compatible Facepiece | ProAer®-H300, H400, H430, H450, F500 & F600 |

Packaging Information

| |
|-------------------|
| 1 Pair / Polybag |
| 40 Pairs / Carton |

| Product SKU | Inner pack UPC | Carton GTIN |
|-----------------|----------------|----------------|
| BLSH-PA-H8GF100 | 810148531553 | 00810148531560 |



GF100

Organic Vapor Filter - A

CE 2834 EN 14387:2004+A1:2008 A1



Product Specification

| | |
|----------------------|--------------------|
| Product Type | Gas Filter |
| Protection against | Organic Vapor |
| Cartridge Type | Single Cartridge |
| Compatible Facepiece | ProAer®-H100, H200 |
| Compatible Filter | ProAer®-P101 |

Packaging Information

| |
|--------------------|
| 1 Piece / Polybag |
| 60 Pieces / Carton |

| Product SKU | Inner pack UPC | Carton GTIN |
|---------------|----------------|----------------|
| BLSH-PA-H5001 | 810148531591 | 00810148531607 |

GF101

Organic Vapor/Acid Gas Filter - AE

GB 2890-2022 A1E1



Product Specification

| | |
|----------------------|-------------------------|
| Product Type | Gas Filter |
| Protection against | Organic Vapor, Acid Gas |
| Cartridge Type | Single Cartridge |
| Compatible Facepiece | ProAer®-H100, H200 |
| Compatible Filter | ProAer®-P101 |

Packaging Information

| |
|--------------------|
| 1 Piece / Polybag |
| 60 Pieces / Carton |

| Product SKU | Inner pack UPC | Carton GTIN |
|---------------|----------------|----------------|
| BLSH-PA-H5003 | 810148531614 | 00810148531621 |

GF200

Organic Vapor Filter - A

CE 2834 EN 14387:2004+A1:2008 A1



Product Specification

| | |
|----------------------|---|
| Product Type | Gas Filter |
| Protection against | Organic Vapor |
| Cartridge Type | Dual Cartridge |
| Compatible Facepiece | ProAer®-H300, H400, H430, H450, F500 & F600 |

Packaging Information

| |
|-------------------|
| 1 Pair / Polybag |
| 30 Pairs / Carton |

| Product SKU | Inner pack UPC | Carton GTIN |
|---------------|----------------|----------------|
| BLSH-PA-H8001 | 810148531638 | 00810148531645 |

GF201

Organic Vapor/Acid Gas Filter - AE

CE 2834 EN 14387:2004+A1:2008 A1E1



Product Specification

| | |
|----------------------|---|
| Product Type | Gas Filter |
| Protection against | Organic Vapor, Acid Gas |
| Cartridge Type | Dual Cartridge |
| Compatible Facepiece | ProAer®-H300, H400, H430, H450, F500 & F600 |

Packaging Information

| |
|-------------------|
| 1 Pair / Polybag |
| 30 Pairs / Carton |

| Product SKU | Inner pack UPC | Carton GTIN |
|---------------|----------------|----------------|
| BLSH-PA-H8003 | 810148531652 | 00810148531669 |

GF202

Multi Gas/Vapor filter - ABEK

CE 2834 EN 14387:2004+A1:2008 A1B1E1K1



Product Specification

| | |
|----------------------|---|
| Product Type | Gas Filter |
| Protection against | Multi Gas |
| Cartridge Type | Dual Cartridge |
| Compatible Facepiece | ProAer®-H300, H400, H430, H450, F500 & F600 |

Packaging Information

| |
|-------------------|
| 1 Pair / Polybag |
| 30 Pairs / Carton |

| Product SKU | Inner pack UPC | Carton GTIN |
|---------------|----------------|----------------|
| BLSH-PA-H8006 | 810148531676 | 00810148531683 |

GF203

Ammonia Methylamine filter - K

CE 2834 EN 14387:2021 K1



Product Specification

| | |
|----------------------|---|
| Product Type | Gas Filter |
| Protection against | Ammonia Methylamine |
| Cartridge Type | Dual Cartridge |
| Compatible Facepiece | ProAer®-H300, H400, H430, H450, F500 & F600 |

Packaging Information

| |
|-------------------|
| 1 Pair / Polybag |
| 30 Pairs / Carton |

| Product SKU | Inner pack UPC | Carton GTIN |
|---------------|----------------|----------------|
| BLSH-PA-H8004 | 810148535896 | 00810148535902 |

GF201P3

Organic Vapor & Acid Gas Filter - AE combined with P2 Filter

CE 2834 EN 14387:2004+A1:2008 A1E1P3 R



Product Specification

| | |
|----------------------|---|
| Product Type | Combined Gas Filter |
| Protection against | Organic Vapor, Acid Gas |
| Cartridge Type | Dual Cartridge |
| Compatible Facepiece | ProAer®-H300, H400, H430, H450, F500 & F600 |

Packaging Information

| |
|-------------------|
| 1 Pair / Polybag |
| 20 Pairs / Carton |

| Product SKU | Inner pack UPC | Carton GTIN |
|-----------------|----------------|----------------|
| BLSH-PA-H8003P3 | 810148531690 | 00810148531706 |

GF202P3

Multi Gas/Vapor Filter - ABEK combined with P2 Filter

CE 2834 EN 14387:2004+A1:2008 A1B1E1K1P3 R



Product Specification

| | |
|----------------------|---|
| Product Type | Combined Gas Filter |
| Protection against | Multi Gas |
| Cartridge Type | Dual Cartridge |
| Compatible Facepiece | ProAer®-H300, H400, H430, H450, F500 & F600 |

Packaging Information

| |
|-------------------|
| 1 Pair / Polybag |
| 20 Pairs / Carton |

| Product SKU | Inner pack UPC | Carton GTIN |
|-----------------|----------------|----------------|
| BLSH-PA-H8006P3 | 810148531713 | 00810148531720 |

Reusable Respirators Accessories



R101

Retainer for Single cartridge Particulate Filter



R201

Retainer for Dual cartridge Particulate Filter



H102

Holder for Particulate Filter



A201

Adapter for Particulate Filter



A200

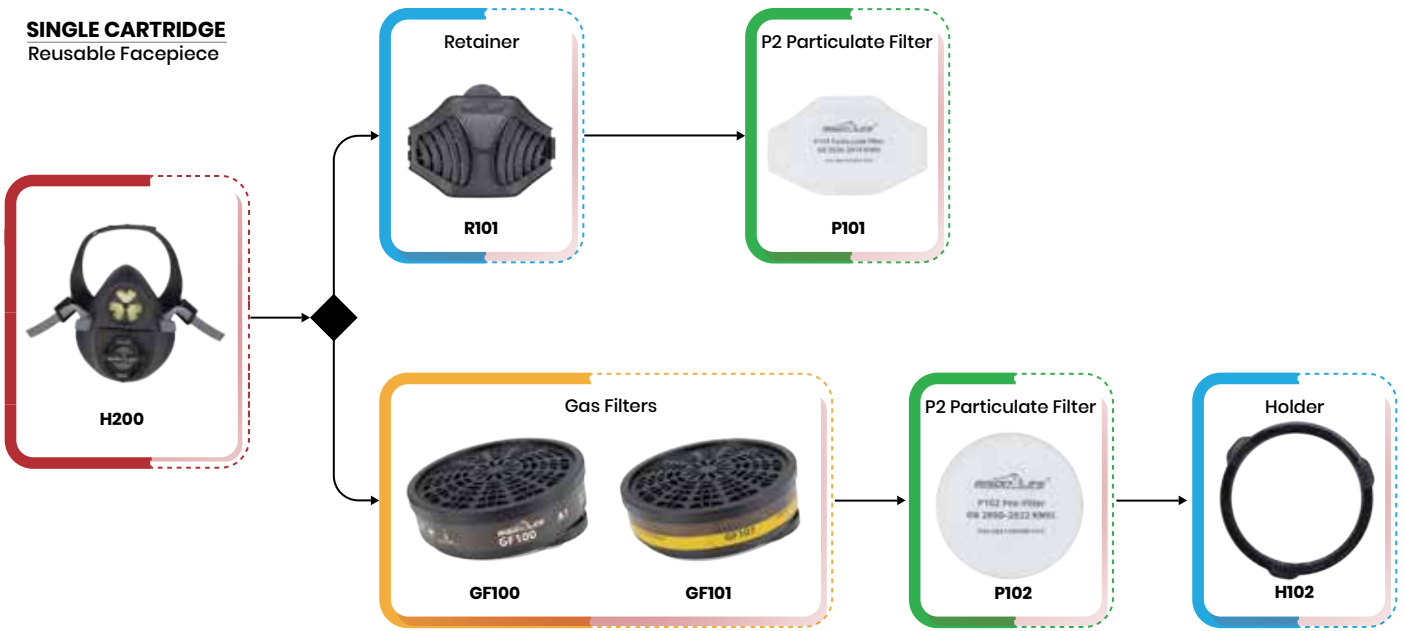
Adapter for Particulate Filter

| Model no. | Product description | Product SKU | Packaging information | Inner pack UPC | Carton GTIN |
|-----------|--|---------------|------------------------------------|----------------|----------------|
| R101 | Retainer for Single cartridge Particulate Filter | BLSH-PA-H4800 | 10 Pcs / Polybag, 60 Pcs / Carton | 810148531577 | 00810148531584 |
| R201 | Retainer for Dual cartridge Particulate Filter | BLSH-PA-H801 | 20 Pcs / Polybag, 200 Pcs / Carton | 810148533298 | 00810148533304 |
| H102 | Holder for Particulate Filter | BLSH-PA-H52CV | 10 Pcs / Polybag, 200 Pcs / Carton | 810148533311 | 00810148533328 |
| A201 | Adapter for Particulate Filter | BLSH-PA-H603 | 10 Pcs / Polybag, 200 Pcs / Carton | 810148533335 | 00810148533342 |
| A200 | Adapter for Particulate Filter | BLSH-PA-H802 | 20 Pcs / Polybag, 200 Pcs / Carton | 810148533359 | 00810148533366 |

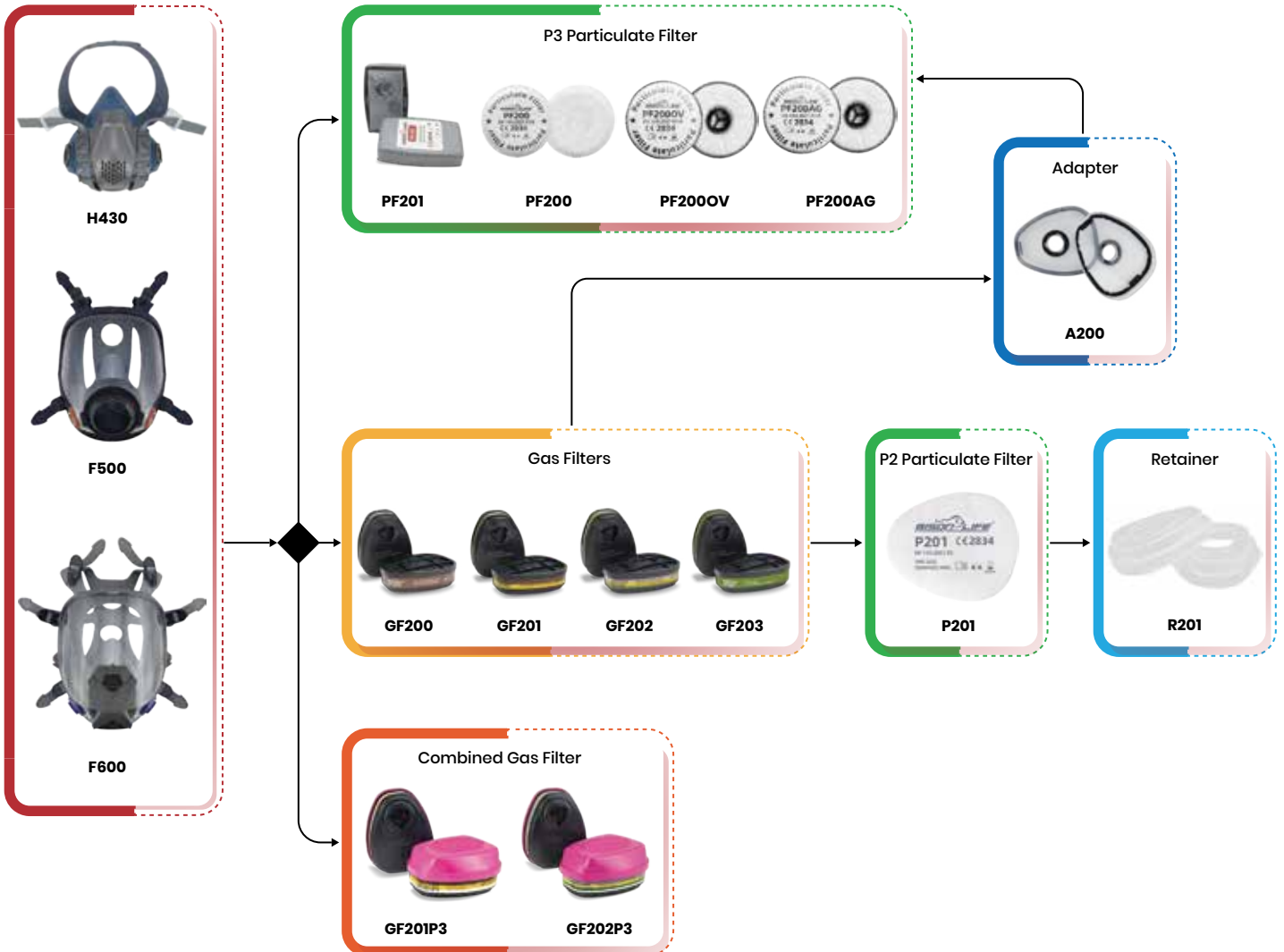
COMPATIBILITY CHART

FOR REUSABLE FACEPIECE

SINGLE CARTRIDGE Reusable Facepiece



DUAL CARTRIDGE Reusable Facepiece



ConAer™

Powered Air Purifying
Respirator



PAPR

A Critical Aspect of Workplace Safety

Understanding the Importance of Powered Air-Purifying Respirators (PAPR)

ConAer™ range of Powered Air-Purifying Respirators (PAPR) are essential for protecting workers in environments where air quality is compromised due to hazardous dust, fumes, vapors, or gases. By providing a continuous supply of filtered air, PAPRs enhance safety and comfort, particularly in challenging work conditions.

Why PAPR Matters?

● Comprehensive Respiratory Protection

Continuous Air Supply: PAPRs deliver a steady stream of clean, filtered air to the wearer, ensuring a consistent supply of breathable air.

Effective Filtration: Equipped with high-efficiency filters, PAPRs protect against a wide range of contaminants, including particulate matter, gases, and vapors.

● Enhanced Comfort

Reduced Breathing Effort: Unlike traditional respirators that rely on the wearer's breathing effort, PAPRs reduce the physical effort required to breathe by actively supplying filtered air.

Cooling Effect: The airflow from a PAPR system helps to keep the wearer cool, reducing heat stress and improving comfort during prolonged use.

● Improved Safety

Protection Against High Levels of Contaminants: PAPRs are crucial in environments with high concentrations of harmful substances, where other forms of respiratory protection may be inadequate.

High Protection Factor: PAPRs provide a high level of protection compared to other respirators, ensuring better safety in hazardous work environments.



Key Features of PAPR Systems

● Filter Types and Efficiency

Particulate Filters: Capture dust, fumes, and aerosols. HEPA filters are commonly used for high-efficiency particulate air filtration.

Gas and Vapor Filters: Protect against specific gases and vapors. These can include activated carbon filters for gases or specialized filters for specific chemical hazards.

Combination Filters: Some PAPRs use filters that combine both particulate and gas/vapor protection.

● Airflow Rate

Flow Rate: The airflow rate of a PAPR system is typically between 170 to 210 liters per minute, ensuring adequate ventilation and comfort.

Adjustability: Some systems allow for adjustable airflow settings to match the wearer's needs and the work environment.

● Battery Life and Power Source

Battery Types: PAPRs are usually powered by rechargeable batteries, with some models incorporating solar assists to extend battery life.

Runtime: Battery life should be sufficient for the entire work shift, with easy recharging and replacement options.

● Comfort and Fit

Headgear: PAPR systems come with various headgear options, including full-face masks, hoods, and helmets. The choice depends on the level of protection required and comfort preferences.

Adjustability: Ensure the system is adjustable for a secure fit and comfortable use, reducing strain on the wearer.

● Maintenance and Durability

Filter Replacement: Regular replacement of filters is essential for maintaining effective protection. Choose systems with easy access for filter changes.

Durability: The PAPR unit and components should be robust enough to withstand the conditions of the work environment.



Key EN Standards for PAPR Systems

● EN 12941 (Respiratory protective devices - Powered air purifying respirators)

Scope:

This standard specifies the requirements for the design, performance, and testing of powered air-purifying respirators used to protect against particulate contaminants.

Requirements:

Performance: Defines the minimum requirements for the protection provided by PAPRs against airborne particles.

Filter Efficiency: Specifies the efficiency of particulate filters (e.g., P3 filters) in removing contaminants from the air.

Airflow Rate: Ensures the PAPR system provides a sufficient airflow rate to maintain comfort and protection.

Comfort: Addresses aspects such as the fit and comfort of the PAPR system to ensure it can be worn effectively for extended periods.

Leakage: Tests for the ability of the PAPR system to prevent leakage of contaminants into the breathing zone.

Maintenance: Includes requirements for the maintenance and durability of the PAPR system, including ease of filter replacement.

Key points about EN 12941 include:

● Types of Devices:

The standard covers powered air-purifying respirators (PAPRs) that consist of a motor-driven fan unit that draws in contaminated air, passes it through a filter, and supplies clean air to the helmet or hood.

● Protection Classes:

There are different protection classes defined by the standard, typically denoted as TH1, TH2, and TH3. These classes indicate the level of protection provided by the device:

TH1: Lowest level of protection.

TH2: Intermediate level of protection.

TH3: Highest level of protection.

● Performance Criteria:

The standard outlines various performance criteria that the devices must meet, including:

Breathing resistance.

Filter efficiency.

Battery performance (for powered devices).

Field of vision for the wearer.

Inward leakage tests to ensure the device effectively seals against the wearer's face.

PAPR Filter Schematic

Constant air supply design delivers constant airflow even if battery is low or filter is clogged. Lightweight, portable, and easy-to-use, providing excellent respiratory protection.

01 Durable front cover

Protects blower unit from being damaged by high temperature and high-speed impact objects.

02 Spark screen

Blocks metal splashes from igniting other filter components.

03 Pre-filter

Blocks large particles and prolong service life of particle filter.

04 Particle filter

High-efficiency particle filter, filtration efficiency up to 99.997%.

05 Gas filter

Optional ABEK1 / A1 / A2 for protection against organic, inorganic and acid gas vapors, gas filter sold separately.

06 Odor filter

Eliminates unpleasant odors (not required if a gas filter is installed), odor filter sold separately.

07 Fast rechargeable lithium battery

Standard battery can be fully charged within 1.2 hours, battery duration is 10 hours (170L/min airflow rate). Optional extended battery can be fully charged within 2.5 hours, battery duration is 19 hours (170L/min airflow rate).

08 High quality brushless motor

Low power consumption, long service life, high static pressure and low noise.

09 Optional airflow rates

Two levels of airflow rate (170L/min and 210L/min) available.

10 Hose

Connect respirator and welding helmet, delivering clean helmet for clean air delivery.



Powered Air Purifying Respirator

ConAer™ Series

CA2100

CE 2834 EN 12941

Triple-Alarm System

The warning light will flicker to indicate clogged filter or low battery, while the respirator will sound an alarm and vibrate.

Real-Time Monitoring

Real-time monitoring displays the air-flow, battery power, particle filter loading for the user.

Various Filter Options

User can choose P3/gas/odor filter according to different applications and work environments.

Battery Indicator

Filter Warning

ON / OFF Button

Airflow Indicator



Intelligent Control

Respirator motor automatically adjusts the power and air-flow depending on the filter box loading.

High-Performance Motor

High-quality brushless motor, strong air volume, low power consumption, ultra-quiet running and up to 3 times longer motors life.



Powered Air Purifying Respirator - Turbo Unit

Product Specification

| | |
|--|---|
| Air Flow Rate (Low speed) | 170+lpm |
| Air Flow Rate (High speed) | 210+lpm |
| Battery type | Rechargeable Li-ion battery |
| Charge time | 1 hour |
| Battery life | At least 500 charges |
| Fast Charging Std Battery duration | 9 hours at 170+lpm; 5-6 hours at 210+lpm |
| Fast Charging Heavy Dusty Battery duration | 15 hours at 170+lpm; 9 hours at 210+lpm |
| Weight | 1020g (Turbo Unit + Fast Charging Standard Battery) |
| Filter efficiency | > 99.997% |
| Operating temp. | -5°C to 55°C |
| Storing temp. | -10°C to 55°C |
| Relative operating humidity (R.H.) | < 90% |
| Relative storage humidity (R.H.) | < 85% |
| Alarm | Audible, Visible, Vibration |

Packaging Information

1 Set / Box

Package Includes

Turbo Unit x 1
Fast Charging Standard Battery x 1
Battery Charger x 1
P3 Filter (TH3 P Filter) x 1
Standard Waist Belt x 1



| Product SKU | Product Description | Inner pack UPC |
|--------------|---------------------------------------|----------------|
| BLSH-CA-2100 | PAPR Systems with standard waist belt | 810148536879 |



Parts & Accessories

| Product SKU | Model No. | Product Description | Inner Pack Qty | Inner pack UPC |
|----------------|-----------|--|----------------|----------------|
| BLSH-CA-BM2000 | CABM2000 | CA2100 Body alone | 1pc/bag | 810148536886 |
| BLSH-CA-2101 | CA2101 | Charging Standard Lithium Battery 14.4V, 3.2 Ah, 46.08 Wh | 1pc/bag | 810148536893 |
| BLSH-CA-2111 | CA2111 | Battery Charger - Class 2 | 1pc/box | 810148536909 |
| BLSH-CA-P302 | CAP302 | Particulate Filter (P3) | 1pc/box | 810148536916 |
| BLSH-CA-PF01 | CAPF01 | Pre-Filter | 5pcs/box | 810148536923 |
| BLSH-CA-SC01 | CASC01 | Spark Screen | 10pcs/bag | 810148536930 |
| BLSH-CA-FC01 | CAFC01 | Filter Cover | 1pc/bag | 810148536947 |
| BLSH-CA-OR01 | CAOR01 | O-Ring | 2pcs/bag | 810148536954 |
| BLSH-CA-BTA01 | CABTA01 | Standard Breathing Tube with Air Indicator | 1 Set/bag | 810148536961 |
| BLSH-CA-BT01 | CABT01 | Standard Breathing Tube | 1pc/bag | 810148536978 |
| BLSH-CA-AI01 | CAAI01 | Air Indicator for standard breathing tube | 1pc/bag | 810148536985 |
| BLSH-CA-BTA02 | CABTA02 | Quick Release Breathing Tube with Air Indicator | 1 Set/bag | 810148536992 |
| BLSH-CA-BT02 | CABT02 | Quick Release Breathing Tube | 1pc/bag | 810148537005 |
| BLSH-CA-AI02 | CAAI02 | Air Indicator for Quick release breathing tube | 1pc/bag | 810148537012 |
| BLSH-CA-BTCW | CABTCW | Breathing Tube Cover - White | 1pc/bag | 810148537142 |
| BLSH-CA-BTCG | CABTCG | FR Breathing Tube Cover | 1pc/bag | 810148537159 |
| BLSH-CA-SS01 | CASS01 | Shoulder Strap | 1pc/bag | 810148537029 |
| BLSH-CA-BC02 | CABC02 | Easy Clean Belt Cushion | 1pc/bag | 810148537036 |
| BLSH-CA-BC03 | CABC03 | High End Waist Belt (Flame Retardant) | 1pc/bag | 810148537043 |
| BLSH-CA-GF01 | CAGF01 | Gas Filter A2 | 1pc/bag | 810148537050 |
| BLSH-CA-GF02 | CAGF02 | Gas Filter A1B1E1K1 | 1pc/box | 810148537067 |
| BLSH-CA-OF01 | CAOF01 | Odour Filter | 1pc/box | 810148537074 |
| BLSH-CA-2102 | CA2102 | Fast Charging Heavy Duty Lithium Battery 14.4V, 6.4 Ah, 92.16 Wh | 1pc/box | 810148537081 |
| BLSH-CA-BC01 | CABC01 | Standard Waist Belt | 1pc/bag | 810148537098 |
| BLSH-CA-BP01 | CABP01 | Back Pack | 1pc/bag | 810148537104 |
| BLSH-CA-SH300 | SH300 | Soft Hood with Shroud | 1pc/bag | 810148537111 |
| BLSH-CA-SH400 | SH400 | Soft Hood with long Shroud | 1pc/bag | 810148537128 |
| BLSH-CA-HH500 | HH500 | Hard Hood | 1pc/bag | 810148537135 |

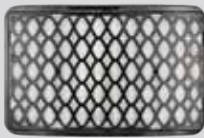
Parts & Accessories

Turbo Unit



CA2100
PAPR Turbo Unit Body

Filter



CAP302
Particle filter (P3 filter)



CAGF01
Gas Filter A2 with
NFC Label



CAGF02
Gas Filter A1B1E1K1
with NFC Label



CAOF01
Odour Filter with
NFC Label

Battery & Charger



CA2101
Fast Charging Standard
Lithium Battery



CA2102
Fast Charging Heavy Duty
Lithium Battery



CA2111
Battery Charger

Breathing Tube & Sleeve



CABT01
Standard
Breathing Tube



CABT02
Quick Release
Breathing Tube



CABTCG
FR Breathing Tube Cover



CABTCW
Breathing Tube Cover

Belt



CASS01
Shoulder Strap



CABC02
Standard Belt Cushion



CABC01
Standard Waist Belt



CABC03
High End Waist Belt
(Flame Retardant)



CABP01
Turbo Unit Back Pack

Hood / Face Shield & Welding Helmet



W400 Air
Auto Darkening
Welding Shield



W500 Air
Flip-up Auto Darkening
Welding Shield



HH500
Hard Hood



SH300
Hood with
Shroud

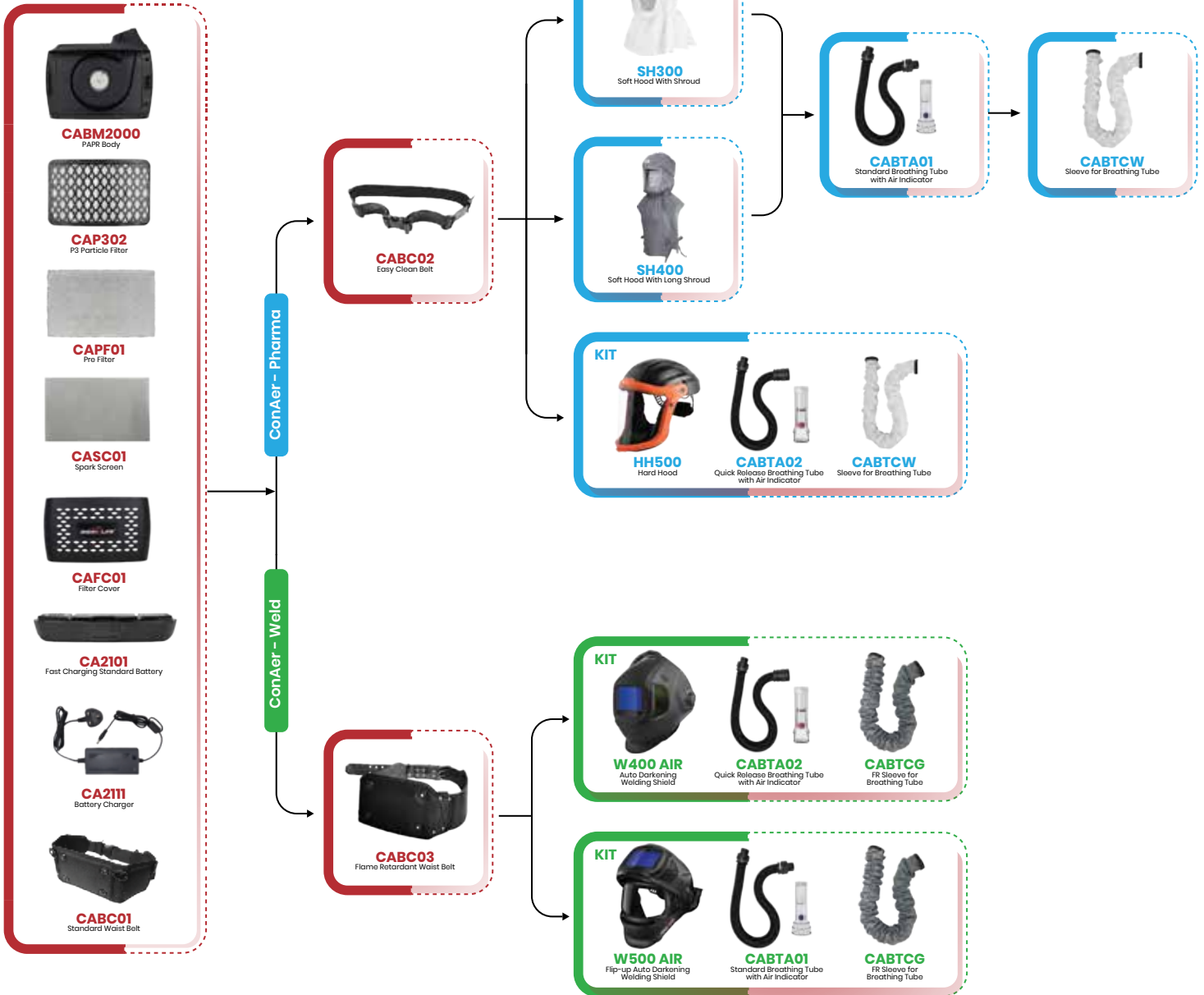


SH400
Hood with
long Shroud

PAPR CONFIGURATIONS



CA2100
PAPR Turbo Unit Body



Filter Options



Battery Options



Filter Options

TM3 Particulate Filter and Gas Cartridge Options

Silicone Mask & ABS Body

Silicone Mask and ABS Body respirator main unit for Easy Cleaning and Comfortable Wear.

Speaking Diaphragm

Equipped with Speaking Diaphragm for Enhanced Auditory Perception and Increased Work Efficiency

Dual Alarm

Sound and Light for Safe Operation Every Time, When the LED indicator light or buzzer sounds an alarm, timely charge the battery, replace the filter element, or troubleshoot.

Rechargeable Battery

Rechargeable battery provides over 8 hours of operation on full charge.



Powered Adaptive Respirator

Airflow adjusts according to breathing frequency

Product Specification

| | |
|--|---|
| Air Flow Rate | Adaptive Breathing (Tested at No Less Than 65 lpm) |
| Noise Level | 60dB |
| IP Rating | IP54 |
| Indicators | When the LED indicator light sounds an alarm, timely charge the battery, replace the Particulate filter element, or troubleshoot. |
| Operating temp. | -5°C to 55°C |
| Storage temp. | -10°C to 55°C, 20% to 80% RH |
| Rechargeable Battery duration | >8 hours |
| Charging time for Rechargeable Battery | 4.5 hours |
| Battery life | At least 500 charges |
| Particulate filter standards | CE: TM3P R SL |
| Filtration Efficiency | >99.95% |
| Inhalation resistance | ≤350 Pa (when powered on) |
| Exhalation resistance | ≤700 Pa (when powered on) |

Continuous
Air Flow



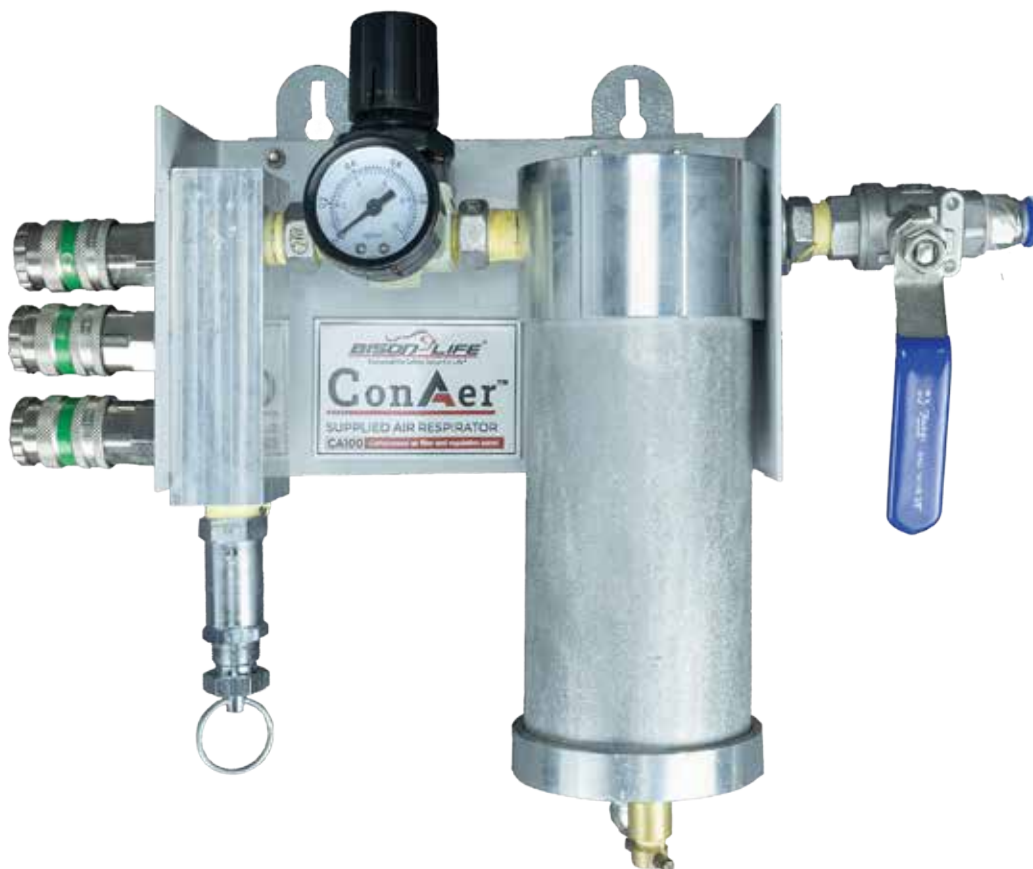
Continuous
Air Flow



HYBRID TECHNOLOGY

CA100

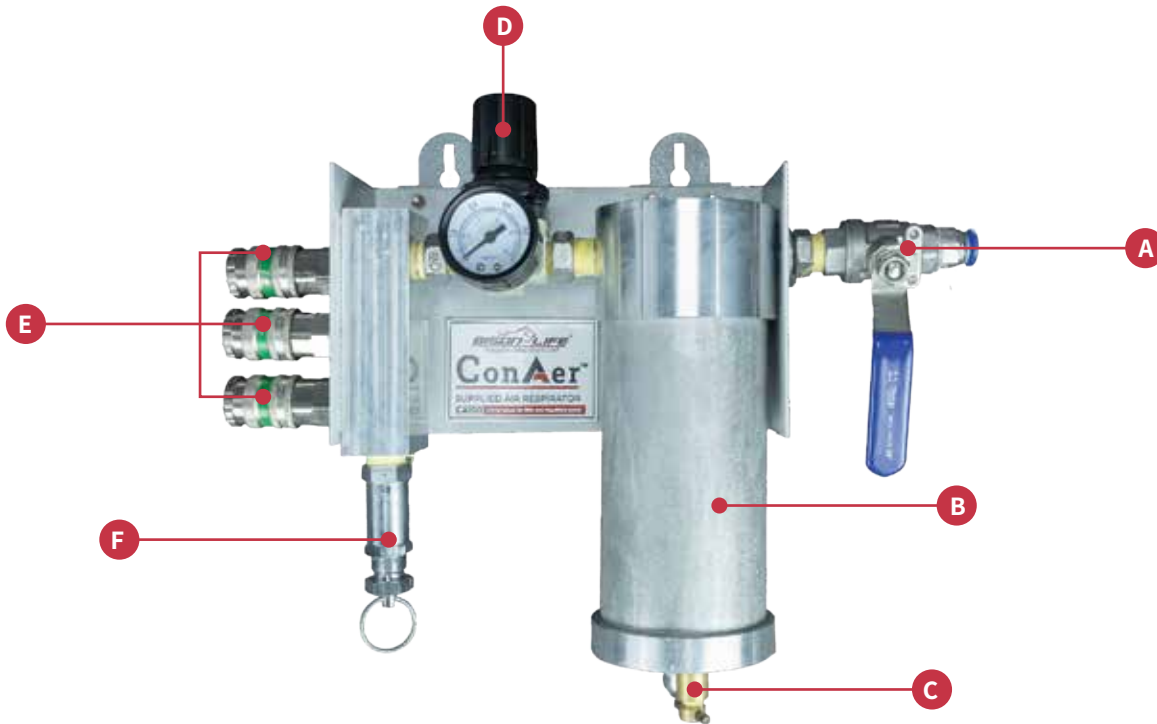
Single Stage Filtration Supplied Air Respirators



ConAer - CA100 Filter and Regulator Panel is a compressed breathing air purifier system designed to help Applications remove or reduce selected contaminants that are found in standard compressed airlines.

Specification

| | |
|------------------------------|------------------------------------|
| Inlet pressure (max.) | 150 psi static |
| Rated air flow (max.) | 50 scfm (1416 L/min) at 105 psi |
| Inlet pressure (recommended) | 90 to 120 psi (6.2-8.3 bar) |
| Outlet pressure range | 0 to 115±5 psi (0 to 7.2±0.34 bar) |



1. Air Entry:

- Air entering the filtration system at the inlet may be contaminated with oil, water, dirt, rust, scale and vaporous hydrocarbons.
- Air enters the panel through the Air Inlet-On/Off Valve (A). When the On/Off handle is down, airflow is restricted from entering the SAR filter assembly.

2. Single Stage Filtration:

- The Filter and Regulator Panel contains a single filter (B) embedded with carbon layer designed to remove liquid, particles and nuisance levels of odour.
- Liquid contaminants are trapped in the filter assembly and expelled through the drain valve (C).



3. Pressure Regulator:

The air is then passed through the air pressure regulator (D), which is used to adjust the air pressure going to the respirators.

- Maximum capacity of 50 cfm at 105 psi,
- Require a source of clean breathing air such as compressed air systems or bottled air
- No batteries to maintain
- Cost effective respiratory protection for All-Day use

4. Outlet Valve:

- Three standard quick coupling (E) are ready to supply air to helmets, hoods or tight-fitting facepieces.
- Quick couplings are incompatible with outlets for other gas systems to prevent inadvertent servicing of airline respirators with non-respirable gases or oxygen.
- Various pre-assembled hose kit can connect to the filter panel quick coupling.

5. Pressure Relief Valve:

- The final component of the panel, the pressure relief valve (F), prevents pressure at the hose connection from exceeding 110 psi (± 5 psi).

CA300A & CA 300M

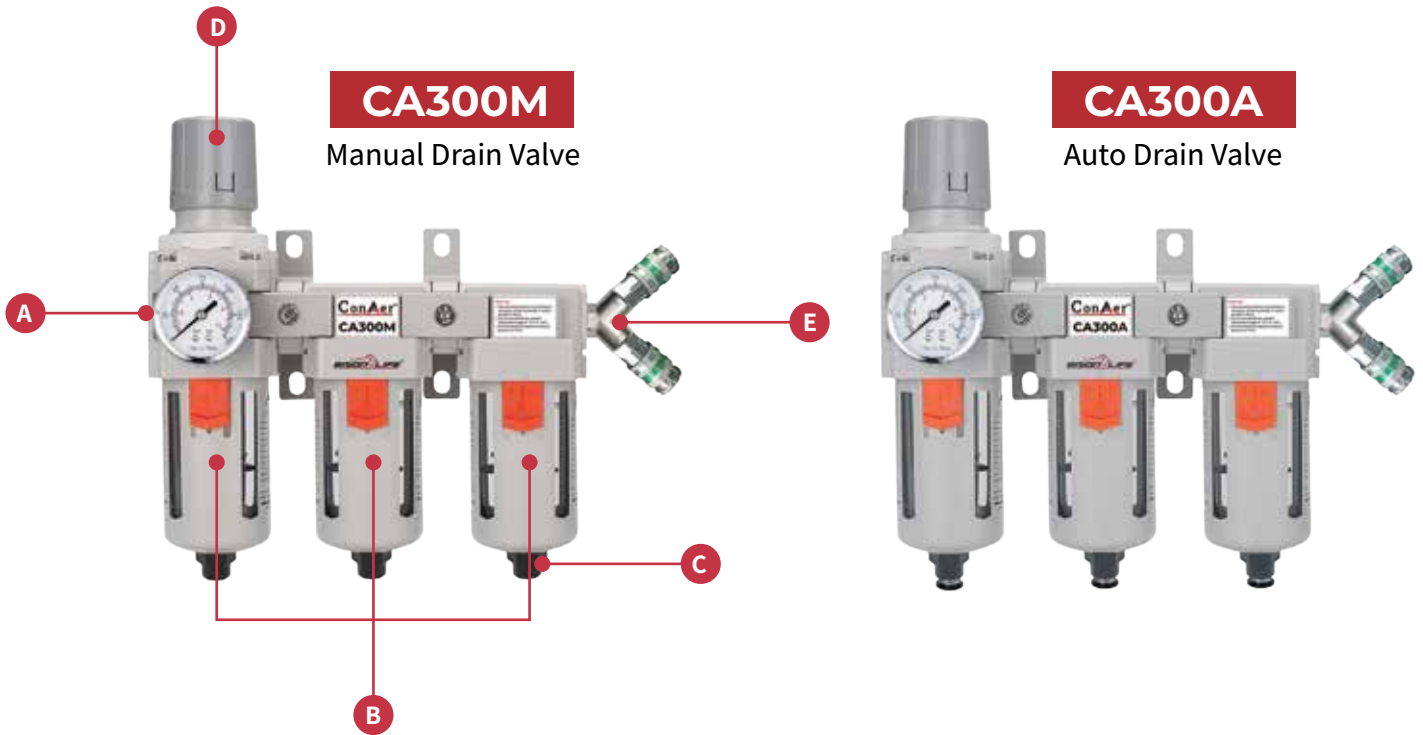
Three Stage Filtration Supplied Air Respirators



ConAer - CA300 Series Filter and Regulator Panel is a compressed breathing air purifier system designed to help remove or reduce selected contaminants that are found in standard compressed airlines.

Specification

| | |
|------------------------------|------------------------------------|
| Inlet pressure (max.) | 150 psi static |
| Rated air flow (max.) | 50 cfm (1416 L/min) at 105 psi |
| Inlet pressure (recommended) | 90 to 120 psi (6.2-8.3 bar) |
| Outlet pressure range | 0 to 115±5 psi (0 to 7.2±0.34 bar) |



1. Air Entry:

- Air entering the filtration system at the inlet may be contaminated with oil, water, dirt, rust, scale and vaporous hydrocarbons.
- Air enters the panel through the Air Inlet point 1/2" female thread port (A).

2. Three Stage Filtration:

- The Filter and Regulator Panel contains three filters (B) designed to remove liquid droplets, particles, and nuisance odors.
- Liquid contaminants are trapped in the filter assembly and expelled through the auto drain valve (CA300A) or Manual (CA300M) (C).
- It contains air pressure regulator (D), which is used to adjust the air pressure going to the respirators.

3. Filter Panel

- Maximum capacity of 50 cfm at 105 psi,
- Require a source of breathable compressed air system or air cylinder
- No battery requirement to maintain
- Cost-effective respiratory protection for All-Day use

4. Couplings:

- It has CEJN 342 series quick couplings (E) that are ensure to supply breathing air to helmets, hoods or tight-fitting facepieces.
- Quick couplings are compatible with Bisonlife provided breathing air hose for SAR application only.

5. Filter Elements:

5 µm Brass filter element (CA301B): Excellent filtration performance, longer life and possibility to reuse

0.5 µm filter element (CA301C): Effective filter out smaller particles and coalescing filter effect to eliminate water & oil droplets from the air stream.

0.01 µm filter element (CA301P): Effective filter out the smallest particles and odor from the air stream.



CA300AFI

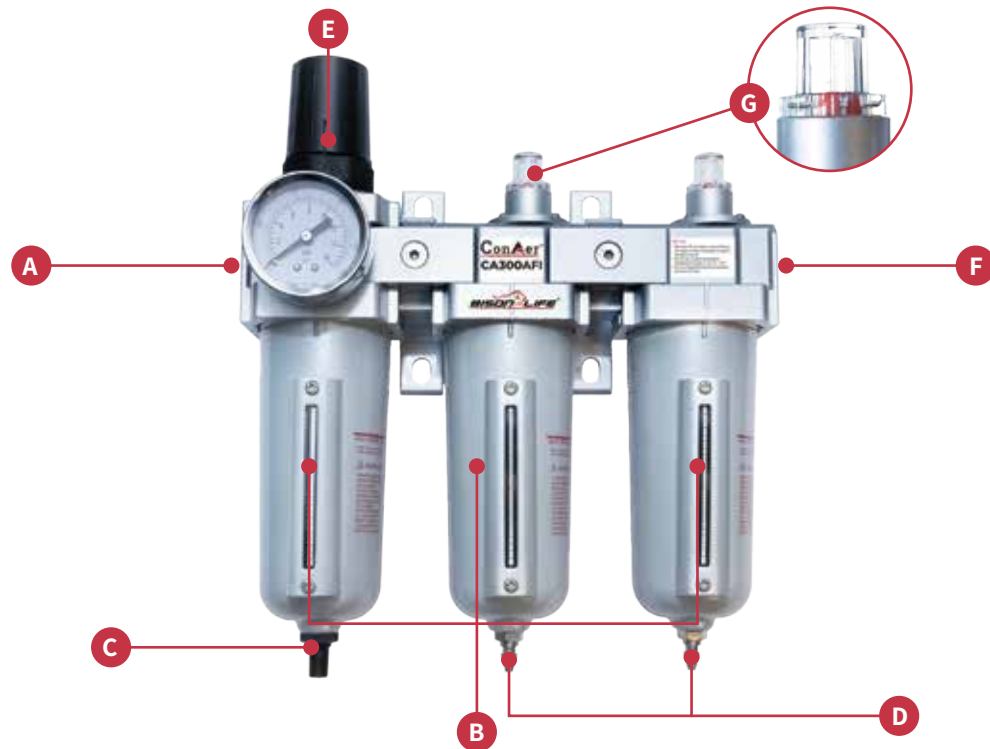
Three Stage Filtration Supplied Air Respirators



ConAer - CA300AFI Filter and Regulator Panel is a compressed breathing air purifier system designed to help remove or reduce selected contaminants that are found in standard compressed airlines.

Specification

| | |
|------------------------------|------------------------------------|
| Inlet pressure (max.) | 150 psi static |
| Rated air flow (max.) | 50 cfm (1416 L/min) at 105 psi |
| Inlet pressure (recommended) | 90 to 120 psi (6.2-8.3 bar) |
| Outlet pressure range | 0 to 115±5 psi (0 to 7.2±0.34 bar) |



1. Air Entry:

- Air entering the filtration system at the inlet may be contaminated with oil, water, dirt, rust, scale and vaporous hydrocarbons.
- Air enters the panel through the Air Inlet point 1/2" female thread port (A).

2. Three Stage Filtration:

- The Filter and Regulator Panel contains three filters (B) designed to remove liquid droplets, particles, and nuisance odors.
- Liquid contaminants are trapped in the filter assembly and expelled through the auto drain valve (C) manual drain valve (D).
- It contains air pressure regulator (D), which is used to adjust the air pressure going to the respirators.

3. Filter Panel

- Maximum capacity of 50 cfm at 105 psi,
- Require a source of breathable compressed air system or air cylinder
- No battery requirement to maintain
- Cost-effective respiratory protection for All-Day use

4. Couplings:

- It has CEJN 342 series quick couplings (E) that are ensure to supply breathing air to helmets, hoods or tight-fitting facepieces.
- Quick couplings are compatible with Bisonlife provided breathing air hose for SAR application only.

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5 µm Brass filter element: Excellent filtration performance, longer life and possibility to reuse

0.5 µm filter element: Effective filter out smaller particles and coalescing filter effect to eliminate water & oil droplets from the air stream.

0.01 µm filter element: Effective filter out the smallest particles and odor from the air stream.



6. Filter Change Indicator:

- The filter change indicators (G) signals when the filter element needs to be replaced.
- Whenever the red indicator pops up, the element must be replaced.



CA100
Single Stage Filter



CA300M
Three Stage Filter
Manual Drain

CA300A
Three Stage Filter
Auto Drain

CA300AFI
Three Stage Filter
Auto Drain
Filter Indicator

Manifold



CA2MF38
2 Way Manifold

CA3MF38
3 Way Manifold

Breathing Air Hose



CA101-S20
Spiral Hose
Available Length in Feet - 20

CA101B-S20
Spiral Hose



CA101-Series
Straight Hose
Available Length in Feet - 25, 32, 50, 65, 102

CA101B-Series
Straight Hose



Can be connected with all Bison Life's Half Face & Full Face Respirators

W400 Air **W500 Air** **HH500** **SH300** **SH400**



Can be connected with all Bison Life's Welding Shields, Soft Hoods & Hard Hoods



CA102
Regulator with Face Piece Connector and Waist Belt



CABT01
Standard Breathing Tube

CABT02
Quick Release Breathing Tube



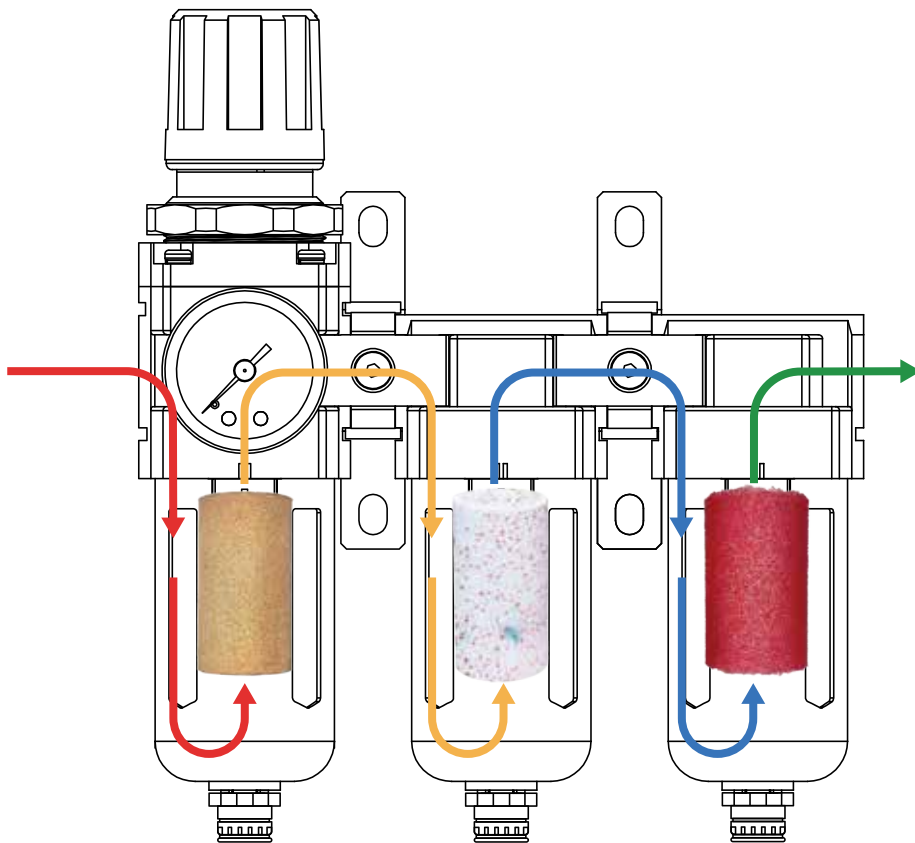
CAA01
Breathing Tube Adapter with Airflow Regulator



CAVX01
ConAer Vortex Cooling Device

Airline Suit





**WELDING
SHIELD**



Weld Vison[®]

Welding Shield

Essential For Workplace Safety

Why Welding Shields Matter?

WeldVison™ range of welding shields are a crucial part of personal protective equipment (PPE) for anyone involved in welding activities. They protect the welder's face and eyes from severe hazards such as intense light, sparks, and harmful radiation. Proper use of welding Shields can prevent serious injuries and ensure a safer working environment.

Understanding the Importance

Welding produces intense ultraviolet (UV) and infrared (IR) radiation, as well as bright visible light that can cause eye injuries and skin burns. Prolonged exposure to these elements without adequate protection can lead to conditions like "welder's flash" (photokeratitis), cataracts, and long-term skin damage. Welding Shields provide a barrier against these dangers, making them indispensable for welders.

Types of Welding Shields

Passive Welding Shields

Fixed Shade Lens: These Shields have a fixed shade lens, usually shade 10, which provides constant protection. They are simple, durable, and often more affordable.

Manual Flipping: Welders must flip the Shield up to inspect the weld and flip it down before striking an arc, which can be cumbersome but ensures continuous protection during welding.



Auto-Darkening Welding Shields

Variable Shade Lens: These Shields automatically adjust the lens shade based on the arc intensity, providing flexibility and ease of use.

Sensitivity and Delay Controls: Allow customization of how quickly the lens darkens and returns to its normal state, which enhances comfort and productivity.

Battery-Powered with Solar Assist: Many auto-darkening Shields are powered by batteries, often supplemented by solar cells to extend battery life.



Key Features to Consider

● Lens Shade

Shade Range: Ensure the Shield covers the appropriate shade range for the type of welding you perform (typically shades 9-13 for most welding applications).

Adjustability: Variable shades offer flexibility for different welding processes and environments.

● Viewing Area

Size: Larger viewing areas provide better visibility and reduce the need for head movement, improving comfort and precision.

Clarity: Look for Shields with high optical clarity ratings (1/1/1 is the best rating) for clear and undistorted views.

● Safety Standards

Compliance: Ensure the Shield meets safety standards such as ANSI Z87.1 in the US or EN 175 in Europe, which certify the Shield's protective capabilities.

● Comfort and Fit

Headgear Adjustability: Well-designed headgear allows for adjustments to ensure a secure and comfortable fit.

Weight: Lighter Shields reduce neck strain during long welding sessions, improving overall comfort.

● Durability

Materials: Shields made from robust materials like polyamide or fiberglass offer enhanced durability and protection.

Impact Resistance: Ensures the Shield can withstand accidental drops and impacts without compromising safety.

Benefits of Using Welding Shields

● Eye Protection

Shields eyes from harmful UV and IR radiation, preventing injuries like welder's flash and cataracts.

● Facial Protection

Protects the face from sparks, spatter, and heat, reducing the risk of burns and other injuries.

● Improved Visibility

Auto-darkening Shields improve visibility and accuracy, enhancing the quality of work and reducing errors.

● Enhanced Comfort

Modern Shields are designed for comfort, with features like adjustable headgear and lightweight materials, making them suitable for extended use.

Welding Shield Standards: Ensuring Safety and Performance

Welding Shields are subject to various standards to ensure they provide adequate protection and performance. These standards specify requirements for optical clarity, impact resistance, switching speed, and more. Below are key standards relevant to welding Shields.

Key aspects of the EN 166 standard

Impact Resistance: Eyewear must provide adequate protection against high-speed particles and projectiles, ensuring they do not shatter upon impact.

Optical Quality: Lenses must have minimal optical distortion to provide clear vision without causing discomfort or eye strain.

Protection Against Ultraviolet (UV) Radiation: Some eyewear may offer UV protection to shield the eyes from harmful UV rays, which can cause long-term damage to the eyes and surrounding skin.

Frame Durability: Frames should be robust and capable of withstanding mechanical stresses without breaking or deforming.

Comfort and Fit: Eyewear should be comfortable to wear for extended periods, with adjustable features to ensure a secure and personalized fit for different users.

Resistance to Chemicals and Liquids: Eyewear may be tested for resistance to various chemicals and liquids, depending on the intended use and workplace hazards.

Marking and Labeling: Each piece of eyewear must be marked with relevant information, including the manufacturer's details, lens properties (e.g., optical class, UV protection), and compliance with the EN 166 standard.

Key Aspects of ISO 16321-1:2021

● Adaptability to Emerging Risks:

ISO 16321-1:2021 addresses emerging risks, such as protection against ultraviolet and infrared radiation, which may not be fully covered by EN166:2001 but under other standards such as EN170, EN171. This guarantees more complete protection in constantly changing work environments since ISO 16321-1:2021 covers them all.

● Personalized Risk Assessment:

The new standard places strong emphasis on the assessment of specific risks in the workplace, allowing for more precise selection of protective devices. This leads to more effective and personalized protection for workers.

● Labeling & Marking Improvements:

ISO 16321-1:2021 establishes detailed requirements for the labeling and marking of eye protection devices, facilitating quick and clear identification of the safety features provided.

● Incorporating Technological Advances:

By integrating the latest technological advances and scientific discoveries, the standard ensures that eye protection products are at the forefront of safety, leveraging innovations for greater effectiveness.

● ANSI Z87.1 (American National Standards Institute)

Scope: This standard specifies the design, performance, and marking of eye and face protection devices, including welding Shields, used in occupational and educational settings.

Requirements:

Impact Resistance: Shields must withstand impact from high-velocity particles.

Optical Clarity: Ensures minimal distortion and high optical quality.

UV/IR Protection: Lenses must provide protection from ultraviolet (UV) and infrared (IR) radiation.

Auto-Darkening Filters: Specifies switching speed, shade range, and light state requirements for auto-darkening Shields.

● EN 175 (European Standard)

Scope: This standard specifies safety requirements and testing for equipment used to protect the eyes and face during welding and related processes.

Requirements:

Mechanical Strength: Shields must resist impact and penetration.

Field of Vision: Ensures a wide and clear field of vision for the welder.

Thermal Resistance: Shields must withstand high temperatures and flames.

Electrical Insulation: Ensures protection against electrical hazards during welding.

● EN 379 (European Standard)

Scope: This standard focuses on auto-darkening welding filters and specifies requirements for their optical and protective properties.

Requirements:

Optical Classes: Ratings for optical quality, diffusion of light, variations in luminous transmittance, and angle dependence of luminous transmittance.

Switching Speed: Specifies the time it takes for the filter to switch from light to dark state.

Shade Range: Defines the range of shades the filter can provide, typically from shade 5 to shade 13.

UV/IR Protection: Ensures constant protection from UV and IR radiation, regardless of the filter's state.

Additional Considerations

Shield Markings: Shields should have clear markings indicating compliance with relevant standards, the manufacturer's name, model number, and shade range.

Fit and Comfort: Standards often include requirements for adjustable headgear and ergonomic design to ensure a secure and comfortable fit.

Maintenance and Durability: Shields must be durable and easy to maintain, with replaceable parts like lenses and headgear to extend their lifespan.



Auto-Darkening Filter (ADF) Standards for Welding Shields

Auto-Darkening Filters (ADFs) are a critical component of modern welding Shields, providing dynamic protection by automatically adjusting their shade in response to welding light. Standards ensure that ADFs offer reliable protection, optical clarity, and durability. Below are key standards related to ADFs in welding Shields.

Key ADF Standards

● EN 379 (European Standard)

Scope: This standard specifies the requirements and testing methods for automatic welding filters (ADF).

Requirements:

Optical Classes: ADFs are rated for optical quality based on four criteria: optical clarity, diffusion of light, variations in luminous transmittance, and angle dependence of luminous transmittance. The best rating for each criterion is 1, with 1/1/1/1 being the highest overall rating.

Switching Speed: Specifies the time it takes for the ADF to switch from the light state to the dark state upon detecting the welding arc. Faster switching speeds provide better protection for the eyes.

Shade Range: Defines the range of darkness levels the ADF can achieve, typically from shade 5 to shade 13, suitable for various welding applications.

UV/IR Protection: Ensures continuous protection from ultraviolet (UV) and infrared (IR) radiation, regardless of the filter's state (light or dark).

Light State: Specifies the light state shade of the ADF when no arc is detected, usually between shade 3 and shade 4, for clear vision during non-welding activities.

Temperature Resistance: ADFs must perform consistently across a range of temperatures to ensure reliability in different working conditions.

● ANSI/ISEA Z87.1 (American National Standards Institute / International Safety Equipment Association)

Scope: This standard covers the performance and testing of eye and face protection devices, including ADF welding Shields.

Requirements:

Impact Resistance: ADFs must withstand impact from high-velocity particles to provide protection against physical hazards.

Switching Speed: Specifies the required speed for the ADF to switch from light to dark state to protect the eyes from the welding arc.

Shade Range and Consistency: Ensures the ADF provides the appropriate shade levels for various welding operations and that the shade is consistent across the viewing area.

UV/IR Protection: Continuous protection from UV and IR radiation, irrespective of the ADF's state.

Power Source: ADFs can be powered by batteries, solar cells, or a combination of both, with standards ensuring reliable operation.

Welding Shields With PAPR Integration: Enhancing Safety And Comfort

Welding Shields integrated with Powered Air-Purifying Respirators (PAPR) offer enhanced protection by combining respiratory and facial protection into one system. This integration is particularly beneficial in environments where both welding fumes and particulate matter are present. Here's a guide to understanding and choosing welding Shields with PAPR integration.

Benefits of PAPR-Integrated Welding Shields

● Comprehensive Protection:

Respiratory Protection: PAPRs provide filtered air, protecting the welder from harmful fumes, gases, and particulate matter.

Facial and Eye Protection: Integrated welding Shields protect against intense light, UV/IR radiation, and physical hazards like sparks and spatter.

● Improved Comfort:

Reduced Breathing Effort: PAPRs deliver a steady flow of clean air, reducing the effort needed to breathe and enhancing comfort during extended welding sessions.

Lower Heat Stress: The air supplied by the PAPR can help keep the welder cooler, reducing heat stress and discomfort.

● Enhanced Visibility:

Auto-Darkening Filters: Combined with PAPR systems, auto-darkening welding Shields offer clear visibility and automatic adjustment of the lens shade in response to welding light.

Wide Viewing Area: Many PAPR-integrated Shields have larger viewing windows, improving the welder's field of vision and precision.

● Increased Safety:

Constant Air Supply: Continuous airflow helps to dilute and remove contaminants, reducing the risk of respiratory issues.

Compliance with Safety Standards: Ensures both respiratory and facial protection meet relevant safety regulations and standards.

Key Features to Consider

● PAPR System Specifications:

Filter Type and Efficiency: Ensure the PAPR system has appropriate filters for the contaminants present in the welding environment (e.g., HEPA filters for particulates, activated carbon filters for gases).

Airflow Rate: Check that the airflow rate meets the recommended standards for comfort and protection (typically between 6 to 10 liters per minute).

Battery Life: Consider the battery life of the PAPR unit, which should be sufficient for the duration of your work shifts.

● Shield Integration:

Comfort and Fit: Ensure the Shield integrates well with the PAPR system, offering a comfortable and secure fit.

Ventilation: The Shield should be designed to work effectively with the PAPR's airflow system to prevent fogging and ensure clear vision.

Weight and Balance: The combined weight of the Shield and PAPR unit should be balanced to avoid strain on the neck and head.

● Optical Quality:

Auto-Darkening Features: Look for Shields with high optical clarity ratings (e.g., 1/1/1/1) for clear and distortion-free vision.

Shade Range: Ensure the auto-darkening filter offers the appropriate range of shades for various welding tasks (usually shades 9-13).

● Maintenance and Durability:

Filter Replacement: Choose a system with easy access for filter replacement and maintenance.

Shield Durability: The Shield should be made from durable materials to withstand welding conditions and provide long-lasting protection.

● Compliance with Standards:

Safety Standards: Ensure the Shield and PAPR system comply with relevant standards, such as EN 12941 for PAPR systems, EN 175 for welding Shields, and ANSI/ISEA Z87.1 for eye and face protection.



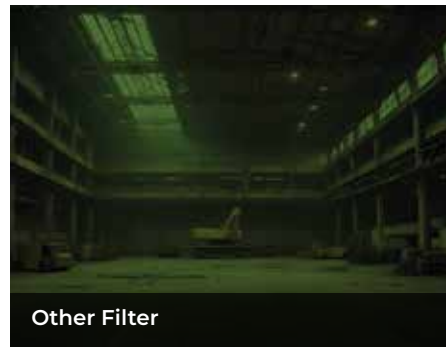


TRUE COLOUR TECHNOLOGY

Auto-darkening filters with the original WeldVison™ Technology are of the highest optical class 1 /1 /1 /1 DIN rating. Instant switch from bright to dark state, protecting eyes from all directions.

Users are able to enjoy true-to-life color recognition and exceptional high definition with our WeldVison™ Technology. No glare or interference, we provide the industry-leading eye-protection to help every user better concentrate on producing quality welds while improving their efficiency.

LIGHT STATE



When not welding, the ADF restores true colors for a clear and comfortable view. You can adjust the welding machine without needing to remove the helmet.

DARK STATE



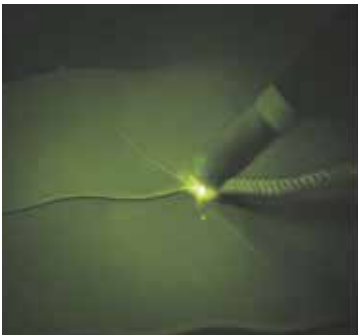
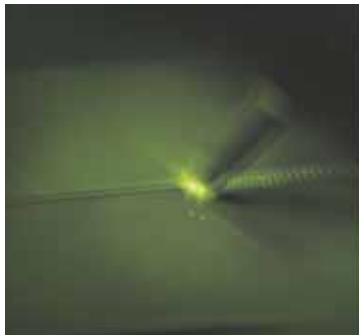
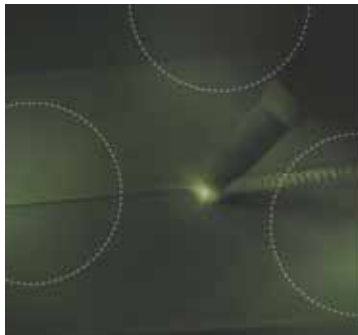
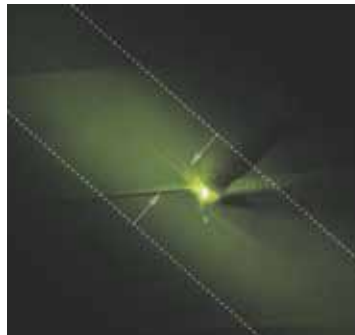
During welding, it enhances user visibility of the weld pool and seam, leading to more precise welding.

Highest Optical Class

1/1/1/1

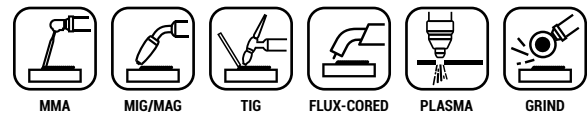
What Does 1/1/1/1 Mean?

- The four parameters of welding filters: optical class, light diffusion, light homogeneity and angle dependence.
- Each parameter is ranked on a scale from Class 1 to 3, with Class 1 being the best, and Class 3 representing the lowest tier (which is the minimum level required to meet the CE standard).

| Optical Class | Light Diffusion | Light Homogeneity | Angle Dependence |
|---|--|--|---|
| <p>Highest Class</p> <p>1/X/X/X</p> <p>Optical class indicates optical quality of the ocular.</p> | <p>Highest Class</p> <p>X/1/X/X</p> <p>Light diffusion class (adjustable filters only) 1, 2 or 3 indicates light diffusion class of the filter lens.</p> | <p>Highest Class</p> <p>X/X/1/X</p> <p>Variations in luminous transmittance class 1, 2 or 3 indicates shade variability in the dark state of the filter.</p> | <p>Highest Class</p> <p>X/X/X/1</p> <p>Angle dependence of luminous transmittance class 1, 2 or 3 indicates the shade remains consistent when looking at any angle.</p> |
| <p>Worst Class</p> <p>3/X/X/X</p> <p>Bad optical class quality will cause visual distortion.</p> | <p>Worst Class</p> <p>X/3/X/X</p> <p>Bad diffusion will cause double visual and headaches.</p> | <p>Worst Class</p> <p>X/X/3/X</p> <p>Bad Homogeneity, some lighter area will not be able to provide enough protection.</p> | <p>Worst Class</p> <p>X/X/X/3</p> <p>Bad Angle Dependence will cause uneven darkness when eyes have some angles with the lens.</p> |
|  |  |  |  |



W300



Auto Darkening Welding Shield with ADF800SG

Product Specification

| | |
|------------------------|---|
| Optical Class | 1 / 1 / 1 / 1 |
| Viewing Area | 97 x 62 mm (3.82" x 2.44") |
| Cartridge Size | 133 x 114 x 9 mm (5.25" x 4.50" x 0.35") |
| Arc Sensor | 4 |
| Light State | DIN 3.5 |
| Dark State | Variable Shade 5 ~ 8 / 9 ~ 13 |
| Shade Control | Internal, Variable Shade |
| Power On/Off | Automatic On / Off |
| Sensitivity Control | Low ~ High, by infinitely dial knob |
| UV/IR Protection | Up to Shade DIN16 at all times |
| Power Supply | Solar cell. Battery replaceable, 2 x CR2450 lithium battery |
| Switching Time | 1/25,000 s. from Light to Dark |
| Dark to Light | 0.1 ~ 1.0 s by infinitely dial knob |
| Low Amperage TIG Rated | ≥ 2 amps (DC); ≥ 2 amps (AC) |
| Grinding | Yes |
| Battery Capacity Test | Yes |
| Operating Temp. | -10 °C ~ +55 °C (14 °F ~ 131 °F) |
| Storing Temp. | -20 °C ~ +70 °C (-4 °F ~ 158 °F) |
| Helmet Material | High Impact Resistance Nylon |
| Total Weight | 490 g |
| Approved | CE, ANSI, CSA, AS/NZS, EAC |

Packaging Information

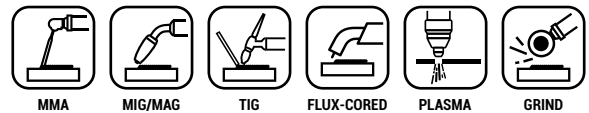
1 Piece / Box

| Product SKU | Size | Colour | Inner pack UPC |
|----------------|------|--------|----------------|
| BLSH-ADWH-W300 | OSFM | Black | 810148535339 |

W500 Air



Side Lens



Flip-up Auto Darkening Welding Shield with side lens with ADF900S

Product Specification

| | |
|------------------------|---|
| Optical Class | 1 / 1 / 1 / 1 |
| Viewing Area | 107 x 75 mm (4.21" x 2.95") |
| Cartridge Size | 156 x 123 x 33 mm (6.14" x 4.84" x 1.30") |
| Arc Sensor | 4 |
| Light State | DIN 4 |
| Grind State | DIN 4 |
| Cutting Shade | Shade No. from 5 to 8 |
| Welding Shade | Shade No. from 9 to 13 |
| Shade Control | Internal, Digital Display Control |
| Power On / Off | Automatic On / Off |
| Sensitivity Control | Low ~ High, Digital Display Control |
| UV / IR Protection | Up to Shade DIN 16 at all times |
| Power Supply | Solar cell. Battery replaceable, 2 x CR2450 lithium battery |
| Switching Time | 1 / 25,000 s. from Light to Dark |
| Grinding | Yes |
| Delay (Dark to Light) | 0.1 ~ 1.0 s, Digital Display Control |
| Low Amperage TIG Rated | ≥ 2 amps (DC); ≥ 2 amps (AC) |
| Operating Temp. | -10 °C ~ +55 °C (23 °F ~ 131 °F) |
| Storing Temp. | -20 °C ~ +70 °C (-4 °F ~ 158 °F) |
| Helmet Material | High Impact Resistance Nylon |
| Approved | CE, UKCA, UKNI, ANSI Z87.1, Z94.3, AS/NZS 1338.1, EAC |

Packaging Information

1 Piece / Box

| Product SKU | Size | Colour | Inner pack UPC |
|---------------------|------|--------|----------------|
| BLSH-FADWH-ASL-W500 | OSFM | Black | 810148535360 |



HAND PROTECTION

Ultimett

Hand Protection

Essential for Workplace Safety

Hand protection is crucial for ensuring safety in the workplace. Hands are among the most vulnerable parts of the body, and injuries can range from minor cuts and abrasions to severe damage that can impact a worker's ability to perform their job. Here's why hand protection is essential and how to ensure you're using the right gear.

Why Hand Protection Matter?

Prevention of Injuries: Proper hand protection can prevent a wide range of injuries, including cuts, burns, punctures, and chemical exposures.

Compliance with Safety Standards: Many industries have regulations that mandate the use of hand protection. Compliance with these standards helps avoid legal penalties and ensures worker safety.

Productivity: Protecting hands from injury reduces downtime and maintains productivity, as workers are less likely to be sidelined by injuries.

Long-Term Health: Chronic conditions like repetitive strain injuries can be mitigated with appropriate hand protection, preserving the long-term health and efficiency of the workforce.

Types of Hand Protection gloves

Cut-Resistant Gloves: Made from materials like Kevlar, these gloves protect against sharp objects.

Chemical-Resistant Gloves: Typically made from rubber, neoprene, or nitrile, these gloves protect against hazardous substances.

Heat-Resistant Gloves: Designed for high-temperature environments, these gloves protect against burns.

Electrical Insulating Gloves: These gloves are used to protect against electrical shocks and are essential for electricians and workers in similar fields.

Disposable Gloves: Often used in healthcare or food industries, these gloves provide a barrier against contamination.

Key Features to Consider

Material: The choice of material depends on the specific hazard, whether it be chemicals, sharp objects, heat, or electricity.

Fit and Comfort: Gloves should fit well to ensure dexterity and comfort, reducing the risk of accidents caused by ill-fitting gear.

Grip: Gloves with textured surfaces can enhance grip, reducing the chance of dropping tools or materials.

Durability: Consider the durability of gloves in relation to the tasks they will be used for. Some tasks may require more robust protection.

Best Practices for Using Hand Protection

Proper Selection: Choose gloves that are appropriate for the specific hazards in your workplace.

Regular Inspection: Inspect gloves regularly for signs of wear and tear. Replace them if they are damaged or no longer provide adequate protection.

Training: Ensure workers are trained in the correct use of hand protection, including how to put on, take off, and dispose of gloves properly.

Maintenance: Clean reusable gloves according to the manufacturer's instructions to maintain their protective properties.

Storage: Store gloves in a cool, dry place away from direct sunlight and chemicals to prolong their lifespan.

EN 388: Key Components & Ratings

The EN 388 standard tests gloves for four main mechanical risks, each represented by a specific rating. These ratings are shown as a sequence of numbers and letters on the glove, which indicates its performance in each category.

● Abrasion Resistance (0-4):

Test: A glove is subjected to repeated abrasion until a hole appears.

Rating: 0 (lowest) to 4 (highest). A higher number indicates better resistance to abrasion

● Cut Resistance (Coup Test) (0-5):

Test: A rotating circular blade is used to cut through the glove material.

Rating: 0 (lowest) to 5 (highest). A higher number indicates greater resistance to cuts.

● Tear Resistance (0-4):

Test: The force required to tear the glove material is measured.

Rating: 0 (lowest) to 4 (highest). A higher number indicates greater resistance to tearing.

● Puncture Resistance (0-4):

Test: The force required to puncture the glove with a standard-sized point is measured.

Rating: 0 (lowest) to 4 (highest). A higher number indicates better resistance to punctures.


Additional Test: ISO 13997 Cut Resistance (A-F)

In addition to the Coup Test, the EN 388 standard includes an additional test for cut resistance using the ISO 13997 method. This test is particularly relevant for high-performance gloves.

Rating: A (lowest) to F (highest), where F represents the highest level of cut resistance.

Understanding the EN 388 Marking

The EN 388 marking on a glove might look something like this: EN 388: 4X43F. Each digit or letter corresponds to a specific test:

| | |
|--|--|
|  | 4: Abrasion resistance level. |
| | X: Cut resistance using the Coup Test (X indicates that the Coup Test was not performed). |
| | 4: Tear resistance level. |
| | 3: Puncture resistance level. |
| | F: Cut resistance using the ISO 13997 method. |

EN 374: Key Components & Ratings

EN 374 consists of several parts, each covering different aspects of chemical and microorganism protection.

● EN 374-1: Terminology & Performance Requirements

Type A Gloves: Provide the highest level of protection against chemicals, with resistance to at least six chemicals from the list of standard test chemicals (performance level 2 or higher).

Type B Gloves: Provide resistance to at least three chemicals (performance level 2 or higher).

Type C Gloves: Provide resistance to at least one chemical (performance level 1 or higher).

Each glove type is tested for permeation (how long it takes a chemical to break through the glove material) and degradation (the physical deterioration of the glove material when exposed to a chemical).

● EN 374-2: Resistance to Penetration

Test: This part of the standard tests gloves for resistance to penetration by microorganisms, including bacteria, viruses, and fungi. It involves a test for leaks using air and water pressure.

Result: Gloves that pass this test are considered impermeable to microorganisms.

● EN 374-4: Resistance to Degradation

Test: This test measures the change in a glove's material when exposed to a specific chemical. Degradation is evaluated by assessing changes in puncture resistance after chemical exposure.

Result: A percentage value indicates the degradation level; the lower the percentage, the better the glove resists degradation.

● EN 374-5: Protection Against Microorganisms

Virus Protection: Gloves that offer protection against viruses have an additional marking with the word "VIRUS" under the EN 374-5 logo. This indicates that the glove has passed an additional viral penetration test.

EN 374 Markings on Gloves

Gloves that meet the EN 374 standards will have specific markings to indicate their protection level:

Chemical Resistance (Type A, B, or C)

Type A (high resistance)

6 chemicals for at least 30 minutes (level 2)



Type B (medium resistance)

3 chemicals for at least 30 minutes (level 2)



Type C (lowest resistance)

1 chemical for at least 10 minutes (level 1)



Micro-Organisms (EN ISO 374-5:2016)

Protection Against Bacteria and Fungi:

Gloves must pass the penetration resistance test in accordance with standard EN374- 2:2014.



Protection Against Virus, Bacteria and Fungi:

Gloves must pass the penetration resistance test in accordance with standard EN374- 2:2014 and ISO16604:2004.



List of Standard Test Chemicals (Part of EN 374) each glove is tested against specific chemicals, identified by letters in the EN 374 markings:

| Code Letter | Chemical | Cas # | Class |
|-------------|------------------------|-----------|-------------------------------------|
| A | Methanol | 67-56-1 | Primary Alcohol |
| B | Acetone | 67-54-1 | Ketone |
| C | Acrylonitrile | 75-05-8 | Nitrile Compound |
| D | Dichloromethane | 75-09-2 | Chlorinated Paraffin |
| E | Carbon Disulphide | 75-15-0 | Sulphur containing Organic Compound |
| F | Toluene | 108-88-3 | Aromatic Hydrocarbon |
| G | Diethylamine | 108-89-7 | Amine |
| H | Tetrahydrofuran | 109-99-9 | Heterocyclic and Ether Compound |
| I | Ethyl Acetate | 141-78-6 | Ester |
| J | n-Heptane | 142-82-5 | Saturated Hydrocarbon |
| K | Sodium Hydroxide 40% | 1310-73-2 | Inorganic Base |
| L | Sulfuric Acid 96% | 7664-93-9 | Inorganic Mineral Acid |
| M | Nitric Acid 65% | 7697-37-2 | Inorganic Mineral Acid |
| N | Acetic Acid 99% | 64-19-7 | Organic acid |
| O | Ammonium Hydroxide 25% | 1336-21-6 | Organic base |
| P | Hydrogen Peroxide 30% | 7722-84-1 | Peroxide |
| S | Hydrofluoric Acid 40% | 7664-39-3 | Inorganic Mineral Acid |
| T | Formaldehyde 37% | 50-00-0 | Aldehyde |

EN 407: Key Components & Ratings

EN 407 tests gloves for various types of thermal hazards, each represented by a specific rating. The standard covers six different performance categories, and each category is rated on a scale from 0 (lowest protection) to 4 (highest protection). The ratings are typically displayed on the glove as a sequence of six numbers, each corresponding to a different test.

● Resistance to Flammability (A) (0-4)

Test: The glove material is exposed to a flame for a specific period, and the time it takes for the material to stop burning or glowing after the flame is removed is measured.

Rating: A higher number indicates better resistance to flammability, with level 4 representing the highest resistance.

● Contact Heat Resistance (B) (0-4)

Test: The glove is tested for its ability to withstand direct contact with a hot object at temperatures ranging from 100°C to 500°C without allowing the inside temperature of the glove to increase by more than 10°C within a 15-second exposure.

Rating: Level 1 (100°C) to level 4 (500°C). A higher number indicates better protection against higher temperatures.

● Convective Heat Resistance (C) (0-4)

Test: This measures the glove's ability to delay heat transfer from a flame to the inside of the glove.

Rating: A higher rating indicates better protection, with level 4 representing the highest resistance.

● Radiant Heat Resistance (D) (0-4)

Test: The glove material is exposed to a radiant heat source, and the time it takes for the temperature inside the glove to rise by a specific amount is measured.

Rating: A higher rating indicates better protection against radiant heat, with level 4 being the highest.

● Small Splashes of Molten Metal (E) (0-4)

Test: The glove is tested for its ability to withstand small splashes of molten metal without significant damage.

Rating: The higher the number, the better the glove can protect against small splashes of molten metal.

● Large Splashes of Molten Metal (F) (0-4)

Test: This test measures the amount of molten metal required to cause significant damage, such as pinholes or material adherence.

Rating: A higher rating indicates better protection against larger splashes of molten metal.

EN 407 Marking on Gloves

A glove that meets the EN 407 standard will have a symbol indicating thermal protection, often represented by a flame icon. Next to the icon, you'll see a series of six digits corresponding to the performance ratings in the categories listed above. For example, a marking of EN 407: 413X4X would indicate the following:



Gloves tested to EN407:2020, when not claiming for Limited Flame Spread use this icon.



Gloves tested to EN407:2004, when claiming Limited Flame Spread will use this icon.

4: Resistance to flammability (highest rating).

1: Contact heat resistance (minimal protection).

3: Convective heat resistance.

X: No rating or test not performed for radiant heat resistance.

4: Resistance to small splashes of molten metal.

X: No rating or test not performed for large splashes of molten metal.

EN 60903: Key Components & Classification

EN 60903 covers the design, testing, and use of insulating gloves that provide protection against electrical voltages. The standard includes several key aspects:

● Glove Classes

Gloves are classified into different classes based on the level of electrical protection they offer. Each class corresponds to the maximum voltage that the gloves can safely withstand during use. The classes are:

Class 00: For use up to 500 volts AC / 750 volts DC

Class 0: For use up to 1,000 volts AC / 1,500 volts DC

Class 1: For use up to 7,500 volts AC / 11,250 volts DC

Class 2: For use up to 17,000 volts AC / 25,500 volts DC

Class 3: For use up to 26,500 volts AC / 39,750 volts DC

Class 4: For use up to 36,000 volts AC / 54,000 volts DC

Each class is marked on the glove to indicate its level of protection.

● Physical and Mechanical Properties

The standard also specifies the physical and mechanical properties of the gloves, including tensile strength, elongation, puncture resistance, and aging resistance. These properties ensure that the gloves can withstand the physical demands of the work environment while maintaining their insulating properties.

● Testing Procedures

Dielectric Testing: Gloves are tested for their ability to insulate against electrical currents. This involves applying a specific voltage to the gloves and checking for leakage or failure.

Mechanical Testing: Gloves are also tested for resistance to punctures, cuts, tears, and other mechanical damage that could compromise their insulating properties.

Aging Tests: Gloves are subjected to conditions that simulate long-term use to ensure they maintain their insulating properties over time.

● Markings on Gloves

EN 60903 gloves are marked with specific information to indicate their protective properties, including:

- The class of the glove (e.g., Class 0, Class 2).
- The maximum voltage the glove is rated for.
- The glove size and manufacturer information.
- The date of manufacture or testing.
- Additional markings for resistance to specific hazards, such as ozone, low temperatures, or acid resistance.

EN 60903



Additional Features

● Composite Gloves:

Some gloves are classified as composite gloves, which provide mechanical protection in addition to electrical insulation, eliminating the need for an over-glove.

● Category C, R, Z, H:

C (Cryogenic): Resistance to low temperatures.

R: Resistance to acid, oil, ozone, and very low temperatures.

Z: Resistance to ozone.

H: Resistance to oil.



MG1211

PU Coated Gloves



Product Specification

| | |
|------------------|-------------|
| Liner | Polyester |
| Liner Colour | Black |
| Coating | PU |
| Coating Colour | Black |
| Coating Finish | Flat |
| Coating Coverage | Palm Coated |
| Cuff Style | Knit Wrist |
| Size | S-XL |

Performance Score

EN388

| | |
|-------------|---|
| Abrasion | 3 |
| Cut (Coupe) | 1 |
| Tear | 2 |
| Puncture | 1 |
| Cut (TDM) | X |

Packaging Information

| |
|---------------------|
| 12 Pairs / Poly Bag |
| 240 Pairs / Carton |

| Product SKU | Size | Colour | Inner pack UPC | Carton GTIN |
|-----------------|--------|--------|----------------|----------------|
| BLSH-GPGU-BK8-1 | Medium | Black | 810090087993 | 10810090087990 |
| BLSH-GPGU-BK9-1 | Large | Black | 810090088006 | 10810090088003 |
| BLSH-GPGU-GY8-1 | Medium | Grey | 810090088013 | 10810090088010 |
| BLSH-GPGU-GY9-1 | Large | Grey | 810090088020 | 10810090088027 |

MG2415

PU Coated Gloves



Product Specification

| | |
|------------------|--------------|
| Liner | HPPE |
| Liner Colour | Grey Melange |
| Coating | PU |
| Coating Colour | Grey |
| Coating Finish | Flat |
| Coating Coverage | Palm Coated |
| Cuff Style | Knit Wrist |
| Size | S-XL |

Performance Score

EN388

| | |
|-------------|---|
| Abrasion | 4 |
| Cut (Coupe) | 5 |
| Tear | 4 |
| Puncture | 3 |
| Cut (TDM) | |

Packaging Information

| |
|---------------------|
| 12 Pairs / Poly Bag |
| 144 Pairs / Carton |

| Product SKU | Size | Inner pack UPC | Carton GTIN |
|------------------|--------|----------------|----------------|
| BLSH-CRG5U-GY8-1 | Medium | 810090088051 | 10810090088058 |
| BLSH-CRG5U-GY9-1 | Large | 810090088068 | 10810090088065 |

MG1121

Latex Coated Gloves



Product Specification

| | |
|------------------|-------------|
| Liner | Polycotton |
| Liner Colour | Red |
| Coating | Latex |
| Coating Colour | Black |
| Coating Finish | Crinkle |
| Coating Coverage | Palm Coated |
| Cuff Style | Knit Wrist |
| Size | S-XL |

Performance Score

EN388

| | |
|-------------|---|
| Abrasion | 3 |
| Cut (Coupe) | 1 |
| Tear | 2 |
| Puncture | 1 |
| Cut (TDM) | X |

Packaging Information

| |
|---------------------|
| 12 Pairs / Poly Bag |
| 144 Pairs / Carton |

| Product SKU | Size | Inner pack UPC | Carton GTIN |
|-----------------|--------|----------------|----------------|
| BLSH-GPG1-LX8-R | Medium | 810090088334 | 10810090088331 |
| BLSH-GPG1-LX9-R | Large | 810090088341 | 10810090088348 |

MG1231

Nitrile Coated Gloves



Product Specification

| | |
|------------------|-------------|
| Liner | Polyester |
| Liner Colour | Red |
| Coating | Nitrile |
| Coating Colour | Black |
| Coating Finish | Flat |
| Coating Coverage | Palm Coated |
| Cuff Style | Knit Wrist |
| Size | S-XL |

Performance Score

EN388

| | |
|-------------|---|
| Abrasion | 3 |
| Cut (Coupe) | 1 |
| Tear | 2 |
| Puncture | 1 |
| Cut (TDM) | X |

Packaging Information

| |
|---------------------|
| 12 Pairs / Poly Bag |
| 240 Pairs / Carton |

| Product SKU | Size | Inner pack UPC | Carton GTIN |
|------------------|--------|----------------|----------------|
| BLSH-GPGN-BKR8-1 | Medium | 810090087979 | 10810090087976 |
| BLSH-GPGN-BKR9-1 | Large | 810090087986 | 10810090087983 |

General Purpose Gloves

UltiFlex® Series



MG1331 Nitrile Coated Gloves



Product Specification

| | |
|------------------|-------------|
| Liner | Polyester |
| Liner Colour | Blue |
| Coating | Nitrile |
| Coating Colour | Black |
| Coating Finish | Flat |
| Coating Coverage | Palm Coated |
| Cuff Style | Knit Wrist |
| Size | S-XL |

Performance Score

| | |
|--------------|---|
| EN388 | |
| Abrasion | 2 |
| Cut (Coupe) | 1 |
| Tear | 2 |
| Puncture | 1 |
| Cut (TDM) | X |

Packaging Information

| |
|---------------------|
| 12 Pairs / Poly Bag |
| 144 Pairs / Carton |

| Product SKU | Size | Inner pack UPC | Carton GTIN |
|-------------------|--------|----------------|----------------|
| BLSH-GPRN-BKBL8-1 | Medium | 810090088099 | 10810090088096 |
| BLSH-GPRN-BKBL9-1 | Large | 810090088105 | 10810090088102 |

Arm Sleeve

ArmoCut™ Series

AS42D0 HPPE Sleeve With Thumbhole



Product Specification

| | |
|--------------|--------------|
| Liner | HPPE |
| Liner Colour | Grey Melange |
| Thumbhole | Yes |
| Length | 18" |

Performance Score

| | |
|--------------|---|
| EN388 | |
| Abrasion | 3 |
| Cut (Coupe) | 5 |
| Tear | 4 |
| Puncture | 2 |
| Cut (TDM) | D |

Packaging Information

| |
|---------------------|
| 12 Pairs / Poly Bag |
| 192 Pairs / Carton |



| Product SKU | Length | Inner pack UPC | Carton GTIN |
|------------------|--------|----------------|----------------|
| BLSH-AST18H-M-12 | 18" | 810188143853 | 00810188143860 |

MG371B PU Coated Gloves



Product Specification

| | |
|------------------|------------------|
| Liner | HPPE/Glass Fiber |
| Liner Colour | Grey Melange |
| Coating | PU |
| Coating Colour | Grey |
| Coating Finish | Flat |
| Coating Coverage | Palm Coated |
| Cuff Style | Knit Wrist |
| Size | S-XL |

Performance Score

| | |
|--------------|---|
| EN388 | |
| Abrasion | 4 |
| Cut (Coupe) | X |
| Tear | 4 |
| Puncture | 2 |
| Cut (TDM) | B |

Packaging Information

| |
|--------------------|
| 12 Pairs / Polybag |
| 144 Pairs / Carton |

| Product SKU | Size | Inner pack UPC | Carton GTIN |
|------------------|--------|----------------|----------------|
| BLSH-CRGB-PU8-GY | Medium | 810090088198 | 10810090088195 |
| BLSH-CRGB-PU9-GY | Large | 810090088204 | 10810090088201 |

MG381C PU Coated Gloves



Product Specification

| | |
|------------------|---------------------------|
| Liner | Nylon/Glass fiber/Spandex |
| Liner Colour | Orange |
| Coating | PU |
| Coating Colour | Black |
| Coating Finish | Flat |
| Coating Coverage | Palm Coated |
| Cuff Style | Knit Wrist |
| Size | S-XL |

Performance Score

| | |
|--------------|---|
| EN388 | |
| Abrasion | 4 |
| Cut (Coupe) | X |
| Tear | 4 |
| Puncture | 2 |
| Cut (TDM) | c |

Packaging Information

| |
|--------------------|
| 12 Pairs / Polybag |
| 144 Pairs / Carton |

| Product SKU | Size | Inner pack UPC | Carton GTIN |
|-----------------|--------|----------------|----------------|
| BLSH-CRGC-PU8-O | Medium | 810090088211 | 10810090088218 |
| BLSH-CRGC-PU9-O | Large | 810090088228 | 10810090088225 |

MG371C PU Coated Gloves



Product Specification

| | |
|------------------|------------------|
| Liner | HPPE/Glass Fiber |
| Liner Colour | Grey Melange |
| Coating | PU |
| Coating Colour | Grey |
| Coating Finish | Flat |
| Coating Coverage | Palm Coated |
| Cuff Style | Knit Wrist |
| Size | S-XL |

Performance Score

| | |
|--------------|---|
| EN388 | |
| Abrasion | 4 |
| Cut (Coupe) | X |
| Tear | 4 |
| Puncture | 3 |
| Cut (TDM) | c |

Packaging Information

| |
|--------------------|
| 12 Pairs / Polybag |
| 144 Pairs / Carton |

| Product SKU | Size | Inner pack UPC | Carton GTIN |
|------------------|--------|----------------|----------------|
| BLSH-CRGC-PU8-GY | Medium | 810090088235 | 10810090088232 |
| BLSH-CRGC-PU9-GY | Large | 810090088242 | 10810090088249 |

MG373C Nitrile Coated Gloves



Product Specification

| | |
|------------------|------------------|
| Liner | HPPE/Glass Fiber |
| Liner Colour | Grey Melange |
| Coating | Nitrile |
| Coating Colour | Black |
| Coating Finish | Flat |
| Coating Coverage | Palm Coated |
| Cuff Style | Knit Wrist |
| Size | S-XL |

Performance Score

| | |
|--------------|---|
| EN388 | |
| Abrasion | 4 |
| Cut (Coupe) | X |
| Tear | 4 |
| Puncture | 4 |
| Cut (TDM) | c |

Packaging Information

| |
|--------------------|
| 12 Pairs / Polybag |
| 144 Pairs / Carton |

| Product SKU | Size | Inner pack UPC | Carton GTIN |
|-----------------|--------|----------------|----------------|
| BLSH-CRGC-N8-GY | Medium | 810090088259 | 10810090088256 |
| BLSH-CRGC-N9-GY | Large | 810090088266 | 10810090088263 |

MG393D PU Coated Gloves



Product Specification

| | |
|------------------|------------------------------|
| Liner | HPPE/Steel/Polyester/Spandex |
| Liner Colour | Grey Melange |
| Coating | PU |
| Coating Colour | Black |
| Coating Finish | Flat |
| Coating Coverage | Palm Coated |
| Cuff Style | Knit Wrist |
| Size | S-XL |

Performance Score

| | |
|--------------|---|
| EN388 | |
| Abrasion | 4 |
| Cut (Coupe) | X |
| Tear | 4 |
| Puncture | 2 |
| Cut (TDM) | D |

Packaging Information

| |
|--------------------|
| 12 Pairs / Polybag |
| 144 Pairs / Carton |

| Product SKU | Size | Inner pack UPC | Carton GTIN |
|------------------|--------|----------------|----------------|
| BLSH-CRGD-PU8-BK | Medium | 810090088273 | 10810090088270 |
| BLSH-CRGD-PU9-BK | Large | 810090088280 | 10810090088287 |

MG342D Latex Coated Gloves



Product Specification

| | |
|------------------|--------------|
| Liner | HPPE |
| Liner Colour | Grey Melange |
| Coating | Latex |
| Coating Colour | Black |
| Coating Finish | Crinkle |
| Coating Coverage | Palm Coated |
| Cuff Style | Knit Wrist |
| Size | S-XL |

Performance Score

| | |
|--------------|---|
| EN388 | |
| Abrasion | 4 |
| Cut (Coupe) | X |
| Tear | 4 |
| Puncture | 4 |
| Cut (TDM) | D |

Packaging Information

| |
|---------------------|
| 12 Pairs / Poly Bag |
| 120 Pairs / Carton |

| Product SKU | Size | Inner pack UPC | Carton GTIN |
|------------------|--------|----------------|----------------|
| BLSH-CRGC-LX8-GY | Medium | 810188144492 | 00810188144508 |
| BLSH-CRGC-LX9-GY | Large | 810188144515 | 00810188144522 |

MG393E PU Coated Gloves



Product Specification

| | |
|------------------|-------------------------------------|
| Liner | HPPE/Steel/Basalt/Polyester/Spandex |
| Liner Colour | Grey Melange |
| Coating | PU |
| Coating Colour | Grey |
| Coating Finish | Flat |
| Coating Coverage | Palm Coated |
| Cuff Style | Knit Wrist |
| Size | S-XL |

Performance Score

| | |
|--------------|---|
| EN388 | |
| Abrasion | 4 |
| Cut (Coupe) | X |
| Tear | 4 |
| Puncture | 3 |
| Cut (TDM) | E |

Packaging Information

| |
|--------------------|
| 12 Pairs / Polybag |
| 144 Pairs / Carton |

| Product SKU | Size | Inner pack UPC | Carton GTIN |
|------------------|--------|----------------|----------------|
| BLSH-CRGE-PU8-GY | Medium | 810090088297 | 10810090088294 |
| BLSH-CRGE-PU9-GY | Large | 810090088303 | 10810090088300 |

MG393F PU Coated Gloves



Product Specification

| | |
|------------------|-------------------------------------|
| Liner | HPPE/Steel/Basalt/Polyester/Spandex |
| Liner Colour | Black |
| Coating | PU |
| Coating Colour | Black |
| Coating Finish | Flat |
| Coating Coverage | Palm Coated |
| Cuff Style | Knit Wrist |
| Size | S-XL |

Performance Score

| | |
|--------------|---|
| EN388 | |
| Abrasion | 4 |
| Cut (Coupe) | X |
| Tear | 4 |
| Puncture | 3 |
| Cut (TDM) | F |

Packaging Information

| |
|--------------------|
| 12 Pairs / Polybag |
| 144 Pairs / Carton |

| Product SKU | Size | Inner pack UPC | Carton GTIN |
|------------------|--------|----------------|----------------|
| BLSH-CRGF-PU8-BK | Medium | 810090088310 | 10810090088317 |
| BLSH-CRGF-PU9-BK | Large | 810090088327 | 10810090088324 |

UltiTuff™

Heavy Duty Gloves

EN388:2016



IG3431

TPR Patch

Nitrile Double Coated
(Sandy Finish)

HPPE Liner

IMPACT RESISTANT GLOVES

Product Specification

| | |
|------------------|-------------|
| Liner | HPPE |
| Liner Colour | Melange |
| Coating | Nitrile |
| Coating Colour | Red |
| Coating Finish | Sandy |
| TPR Patch | Yes |
| Thumb Crotch | Yes |
| Coating Coverage | Palm Coated |
| Cuff Style | Knit Wrist |
| Size | L - XL |

Performance Score

| | |
|--------------|---|
| EN388 | |
| Abrasion | 4 |
| Cut (Coupe) | X |
| Tear | 4 |
| Puncture | 3 |
| Cut (TDM) | C |
| Impact | P |



Also Available with
Velcro & Vibration patch

Packaging Information

12 Pairs / Poly Bag
120 Pairs / Carton

| Product SKU | Size | Inner pack UPC | Carton GTIN |
|--------------|-------|----------------|----------------|
| BLSH-IGN-WR9 | Large | 810148537289 | 00810148537296 |

CG3241A

Double Dipped Nitrile Gloves with Nylon Liner



Product Specification

| | |
|-----------------|---------------------|
| Material | Nitrile |
| Colour | Red & Black |
| Interior Finish | Nylon Liner |
| Exterior Finish | Nitrile Foam Finish |
| Cuff Style | Straight |
| Size | S-XL |

Packaging Information

| |
|-------------------|
| 1 Pair / Polybag |
| 72 Pairs / Carton |

| Product SKU | Size | Inner pack UPC | Carton GTIN |
|---------------------|-------------|----------------|----------------|
| BLSH-MS-DD-S7-BKR | Small | 810148534790 | 00810148534806 |
| BLSH-MS-DD-M8-BKR | Medium | 810090088136 | 10810090088133 |
| BLSH-MS-DD-L9-BKR | Large | 810090088143 | 10810090088140 |
| BLSH-MS-DD-XL10-BKR | Extra Large | 810148534844 | 00810148534837 |

Performance Score

| EN ISO 374-1 | |
|--------------|------------------------|
| Code | Chemical |
| J | Heptane |
| K | Sodium Hydroxide 40% |
| L | Sulfuric Acid 96% |
| M | Nitric Acid 65% |
| N | Acetic Acid 99% |
| O | Ammonium Hydroxide 25% |

| EN388 | |
|-------------|---|
| Abrasion | 4 |
| Cut (Coupe) | 1 |
| Tear | 4 |
| Puncture | 2 |
| Cut (TDM) | A |

| EN407 | |
|--------------------------------|---|
| Limited flame spread | X |
| Contact heat | 2 |
| Convective heat | X |
| Radiant heat | X |
| Small splashes of molten metal | X |
| Large splashes of molten metal | X |

CG3622A

Blended Neoprene Flocklined Gloves



Product Specification

| | |
|-----------------|------------------|
| Material | Blended Neoprene |
| Colour | Blue & Yellow |
| Interior Finish | Flocklined |
| Grip Pattern | Raised Diamond |
| Cuff Style | Straight |
| Size | S-XL |

Packaging Information

| |
|--------------------|
| 3 Pairs / Poly Bag |
| 144 Pairs / Carton |

| Product SKU | Size | Inner pack UPC | Carton GTIN |
|---------------------|-------------|----------------|----------------|
| BLSH-MS-BN-S7-YBL | Small | 810148534905 | 00810148534899 |
| BLSH-MS-BN-M8-YBL | Medium | 810090088174 | 10810090088171 |
| BLSH-MS-BN-L9-YBL | Large | 810090088181 | 10810090088188 |
| BLSH-MS-BN-XL10-YBL | Extra Large | 810148534929 | 00810148534912 |

Performance Score

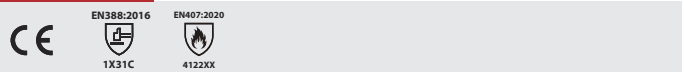
| EN ISO 374-1 | |
|--------------|------------------------|
| Code | Chemical |
| A | Methanol |
| K | Sodium Hydroxide 40% |
| L | Sulfuric Acid 96% |
| M | Nitric Acid 65% |
| N | Acetic Acid 99% |
| O | Ammonium Hydroxide 25% |

| EN388 | |
|-------------|---|
| Abrasion | 2 |
| Cut (Coupe) | 1 |
| Tear | 2 |
| Puncture | 0 |
| Cut (TDM) | X |

Cut & Heat Resistant Gloves

TG10C1

Para-aramid Gloves



Product Specification

| | |
|--------------|------------------|
| Liner | 100% Para-aramid |
| Liner Colour | Yellow |
| Cuff Style | Knit Wrist |
| Size | S/7 - XXL/11 |

Performance Score

| EN388 | |
|-------------|---|
| Abrasion | 1 |
| Cut (Coupe) | X |
| Tear | 3 |
| Puncture | 1 |
| Cut (TDM) | C |

EN407

| | |
|--------------------------------|---|
| Limited flame spread | 4 |
| Contact heat | 1 |
| Convective heat | 2 |
| Radiant heat | 2 |
| Small splashes of molten metal | X |
| Large splashes of molten metal | X |



Packaging Information

| |
|--------------------|
| 12 Pairs / Polybag |
| 120 Pairs / Carton |



| Product SKU | Size | Inner pack UPC | Carton GTIN |
|------------------|--------------|----------------|----------------|
| BLSH-S-TG-Y-12 | Small | 810148535377 | 00810148535476 |
| BLSH-M-TG-Y-12 | Medium | 810148535384 | 00810148535483 |
| BLSH-L-TG-Y-12 | Large | 810148535391 | 00810148535490 |
| BLSH-XL-TG-Y-12 | Extra Large | 810148535407 | 00810148535506 |
| BLSH-XXL-TG-Y-12 | 2Extra Large | 810148535414 | 00810148535513 |

PROTECTIVE
CLOTHING



Disposable Chemical Protective Clothing

A Critical Aspect of Workplace Safety

ChemiGuard™ range of disposable chemical protective clothing is designed for single-use protection against hazardous chemicals and substances. It plays a crucial role in maintaining workplace safety by offering a practical and effective barrier to prevent chemical exposure. Here's an overview of why disposable chemical protective clothing is vital for safety and how it contributes to a safer working environment.

Why Disposable Chemical Protective Clothing Matters?

● Effective Barrier Against Chemicals

Single-Use Protection: Disposable clothing provides a protective barrier that prevents direct contact with hazardous chemicals, reducing the risk of chemical burns, irritation, or other injuries.

Material Suitability: Made from specialized materials like Non-woven, multi-layer non-woven, SMS, MSSM, polyethylene, or laminated fabrics that are resistant to a wide range of chemicals, ensuring reliable protection.

● Hygiene and Contamination Control

Prevents Cross-Contamination: Disposable clothing helps prevent the spread of contaminants from one area to another, maintaining a clean and controlled work environment.

Reduced Cleaning Needs: Eliminates the need for laundering, which can be time-consuming and may not always remove chemical residues completely.

● Cost-Effective Solution

Affordability: Generally less expensive than reusable options when considering the cost of laundering and maintenance. Ideal for tasks involving temporary or low-duration exposure to chemicals.

Convenience: Offers a practical solution for tasks where frequent changes of protective clothing are necessary or where cleaning and maintenance would be impractical.

● Compliance with Safety Regulations

Standards Compliance: Designed to meet specific safety standards, such as those outlined in EN 13034 (Europe) or ASTM standards (US), ensuring that they provide adequate protection.

Regulatory Requirements: Helps comply with workplace safety regulations that mandate the use of appropriate personal protective equipment (PPE) when handling hazardous chemicals.

Types of Chemical Protective Clothing: 3, 4, 5, and 6

Chemical protective clothing is classified into different types based on its level of protection against various chemical hazards. These types are defined by European standards and address different scenarios of chemical exposure. Here's an overview of each type:

● Type 3: Liquid-tight Protective Clothing

Description: Provides full-body protection against liquid chemicals under pressure.

Protection Level: Ensures that no liquid chemicals penetrate through the fabric, even when exposed to chemicals under pressure.

Features: Includes full-body suits that are tested for liquid-tightness, often including features like hoods, elastic cuffs, and sealed seams.

Applications: Suitable for use in environments where chemicals are handled under pressure, such as in chemical manufacturing or processing.

Standards:

EN 943-1: Specifies requirements for clothing offering protection against chemical and biological hazards, including Type 3 clothing.

● Type 4: Spray-tight Protective Clothing

Description: Provides protection against chemical sprays and splashes.

Protection Level: Designed to prevent the penetration of chemical sprays and droplets, ensuring that workers are protected from exposure.

Features: Typically includes garments that resist spray penetration and are often used with additional protective equipment.

Applications: Ideal for environments where workers are exposed to chemicals in spray form, such as in agricultural applications or during chemical cleaning operations.

Standards:

EN 14605: Details the requirements for protective clothing against liquid chemicals and chemical sprays, including Type 4 clothing.

● Type 5: Particle-tight Protective Clothing

Description: Provides protection against airborne solid particles, such as dust and particulates.

Protection Level: Designed to prevent the ingress of solid particles, offering protection against dust and other airborne contaminants.

Features: Includes suits that are tested for resistance to particulate penetration, providing a barrier against hazardous dust.

Applications: Suitable for use in environments with high levels of dust or where airborne particles may pose a risk, such as in construction or pharmaceutical manufacturing.

Standards:

EN 13982-1: Specifies requirements for protective clothing against airborne solid particles, including Type 5 clothing.

- **Type 6: Limited Splash Protective Clothing**

Description: Offers protection against small amounts of liquid chemicals and limited splash exposure.

Protection Level: Provides a barrier against occasional chemical splashes and minor spills, though it does not offer the same level of protection as Type 3 or Type 4 clothing.

Features: Designed for limited exposure scenarios, often including garments that prevent the penetration of small amounts of chemicals.

Applications: Suitable for tasks where occasional splashes or spills of chemicals are expected, such as in laboratory work or during minor chemical handling tasks.

Standards:

EN 13034: Specifies requirements for protective clothing against limited amounts of liquid chemicals, including Type 6 clothing.

Summary of Protection Levels

Type 3: Liquid-tight protection against chemicals under pressure.

Type 4: Spray-tight protection against chemical sprays and droplets.

Type 5: Particle-tight protection against solid particles and dust.

Type 6: Limited splash protection against small amounts of liquid chemicals.

Selecting & Using Chemical Protective Clothing

- **Assess the Chemical Hazard**

Identify Exposure: Determine the type of chemical exposure (liquid, spray, particles, or splash) and select the appropriate protective clothing type.

- **Ensure Compliance with Standards**

Verify Certification: Check that the clothing meets the relevant European standards for the specific type of chemical protection.

- **Proper Use and Maintenance**

Follow Guidelines: Use protective clothing according to manufacturer instructions to ensure effective protection.

Disposal: Dispose of disposable clothing according to safety and environmental regulations





Basic Range

100% Cotton or Cotton blend fabric workwear.



Hi-Viz

100% Cotton or Cotton blend fabric workwear with high quality reflective tape for high visibility application.



IFR

Meta Aramid + Para Aramid + Antistatic Blend fabric workwear for fire retardant application.

Suit & Coverall options available.

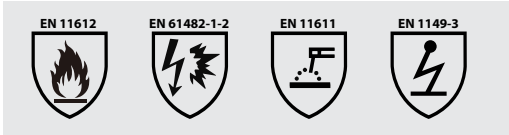
FR

Modacrylic + Cotton + Anti-static Blend fabric workwear for fire retardant application.

Suit & Coverall options available.

*All Of The Above Products Come With Full Customization Options.

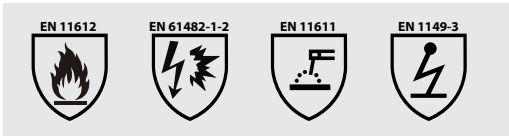
8 / 12 Cal Arc Flash Coverall



| Product SKU | Colour | Packaging information |
|-----------------|-----------|-----------------------|
| BLSH-SA-AFC-8C | Navy Blue | 1 Set / Kit |
| BLSH-SA-AFC-12C | Navy Blue | 1 Set / Kit |

*Available FR & IFR Material

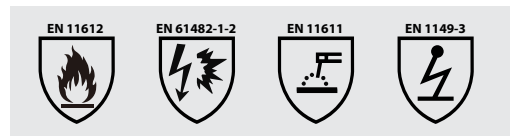
8 / 12 Cal Arc Flash Suit



| Product SKU | Colour | Packaging information |
|-----------------|-----------|-----------------------|
| BLSH-SA-AFS-8C | Navy Blue | 1 Set / Kit |
| BLSH-SA-AFS-12C | Navy Blue | 1 Set / Kit |

*Available FR & IFR Material

25 / 33 / 40 Cal Arc Flash Coverall



| Product SKU | Colour | Packaging information |
|-----------------|-----------|-----------------------|
| BLSH-SA-AFC-25C | Navy Blue | 1 Set / Kit |
| BLSH-SA-AFC-33C | Navy Blue | 1 Set / Kit |
| BLSH-SA-AFC-40C | Navy Blue | 1 Set / Kit |

*Available FR & IFR Material

25 / 33 / 40 Cal Arc Flash Suit



| Product SKU | Colour | Packaging information |
|-----------------|-----------|-----------------------|
| BLSH-SA-AFS-25C | Navy Blue | 1 Set / Kit |
| BLSH-SA-AFS-33C | Navy Blue | 1 Set / Kit |
| BLSH-SA-AFS-40C | Navy Blue | 1 Set / Kit |

*Available FR & IFR Material

SPILL CONTROL SOLUTIONS



SpillProtec[®]

Spill Protection in Workplace Safety

Spills of hazardous substances in the workplace can pose significant risks to health, safety, and the environment. Proper spill protection measures are essential to prevent accidents, reduce health hazards, and ensure compliance with safety regulations. SpillProtec® range of offers complete spill protection and helps to implement effective spill management in the workplace.

Importance of Spill Protection

● Health and Safety

Preventing Injuries: Spills, especially of slippery or hazardous substances, can lead to slips, trips, and falls, resulting in injuries.

Reducing Exposure: Hazardous chemical spills can cause respiratory problems, skin irritation, and other health issues. Proper spill protection helps minimize exposure and health risks.

● Environmental Protection

Avoiding Contamination: Chemical spills can contaminate soil, water sources, and ecosystems. Effective spill protection helps prevent environmental contamination.

Regulatory Compliance: Organizations must adhere to environmental regulations regarding the handling and disposal of hazardous substances. Proper spill management ensures compliance with these regulations.

● Financial Impact

Minimizing Costs: Spills can lead to costly cleanups, fines, and lawsuits. Preventing spills and managing them effectively can reduce these financial burdens.

Protecting Assets: Spills can damage equipment, property, and products. Spill protection measures help protect valuable assets from damage.

Strategies for Effective Spill Protection

● Spill Prevention

Proper Storage: Store hazardous substances in appropriate, labelled containers with secure lids. Use secondary containment systems to prevent leaks.

Training & Awareness: Train employees on proper handling and storage of hazardous materials. Raise awareness about the risks and prevention strategies.

● Spill Control Measures

Spill Containment: Use spill containment equipment such as trays, berms, and absorbent pads to confine spills and prevent them from spreading.

Spill Kits: Equip work areas with spill kits containing absorbent materials, neutralizers, and protective gear. Ensure kits are easily accessible and regularly inspected.

● Spill Response Plan

Emergency Procedures: Develop and implement a spill response plan outlining steps to take in the event of a spill. Ensure employees are familiar with the plan.

Personal Protective Equipment (PPE): Provide appropriate PPE, such as gloves, goggles, and respirators, for employees involved in spill cleanup.

● Proper Cleanup and Disposal

Cleanup Protocols: Establish protocols for cleaning up different types of spills. Use appropriate absorbents, neutralizers, and cleaning agents.

Waste Disposal: Dispose of contaminated materials and waste according to regulatory guidelines. Use designated containers for hazardous waste.



Types of Spill Protection Equipment

● Absorbents

Description: Materials that soak up liquids, preventing them from spreading.

Examples: Absorbent pads, socks, and granules for oil, chemicals, and other liquids.

● Spill Containment Pallets & Workstations

Description: Devices that contain spills and prevent them from spreading.

Examples: Spill pallets & workstations, IBC pallet

● Spill Kits

Description: Pre-packaged kits containing various spill response tools.

Examples: Universal spill kits, oil-only spill kits, and chemical spill kits.

Benefits of Spill Protection

● Enhanced Safety

Risk Reduction: Minimizes the risk of accidents, injuries, and health issues related to hazardous spills.

Preparedness: Ensures that employees are prepared to respond quickly and effectively to spills.

● Environmental Stewardship

Pollution Prevention: Prevents contamination of soil, water, and air, protecting the environment.

Sustainable Practices: Supports sustainability initiatives by reducing the environmental impact of spills.

● Regulatory Compliance

Legal Adherence: Ensures compliance with health, safety, and environmental regulations.

Avoiding Penalties: Helps avoid fines, sanctions, and legal action due to non-compliance.

● Cost Savings

Reduced Cleanup Costs: Effective spill management reduces the costs associated with spill cleanup and remediation.

Asset Protection: Protects equipment, property, and products from damage, preserving their value.

ASTM F726

ASTM F726 is a standard developed by ASTM International (formerly known as the American Society for Testing and Materials) that specifies the test methods for determining the sorbent performance of absorbent materials used to clean up oil spills.

Here's a brief overview:

● Purpose:

The standard is used to evaluate the efficiency and effectiveness of sorbent materials in absorbing oil and other petroleum-based liquids. It provides guidelines on how to measure the absorption capacity and retention of the sorbents.

● Test Methods:

ASTM F726 outlines procedures for testing sorbent materials, including:

Sorbent Capacity Test: Measures the amount of liquid a sorbent can absorb per unit mass or volume.

Retention Test: Assesses the amount of liquid retained by the sorbent after a specific period under certain conditions.

Rate of Absorption: Evaluates how quickly the sorbent absorbs the liquid.

Regulations and Compliance:

● 40 CFR 264.175:

Hazardous waste containment systems must be free of structural cracks or gaps, be designed to keep spilled liquids from remaining in contact with the container, prevent run-on and "have sufficient capacity to contain 10% of the volume of the containers, or the volume of the largest container, whichever is greater.

● 40 CFR 122.26:

When applying for a National Pollutant Discharge Elimination System (NPDES) permit, facilities must have a plan in place that describes actions, procedures, control techniques, management practices and equipment available to prevent illegal discharge of pollutants into waterways.

● 40 CFR 112.7:

SPCC planning requirements state that facilities subject to these regulations must have written plans in place discussing the products, countermeasures and procedures that are in place, or will be taken by the facility to prevent discharge of oil into waters of the United States.



OASK15



SpillProtec Oil absorbent Kit are designed to absorb oil and oil-based liquids only that are dripped, leaked & spilled (Absorb capacity - 15 Liters).

Product Information

| | |
|-----------------------------------|--------|
| Oil Absorbent pads 40 x 50cm, 2mm | 15 Pcs |
| Oil Absorbent Socks ø7.6cm x 1.2M | 1 Pc |
| Disposable Bag & Tie | 1 Set |
| Pen | 1 Pc |
| Instruction Guide | 1 Pc |
| Chemical Compatibility Guide | 1 Pc |
| Spill Kit Bag | 1 Pc |

Packaging Information

| |
|-----------------|
| 1 Kit / Bag |
| 6 Kits / Carton |

| Product SKU | Inner pack UPC | Carton GTIN |
|----------------|----------------|----------------|
| BLSH-OAK-15L-W | 810090089164 | 00810090089164 |

OASK20



SpillProtec Oil absorbent Kit are designed to absorb oil and oil-based liquids only that are dripped, leaked & spilled (Absorb capacity - 20 Liters).

Product Information

| | |
|-----------------------------------|--------|
| Oil Absorbent pads 40 x 50cm, 2mm | 20 Pcs |
| Oil Absorbent Socks ø7.6cm x 1.2M | 2 Pcs |
| Disposable Bag & Tie | 1 Set |
| 15 Mil Nitrile Flocklined Gloves | 1 Pair |
| Dust Pan and Wiper Set | 1 Pc |
| Emergency Eyewash Bottle | 1 Pc |
| Disposable Respirator OV/AG | 1 Pc |
| Pen with Checklist | 1 Pc |
| Instruction Guide | 1 Pc |
| Chemical Compatibility Guide | 1 Pc |
| Spill Kit Bag | 1 Pc |

Packaging Information

| |
|-----------------|
| 1 Kit / Bag |
| 4 Kits / Carton |

| Product SKU | Inner pack UPC | Carton GTIN |
|----------------|----------------|----------------|
| BLSH-OAK-20L-W | 810090089171 | 00810090089171 |

OASK30



SpillProtec Oil absorbent Kit are designed to absorb oil and oil-based liquids only that are dripped, leaked & spilled (Absorb capacity - 30 Liters).

Product Information

| | |
|--|--------|
| Oil Absorbent Pads 40 x 50cm, 2mm | 20 Pcs |
| Oil Absorbent Socks ø7.6cm x 1.2M | 2 Pcs |
| Oil Absorbent Pillow 20 x 25cm | 2 Pcs |
| Disposable Bags & Ties | 2 Sets |
| 15 Mil Nitrile Flocklined Gloves | 1 Pair |
| Safety Goggles | 1 Pc |
| Dust Pan and Wiper Set | 1 Pc |
| Emergency Eyewash Bottle | 1 Pc |
| Disposable Respirator OV/AG | 1 Pc |
| Coverall Jet-Pro 4000 (Type 3,4,5 & 6) | 1 Pc |
| Chemical Resistant Shoe Cover | 1 Pair |
| Yellow Caution Tape Roll | 1 Pc |
| Pen with Checklist | 1 Pc |
| Instruction Guide | 1 Pc |
| Chemical Compatibility Guide | 1 Pc |
| Spill Kit Bag | 1 Pc |

Packaging Information

| |
|-----------------|
| 1 Kit / Bag |
| 3 Kits / Carton |

| Product SKU | Inner pack UPC | Carton GTIN |
|----------------|----------------|----------------|
| BLSH-OAK-30L-W | 810090089188 | 00810090089188 |

OASK50



SpillProtec Oil absorbent Kit are designed to absorb oil and oil-based liquids only that are dripped, leaked & spilled (Absorb capacity - 50 Liters).

Product Information

| | |
|--|--------|
| Oil Absorbent Pads 40 x 50cm, 2mm | 45 Pcs |
| Oil Absorbent Socks ø7.6cm x 1.2M | 3 Pcs |
| Oil Absorbent Pillow 20 x 25cm | 5 Pcs |
| Disposable Bags & Ties | 3 Sets |
| 15 Mil Nitrile Flocklined Gloves | 1 Pair |
| Safety Goggle | 1 Pc |
| Dust Pan and Wiper Set | 1 Pc |
| Emergency Eyewash Bottle | 1 Pc |
| Reusable Half Face Respirator with OV/AG Cartridge | 1 Pc |
| Coverall Jet-Pro 4000 (Type 3,4,5 & 6) | 1 Pc |
| Chemical Resistant Shoe Cover | |
| Yellow Caution Tape Roll | |
| Pen with Checklist | |
| Instruction Guide | |
| Chemical Compatibility Guide | |
| Spill Kit Bag | |

Packaging Information

| |
|-----------------|
| 1 Kit / Bag |
| 2 Kits / Carton |

| Product SKU | Inner pack UPC | Carton GTIN |
|----------------|----------------|----------------|
| BLSH-OAK-50L-W | 810090089195 | 00810090089195 |

OASK100

SpillProtec Oil absorbent Kit are designed to absorb oil and oil-based liquids only that are dripped, leaked & spilled (Absorb capacity - 100 Liters).

Product Information

| | |
|-----------------------------------|---------|
| Oil Absorbent Pads 40 x 50cm, 2mm | 100 Pcs |
| Oil Absorbent Socks φ7.6cm x 1.2M | 8 Pcs |
| Disposable Bags & Ties | 3 Sets |
| 15Mil Nitrile Flocklined Gloves | 2 Pairs |
| Safety Goggle | 1 Pc |
| Respirator (H300+GF201) | 1 Set |
| Chemical Coverall (Jet-Pro 4000) | 1 Pc |
| Chemical Shoe Cover | 1 Pair |
| Pen | 1 Pc |
| Instruction Guide | 1 Pc |
| Chemical Compatibility Guide | 1 Pc |
| 100L Wheelie Bin | 1 Pc |
| Dust Pan with Wiper | 1 Pc |
| Caution Floor Sign Board | 1 Pc |
| Yellow Caution Tape | 1 Pc |
| Eye Wash Bottle | 1 Pc |

Packaging Information

| |
|----------------|
| 1 Kit / Bin |
| 1 Kit / Carton |



| Product SKU | Inner pack UPC | Carton GTIN |
|-----------------|----------------|----------------|
| BLSH-OAK-100L-W | 810090089201 | 00810090089201 |

UASK240

SpillProtec Oil absorbent Kit are designed to absorb oil and oil-based liquids only that are dripped, leaked & spilled (Absorb capacity - 240 Liters).

Product Information

| | |
|-------------------------------------|---------|
| Oil Absorbent Pads 40 x 50cm, 2mm | 100 Pcs |
| Oil Absorbent Socks φ7.6cm x 1.2M | 16 Pcs |
| Oil Absorbent Pillow 40 x 50cm, 2mm | 8 Pcs |
| Disposable Bags & Ties | 15 sets |
| 15Mil Nitrile Flocklined Gloves | 4 Pairs |
| Safety Goggle | 4 Pcs |
| Respirator (H300+GF201) | 1Set |
| Chemical Coverall (Jet-Pro 4000) | 1 Pc |
| Chemical Shoe Cover | 1 Pair |
| Pen | 1 Pc |
| Instruction Guide | 1 Pc |
| Chemical Compatibility Guide | 1 Pc |
| 240L Plastic Wheelie Bin | 1 Pc |
| Dust Pan with Wiper | 1 Pc |
| Caution Floor Sign Board | 1 Pc |
| Yellow Caution Tape | 1 Pc |
| Eye Wash Bottle | 1 Pc |

Packaging Information

| |
|----------------|
| 1 Kit / Bin |
| 1 Kit / Carton |



| Product SKU | Inner pack UPC | Carton GTIN |
|-----------------|----------------|----------------|
| BLSH-OAK-100L-W | 810090089201 | 00810090089201 |

CASK15



SpillProtec Chemical absorbent Kit are designed to absorb acids, bases, unknown liquids that are dripped, leaked & spilled (Absorb capacity - 15 Liters).

Product Information

| | |
|--|--------|
| Chemical Absorbent pads 40 x 50cm, 2mm | 15 Pcs |
| Chemical Absorbent Socks ϕ 7.6cm x 1.2M | 1 Pc |
| Disposable Bag & Tie | 1 Set |
| Pen | 1 Pc |
| Instruction Guide | 1 Pc |
| Chemical Compatibility Guide | 1 Pc |
| Spill Kit Bag | 1 Pc |

Packaging Information

| |
|-----------------|
| 1 Kit / Bag |
| 6 Kits / Carton |

| Product SKU | Inner pack UPC | Carton GTIN |
|-----------------|----------------|----------------|
| BLSH-CHAK-15L-Y | 810090089225 | 00810090089225 |

CASK20



SpillProtec Chemical absorbent Kit are designed to absorb acids, bases, unknown liquids that are dripped, leaked & spilled (Absorb capacity - 20 Liters).

Product Information

| | |
|--|--------|
| Chemical Absorbent pads 40 x 50cm, 2mm | 20 Pcs |
| Chemical Absorbent Socks ϕ 7.6cm x 1.2M | 2 Pcs |
| Disposable Bag & Tie | 1 Set |
| 15 Mil Nitrile Flocklined Gloves | 1 Pair |
| Safety Goggles | 1 Pc |
| Dust Pan and Wiper Set | 1 Pc |
| Emergency Eyewash Bottle | 1 Pc |
| Disposable Respirator OV/AG | 1 Pc |
| Pen with Checklist | 1 Pc |
| Instruction Guide | 1 Pc |
| Chemical Compatibility Guide | 1 Pc |
| Spill Kit Bag | 1 Pc |

Packaging Information

| |
|-----------------|
| 1 Kit / Bag |
| 4 Kits / Carton |

| Product SKU | Inner pack UPC | Carton GTIN |
|-----------------|----------------|----------------|
| BLSH-CHAK-20L-Y | 810090089232 | 00810090089232 |

CASK30



SpillProtec Chemical absorbent Kit are designed to absorb acids, bases, unknown liquids that are dripped, leaked & spilled (Absorb capacity - 30Liters).

Product Information

| | |
|--|--------|
| Chemical Absorbent Pads 40 x 50cm, 2mm | 20 Pcs |
| Chemical Absorbent Socks ϕ 7.6cm x 1.2M | 2 Pcs |
| Chemical Absorbent Pillow 20 x 25cm | 2 Pcs |
| Disposable Bags & Ties | 2 Sets |
| 15 Mil Nitrile Flocklined Gloves | 1 Pair |
| Safety Goggles | 1 Pc |
| Dust Pan and Wiper Set | 1 Pc |
| Emergency Eyewash Bottle | 1 Pc |
| Disposable Respirator OV/AG | 1 Pc |
| Coverall Jet-Pro 4000 (Type 3,4,5 & 6) | 1 Pc |
| Chemical Resistant Shoe Cover | 1 Pair |
| Yellow Caution Tape Roll | 1 Pc |
| Pen with Checklist | 1 Pc |
| Instruction Guide | 1 Pc |
| Chemical Compatibility Guide | 1 Pc |
| Spill Kit Bag | 1 Pc |

Packaging Information

| |
|-----------------|
| 1 Kit / Bag |
| 3 Kits / Carton |

| Product SKU | Inner pack UPC | Carton GTIN |
|-----------------|----------------|----------------|
| BLSH-CHAK-30L-Y | 810090089249 | 00810090089249 |

CASK50



SpillProtec Chemical absorbent Kit are designed to absorb acids, bases, unknown liquids that are dripped, leaked & spilled (Absorb capacity - 50 Liters).

Product Information

| | |
|--|--------|
| Chemical Absorbent Pads 40 x 50cm, 2mm | 45 Pcs |
| Chemical Absorbent Socks ϕ 7.6cm x 1.2M | 3 Pcs |
| Chemical Absorbent Pillow 20 x 25cm | 5 Pcs |
| Disposable Bags & Ties | 3 Sets |
| 15 Mil Nitrile Flocklined Gloves | 1 Pair |
| Safety Goggle | 1 Pc |
| Dust Pan and Wiper Set | 1 Pc |
| Emergency Eyewash Bottle | 1 Pc |
| Reusable Half Face Respirator with OV/AG Cartridge | 1 Set |
| Coverall Jet-Pro 4000 (Type 3,4,5 & 6) | 1 Pc |
| Chemical Resistant Shoe Cover | 1 Pair |
| Yellow Caution Tape Roll | 1 Pc |
| Pen with Checklist | 1 Pc |
| Instruction Guide | 1 Pc |
| Chemical Compatibility Guide | 1 Pc |
| Spill Kit Bag | 1 Pc |

Packaging Information

| |
|-----------------|
| 1 Kit / Bag |
| 2 Kits / Carton |

| Product SKU | Inner pack UPC | Carton GTIN |
|-----------------|----------------|----------------|
| BLSH-CHAK-50L-Y | 810090089256 | 00810090089256 |

CASK100

SpillProtec Chemical absorbent Kit are designed to absorb acids, bases, unknown liquids that are dripped, leaked & spilled (Absorb capacity - 100 Liters).

Product Information

| | |
|--|---------|
| Chemical Absorbent Pads 40 x 50cm, 2mm | 100 Pcs |
| Chemical Absorbent Socks ϕ 7.6cm x 1.2M | 8 Pcs |
| Disposable Bags & Ties | 3 Sets |
| 15Mil Nitrile Flocklined Gloves | 2 Pairs |
| Safety Goggle | 1 Pcs |
| Respirator (H300+GF201) | 1 Set |
| Chemical Coverall (Jet-Pro 4000) | 1 Pcs |
| Chemical Shoe Cover | 1 Pair |
| Pen | 1 Pcs |
| Instruction Guide | 1 Pcs |
| Chemical Compatibility Guide | 1 Pcs |
| 100L Wheelie Bin | 1 Pcs |
| Dust Pan with Wiper | 1 Pcs |
| Caution Floor Sign Board | 1 Pcs |
| Yellow Caution Tape | 1 Pcs |
| Eye Wash Bottle | 1 Pcs |

Packaging Information

| |
|----------------|
| 1 Kit / Bin |
| 1 Kit / Carton |



| Product SKU | Inner pack UPC | Carton GTIN |
|------------------|----------------|----------------|
| BLSH-CHAK-100L-Y | 810090089263 | 00810090089263 |

CASK240

SpillProtec Chemical absorbent Kit are designed to absorb acids, bases, unknown liquids that are dripped, leaked & spilled (Absorb capacity - 240 Liters).

Product Information

| | |
|--|---------|
| Chemical Absorbent Pads 40 x 50cm, 2mm | 100 Pcs |
| Chemical Absorbent Socks ϕ 7.6cm x 1.2M | 16 Pcs |
| Chemical Absorbent Pillow 40 x 50cm | 8 Pcs |
| Disposable Bags & Ties | 15 sets |
| 15Mil Nitrile Flocklined Gloves | 4 Pairs |
| Safety Goggle | 4 Pcs |
| Respirator (H300+GF201) | 1 Set |
| Chemical Coverall (Jet-Pro 4000) | 1 Pcs |
| Chemical Shoe Cover | 1 Pair |
| Pen | 1 Pcs |
| Instruction Guide | 1 Pcs |
| Chemical Compatibility Guide | 1 Pcs |
| 240L Plastic Wheelie Bin | 1 Pcs |
| Dust Pan with Wiper | 1 Pcs |
| Caution Floor Sign Board | 1 Pcs |
| Yellow Caution Tape | 1 Pcs |
| Eye Wash Bottle | 1 Pcs |

Packaging Information

| |
|----------------|
| 1 Kit / Bin |
| 1 Kit / Carton |



| Product SKU | Inner pack UPC | Carton GTIN |
|------------------|----------------|----------------|
| BLSH-CHAK-240L-Y | 810090089270 | 00810090089270 |

UASK15



SpillProtec Universal absorbent Kit are designed to absorb oils, coolants, solvents & water that are dripped, leaked & spilled (Absorb capacity - 15 Liters).

Product Information

| | |
|---|--------|
| Universal Absorbent pads 40 x 50cm, 2mm | 15 Pcs |
| Universal Absorbent Socks φ7.6cm x 1.2M | 1 Pc |
| Disposable Bag & Tie | 1 Set |
| Pen | 1 Pc |
| Instruction Guide | 1 Pc |
| Chemical Compatibility Guide | 1 Pc |
| Spill Kit Bag | 1 Pc |

Packaging Information

| |
|-----------------|
| 1 Kit / Bag |
| 6 Kits / Carton |

| Product SKU | Inner pack UPC | Carton GTIN |
|-----------------|----------------|----------------|
| BLSH-UAK-15L-GY | 810090089287 | 00810090089287 |

UASK20



SpillProtec Universal absorbent Kit are designed to absorb oils, coolants, solvents & water that are dripped, leaked & spilled (Absorb capacity - 20 Liters).

Product Information

| | |
|---|--------|
| Universal Absorbent pads 40 x 50cm, 2mm | 20 Pcs |
| Universal Absorbent Socks φ7.6cm x 1.2M | 2 Pcs |
| Disposable Bag & Tie | 1 Set |
| 15 Mil Nitrile Flocklined Gloves | 1 Pair |
| Safety Goggles | 1 Pc |
| Dust Pan and Wiper Set | 1 Pc |
| Emergency Eyewash Bottle | 1 Pc |
| Disposable Respirator OV/AG | 1 Pc |
| Pen with Checklist | 1 Pc |
| Instruction Guide | 1 Pc |
| Universal Compatibility Guide | 1 Pc |
| Spill Kit Bag | 1 Pc |

Packaging Information

| |
|-----------------|
| 1 Kit / Bag |
| 4 Kits / Carton |

| Product SKU | Inner pack UPC | Carton GTIN |
|-----------------|----------------|----------------|
| BLSH-UAK-20L-GY | 810090089294 | 00810090089294 |

UASK30



SpillProtec Universal absorbent Kit are designed to absorb oils, coolants, solvents & water that are dripped, leaked & spilled (Absorb capacity - 30 Liters).

Product Information

| | |
|---|--------|
| Universal Absorbent Pads 40 x 50cm, 2mm | 20 Pcs |
| Universal Absorbent Socks φ7.6cm x 1.2M | 2 Pcs |
| Universal Absorbent Pillow 20 x 25cm | 2 Pcs |
| Disposable Bags & Ties | 2 Sets |
| 15 Mil Nitrile Flocklined Gloves | 1 Pair |
| Safety Goggles | 1 Pc |
| Dust Pan and Wiper Set | 1 Pc |
| Emergency Eyewash Bottle | 1 Pc |
| Disposable Respirator OV/AG | 1 Pc |
| Coverall Jet-Pro 4000 (Type 3,4,5 & 6) | 1 Pc |
| Chemical Resistant Shoe Cover | 1 Pair |
| Yellow Caution Tape Roll | 1 Pc |
| Pen with Checklist | 1 Pc |
| Instruction Guide | 1 Pc |
| Universal Compatibility Guide | 1 Pc |
| Spill Kit Bag | 1 Pc |

Packaging Information

| |
|-----------------|
| 1 Kit / Bag |
| 3 Kits / Carton |

| Product SKU | Inner pack UPC | Carton GTIN |
|-----------------|----------------|----------------|
| BLSH-UAK-30L-GY | 810090089300 | 00810090089300 |

UASK50



SpillProtec Universal absorbent Kit are designed to absorb oils, coolants, solvents & water that are dripped, leaked & spilled (Absorb capacity - 50 Liters).

Product Information

| | |
|--|--------|
| Universal Absorbent Pads 40 x 50cm, 2mm | 45 Pcs |
| Universal Absorbent Socks φ7.6cm x 1.2M | 3 Pcs |
| Universal Absorbent Pillow 20 x 25cm | 5 Pcs |
| Disposable Bags & Ties | 3 Sets |
| 15 Mil Nitrile Flocklined Gloves | 1 Pair |
| Safety Goggle | 1 Pc |
| Dust Pan and Wiper Set | 1 Pc |
| Emergency Eyewash Bottle | 1 Pc |
| Reusable Half Face Respirator with OV/AG Cartridge | 1 Set |
| Coverall Jet-Pro 4000 (Type 3,4,5 & 6) | 1 Pc |
| Chemical Resistant Shoe Cover | 1 Pair |
| Yellow Caution Tape Roll | 1 Pc |
| Pen with Checklist | 1 Pc |
| Instruction Guide | 1 Pc |
| Universal Compatibility Guide | 1 Pc |
| Spill Kit Bag | 1 Pc |

Packaging Information

| |
|-----------------|
| 1 Kit / Bag |
| 2 Kits / Carton |

| Product SKU | Inner pack UPC | Carton GTIN |
|-----------------|----------------|----------------|
| BLSH-UAK-50L-GY | 810090089317 | 00810090089317 |

UASK100

SpillProtec Universal absorbent Kit are designed to absorb oils, coolants, solvents & water that are dripped, leaked & spilled (Absorb capacity - 100 Liters).

Product Information

| | |
|---|---------|
| Universal Absorbent Pads 40 x 50cm, 2mm | 100 Pcs |
| Universal Absorbent Socks ϕ 7.6cm x 1.2M | 8 Pcs |
| Disposable Bags & Ties | 3 Sets |
| 15Mil Nitrile Flocklined Gloves | 2 Pairs |
| Safety Goggle | 1 Pc |
| Respirator (H300+GF201) | 1Set |
| Chemical Coverall (Jet-Pro 4000) | 1 Pc |
| Chemical Shoe Cover | 1 Pair |
| Pen | 1 Pc |
| Instruction Guide | 1 Pc |
| Chemical Compatibility Guide | 1 Pc |
| 100L Wheelie Bin | 1 Pc |
| Dust Pan with Wiper | 1 Pc |
| Caution Floor Sign Board | 1 Pc |
| Yellow Caution Tape | 1 Pc |
| Eye Wash Bottle | 1 Pc |

Packaging Information

| |
|----------------|
| 1 Kit / Bin |
| 1 Kit / Carton |



| Product SKU | Inner pack UPC | Carton GTIN |
|------------------|----------------|----------------|
| BLSH-UAK-100L-GY | 810090089324 | 00810090089324 |

UASK240

SpillProtec Universal absorbent Kit are designed to absorb oils, coolants, solvents & water that are dripped, leaked & spilled (Absorb capacity - 240 Liters).

Product Information

| | |
|---|---------|
| Universal Absorbent Pads 40 x 50cm, 2mm | 100 Pcs |
| Universal Absorbent Socks ϕ 7.6cm x 1.2M | 16 Pcs |
| Universal Absorbent Pillow 40 x 50cm, 2mm | 8 Pcs |
| Disposable Bags & Ties | 15 Sets |
| 15Mil Nitrile Flocklined Gloves | 4 Pairs |
| Safety Goggle | 4 Pcs |
| Respirator (H300+GF201) | 1Set |
| Chemical Coverall (Jet-Pro 4000) | 1 Pc |
| Chemical Shoe Cover | 1 Pair |
| Pen | 1 Pc |
| Instruction Guide | 1 Pc |
| Chemical Compatibility Guide | 1 Pc |
| 240L Plastic Wheelie Bin | 1 Pc |
| Dust Pan with Wiper | 1 Pc |
| Caution Floor Sign Board | 1 Pc |
| Yellow Caution Tape | 1 Pc |
| Eye Wash Bottle | 1 Pc |

Packaging Information

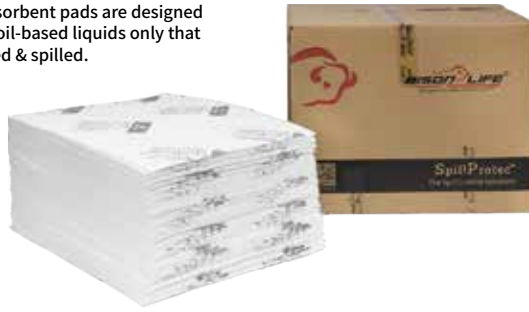
| |
|----------------|
| 1 Kit / Bin |
| 1 Kit / Carton |



| Product SKU | Inner pack UPC | Carton GTIN |
|------------------|----------------|----------------|
| BLSH-UAK-240L-GY | 810090089331 | 00810090089331 |

Oil Absorbent Pad

SpillProtect Oil absorbent pads are designed to absorb oil and oil-based liquids only that are dripped, leaked & spilled.



Product Information

| Model | OAPD2144 | OAPD4108 | OAPD5144 |
|---------------------|----------------|----------------|----------------|
| Material | Polypropylene | Polypropylene | Polypropylene |
| Color | White | White | White |
| Dimension | 40 x 50 (CM) | 40 x 50 (CM) | 40 x 50 (CM) |
| Thickness | 2 MM | 4 MM | 5 MM |
| Absorption capacity | 144 L | 108 L | 144 L |
| Pieces / Carton | 200 | 100 | 100 |
| Product SKU | BLSH-OAPD2144 | BLSH-OAPD4108 | BLSH-OAPD5144 |
| Carton GTIN | 00810148530631 | 00810148530648 | 00810148530655 |

Oil Absorbent Roll

SpillProtect Oil absorbent rolls are designed to absorb oil and oil-based liquids only that are dripped, leaked & spilled.



Product Information

| Model | OARL272 | OARL2144 | OARL3180 | OARL4108 |
|---------------------|----------------|----------------|----------------|----------------|
| Material | Polypropylene | Polypropylene | Polypropylene | Polypropylene |
| Color | White | White | White | White |
| Dimension | 40CM x 50M | 80CM x 50M | 80CM x 50M | 40CM x 50M |
| Thickness | 2 MM | 2 MM | 3 MM | 4 MM |
| Absorption capacity | 72 L | 144 L | 180 L | 108 L |
| Pieces / Carton | 1 | 1 | 1 | 1 |
| Product SKU | BLSH-OARL272 | BLSH-OARL2144 | BLSH-OARL3180 | BLSH-OARL4108 |
| Carton GTIN | 00810148530723 | 00810148530730 | 00810148530747 | 00810148530754 |

Chemical Absorbent Pad

SpillProtect Chemical absorbent pads are designed to absorb acids, bases, unknown liquids that are dripped, leaked & spilled.



Product Information

| Model | CAPD2120 | CAPD4105 | CAPD5120 |
|---------------------|----------------|----------------|----------------|
| Material | Polypropylene | Polypropylene | Polypropylene |
| Color | Yellow | Yellow | Yellow |
| Dimension | 40 x 50 (CM) | 40 x 50 (CM) | 40 x 50 (CM) |
| Thickness | 2 MM | 4 MM | 5 MM |
| Absorption capacity | 120 L | 105 L | 120 L |
| Pieces / Carton | 200 | 100 | 100 |
| Product SKU | BLSH-CAPD2120 | BLSH-CAPD4105 | BLSH-CAPD5120 |
| Carton GTIN | 00810148530662 | 00810148530679 | 00810148530686 |

Chemical Absorbent Roll

SpillProtect Chemical absorbent rolls are designed to absorb acids, bases, and unknown liquids that are dripped, leaked & spilled.

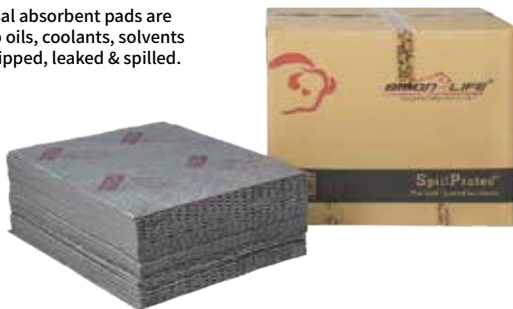


Product Information

| Model | CARL260 | CARL375 | CARL3150 | CARL490 |
|---------------------|----------------|----------------|----------------|----------------|
| Material | Polypropylene | Polypropylene | Polypropylene | Polypropylene |
| Color | Yellow | Yellow | Yellow | Yellow |
| Dimension | 40 x 50 (CM) | 40 x 50 (CM) | 80 x 50 (CM) | 40 x 50 (CM) |
| Thickness | 2 MM | 3 MM | 3 MM | 4 MM |
| Absorption capacity | 60 L | 75 L | 150 L | 90 L |
| Pieces / Carton | 1 | 1 | 1 | 1 |
| Product SKU | BLSH-CARL260 | BLSH-CARL375 | BLSH-CARL3150 | BLSH-CARL490 |
| Carton GTIN | 00810148530761 | 00810148530778 | 00810148530785 | 00810148530792 |

Universal Absorbent Pad

SpillProtect Universal absorbent pads are designed to absorb oils, coolants, solvents & water that are dripped, leaked & spilled.



Product Information

| Model | UAPD2120 | UAPD4105 | UAPD5120 |
|---------------------|----------------|----------------|----------------|
| Material | Polypropylene | Polypropylene | Polypropylene |
| Color | Grey | Grey | Grey |
| Dimension | 40 x 50 (CM) | 40 x 50 (CM) | 40 x 50 (CM) |
| Thickness | 2 MM | 4 MM | 5 MM |
| Absorption capacity | 120 L | 105 L | 120 L |
| Pieces / Carton | 200 | 100 | 100 |
| Product SKU | BLSH-UAPD2120 | BLSH-UAPD4105 | BLSH-UAPD5120 |
| Carton GTIN | 00810148530693 | 00810148530709 | 00810148530716 |

Universal Absorbent Roll

SpillProtect Universal absorbent rolls are designed to absorb oils, coolants, solvents & water that are dripped, leaked & spilled.



Product Information

| Model | UARL260 | UARL375 | UARL3150 | UARL490 |
|---------------------|----------------|----------------|----------------|----------------|
| Material | Polypropylene | Polypropylene | Polypropylene | Polypropylene |
| Color | Grey | Grey | Grey | Grey |
| Dimension | 40CM x 50M | 40CM x 50M | 80CM x 50M | 40CM x 50M |
| Thickness | 2 MM | 3 MM | 3 MM | 4 MM |
| Absorption capacity | 60 L | 75 L | 150 L | 90 L |
| Pieces / Carton | 1 | 1 | 1 | 1 |
| Product SKU | BLSH-UARL260 | BLSH-UARL375 | BLSH-UARL3150 | BLSH-UARL490 |
| Carton GTIN | 00810148530808 | 00810148530815 | 00810148530822 | 00810148530839 |

Oil Absorbent Pillow



SpillProtec Oil absorbent pillow are designed to absorb oil and oil-based liquids only that are dripped, leaked & spilled.

Product Information

| Model | OAPW4590 | OAPW3495 |
|---------------------|----------------|----------------|
| Material | Polypropylene | Polypropylene |
| Color | White | White |
| Dimension | 40 x 50 (CM) | 30 x 40 (CM) |
| Absorption capacity | 90 L | 95 L |
| Pieces / Carton | 10 | 24 |
| Product SKU | BLSH-OAPW4590 | BLSH-OAPW3495 |
| Carton GTIN | 00810148530891 | 00810148530921 |

Oil Absorbent Socks/Boom



SpillProtec Oil absorbent Sock & Boom are designed to absorb oil and oil-based liquids only that are dripped, leaked & spilled.

Product Information

| Model | O ASC3075 | OABM3130 | OABM6130 | OASC12170 |
|---------------------|----------------|----------------|----------------|----------------|
| Material | Polypropylene | Polypropylene | Polypropylene | Polypropylene |
| Color | White | White | White | White |
| Dimension | φ7.6CM x 3.0M | φ12.7CM x 3.0M | φ12.7CM x 6.0M | φ7.62cm x 1.2m |
| Absorption capacity | 75 L | 130 L | 130 L | 170 L |
| Pieces / Carton | 5 | 4 | 2 | 24 |
| Product SKU | BLSH-OASC3075 | BLSH-OABM3130 | BLSH-OABM6130 | BLSH-OASC12170 |
| Carton GTIN | 00810148530846 | 00810148530853 | 00810148530860 | 00810148530952 |

Chemical Absorbent Pillow



SpillProtec Chemical absorbent pillow are designed to absorb acids, bases, unknown liquids that are dripped, leaked & spilled.

Product Information

| Model | CAPW4575 | CAPW3495 |
|---------------------|----------------|----------------|
| Material | Polypropylene | Polypropylene |
| Color | Yellow | Yellow |
| Dimension | 40 x 50 (CM) | 30 x 40 (CM) |
| Absorption capacity | 75 L | 95 L |
| Pieces / Carton | 10 | 24 |
| Product SKU | BLSH-CAPW4575 | BLSH-CAPW3495 |
| Carton GTIN | 00810148530914 | 00810148530938 |

Chemical Absorbent Sock



SpillProtec Chemical absorbent socks are designed to absorb acids, bases, and unknown liquids that are dripped, leaked & spilled.

Product Information

| Model | CASC3063 | CASC12170 |
|---------------------|-----------------|-------------------|
| Material | Polypropylene | Polypropylene |
| Color | Yellow | Yellow |
| Dimension | φ7.6 CM x 3.0 M | φ7.62 C M x 1.2 M |
| Absorption capacity | 63 L | 170 L |
| Pieces / Carton | 5 | 24 |
| Product SKU | BLSH-CASC31063 | BLSH-CASC12170 |
| Carton GTIN | 00810148530877 | 00810148530969 |

Universal Absorbent Pillow



SpillProtec Universal absorbent pillow are designed to absorb oils, coolants, solvents & water that are dripped, leaked & spilled.

Product Information

| Model | UAPW4575 | UAPW3495 |
|---------------------|----------------|----------------|
| Material | Polypropylene | Polypropylene |
| Color | Grey | Grey |
| Dimension | 40 x 50 (CM) | 30 x 40 (CM) |
| Absorption capacity | 75 L | 95 L |
| Pieces / Carton | 10 | 24 |
| Product SKU | BLSH-UAPW4575 | BLSH-UAPW3495 |
| Carton GTIN | 00810148530907 | 00810148530945 |

Universal Absorbent Socks



SpillProtec Universal absorbent socks are designed to absorb oils, coolants, solvents & water that are dripped, leaked & spilled.

Product Information

| Model | UASC3063 | UASC12170 |
|---------------------|-----------------|-------------------|
| Material | Polypropylene | Polypropylene |
| Color | Grey | Grey |
| Dimension | φ7.6 CM x 3.0 M | φ7.62 C M x 1.2 M |
| Absorption capacity | 63 L | 170 L |
| Pieces / Carton | 5 | 24 |
| Product SKU | BLSH-UASC31063 | BLSH-UASC12170 |
| Carton GTIN | 00810148530884 | 00810148530976 |

Oil Absorbent Drum Top Pad

SpillProtec Oil absorbent Drum Top Pad are designed to absorb oil and oil-based liquids only that are dripped, leaked & spilled.

Product Information

| | |
|---------------------|----------------|
| Model | OABP3100 |
| Material | Polypropylene |
| Color | White |
| Dimension | φ 550mm |
| Thickness | 3 MM |
| Absorption capacity | 100 L |
| Pieces / Carton | 50 |
| Product SKU | BLSH-OABP3100 |
| Carton GTIN | 00810148530983 |



Chemical Absorbent Drum Top Pad

SpillProtec Chemical absorbent Drum Top Pad are designed to absorb acids, bases, unknown liquids that are dripped, leaked & spilled.

Product Information

| | |
|---------------------|----------------|
| Model | CABP385 |
| Material | Polypropylene |
| Color | Yellow |
| Dimension | φ 550mm |
| Thickness | 3 MM |
| Absorption capacity | 85 L |
| Pieces / Carton | 50 |
| Product SKU | BLSH-CABP385 |
| Carton GTIN | 00810148530990 |



Universal Absorbent Drum Top Pad

SpillProtec Universal absorbent Drum Top Pad are designed to absorb oils, coolants, solvents & water that are dripped, leaked & spilled.

Product Information

| | |
|---------------------|----------------|
| Model | UABP385 |
| Material | Polypropylene |
| Color | Grey |
| Dimension | φ 550mm |
| Thickness | 3 MM |
| Absorption capacity | 85 L |
| Pieces / Carton | 50 |
| Product SKU | BLSH-UABP385 |
| Carton GTIN | 00810148531003 |



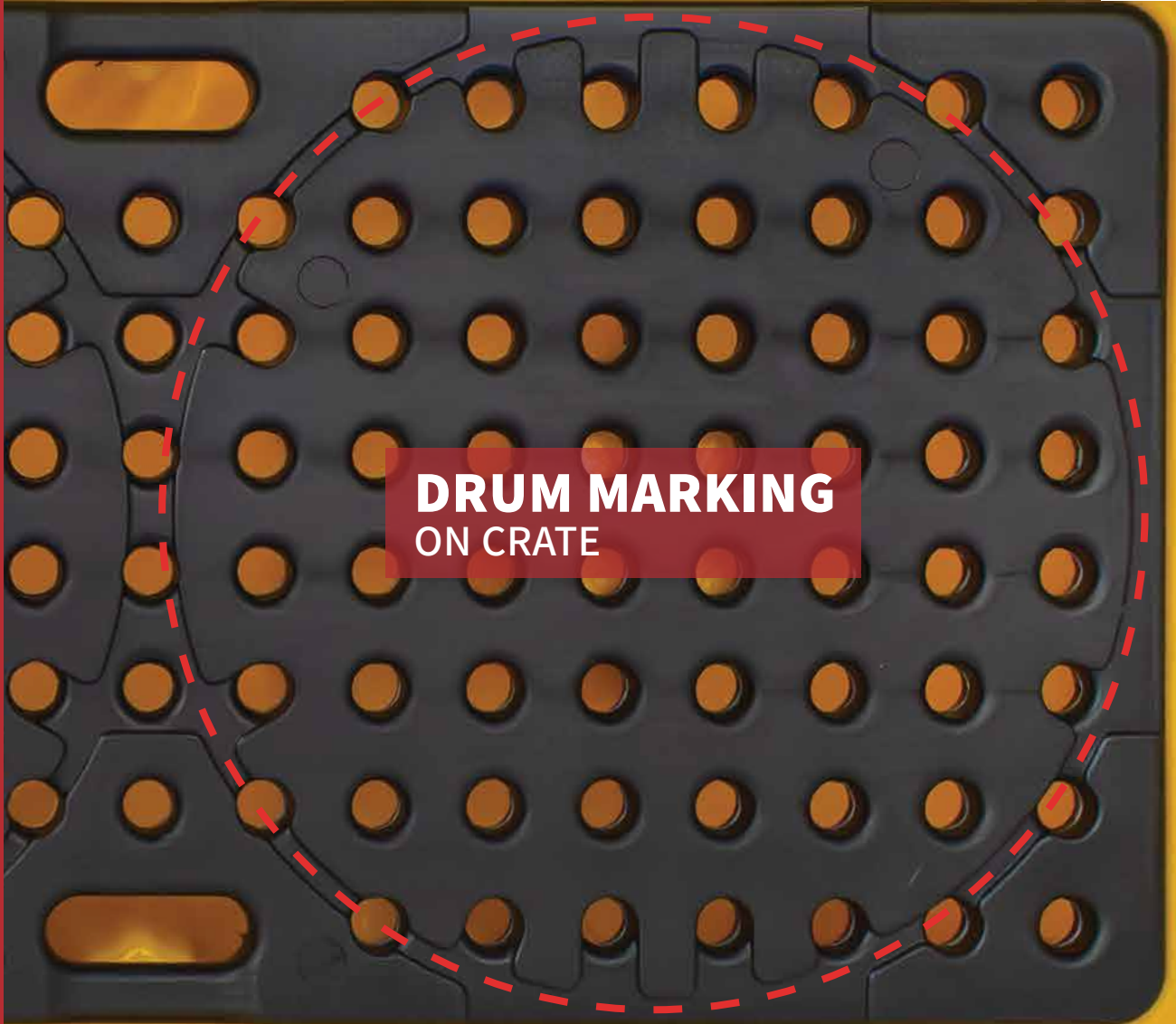
SpillProtec®

Spill Control Solutions

Prepare for
spill emergencies
with **SpillProtec®**
spill Pallets



KEY FEATURES



**DRUM MARKING
ON CRATE**



**DRAIN PLUG
INNER VIEW**



**DRAIN PLUG
OUTER VIEW**

SCP2D70

2 Drum Spill Containment Pallet

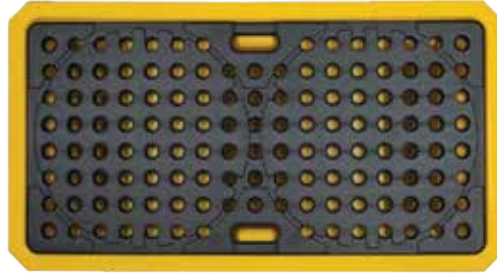
Product Specification

| | |
|--------------------|----------------|
| Material | Polyethylene |
| Colour | Yellow / Black |
| Dimension | 130x69x15cm |
| No of Drum / Tank | 2 Drum |
| Sump Capacity | 70 L |
| Loading Capacity | 1500 Kg |
| Forklift Operation | Yes |
| Drain Plug | Yes |

Packaging Information

1 Piece / Carton

| Product SKU | Carton GTIN |
|---------------|----------------|
| BLSH-SCP2-070 | 00810090089065 |



SCP2D120

2 Drum Spill Containment Pallet

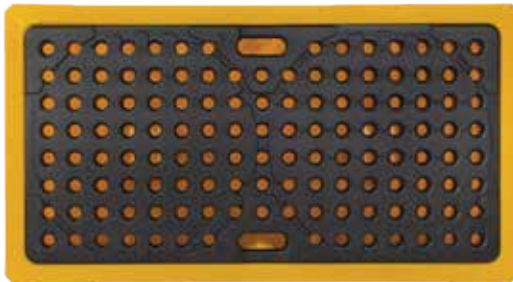
Product Specification

| | |
|--------------------|----------------|
| Material | Polyethylene |
| Colour | Yellow / Black |
| Dimension | 130x69x30cm |
| No of Drum / Tank | 2 Drum |
| Sump Capacity | 120 L |
| Loading Capacity | 1500 Kg |
| Forklift Operation | Yes |
| Drain Plug | Yes |

Packaging Information

1 Piece / Carton

| Product SKU | Carton GTIN |
|---------------|----------------|
| BLSH-SCP2-120 | 00810090089041 |



SCP2D150

2 Drum Spill Containment Pallet

Product Specification

| | |
|--------------------|----------------|
| Material | 1Polyethylene |
| Colour | Yellow / Black |
| Dimension | 130x69x30cm |
| No of Drum / Tank | 2 Drum |
| Sump Capacity | 150 L |
| Loading Capacity | 1200 Kg |
| Forklift Operation | Yes |
| Drain Plug | Yes |

Packaging Information

1 Piece / Carton

| Product SKU | Carton GTIN |
|---------------|----------------|
| BLSH-SCP2-150 | 00810090089027 |



SCP4D120

4 Drum Spill Containment Pallet

Product Specification

| | |
|--------------------|----------------|
| Material | Polyethylene |
| Colour | Yellow / Black |
| Dimension | 130x130x15cm |
| No of Drum / Tank | 4 Drum |
| Sump Capacity | 120 L |
| Loading Capacity | 2000 Kg |
| Forklift Operation | Yes |
| Drain Plug | Yes |

Packaging Information

1 Piece / Carton

| Product SKU | Carton GTIN |
|---------------|----------------|
| BLSH-SCP4-120 | 00810090089072 |



SCP4D245

4 Drum Spill Containment Pallet

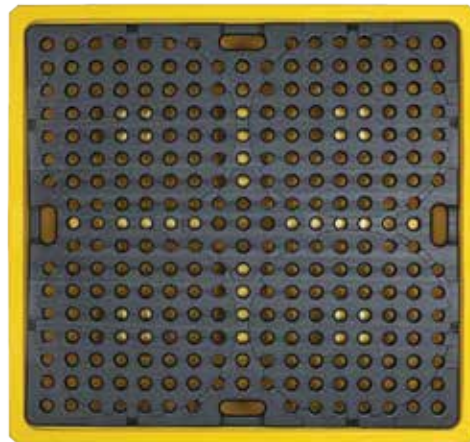
Product Specification

| | |
|--------------------|----------------|
| Material | Polyethylene |
| Colour | Yellow / Black |
| Dimension | 130x130x30cm |
| No of Drum / Tank | 4 Drum |
| Sump Capacity | 245 L |
| Loading Capacity | 3000 Kg |
| Forklift Operation | Yes |
| Drain Plug | Yes |

Packaging Information

1 Piece / Carton

| Product SKU | Carton GTIN |
|---------------|----------------|
| BLSH-SCP4-245 | 00810188145444 |



SCP4D280

4 Drum Spill Containment Pallet

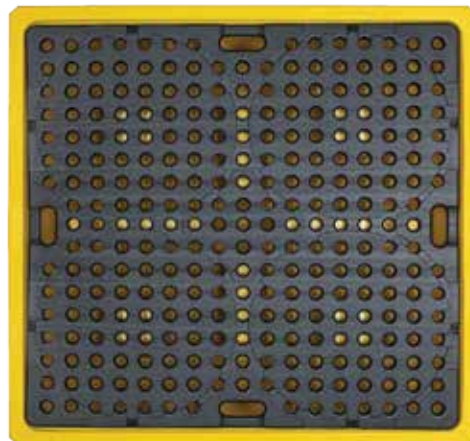
Product Specification

| | |
|--------------------|----------------|
| Material | Polyethylene |
| Colour | Yellow / Black |
| Dimension | 130x130x30cm |
| No of Drum / Tank | 4 Drum |
| Sump Capacity | 280 L |
| Loading Capacity | 2600 Kg |
| Forklift Operation | Yes |
| Drain Plug | Yes |

Packaging Information

1 Piece / Carton

| Product SKU | Carton GTIN |
|---------------|----------------|
| BLSH-SCP4-280 | 00810090089034 |



Spill Containment Pallet

SpillProtec® Series

SCPIBC1300

IBC Drum Spill Containment Pallet

Product Specification

| | |
|--------------------|----------------|
| Material | Polyethylene |
| Colour | Yellow / Black |
| Dimension | 138x138x90cm |
| No of Drum / Tank | 1 Tank |
| Sump Capacity | 1300 L |
| Loading Capacity | 3000 Kg |
| Forklift Operation | Yes |
| Drain Plug | Yes |

Packaging Information

1 Piece / Carton

| Product SKU | Carton GTIN |
|----------------|----------------|
| BLSH-SCIP-1300 | 00810090089058 |



Spill Containment Workstation

SpillProtec® Series

SCW1D43

Single Drum Spill Containment Workstation

Product Specification

| | |
|------------------|----------------|
| Material | Polyethylene |
| Colour | Yellow / Black |
| Dimension | 68x68x15cm |
| No of Drum | 1 Drum |
| Sump Capacity | 43 L |
| Loading Capacity | 500 Kg |
| Drain Plug | Yes |

Packaging Information

1 Piece / Carton

| Product SKU | Carton GTIN |
|---------------|----------------|
| BLSH-SCW1-043 | 00810090089133 |



SCW2D45

2 Drum Spill Containment Workstation

Product Specification

| | |
|------------------|----------------|
| Material | Polyethylene |
| Colour | Yellow / Black |
| Dimension | 130x68x10cm |
| No of Drum | 2 Drum |
| Sump Capacity | 45 L |
| Loading Capacity | 1200 Kg |
| Drain Plug | Yes |

Packaging Information

1 Piece / Carton

| Product SKU | Carton GTIN |
|---------------|----------------|
| BLSH-SCW2-045 | 00810090089157 |



SCW4D80

4 Drum Spill Containment Workstation

Product Specification

| | |
|------------------|----------------|
| Material | Polyethylene |
| Colour | Yellow / Black |
| Dimension | 130x130x10cm |
| No of Drum | 4 Drum |
| Sump Capacity | 80 L |
| Loading Capacity | 3000 Kg |
| Drain Plug | Yes |

Packaging Information

1 Piece / Carton

| Product SKU | Carton GTIN |
|---------------|----------------|
| BLSH-SCW4-080 | 00810090089140 |



SCWD20

Small Drum Spill Containment Workstation

Product Specification

| | |
|------------------|----------------|
| Material | Polyethylene |
| Colour | Yellow / Black |
| Dimension | 68x38x12cm |
| Sump Capacity | 20 L |
| Loading Capacity | 80 Kg |
| Drain Plug | Yes |

Packaging Information

1 Piece / Carton

| Product SKU | Carton GTIN |
|--------------|----------------|
| BLSH-SCW-020 | 00810090089119 |



SCWLD11

Laboratory Desktop Spill Containment Workstation

Product Specification

| | |
|------------------|----------------|
| Material | Polyethylene |
| Colour | Yellow / Black |
| Dimension | 53x41x12cm |
| Sump Capacity | 11 L |
| Loading Capacity | 30 Kg |

Packaging Information

1 Piece / Carton

| Product SKU | Carton GTIN |
|--------------|----------------|
| BLSH-SLD-011 | 00810090089126 |



RSCP

Ramp for Spill Containment Pallet

Product Specification

| | |
|-----------------|------------------------------|
| Material | Polyethylene |
| Colour | Yellow |
| Static Load | 200 Kg |
| Dimension | 122X82X32 |
| Compatible with | SCP4D280, SCP2D120, SCP2D150 |

Packaging Information

1 Piece / Carton

| Product SKU | Carton GTIN |
|---------------|----------------|
| BLSH-RSCP-100 | 00810090089089 |



RSCW

Ramp for Spill Containment Workstation

Product Specification

| | |
|-----------------|----------------------------|
| Material | Polyethylene |
| Colour | Yellow |
| Static Load | 200 Kg |
| Dimension | 22X82X17 |
| Compatible with | SCP2D70, SCP4D120, SCW1D43 |

Packaging Information

1 Piece / Carton

| Product SKU | Carton GTIN |
|---------------|----------------|
| BLSH-RSCW-200 | 00810090089096 |



SCTR20

Oil Drum Spill Trailer Tray

Product Specification




| | |
|------------------|----------------|
| Material | Polyethylene |
| Colour | Yellow / Black |
| Dimension | 77x77x15cm |
| No of Drum | 1 |
| Sump Capacity | 20 L |
| Loading Capacity | 240 Kg |

Packaging Information

1 Piece / Carton

| Product SKU | Carton GTIN |
|---------------|----------------|
| BLSH-SCTR-020 | 00810090089102 |



| Name of Chemicals | Oil Absorbent  | Universal Absorbent  | Chemical Absorbent  |
|---|---|---|--|
| Acetic Acid | - | - | Recommended |
| Acetone | - | Alternate Selection | Recommended |
| Acetonitrile | - | Alternate Selection | Recommended |
| Acrylonitrile | - | - | Recommended |
| Agricultural chemicals (Pesticides) | - | Alternate Selection | Recommended |
| Alcohols (Ethanol, Spirits) | - | - | Recommended |
| Ammonium Hydroxide | - | - | Recommended |
| Ammonium Hydroxide | - | - | Recommended |
| Benzene | - | Alternate Selection | Recommended |
| Butanol | - | - | Recommended |
| Butyl Alcohol | - | Alternate Selection | Recommended |
| Carbon Tetrachloride | - | - | Recommended |
| Chloroform | - | Alternate Selection | Recommended |
| Cooking Oil, Vegetable Oil | Recommended | - | - |
| Coolant / Heat Exchange Fluids | - | Recommended | Alternate Selection |
| Crude Oil | Recommended | Alternate Selection | - |
| Cyclohexane | - | Recommended | Alternate Selection |
| Dilute Acids | - | - | Recommended |
| Dilute Alkalis | - | Alternate Selection | Recommended |
| Ethyl Acetate | - | - | Recommended |
| Ethyl Alcohol | - | Alternate Selection | Recommended |
| Ethyl Ether | - | Recommended | Alternate Selection |
| Ethylbenzene | - | Recommended | Alternate Selection |
| Engine Oil / Motor Oil | Recommended | - | - |
| Ethylene Dichloride | - | - | Recommended |
| Formaldehyde | - | - | Recommended |
| Fluorine | - | Recommended | Alternate Selection |
| Fluorosulfonic Acid | - | - | Recommended |
| Formic Acid | - | - | Recommended |
| Gasoline | Recommended | Alternate Selection | Alternate Selection |
| General Oils | Recommended | - | - |
| Hexane | - | Recommended | Alternate Selection |
| Hydraulic Acid | - | - | Recommended |
| Hydrochloric Acid | - | - | Recommended |
| Hydrofluoric Acid | - | - | Recommended |
| Isopropyl Alcohol | - | Recommended | Recommended |
| Methanol | - | Alternate Selection | Recommended |
| Methyl Alcohol | - | Alternate Selection | Recommended |
| Methyl Ethyl Ketone | - | Recommended | Recommended |
| Methylene Chloride | - | Alternate Selection | Recommended |
| Nitric Acid | - | - | Recommended |
| Octane | - | Recommended | Alternate Selection |
| Paints | - | Recommended | Alternate Selection |
| Petrol, Dissel, Kerosene | Recommended | Alternate Selection | - |
| Phosphoric Acid | - | - | Recommended |
| Potash Solution (Potassium Carbonate) | - | - | Recommended |
| Potassium Hydroxide | - | - | Recommended |
| Sodium Acetate | - | Recommended | Alternate Selection |
| Sodium Hydroxide | - | - | Recommended |
| Sulfuric Acid | - | - | Recommended |
| Sulphurous Acid | - | - | Recommended |
| Toluene | - | Alternate Selection | Recommended |
| Transformer Oils, Other Oil-based Liquids | Recommended | - | - |
| Trichloroethylene | - | Alternate Selection | Recommended |
| Water | - | Recommended | Recommended |
| Xylene | - | Alternate Selection | Recommended |
| "Water-Miscible Oils (Hydraulic / Cutting Fluids)" | - | Recommended | Alternate Selection |

ERGONOMICS
SOLUTIONS



Ergonomics

Essential for Workplace Safety

Ergonomics, or the study of designing work environments and tasks to fit the capabilities and limitations of workers, plays a crucial role in ensuring workplace safety and enhancing overall productivity. By applying ergonomic principles, organizations can minimize the risk of injuries, reduce discomfort, and improve efficiency. Here's a comprehensive overview of how ergonomics contributes to workplace safety:

Key Ergonomic Principles

● Design for Comfort & Efficiency

Objective:

To create workspaces and tasks that enhance comfort and efficiency while reducing physical strain.

Implementation:

Adjustable Workstations: Design workstations with adjustable features to accommodate various body sizes and work styles. For example, height-adjustable desks allow employees to switch between sitting and standing.

Proper Tool Selection: Provide tools and equipment that are ergonomically designed to minimize strain. For example, ergonomic handles and grips reduce hand and wrist strain.

● Promote Proper Posture

Objective:

To encourage correct posture and reduce the risk of musculoskeletal disorders (MSDs).

Implementation:

Chair Design: Use chairs with adjustable lumbar support, seat height, and backrest tilt to support proper sitting posture.

Monitor Placement: Position computer monitors at eye level to reduce neck strain and encourage proper head alignment.

● Reduce Repetitive Strain & Overuse

Objective:

To minimize the risk of repetitive strain injuries overuse syndromes.

Implementation:

Task Rotation: Implement job rotation to vary tasks and reduce repetitive motions.

Breaks & Stretching: Encourage regular breaks and stretching exercises to alleviate muscle tension and prevent fatigue.

Ergonomic Solutions and Tools

● Anti-Fatigue Mats

Description:

Cushioned mats placed in work areas where employees stand for long periods.

Benefits:

- Reduce leg and lower back discomfort.
- Improve circulation and reduce fatigue.

● Lift Belts

Description:

Supportive belts worn around the lower back during lifting tasks.

Benefits:

- Provide additional back support.
- Encourage proper lifting techniques.

● Knee Pads

Description:

Protective gear worn to cushion the knees during kneeling tasks.

Benefits:

- Reduce pressure and discomfort on the knees.
- Enhance mobility and comfort.



Benefits of Ergonomic Workplace Design

● Reduced Injury Rates

Prevention: Ergonomic design helps prevent common workplace injuries such as back strains, carpal tunnel syndrome, and repetitive strain injuries.

Recovery: Reduces the severity of injuries and supports quicker recovery through comfortable and supportive work environments.

● Increased Productivity

Comfort: Comfortable employees are more focused and less distracted by pain or discomfort.

Efficiency: Ergonomic tools and setups enable workers to perform tasks more efficiently and with less effort.

● Improved Job Satisfaction

Well-being: A well-designed ergonomic environment contributes to overall job satisfaction and well-being.

Retention: Employees are more likely to stay with an organization that values their health and comfort.

● Enhanced Safety Compliance

Regulations: Adhering to ergonomic principles helps organizations meet occupational health and safety regulations.

Risk Management: Reduces the risk of workplace accidents and legal liabilities related to employee health.

Implementing Ergonomic Solutions

● Conduct Ergonomic Assessments

Evaluate Workstations: Assess current workstations, tasks, and tools to identify ergonomic risks and areas for improvement.

Seek Employee Input: Involve employees in the assessment process to gather feedback on their needs and experiences.

● Invest in Ergonomic Equipment

Upgrade Tools & Furniture: Invest in ergonomic tools, chairs, and desks that support proper posture and reduce strain.

Provide Training: Educate employees on proper ergonomic practices and the use of ergonomic equipment.

● Promote Ergonomic Practices

Encourage Regular Breaks: Implement policies that encourage frequent breaks and stretching exercises.

Monitor & Adjust: Continuously monitor the effectiveness of ergonomic solutions and make adjustments as needed.



KPE01

Hard Shell Knee Pad with Adjustable Strap



Product Information

| | |
|--------------|---|
| Product Type | Knee Pad |
| Material | PE cap, 600D polyester, EPE Foam, Hook&loop |
| Color | Black |

Packaging Information

| |
|-------------------|
| 1 Pair / Polybag |
| 25 Pairs / Carton |

Product SKU

BLSH-PEKP-R



KPP01

Heavy Duty Knee Pad with EVA Foam, Gel & Adjustable Strap



Product Information

| | |
|--------------|--|
| Product Type | Knee Pad |
| Material | PVC cap, 600D polyester, EVA Foam+GEL, RIVET |
| Color | Black |

Packaging Information

| |
|-------------------|
| 1 Pair / Polybag |
| 25 Pairs / Carton |

Product SKU

BLSH-ELKP-BK



KPP02 Heavy Duty Hard Shell Knee Pads with Gel and Foam Cushion



Product Information

| | |
|------------------|----------------------|
| Product Type | Knee Pad |
| Material | Polyester |
| Cap Material | PVC |
| Padding Material | EVA Foam + Gel |
| Shell Material | Neoprene |
| Closure Type | Hook-and-loop Velcro |
| Color | Light Blue / Black |

Packaging Information

| |
|-------------------|
| 1 Pair / Polybag |
| 25 Pairs / Carton |

Product SKU

| |
|-------------|
| BLSH-LKP-BL |
|-------------|

LB002 Back Lift Support Belt with Dual Adjustable Straps



Product Information

| | |
|--------------|--------------------------------|
| Product Type | Lift Support Belt |
| Product | TPR / Honeycomb Mesh / Spandex |
| Material | Velcro |
| Closure Type | 380 Gram |
| Weight | Black |

Packaging Information

| |
|--------------------|
| 1 Piece / Bag |
| 25 Pieces / Carton |

Product SKU

| Product SKU | Size |
|------------------|-------------|
| BLSH-M-LB-BK-12 | Medium |
| BLSH-L-LB-BK-12 | Large |
| BLSH-XL-LB-BK-12 | Extra Large |

LB001

Back Lift Support Belt with Dual Adjustable Straps



Product Information

| | |
|--------------|-------------------|
| Product Type | Lift Support Belt |
| Material | Polyester |
| Color | Black |

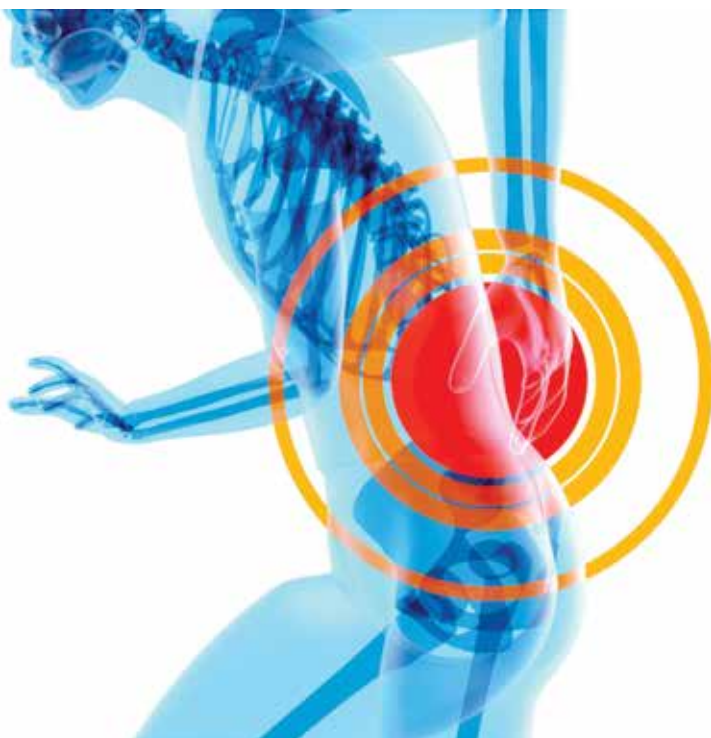
Packaging Information

| |
|--------------------|
| 1 Piece / Bag |
| 25 Pieces / Carton |

| Product SKU | Size |
|------------------|-------------|
| BLSH-M-LB-BK-12 | Medium |
| BLSH-L-LB-BK-12 | Large |
| BLSH-XL-LB-BK-12 | Extra Large |



THE BENEFITS OF BACK LIFT SUPPORT BELT



- 1. Reduces Lower Back Strain**

 - Supports the lumbar spine and abdominal muscles.
 - Helps prevent overextension and muscle fatigue during lifting or bending.
- 2. Promotes Proper Posture**

 - Encourages correct spinal alignment.
 - Minimizes the risk of slouching or poor posture while working.
- 3. Prevents Workplace Injuries**

 - Ideal for jobs involving repetitive lifting or heavy labor.
 - Reduces the chance of strains, sprains, and disc injuries.
- 4. Provides Pain Relief**

 - Offers compression and warmth to ease lower back pain.
 - Helpful for individuals with existing back conditions like herniated discs or sciatica.
- 5. Enhances Lifting Confidence**

 - Boosts stability during heavy lifting.
 - Encourages safer, more controlled movements.
- 6. Adjustable & Comfortable**

 - Typically made from breathable, stretchable material.
 - Customizable fit with straps or Velcro for all-day comfort.

AFM6191

ESD Anti Fatigue Mat made of PVC & EPDM Foam



Product Information

| | |
|-----------|---|
| Material | PVC & EPDM Foam |
| Size | 610x910mm / 610x450 / Customized size available |
| Thickness | 18mm |
| Texture | Industrial Diamond Plate |
| Color | Black & Yellow |
| ESD Type | Surface 10e6-10e9 ohms Bottom 10e4-10e6 ohms |

Packaging Information

| |
|----------------------------|
| 10 Pieces / Non-woven Bag |
| 100 Pieces / Wooden Pallet |

| Product SKU | Inner pack UPC | Carton GTIN |
|----------------|----------------|----------------|
| BLSH-AFM-YBK-1 | 810148535575 | 00810148535582 |

THE BENEFITS OF ANTI-FATIGUE MATS

37%
Reduction in Lower Back Discomfort

74%
Reduction in Upper Leg Discomfort

80%
Reduction in Lower Leg Discomfort

60%
Improvement in thermal comfort

BALANCED

- Improves structural alignment and joint function
- Improves muscular balance and prevents nerve impingement
- Reduces uneven wear and tear on joints
- Body weight evenly distributed
- Efficient natural movement
- Reduced pressure on organs

IMBALANCED

- Neck pain and headaches
- Shoulder restrictions and pain
- Arm and hand pain nerve entrapment
- Bulging discs/back pain
- Uneven pressure/knee pain
- Uneven weight distribution
- Foot and ankle pain

Muscles relaxed, valves closed

Muscles contracted, valve above muscle opens

This blood pooling in the legs and the increased pressure on joints causes pain and discomfort, which can eventually result in a work-related musculoskeletal disorder if not diagnosed and treated where necessary.

Due to gravity's effect on our bodies because of our upright position, we are designed to be moving rather than standing still as when we are stationary, our muscles are required to tense to stop us from losing our balance. This causes greater fatigue too.

A study by Loughborough University found that just 90 minutes of continuous standing can cause an individual to feel uncomfortable, which may seem like a short amount of time to someone who spends their whole working day on their feet.

FallSafe™

FALL PROTECTION



What is Fall Protection

Fall protection is the back-up system prearranged for a worker who could lose his or her balance while working at height, in order to control or eliminate potential injuries or even death.

A fall protection system is a combination of equipment, procedures, and practices designed to prevent or minimize injuries from falls, especially for workers operating at height

These systems are crucial for ensuring worker safety and complying with regulations, particularly when working near edges or openings where a fall could be dangerous.

- **FALL PREVENTION:** refers to the systems and techniques that eliminate the possibility of a fall. The most desirable method of fall prevention is to engineer out or modify the work plan to eliminate the hazard.

Ex – Guard Rails, Hand Rails.

- **FALL ARREST SYSTEMS:** protect the worker after a fall from hitting the ground or obstructions below the work platform. Passive systems require no personal involvement from the user. Active systems require the user to actively use the system.



- **FALL RESTRAINT SYSTEMS:** use lanyards or some kind of tethering system measured so that workers cannot go beyond the edge where a potential for a fall exists.

- **RESCUE:** refers to the ability to retrieve or rescue an individual from confined spaces or heights and must always be a component of any fall protection program.



Breakdown of some key EN standards:

● Personal Fall Arrester Equipment:

- **EN 361:** Specifies requirements for full body harnesses used in fall arrest systems.
- **EN 354:** Covers lanyards, which are used to connect a harness to an anchor point.
- **EN 355:** Deals with energy absorbers, which reduce the impact force on a worker during a fall.
- **EN 358** focuses on work positioning and restraint, which are used to prevent falls, rather than arrest them.
- **EN 362:** Addresses connectors, such as carabiners, used to join components of a fall arrest system.
- **EN 363:** Outlines requirements for fall arrest systems as a whole, including their components.
- **EN 360:** Specifies requirements for retractable type fall arrestors, which automatically retract a lanyard as the user moves.
- **EN 353-1 & EN 353-2:** These cover guided type fall arresters, which are systems that move along a rigid or flexible anchor line, respectively, in vertical plane
- **EN 358:** Deals with belts and lanyards used for work positioning and restraint, preventing falls rather than arresting them after they occur.

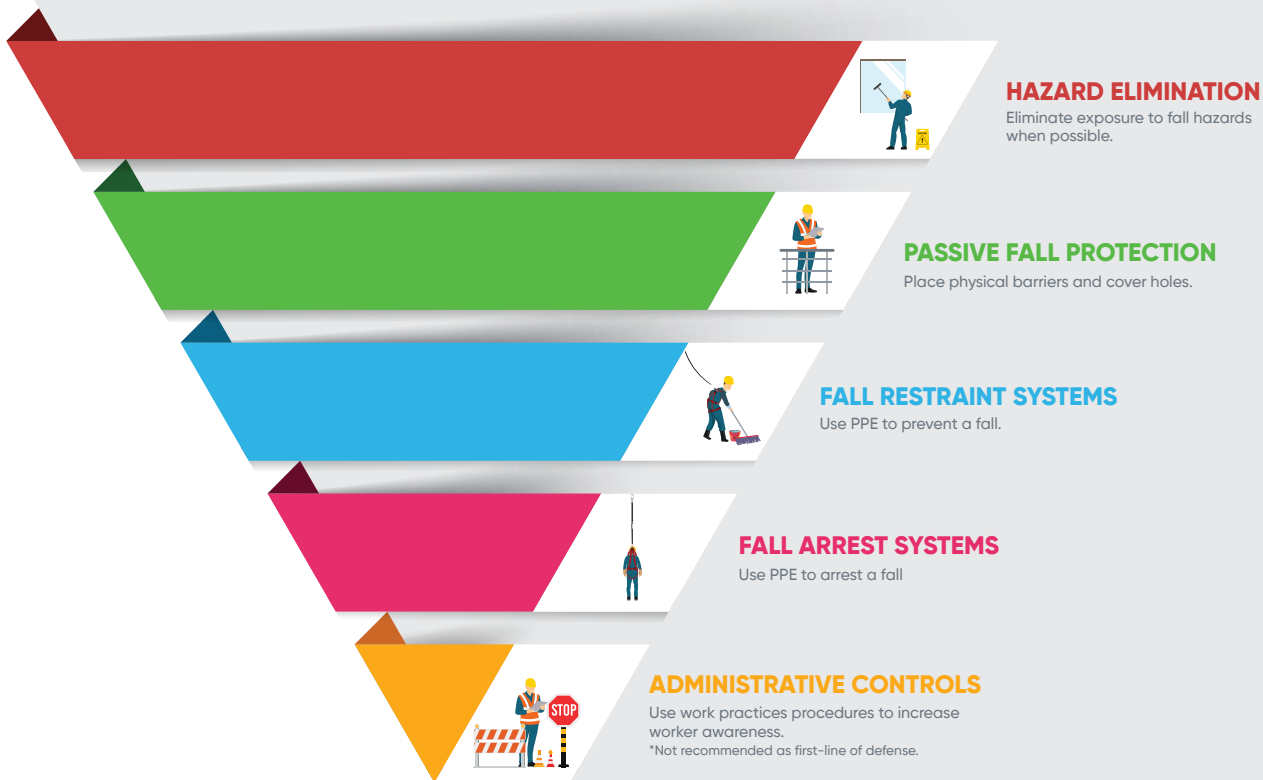
● Anchor Devices and Systems:

- **EN 795:** Defines technical requirements and test methods for anchor devices. It distinguishes between different types of anchor devices (Type A to E) and focuses on single-user applications.
- **CEN/TS 16415:** A technical specification that certifies anchor devices designed for multiple users.
- **EN 1263-1 & EN 1263-2:** These standards cover safety nets used as a passive fall protection measure.

● Other Relevant Standards:

- **EN 341:** Covers descender devices, used for controlled descent.
- **EN 364:** Specifies test methods for fall protection equipment.
- **EN 365:** Personal protective equipment against falls from a height — General requirements for instructions for use, maintenance, periodic examination, repair, marking and packaging
- **EN 892:** Mountaineering equipment — Dynamic mountaineering ropes — Safety requirements and test methods
- **EN ISO 9227:** Corrosion tests in artificial atmospheres — Salt spray tests (ISO 9227)
- **ISO 2232:** Round drawn wire for general purpose non-alloy steel wire ropes and for large diameter steel wire ropes — Specifications
- **EN 1263-1 & EN 1263-2:** cover safety nets which are a passive method of fall protection.

HIERARCHY OF FALL PROTECTION



Importance of fall protection

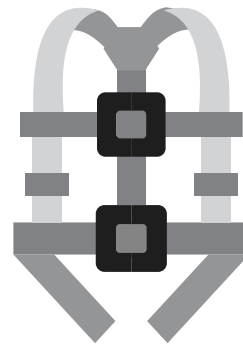
Falls from heights are a leading cause of workplace fatalities and injuries in various industries. Implementing robust fall protection measures offers significant benefits:

- **Saving lives:** Fall protection systems are designed to prevent workers from experiencing fatal or severely injurious falls.
- **Reducing injuries and disabilities:** Minimizing the risk and severity of falls contributes to a healthier workforce and fewer long-term health complications.
- **Increased productivity:** Fewer accidents and injuries translate to less downtime, delays, and disruptions to work schedules.
- **Cost savings:** Preventing falls helps avoid expenses related to medical treatment, workers' compensation claims, legal fees, and lost productivity.
- **Improved morale and retention:** Prioritizing worker safety fosters a positive work environment, leading to increased employee morale, job satisfaction, and reduced turnover.
- **Compliance with regulations:** Following fall protection standards set by agencies like OSHA (Occupational Safety and Health Administration) is crucial to avoid fines, penalties, and legal liabilities.

Working at heights is a common practice in many industries, from construction to utilities. However, it also presents significant fall hazards, leading to serious injuries or fatalities if proper safety measures are not in place. To minimize these risks and ensure workers' safety, it's crucial to understand the principles of fall protection and the components of a personal fall arrest system (PFAS).

ABCs Of Fall Protection (PFAS)

The ABCs of fall protection is a common way to remember the essential components of a PFAS: Anchorage (A), body wear (B), and connecting devices (C). When used together correctly, these elements form a comprehensive system that can arrest a fall and protect the worker.



● A – Anchorage

The anchorage is a secure point of attachment for the PFAS, capable of supporting the worker and the forces generated during a fall. Anchorages can be permanent structures like steel beams or concrete columns, or temporary options like roof anchors, depending on the work environment.

Key features of anchorages:

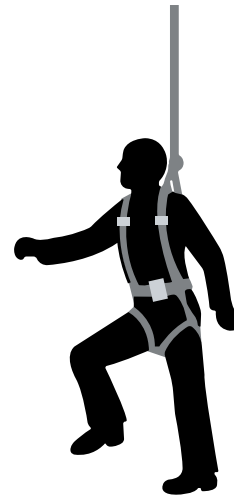
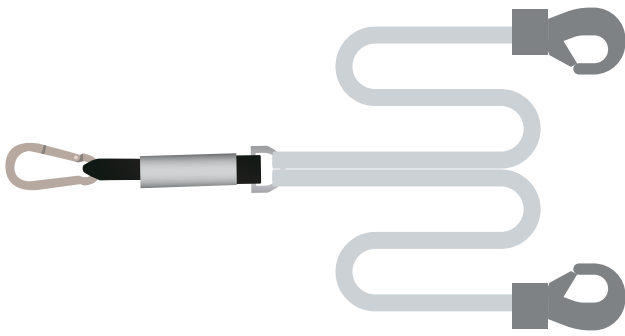
- **Strength:** Must support at least 5,000 pounds per attached worker or twice the intended load.
- **Height:** Must be positioned high enough to prevent contact with a lower level in case of a fall.
- **Location:** Ideally positioned directly overhead to minimize swing fall hazards (pendulum effect).
- **Inspection:** Requires regular inspection to ensure structural integrity and compliance with safety standards.

● B – Body Support

The body support refers to the full-body harness worn by the worker. This harness distributes the forces of a fall across the thighs, pelvis, and shoulders, reducing the risk of injury.

Key features of body support:

- **Type:** Only full-body harnesses are acceptable for fall arrest applications.
- **Fit:** Must be properly fitted to the worker for maximum protection.
- **D-rings:** Include D-shaped metal rings for connecting to the fall arrest system.
- **Inspection:** Requires pre-use inspection to check for damage or defects.



● C – Connecting devices

Connecting devices are the link between the body harness and the anchorage point. They are crucial for arresting a fall and limiting the fall distance.

Common types of connecting devices:

- **Lanyards:** Flexible lines of rope or webbing that connect the harness to the anchorage. Energy-absorbing lanyards help reduce the impact forces during a fall.
- **Self-Retracting Lifelines (SRLs):** These devices retract and extend automatically as the worker moves, minimizing free-fall distance and energy loads.

Important considerations for connecting devices:

- **Strength:** Must have a minimum breaking strength of 5,000 pounds.
- **Compatibility:** Components must be compatible with each other and the entire system.
- **Inspection:** Requires regular inspection for wear and tear.

● D – Descent and rescue

Beyond the initial "ABCs," it's crucial to acknowledge the importance of descent and rescue devices (D) in a comprehensive fall protection program. These devices are essential for safely retrieving a fallen worker after a fall arrest incident.

Types of rescue and retrieval:

- **Self-rescue:** The worker is able to ascend or descend to safety on their own.
- **Assisted self-rescue:** A co-worker assists the fallen worker in reaching a safe location using equipment like ladders or ropes.
- **Mechanically-aided rescue:** When the worker cannot participate in the rescue, mechanical equipment like aerial lifts are used.
- **Rescue pick-offs:** A more complex rescue method requiring specialized skills, where a rescuer lowers a fallen worker to safety.

Key aspects of descent and rescue:

- **Rescue Plan:** A detailed and site-specific rescue plan is mandatory to ensure a swift and effective response in case of a fall.
- **Training:** All workers, particularly those responsible for rescue, must receive proper training in using rescue equipment and executing rescue procedures.
- **Emergency Procedures:** The plan must account for potential complications like suspension trauma, which can occur when a worker is left suspended in a harness for an extended period.

Conclusion

- Understanding and properly implementing the ABCs (and D) of fall protection is paramount for ensuring worker safety in environments with fall hazards. By focusing on proper equipment selection, inspection, and rigorous training, employers can create a safer work environment and prevent serious injuries or fatalities caused by falls from height.

FallSafe™

FULL BODY
HARNESSES



What is Full Body Harness?

"A full body harness is a body holding device used to protect workers from falls by distributing the force of the fall over a large area of the body, ensuring that the subject of the fall remains suspended in an upright position after the fall has occurred."

1. Components

- **Webbing Straps:** Made of high-strength materials like nylon or polyester, these form the framework of the harness and are designed to withstand significant force.
- **Buckles:** Allow for adjustment and secure fastening of the harness straps around the body, ensuring a snug and safe fit.
- **D-Rings:** Metal attachment points, strategically placed (e.g., dorsal, sternal, side), used to connect the harness to a lanyard, lifeline, or other fall arrest system components.
- **Padding:** Often found in areas like the shoulders, legs, and waist, it enhances comfort during extended use and helps absorb the impact of a fall.

3. Usage

- **Pre-Use Inspection:** Always inspect the harness for wear, tear, or damage before each use.
- **Proper Donning:** Ensure the harness is worn correctly, with straps fitted snugly and D-rings positioned correctly, following the manufacturer's instructions.
- **Connection to Fall Arrest System:** Connect the harness to a reliable fall arrest system using appropriate lanyards and anchor points.

2. Functionality

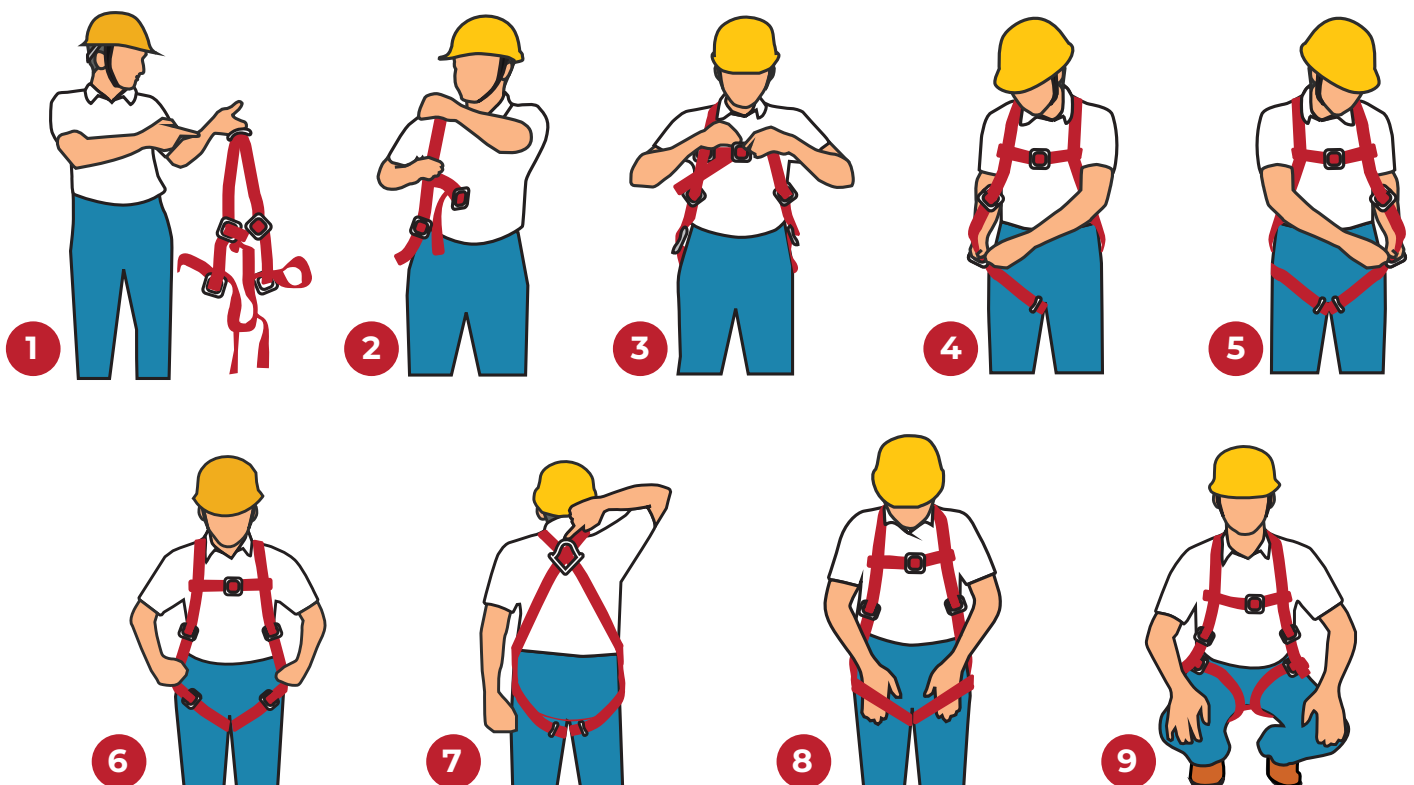
- **Fall Arrest:** In the event of a fall, the harness arrests the descent, preventing the worker from hitting the ground or other obstacles.
- **Impact Force Distribution:** The straps distribute the force of the fall across a larger area of the body, particularly the thighs, chest, and shoulders, minimizing injury risk compared to body belts.
- **Upright Position:** The harness helps maintain an upright position after a fall, which is crucial to prevent suspension trauma (orthostatic intolerance), where blood flow to the brain is restricted.

4. Importance

- **Essential Fall Protection:** Full-body harnesses are critical for worker safety in industries like construction, roofing, maintenance, and rescue operations where falls from height are a significant risk.
- **Reduced Injury Severity:** By distributing fall forces and keeping the worker upright, the harness minimizes the severity of potential injuries.
- **Increased Productivity and Comfort:** A properly fitted and comfortable harness can boost worker confidence and productivity when working at heights.

Harness Donning

A proper fit for a full-body harness is crucial for both safety and comfort. It ensures the harness effectively distributes fall arrest forces, minimizes injury risk, and allows for reasonable freedom of movement. Key factors include the location of harness rings, strap configuration, and the worker's body characteristics.



Key aspects of harness fit:

Harness Ring Location:

- The dorsal D-ring (where the lanyard attaches) should ideally be positioned between the shoulder blades, specifically between the inferior and superior borders of the scapula.
- The chest ring should be positioned at the sternum area.
- Manufacturers provide specific guidelines for ring placement, usually detailed in product manuals.

Strap Configuration:

- Shoulder straps should be snug but not constricting, and positioned to avoid slipping off the shoulders during a fall.
- Leg straps should be adjusted to prevent excessive movement or slippage, but not so tight as to cause discomfort or restrict circulation.
- Chest straps should be snug and positioned to avoid impeding breathing.

Human Body Characteristics:

- Harnesses should be selected based on the worker's weight, height, and body shape.
- Weight limits specified by the manufacturer should not be exceeded.
- Consider factors like the worker's clothing and any tools they will be carrying when determining the appropriate harness size and weight capacity.

1. The Dorsal D-ring / Back-D ring must locate in the middle of the back between the shoulder blades
2. The Sub-pelvic / Sit strap should locate close to below the buttocks and lower back.
3. The thigh straps connection buckles should locate side of the body and fit the wearer
4. The front chest strap should locate middle of the chest and ensue the firm fit of shoulder straps on shoulders.

Harness must be sized or the worker



Consequences of improper fit:

- **Increased Injury Risk:** A poorly fitting harness can concentrate fall forces on specific body areas, potentially causing serious injuries like organ damage or neurological problems or choking to death
- **Reduced Suspension Tolerance:** Improper fit can lead to discomfort and even life-threatening situations during prolonged suspension after a fall.
- **Restricted Movement:** An ill-fitting harness can hinder a worker's ability to perform tasks safely and efficiently.

At Work:

- The excess belt gets caught around

At Waiting for a Rescue

- Feel pain / discomfort
- Blood flow inhibition

Additional Considerations:

- **Visual Inspection:** All harness components should be easily visible for inspection to ensure proper functioning and prevent incorrect reassembly after dismantling.
- **Fall Arrest Forces:** The harness should distribute fall arrest forces effectively across the body, minimizing injury risk.
- **Comfort and Breathability:** While safety is paramount, comfort is also essential for prolonged use. Look for harnesses with features like breathable padding and ergonomic designs to minimize pressure points and promote airflow.

At the Event of Fall:

- The chest belt gets caught on the neck
- The back and shoulder belts are wide open and the body falls off
- The shifted belt hits the body

Types of Full Body Harness



**Class A –
Fall Arrest**

D- Ring – Back/Dorsal

Application:

- Construction Work on platform activity
- Gantry / Materials Loading & unloading area
- Warehouse / storage
- Vehicle Tarpaulin covering area
- EOT Crane Platform
- Pipeline platform area



**Class D: Controlled
Descend / Suspension
/ Rescue harness**

D- Ring – Back/Dorsal
+ Front+ Ventral + Side

Application:

- Construction Area Work on Suspension
- Vertical Suspensions activates
- Window cleaning / Painting
- Recue Operation
- Trainings activity

Applicable for multi task activates



**Class E: Confined entry
& Exit harness**

D- Ring – Back/Dorsal + Shoulders
Optional* : Front + Side

Application:

- Confined Space Entry and Exit
- Short term suspensions



**Class L : Ladder
climbing Harness**

D- Ring – Back/Dorsal

Application:

- Building Ladder Access
- Chimney Ladder Access
- Signal Towers Access
- Pipeline Ladder Access
- Tank Access Ladder



**Class P : Work
Positioning harness**

D- Ring – Back/Dorsal + Front
+ Ventral + Side

Application:

- Construction Area: Work on Scaffolds area
- Work on Towers / Poles
- Work on semi structure



Specialty harness

Specialty Nomex/Kevlar fiber Webbing
PVC coated aluminum D-ring

Application:

- Utilities: where arch flash hazard applicable.
Work on Hot Environment
- Electrical Pole
Transformers

HR10A

Class A full body harness.



Product Specification

| | |
|---------------------|---|
| Webbing Width | Min 43 mm |
| Breaking Strength | Min 23 KN |
| Attachment Elements | 1 dorsal attachment D-Ring for fall arrest |
| Chest-Strap | Adjustable |
| Thigh-Straps | Adjustable |
| User Capacity | 59 - 100 Kgs |
| Weight | ~900 +/- 100 Gms |

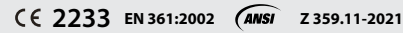
Packaging Information

| |
|--------------------|
| 1 Piece / Polybag |
| 20 Pieces / Carton |

| Product SKU | Size | Colour | Inner pack UPC | Carton GTIN |
|-------------------|------|-------------|----------------|----------------|
| BLSH-FPH-WOL-HI32 | OSFM | Red & Black | 810090089607 | 10810090089604 |

HR20A

Class A full body harness.



Product Specification

| | |
|---------------------|--|
| Webbing Width | Min 43 mm |
| Breaking Strength | Min 23 KN |
| Attachment Elements | 1 dorsal attachment D-Ring for fall arrest |
| Chest-Strap | Adjustable |
| Thigh-Straps | Adjustable |
| User Capacity | 59 - 140 Kgs |
| Weight | ~1200 +/- 100 Gms |

Packaging Information

| |
|--------------------|
| 1 Piece / Polybag |
| 20 Pieces / Carton |

| Product SKU | Size | Colour | Inner pack UPC | Carton GTIN |
|---------------|------|-------------|----------------|----------------|
| BLSH-MH-AAH-1 | OSFM | Red & Black | 810090089645 | 10810090089642 |

HR20L

Class L full body harness.



Product Specification

| | |
|---------------------|--|
| Webbing Width | Min 43 mm |
| Breaking Strength | Min 23 KN |
| Attachment Elements | 2 chest attachment D-Ring for tower climbing 1 dorsal attachment D-Ring for fall arrest |
| Chest-Strap | Adjustable |
| Shoulder Strap | Adjustable |
| Thigh-Straps | Adjustable |
| User Capacity | 59 - 100 Kgs |
| Weight | ~1400 +/- 100 Gms |

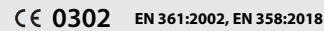
Packaging Information

| |
|--------------------|
| 1 Piece / Polybag |
| 20 Pieces / Carton |

| Product SKU | Size | Colour | Inner pack UPC | Carton GTIN |
|-------------------|------|-------------|----------------|----------------|
| BLSH-FPH-WOL-HI36 | OSFM | Red & Black | 810090089621 | 10810090089628 |

HR20LP

Class LP full body harness.



Product Specification

| | |
|---------------------|--|
| Webbing Width | Min 43 mm |
| Breaking Strength | Min 23 KN |
| Attachment Elements | 1 dorsal attachment D-Ring for fall arrest 2 front attachment D-Ring for tower climbing 2 lateral attachment D-Ring for work positioning |
| Chest-Strap | Adjustable |
| Shoulder Strap | Adjustable |
| Thigh-Straps | Adjustable |
| User Capacity | 59 - 100 Kgs |
| Weight | ~1400 +/- 100 Gms |

Packaging Information

| |
|--------------------|
| 1 Piece / Polybag |
| 10 Pieces / Carton |

| Product SKU | Size | Colour | Inner pack UPC | Carton GTIN |
|-------------------|------|-------------|----------------|----------------|
| BLSH-FPH-WOL-HI34 | OSFM | Red & Black | 810090089614 | 10810090089611 |



HR30M

Multipurpose full body harness

CE 2233 EN 361:2002, EN 358:2018, EN 813:2008



Product Specification

| | |
|---------------------|---|
| Webbing Width | Min 43 mm |
| Breaking Strength | Min 23 KN |
| Attachment Elements | 1 chest attachment D-Ring for tower climbing 1 dorsal attachment D-Ring for fall arrest 2 lateral attachment D-Ring |
| Comfort Padding | For shoulder, waist & thigh |
| User Capacity | 59 - 100 Kgs |
| Weight | ~2500 +/- 200 Gms |

Packaging Information

1 Piece / Polybag
7 Pieces / Carton

| Product SKU | Size | Colour | Inner pack UPC | Carton GTIN |
|--------------|------|-------------|----------------|----------------|
| BLSH-MH-H112 | OSFM | Red & Black | 810090089638 | 10810090089635 |

FallSafe™

CONNECTORS



CONNECTORS

In a fall protection system, a connector is the vital link that securely connects a worker's harness to an anchorage point. It's a critical part of a personal fall arrest system (PFAS), which aims to prevent falls or stop a worker safely if a fall occurs. It allows user to move with in safety area . In the event of fall, it stops the fall and prevents user from hitting with ground, the energy absorber reduces the fall impact force.

Choose the right connectors as per work application

- Fall Restraint system
- Fall Clearance
- Fall Arrest System
- Swing Fall Clearance

Common types of connectors

- **Lanyards:** These are flexible lines of webbing, rope, or cable that connect the harness to an anchor point. They can be either:
 - **Shock-absorbing lanyards:** These have a built-in shock absorber to reduce the force of impact on the worker's body during a fall.
 - **Non-shock-absorbing lanyards:** These are used for fall restraint or positioning, where the worker is prevented from reaching a fall hazard or falling a distance of less than 2 feet.
- **Self-Retracting Lifelines (SRLs):** These devices automatically retract and extend as the worker moves, keeping the lifeline taut and minimizing slack. In the event of a fall, the SRL's braking system activates, locking the lifeline and arresting the fall quickly, often within 2 feet.
- **Rope Grab Fall Arrestor:** This device is primarily used where a user requires mobility and also work in a restraint manner. Typically very useful to work on roofs alongwith lifeline systems or in façade maintenance / painting.
- **Positioning Lanyards:** It is used by user to wrap around a structure and take a sitting position while working at height. Typically used in conjunction with Bosun chair. Very commonly used by telecom tower maintenance personnel.
- **Vertical Lifeline Systems:** These allow for safe movement in vertical climbing environments, incorporating elements like rope grabs or cable-based systems that connect the worker to the lifeline.

Importance of connectors

Connectors play a crucial role in worker safety by:

- **Securing attachment:** They provide a strong and reliable link between the worker and the fall protection system.
- **Controlling fall distance:** Shock-absorbing lanyards and SRLs help to reduce the force of a fall and minimize the distance the worker drops.
- **Facilitating mobility:** SRLs, especially, offer greater freedom of movement while minimizing trip hazards.
- **Ensuring compliance:** High-quality connectors are designed and tested to meet industry standards and regulations, like those set by EN, BIS, OSHA and ANSI

Considerations for choosing the right connector

Selecting the appropriate connector depends on several factors, including:

- **Work environment:** Harsh conditions like extreme temperatures, chemicals, or electrical hazards require specialized materials or coatings for the connector.
- **Mobility needs:** The length and type of connector should allow for the necessary movement while still providing sufficient fall protection.
- **Fall clearance:** This is the vertical distance between the anchor point and any lower obstruction. The connector must be short enough to prevent the worker from impacting the lower level in case of a fall.
- **Potential hazards:** Risks like arc flash or swing falls necessitate specific types of connectors designed to mitigate those dangers.

Fall Clearance

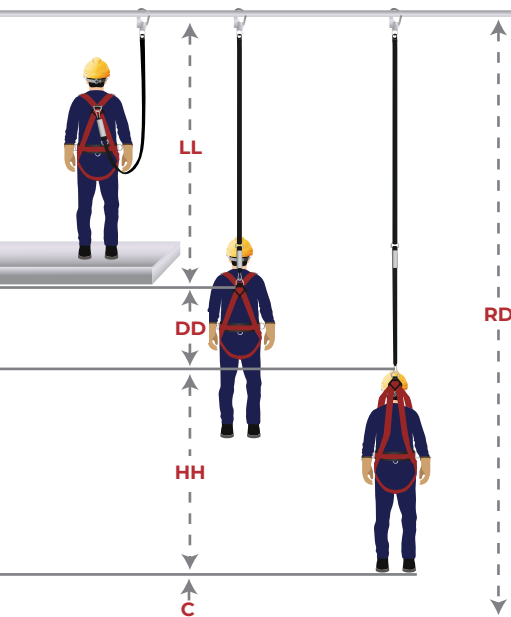
Fall clearance distance is the minimum vertical distance required to prevent a worker from contacting a lower level or obstruction during a fall. It's a critical safety factor in fall protection systems, ensuring a safe stopping distance.

1. Calculation Elements:

- **Lanyard Length:** The length of the lanyard connecting the worker's harness to the anchor point.
- **Deceleration Distance:** The distance a shock-absorbing lanyard extends to reduce the impact force during a fall.
- **Worker's Height:** The vertical distance from the D-ring on the harness to the worker's feet.
- **D-ring Shift:** The upward movement of the D-ring during deceleration.
- **Safety Factor:** An allowance for variations in equipment, movement, and potential elongation during a fall, often around 3 feet or 1 meter.

2. Formula (Simplified):

- Fall Clearance = Lanyard Length + Deceleration Distance + Worker's Height + Safety Factor



| Lanyard length | ANSI | | EN |
|--|--------------------|---------------|------------|
| | 6ft (1.8m) lanyard | | 2m lanyard |
| LL: lanyard length | 6ft (1.8m) | 6ft (1.8m) | 2m |
| DD: Deceleration Distance (Energy Absorber Deployment) | 4ft (1.2m) | 4ft (1.5m) | 1.75m |
| HH: Height of the worker | 6ft (1.8m) | 6ft (1.8m) | 2m |
| C: Safety factor | 1.5ft (0.5m) | 1.5ft (0.5m) | 1m |
| RD: Required Distance | 17.5ft (5.3m) | 18.5ft (5.6m) | 6.75m |

3. Factors Influencing the Calculation:

- **Anchor Point Location:** The position of the anchor relative to the worker impacts the fall distance. Ideally an anchor point should always be above the head or shoulder height.
- **Type of Connectors:** Lanyard / Retractable Block have different fall clearance and deceleration characteristics, affecting the calculation.
- **Worker's Weight:** Heavier workers may experience a greater deceleration distance.
- **Obstructions Below:** Any objects or surfaces within the potential fall path must be accounted for.
- **Potential for Swing Fall:** The possibility of the worker swinging into an obstruction during a fall should be considered.

Important considerations

- Always consult the manufacturer's instructions for the specific fall arrest equipment being used, as details like lanyard stretch and deceleration distance can vary.
- Account for any potential anchor point deflection or stretch, especially when using flexible anchor systems like horizontal lifelines. Consider all potential obstructions below the work area that could be impacted during a fall.
- If the available clearance is less than the calculated fall clearance, alternate fall protection methods like fall restraint systems or different anchorage points may be necessary. Or different connector will be required. For eg. If Fall Clearance is less than available for Lanyard, then Retractable Block should be used in place of Lanyard.
- A qualified person should be involved in designing and implementing fall protection systems to ensure all factors are properly assessed and calculations are accurate.

LY223

Twin-Tailed Forked Lanyard with Kernmantle Rope

CE 0302 EN 354:2010, EN 355:2002

Application

- Work at Height
- Construction Sites
- Tower
- Industrial Sites

Product Specification

| | |
|-------------------|-------------------|
| Breaking Strength | Min 23 KN |
| Rope Diameter | 12 mm |
| Rope Length | 1.8 meters |
| User Capacity | Max 100 Kgs |
| Weight | ~1800 +/- 200 Gms |

Packaging Information

| |
|--------------------|
| 1 Piece / Polybag |
| 20 Pieces / Carton |



| Product SKU | Size | Colour | Inner pack UPC | Carton GTIN |
|-------------------|------|-------------|----------------|----------------|
| BLSH-FPH-FL-HI682 | OSFM | Red & Black | 810090089652 | 10810090089659 |

LY212

Twin-Tailed Forked Lanyard with Polyamide Rope

IS 3521:2021 (PART-II)



Application

- Work at Height
- Construction Sites
- Tower
- Industrial Sites

Product Specification

| | |
|-------------------|-------------------|
| Breaking Strength | Min 23 KN |
| Rope Diameter | 12 mm |
| Rope Length | 1.8 meters |
| User Capacity | Max 100 Kgs |
| Weight | ~1200 +/- 200 Gms |

Packaging Information

| |
|--------------------|
| 1 Piece / Polybag |
| 20 Pieces / Carton |



| Product SKU | Size | Colour | Inner pack UPC | Carton GTIN |
|-------------------|------|-------------|----------------|----------------|
| BLSH-FPH-FL-HI702 | OSFM | Red & Black | 810090089669 | 10810090089666 |



RB100 Series (2 Mts)

CE 0302 EN 360 : 2023

Retractable Block - 2 Mts



Application

- Work at Height
- Construction Sites
- Tower
- Industrial Sites

Product Specification

| | |
|--------------|----------|
| Minimum Load | 05 kg |
| Maximum Load | 100 kg |
| User | 1 user |
| Length | 2 mtrs |
| Weight | 1.05 kgs |

Product SKU

BLSH-FP-RB2M

RB100 Series (6 Mts)

CE 0302 EN 360 : 2023

Retractable Block - 6 Mts



Application

- Work at Height
- Construction Sites
- Tower
- Industrial Sites

Product Specification

| | |
|--------------|---------|
| Minimum Load | 05 kg |
| Maximum Load | 100 kg |
| User | 1 user |
| Length | 6 mtrs |
| Weight | 3.6 kgs |

Product SKU

BLSH-FP-RB6M

RB100 Series (10 Mts)

CE 0302 EN 360 : 2023

Retractable Block - 10 Mts



Application

- Work at Height
- Construction Sites
- Tower
- Industrial Sites

Product Specification

| | |
|--------------|---------|
| Minimum Load | 05 kg |
| Maximum Load | 100 kg |
| User | 1 user |
| Length | 10 mtrs |
| Weight | 4.0 kgs |

Product SKU

BLSH-FP-RB10M

RB200 Series (15 Mts)

CE 0302 EN 360 : 2023

Retractable Block - 15 Mts



Application

- Work at Height
- Construction Sites
- Tower
- Industrial Sites

Product Specification

| | |
|--------------|---------|
| Minimum Load | 05 kg |
| Maximum Load | 100 kg |
| User | 1 user |
| Length | 15 mtrs |
| Weight | 6.5 kgs |

Product SKU

BLSH-FP-RB15M

RB200 Series (20 Mts)

CE 0302 EN 360 : 2023

Retractable Block - 20 Mts



Application

- Work at Height
- Construction Sites
- Tower
- Industrial Sites

Product Specification

| | |
|--------------|---------|
| Minimum Load | 05 kg |
| Maximum Load | 100 kg |
| User | 1 user |
| Length | 20 mtrs |
| Weight | 7.7 kgs |

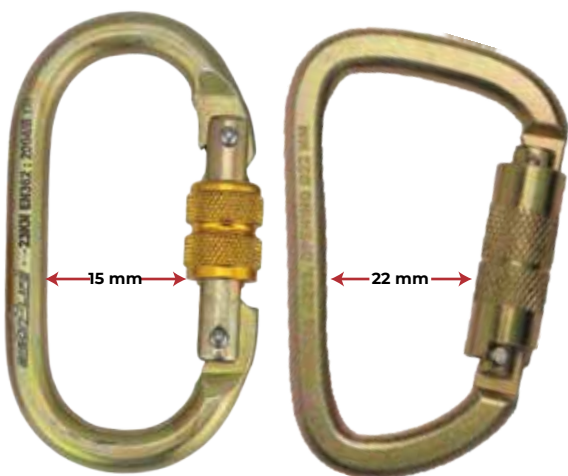
Product SKU

BLSH-FP-RB20M

* Available in different lengths

Karabiner / Twist Lock Connector

CE EN 362:2004 Class B



Application

- Rope Access
- Rescue
- Mountaineering

Product Specification

| | |
|-------------------|--------------------|
| Material | High Tensile Steel |
| Breaking Strength | 23kN |
| Weight | 267 gms |

Snap Hook

CE EN 362:2004/ ANSI Z359.1 2, Class A



Application

- Rope Access
- Rescue
- Mountaineering

Product Specification

| | |
|-------------------|--|
| Material | Alloy Steel / High Tensile Alloy Steel |
| Breaking Strength | 20kN / 23kN |
| Weight | 205.3 gms |

Swivel Hook with Indicator

CE EN 362:2004



Application

- Rope Access
- Rescue
- Mountaineering

Product Specification

| | |
|-------------------|----------------------------|
| Material | Alloy Steel |
| Breaking Strength | 23kN |
| Finish | Yellow/ Golden Passivation |
| Weight | 345.5 gms |

Scaffolding Hook

CE EN 362:2004, Class A



Application

- Rope Access
- Rescue
- Mountaineering

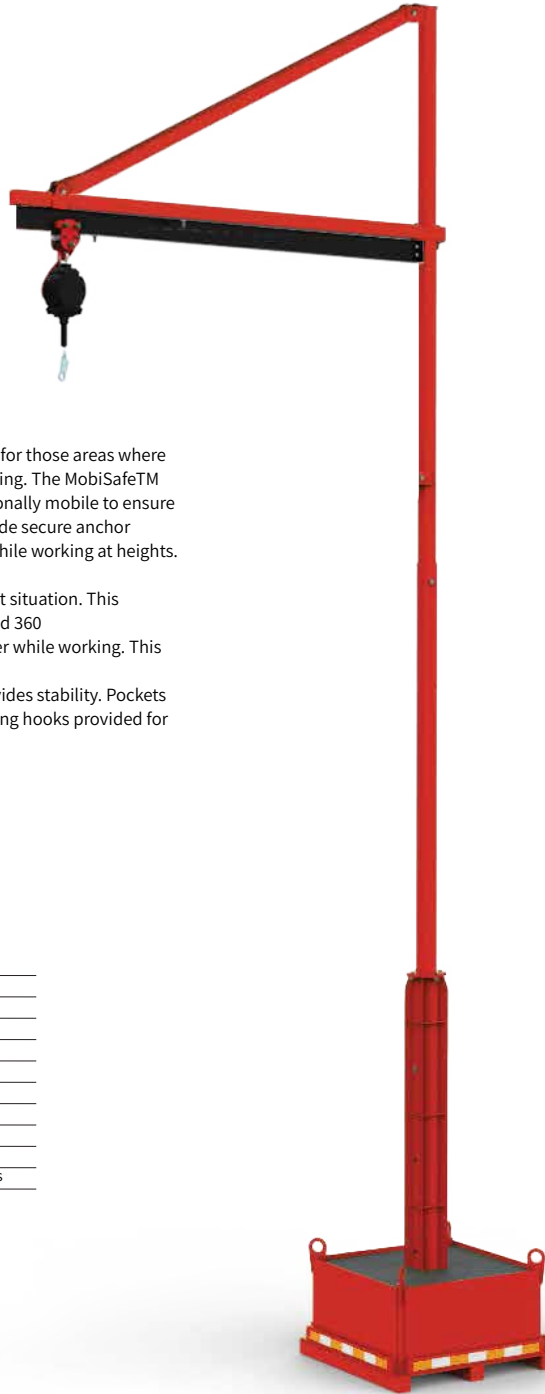
Product Specification

| | |
|-------------------|------------------------------|
| Material | Alloy Steel / Aluminum Alloy |
| Breaking Strength | 23kN |
| Weight | 485 +/- 10 gms |

ENGINEERED MOBILES
ANCHORAGE SYSTEMS



MS100



Fixed Counter Pod system

MobiSafe™ Fixed Counter Pod System is perfectly designed to provide anchorage for those areas where overhead obstructions such as high-tension cables, EOT, etc. may prevent anchoring. The MobiSafe™ Fixed Counter Pod System was designed to be versatile, lightweight, and exceptionally mobile to ensure worker safety in various challenging situations. Our preengineered systems provide secure anchor points and spacious safe working areas to help the worker to focus on the work while working at heights.

This system is capable of supporting the weight of only one worker in a fall arrest situation. This MobiSafe™ Fixed Counter Pod System is available with single point anchorage and 360 degree of rotatable, providing optimal mobility and reliable fall protection for user while working. This mobile system is classified for single users and can be installed for permanent or temporary use. Specially designed counterweight box filled with RCC or PCC provides stability. Pockets provided to allow forklift access for lifting. Additional four heavy duty lifting hooks provided for easy lifting.

Product Specification

| | |
|-----------------------------|---|
| Anchor Height | 6 meter |
| Cantilever Length | 2 meter |
| Size of Counterweight Base | 1 x1 Meter |
| Counterweight | RCC/ PCC Filled Approx 900 Kgs. |
| Anchorage | Single Point Anchor |
| Lifting Arrangement | Forklift Pocket and Four Lifting Hook |
| Max. Number of Users | 1 Person |
| Max. Weight Capacity | 150 kg |
| Power Required for movement | Forklift/ Overhead Crane |
| Material of Construction | High strength steel sections |
| Compatible Devices | Retractable Fall arrest block with Full body safety harness |

Product SKU

BLSH-AS-MS100

Key Features

- Overhead anchorage provides safety at height work; an effective, economical fall arrest system.
- Single Point Anchor for anchorage and RCC/ PCC filled Counterweight Box.
- Telescopic Mast can be adjustable using overhead crane or forklift.
- 360 Degree Rotatable Mast with Superior durability and weather resistance.
- Pockets for Forklift access and additional four lifting hook provided for portability.
- Superior durability and weather resistance.
- Suitable for Mining Industries, General Industrial, Transportation Industries, Construction Industries.

Industries

- Mining Industries
- General Industrial
- Transportation Industries
- Construction Industries

MS101

Mobile Counter Weighted Pod system

MobiSafe™ Mobile Counter Weighted Pod System is perfectly designed for areas where there is limited space or insufficient overhead anchoring structures. The MobiSafe™ Mobile Counter Weighted Pod System was designed to be versatile, lightweight, and exceptionally mobile to ensure worker safety in various challenging situations. Our pre-engineered systems provide secure anchor points and spacious safe working areas to help the worker to focus on the work while working at heights.

This system is capable of supporting the weight of only one workers in a fall arrest situation. MobiSafe™ Mobile Counter Weighted Pod System is available with single point anchorage and 360 degree of rotatable mast and trolley Mounted System Providing optimal mobility and reliable fall protection for user while working. This portable system is classified for single users and can be installed for permanent or temporary use. Specially designed metal counterweight block with handle facilitates removal of the counterweight. The trolley mounted system allows for easy portability. Four heavy duty jacks are provided for extra stability.

Product Specification

| | |
|---|---|
| Anchor Height | 6 meter |
| Cantilever Length | 2.5 meter |
| Size of Counterweight Trolley/ Carriage | 2 x 1 Meter |
| Counterweight | 40 nos of Metal Counterweight Blocks (20kgs Each) |
| Anchorage | Single Point Anchor |
| Lifting Arrangement of Mast | Overhead Crane or Forklift (One Time process) |
| Max. Number of Users | 1 Person |
| Max. Weight Capacity | 150 kg |
| Power Required for movement | One Person |
| Material of Construction | High strength steel sections |
| Compatible Devices | Retractable Fall arrest block with Full body safety harness |

Product SKU

BLSH-AS-MS101



Key Features

- Overhead anchoring provides safety at height work; an effective, economical fall arrest system.
- Single Point Anchor for anchorage and Metal Counterweight Block with handle.
- 360 Degree Rotatable Mast can be adjustable using overhead crane or forklift.
- Wheels made of Cast iron core and Pu molded for better grip and portability on uneven surfaces.
- Locking system for steer handle and three wheel type steer system for easy moving of system.

Industries

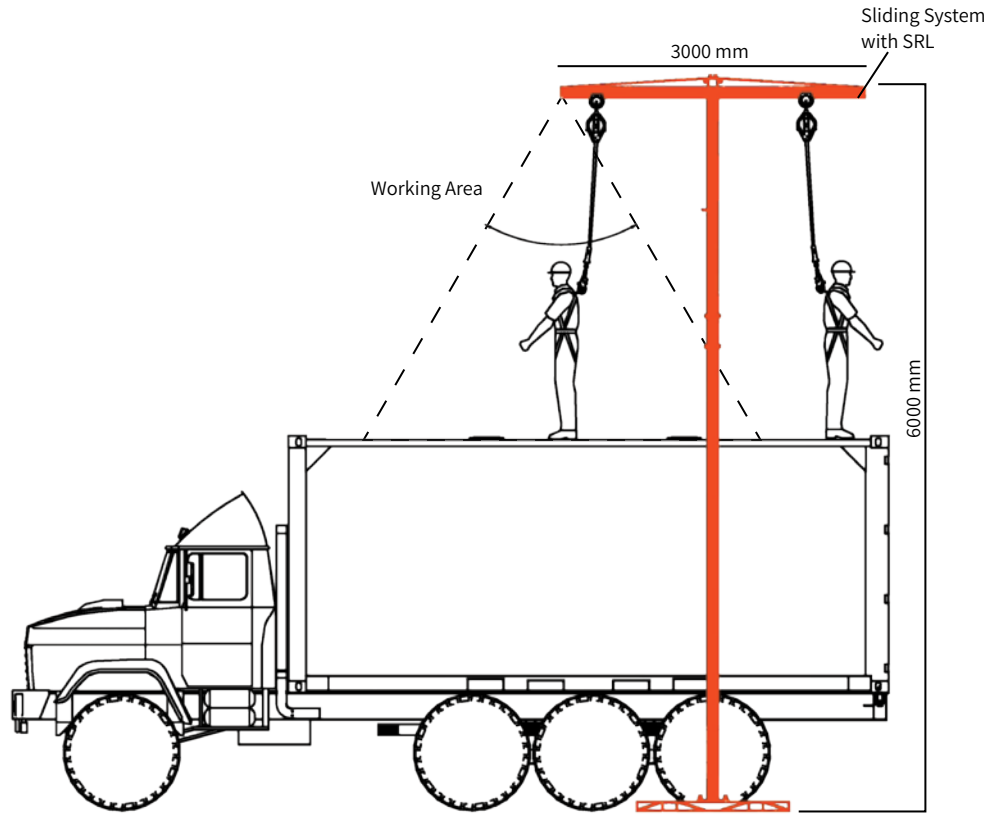
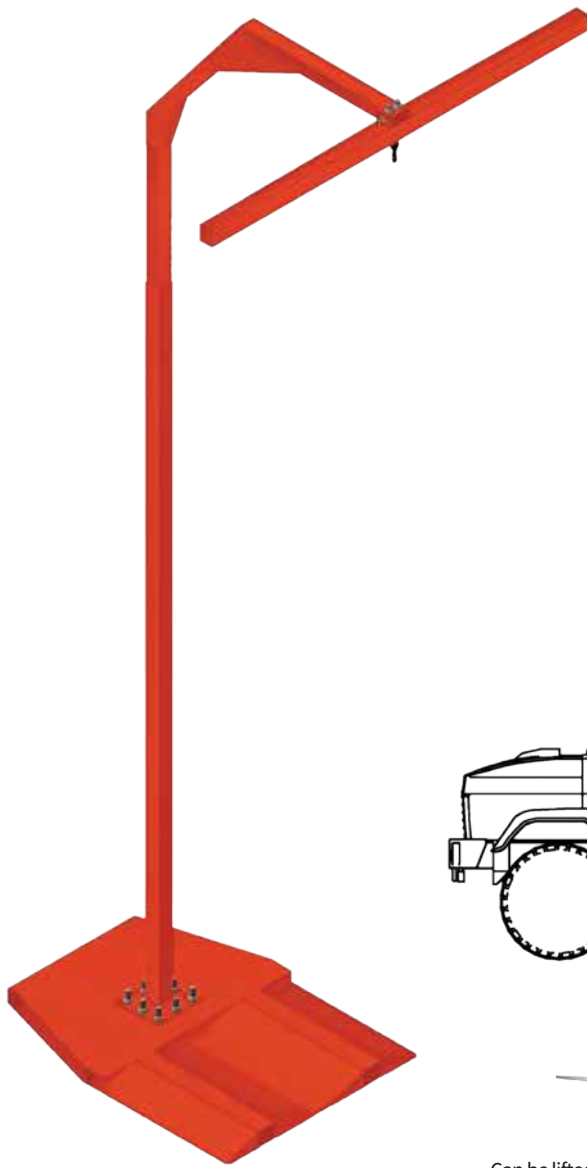
- Railway workshops
- Mining Industries
- General Industrial
- Transportation Industries
- Construction Industries

MS102

CE EN 795:2012 Type B & CLASS E

Mobile Truck Counter weighted Anchor system

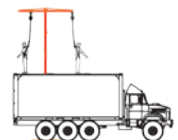
MobiSafe™ Mobile Truck Counter weighted Anchor system provides a fixed overhead anchor point for two workers up to 6 meters in the air and uses the weight of your truck/fork lift as counterweight.



Can be lifted & moved around by any standard forklift. Portable and easy to store



Just drive truck/forklift onto the built-in wheel ramp for proper orientation of tire



Once vehicle is secured, pull the tagline of Self Retractable & anchor to back D ring of harness

Product SKU

BLSH-AS-MS102

Key Features

- Quick assembly
- Avoids free fall
- Versatile & convenient
- Easy to manoeuvre

Product Specification

| | |
|-----------------------------|---------|
| Weight | 1030kg |
| Working Height (max) | 6.5m |
| Anchor Point Capacity (max) | 140kg |
| Allowable Users (max) | 2 Users |
| Width | 2.3m |
| Reach | 5.5m |

Industries

- Railway workshops
- Logistic
- General Industrial
- Construction Industries

MS200

Mobile Counter Weighted system

MobiSafe™ Mobile Counter Weighted System is perfectly designed to provide anchoring for those areas where overhead obstructions such as high-tension cables, EOT, etc. May prevent anchoring. MobiSafe™ Mobile Counter Weighted System was designed to be versatile, lightweight, and exceptionally mobile to ensure worker safety in various challenging situations. Our preengineered systems provide secure anchor points and spacious safe working areas to help the worker to focus on the work while working at heights.

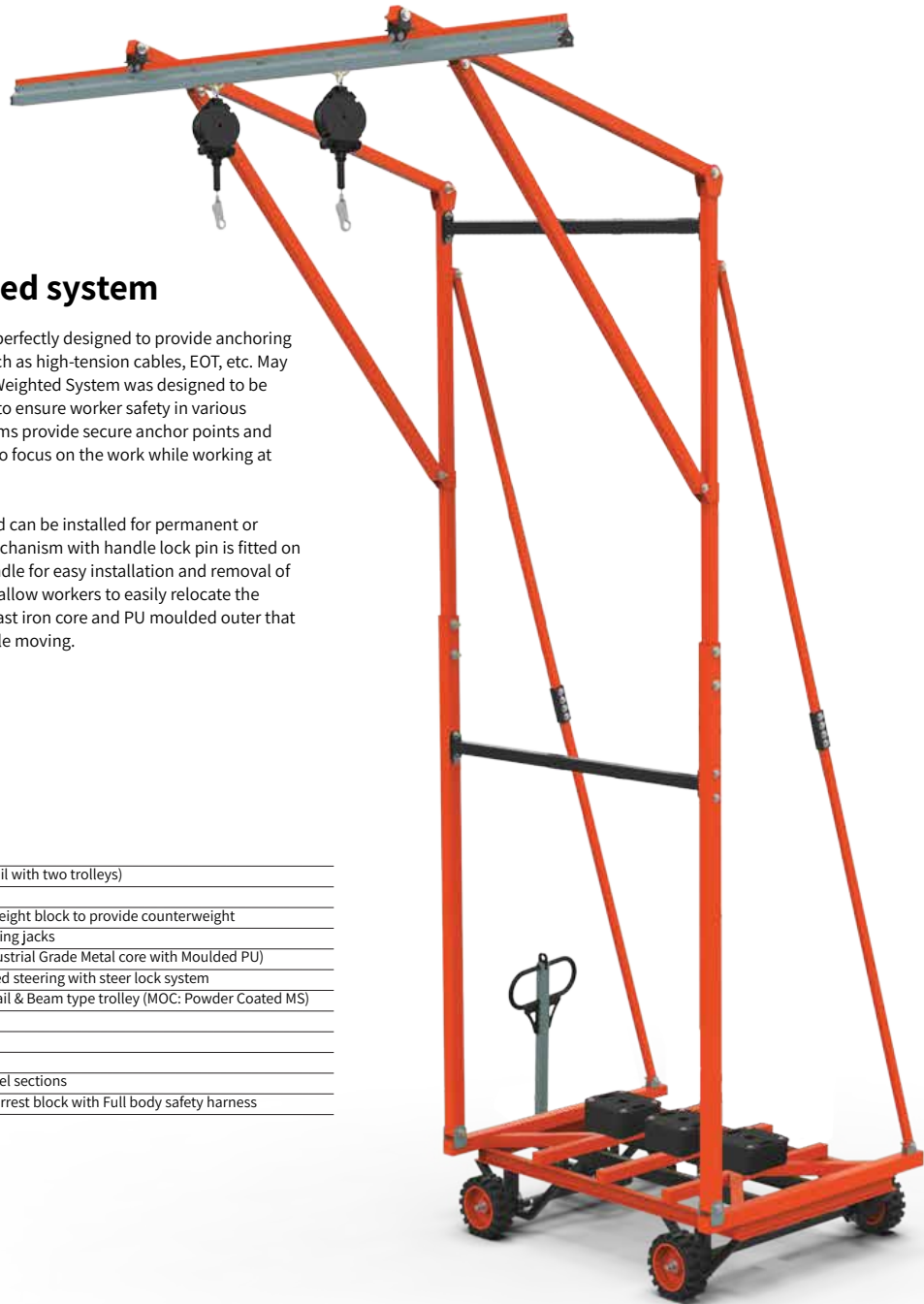
This mobile system is classified for two users and can be installed for permanent or temporary use. A specially designed steering mechanism with handle lock pin is fitted on the front side of the device. Metal block with handle for easy installation and removal of counterweight. Industrial grade durable wheels allow workers to easily relocate the portable structure as needed. The wheel has a cast iron core and PU moulded outer that makes it easy to not damage floor and quite while moving.

Product Specification

| | |
|-----------------------------|---|
| Anchor Height | 6 meter |
| Rail Length | 5 meter (single rail with two trolleys) |
| Size of Base Trolley | 2 x 1.2 meter |
| Counterweight | 48 nos of 20 kg weight block to provide counterweight |
| Height Adjustment Foot | Heavy duty levelling jacks |
| Wheel | 7" Diameter (Industrial Grade Metal core with Moulded PU) |
| Steering Type | Specially designed steering with steer lock system |
| Trolley & Stopper | Beam Channel Rail & Beam type trolley (MOC: Powder Coated MS) |
| Max. Number of Users | 2 Person |
| Max. Weight Capacity | 190 kg |
| Power Required for movement | 2 Person |
| Material of Construction | High strength steel sections |
| Compatible Devices | Retractable Fall arrest block with Full body safety harness |

Product SKU

BLSH-AS-MS200



Key Features

- Overhead anchoring provides safety at height work; an effective, economical fall arrest system.
- Rigid rail system reduces fall clearance requirements
- Wheels made of Cast iron core and Pu molded for better grip and portability on uneven surfaces.
- Locking system for steer handle and three wheel type steer system for easy moving of system.
- Metal block with handle for easy installation and removal of counterweight.
- Specially designed beam trolley for easy movement along the beam channel.
- Superior durability and weather resistance.
- Suitable for Railway workshops, General Industrial, Transportation Industries, Construction Industries.

Industries

- Railway workshops
- General Industrial
- Transportation Industries
- Construction Industries

MS201

Mobile Platform Systems

MobiSafe™ Mobile Platform Systems is perfectly designed for areas where there are insufficient overhead anchoring structures. MobiSafe™ Mobile Platform Systems was designed to be versatile, lightweight, and exceptionally mobile to ensure worker safety in various challenging situations. Our pre-engineered systems provide secure anchor points and spacious safe working areas to help the worker to focus on the work while working at heights.

This system is capable of supporting the weight of two workers in a fall arrest situation. This system is available with single rail and double trolley for optimal horizontal mobility and Reliable fall protection for two users while working. We offer a height-adjustable and extendable type access platform with a telescopic ladder to suit site conditions so that you can easily access the work area.

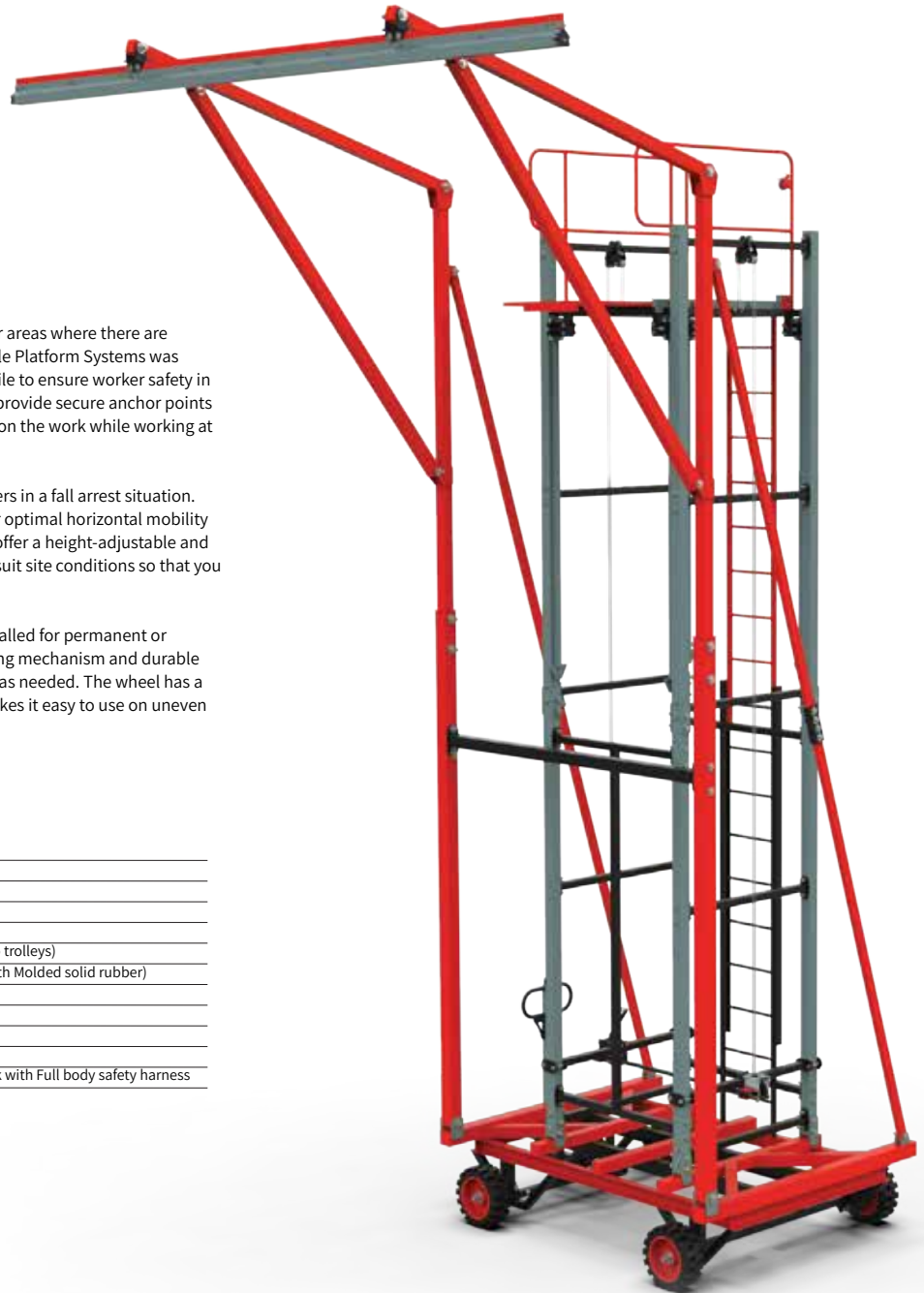
This mobile system is classified for two users and can be installed for permanent or temporary use. A specially designed automobile- type steering mechanism and durable wheels allow workers to easily relocate the mobile structure as needed. The wheel has a fabricated steel rim and Solid rubber moulded outer that makes it easy to use on uneven surfaces.

Product Specification

| | |
|-------------------------------------|---|
| Anchor Height | 7.5 meter |
| Size of Base Trolley | 2.5 x 2 meter |
| Size of Platform | 1.2 x 1 meter |
| Height Adjustment Range of Platform | 4 meter to 6 meters |
| Max. Extension length of Platform | 1 meters |
| Rail Length | 5 meter (single rail with two trolleys) |
| Wheel | 16" (Fabricated steel rim with Molded solid rubber) |
| Max. Number of Users | 2 Person |
| Max. Weight Capacity | 190 kg |
| Power Required for movement | 2 Person |
| Material of Construction | High strength steel sections |
| Compatible Devices | Retractable Fall arrest block with Full body safety harness |

Product SKU

BLSH-AS-MS201



Key Features

- Overhead anchoring provides safety at height work; an effective, economical fall arrest system.
- Height adjustable and extendable platform with telescopic ladder provides easy access to the work area.
- Self-locking type manual operated worm winch for platform height adjustment.
- Wheels made of solid rubber for better grip and portability on uneven surfaces.
- Built-in automobile type steer mechanism for easy turning of trolley and stability of towers.
- Superior durability and weather resistance.
- Suitable for Mining Industries, General Industrial, Transportation Industries, Construction Industries.

Industries

- Mining Industries
- General Industrial
- Transportation Industries
- Construction Industries

MS300

Mobile Anchorage Systems

MobiSafe™ mobile anchorage systems is perfectly designed to provide anchoring for those areas where overhead obstructions such as high-tension cables, eot, etc. May prevent anchoring. Our pre- engineered systems provide secure anchor points and spacious safe working areas to help the worker to focus on the work while working at heights.

This mobile anchorage systems is classified for two users and can be installed for permanent or temporary use. A specially designed steering mechanism with a steer lock system is fitted on all four sides of the device. Which means it eliminates the need to turn and move the entire structure. Industrial grade durable wheels allow workers to easily relocate the portable structure as needed. The wheel has a cast iron core and pu moulded outer that makes it easy to not damage floor and quite while moving.

Product Specification

| | |
|-----------------------------|---|
| Anchor Height | 6 meter |
| Rail Length | 3 meter (single rail with two trolleys) |
| Length of Leg Member | 3 meter |
| Height Adjustment Foot | Heavy duty levelling jacks |
| Wheel | 7" Diameter (Industrial Grade Metal core with Moulded PU) |
| Steering Type | Specially designed steering with steer lock system on all four side of system |
| Trolley & Stopper | Rail trolley made of SS 316 grade & spring loaded stopper |
| Max. Number of Users | 2 Person |
| Max. Weight Capacity | 190 kg |
| Power Required for movement | 2 Person |
| Material of Construction | High strength steel sections |
| Compatible Devices | Retractable Fall arrest block with Full body safety harness |



Product SKU

BLSH-AS-MS300

Key Features

- Overhead anchoring provides safety at height work; an effective, economical fall arrest system.
- Rigid rail system reduces fall clearance requirements
- Wheels made of Cast iron core and Pu molded for better grip and portability on uneven surfaces.
- Built-in Locking type steer mechanism mounted on all four sides for easy moving of system.
- Superior durability and weather resistance.
- Suitable for Railway workshops, General Industrial, Transportation Industries, Construction Industries.

Industries

- Railway workshops
- General Industrial
- Transportation Industries
- Construction Industries

SMART SAFETY
SOLUTIONS



Vo⚡Detec™

NON-CONTACT VOLTAGE DETECTOR

V200



The V200 is a lightweight, wearable non-contact voltage detector that identifies live sources or leaks from a safe distance. With visual/audio alarms and versatile mounting on helmets, arm, or PPE, it ensures maximum worker safety from electrical hazard

Product Specification

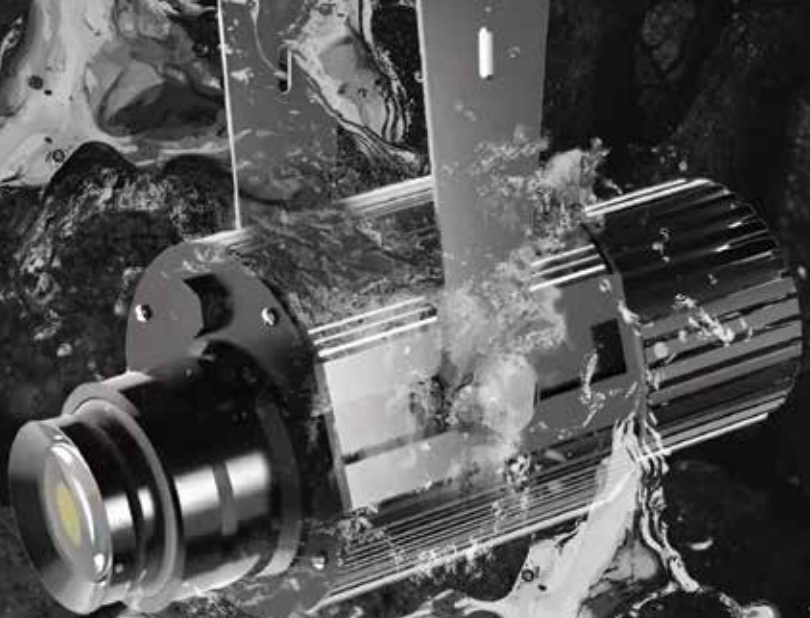
| | |
|------------------------|--|
| Material | ABS |
| Operating Temperature | 10°C to 50°C |
| Storage Temperature | -20°C to 60°C |
| Dimensions | 60x62x34mm |
| Weight | 50g |
| Battery type | Li-ion Battery |
| Capacity | 600 mAh |
| Type of Charging | Rechargeable |
| Charging Time | 1 Hour |
| Input Voltage | Upto 2.9V |
| Runtime | 60 hours (Varies as per use) |
| Low Battery indication | <20% Blinking LED, <5% Beeping Pattern |

Safety & Compliance



- Tested and certified by the National Test House (NTH), Kolkata
- Tested and certified by the ERDA, Gujarat

SafeWalk™ SIGNAGE PROJECTOR



IP67 WATER PROOF

6 HD CLEAR LENSES



FAN RAPID COOLING



REMOTE CONTROL



Customized Pictograms Available

In industrial settings, signage projectors are used to project visual safety, directional, or operational information directly onto surfaces like floors, walls, or equipment. These projectors are increasingly replacing traditional painted signs and stickers, especially in environments where durability, visibility, and adaptability are key.

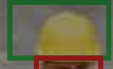


Product Specification

| | |
|--------------------------------|---------------------------------------|
| Lifespan (Hours) | 50000 hours |
| Working Time (Hours) | 50000 hours |
| Light Source | LED |
| Input Voltage (V) | AC 110V (± 10%)/AC 220V (± 10%) |
| Lamp Luminous Efficiency(lm/w) | 50 |
| Working Temperature (°C) | 30°C - 50°C |
| Working Lifetime (Hours) | 50000 hours |
| Lamp Body Material | Aluminum Alloy |
| Power | 60 w /100 w/150 w/300 w/600 w. |
| Projection Distance | 2- 20 Meters |
| Function | Gear drive/can stand still and rotate |
| Specification | L23cm* W17cm* H18cm |
| Luminous flux (lumen) | 8100LM |
| Lens Type | Ultra- clear full coating lens |
| Remote control | Available |
| Waterproof | Waterproof IP67 |

AI POWERED WORK PLACE SAFETY SOLUTIONS

✓ Safety Helmet



✗ Safety Goggles Missing



✗ Safety Gloves Missing



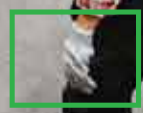
✓ Safety Shoes



✓ Safety Helmet



✓ Safety Gloves



✓ Safety Shoes





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