

# Industrial Safety Overview

## Portfolio Overview

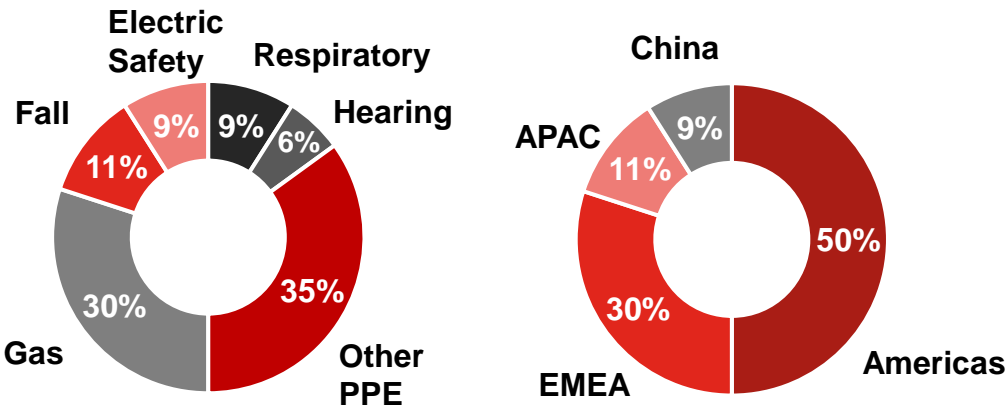
Personal Protection Equipment (PPE)



Stationary Detection



## Business Mix



## Highlights

- ✓ Trusted brands protecting 500M+ workers globally
- ✓ #1 and #2 positions in key safety segments
- ✓ Investing in technology for performance, comfort, and fit

# Most complete Head-to-Toe offering in PPE Space

**Honeywell**

*The Best Brands Now With The Power of Honeywell*

## Product Portfolio:

Safety refers to the control of recognized hazards in order to achieve an acceptable level of risk. PPEs are required to safeguard workers from various hazards in the workplace as well as improve their productivity.

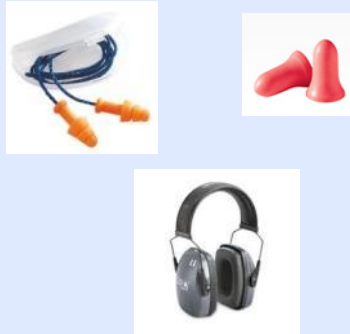
### Eye, Face and Head Protection



#### Unmatched Scope of Offerings

- Spectacles
- Goggles
- Face Shields
- Hard Hats
- Bump Caps

### Hearing Protection



#### Winning Technology

- Disposable Ear Plugs
- Reusable Ear Plugs
- Passive Ear Muffs
- Active Ear Muffs

### Respiratory Protection



#### Protection where it matters the most

- Disposable Masks
- Self Contained Breathing Apparatus
- Half Face and Full Face Masks
- Supplied Air Respirators
- Powered Air Purifying Respirators
- Escape Devices

### Hand Protection/Protective Clothing



#### Comprehensive Safety Solutions

- General Handling Gloves
- Cut Protection Gloves
- Chemical Protection Gloves
- Thermal Protection Gloves
- Dry Box Gloves
- Disposable Clothing

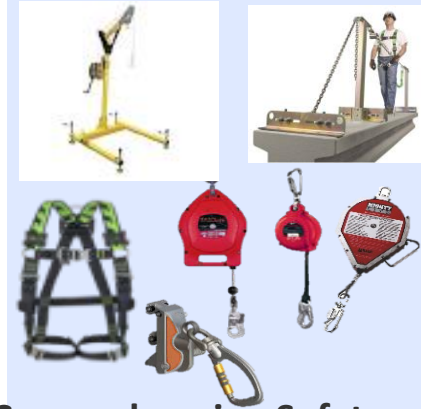
### Foot Protection



#### Protection, comfort, well being and durability

- Single Density Shoes
- Rugged Double Density Shoes
- Sporty Shoes
- High Ankle Shoes

### Fall Protection







#### Comprehensive Safety at Height

- Horizontal Lifeline Systems
- Vertical Lifeline systems
- SRL and Harnesses
- Confined Space Solutions – Durahoist, Skyorb
- Emergency Rescue equipment – Quickpik, Safescape

THE WORK WE DO **SAVES LIVES**

# Main standards

	<b>EN 420</b>	<b>General Requirement</b> <b>Size – Dexterity – Innocuousness - Marking</b>
	<b>EN 388</b>	<b>Mechanical Risks (4 tests) :</b> <b>Abrasion – Cut – Tear – Perforation (ACTP)</b>
	<b>EN 407</b>	<b>Thermal Risks (6 tests)</b> <b>Flame behavior – Contact heat – Radiant heat – Convective heat – small and large splashes of molten metal</b>
	<b>EN 511</b>	<b>Cold risks :</b> <b>Convective cold – contact cold – permeability (CCP )</b>
	<b>EN 374</b>	<b>Degradation, penetration, permeation against chemical product</b>

# EN Standard Evolution and Update

- **Difference between New EN Standards and New Regulations**

- The New PPE regulation is a European directive that is defining the frame and rules of PPE usage, including standards conformity.
- Standards are rules defining how products should be tested to be compliant and sellable on the European market

- **New in the EN 388**

- In the New EN 388, two tests have been added: ISO 13997 and an impact test.
- ISO 13997 is a method to measure with more precision the cut resistance of the glove.
- The impact test will demonstrate if products that are claiming impact protection have passed or failed the test.

- **Recognition of the ISO 13997 TDM test**









- ISO 13997 has been recognised as a more reliable test method than the Coupe test because of the issue of blade dulling with the Coupe test
- *Coupe test method has been maintained at this time to ensure continuity of information in the near future*

- **A test for impact protection has also been added to the standard**

- **Improvement of abrasion test with new abradant paper – 100 Grit to 180 Grit**






# CUT Level Matrix – Solution for Cut C

Our industrial cut-resistant gloves are now reinforced with the Honeywell Spectra® fibre, most commonly used in fishing line and rope, bullet-resistant armor for US and European militaries and law enforcement

Details	PU	PU	PU	PU	PU	Nitrile	Nitrile	Nitrile
Part No.	2332545	2318768	2318771	2342545	2232523	2342555	NFD35X	2232524
Image								
Name	Check & Go 5	Vertigo Grey PU C&G 5	Vertigo Grey PU Long C&G 5	Vertigo Black PU C&G 5	Sharpflex PU	Vertigo Black NIT C&G 5	Oil Grip NFD35X	Sharpflex Nit
Characteristics	Polyamide/HPPE fibre/Elastan / Outside glass fibre. Green polyurethane coating	Spectra®/polyamide. Grey polyurethane coating	Spectra®/Lycra® / Outside glass fibre. Grey polyurethane coating. Long Cuff – 11cm	Polyamide/ Spectra® fibre/Elastan. Glass outside Black polyurethane coating	para-aramid, polyamide, composite fibre, black polyurethane coating	Polyamide/ Spectra® fibre/Elastan. Glass outside Black nitrile coating	Knitted Dyneema®/white/green glass fibre, 3/4 nitrile double coating	para-aramid, polyamide, composite fibre, black nitrile coating
Standards	EN388:4543	EN388:4543	EN388:4543	EN388:4543	EN388:4541	EN388:4543	EN388:4543	EN388:4542 EN 407: X1XXXX
Application	Specially developed for workers handling : white goods manufacturing, electronic	Specially developed for workers handling white goods manufacturing, electronics	Specially developed for workers handling white goods manufacturing, electronics	Specially developed for workers handling : white goods manufacturing, electronic	Handling heavy objects with the risk of cuts	Specially developed for workers handling in dirty environment.	- Handling of very sharp objects with sharp edges require good dexterity and tactility - Handling of damp and slippery objects such as steel rods and sheet metal	Automotive. • Small and large household appliances. • Logistics. • Glass, perfumery. • Construction (plumbing, carpentry).
Key notes	The palm & fingers coating is also in color for an easier visual recognition of the cut protection level	Level 3 and 5 are made with the Spectra® fibre from Honeywell, a high-performance-polyethylene (HPPE) fibre, one of the strongest and lightest manmade fibres in the world	Level 3 and 5 are made with the Spectra® fibre from Honeywell, a high-performance-polyethylene (HPPE) fibre, one of the strongest and lightest manmade fibres in the world	The palm & fingers coating is also in color for an easier visual recognition of the cut protection level	Good value for money, high quality, reliable cut resistance. • Excellent dexterity	Level 3 and 5 are made with the Spectra® fibre from Honeywell, a high-performance-polyethylene (HPPE) fibre, one of the strongest and lightest manmade fibres in the world	- Excellent protection against cuts (level 5). - Excellent dexterity. - The fresh touch of Dyneema® provides a feeling of comfort.	Good value for money, high quality, reliable cut resistance. • Excellent dexterity. • Lightweight thermal protection (100°C) thanks to Kevlar



# Thermal protection gloves

Strongotherm	Crystal heavy	Supertherma	Foundry M20	Blue Welding
				
EN388, EN407	EN388, EN407	EN388, EN407	EN388, EN407	EN388, EN407, EN12477
<ul style="list-style-type: none"> <li>• Lightweight loop pile cotton thermal resistant gloves up to 100°C</li> <li>• Cut and sewn glove with 100% cotton knit wrist . Ideal for contact heat protection up to 100°C</li> </ul>	<ul style="list-style-type: none"> <li>• Thermal hazards and contact heat up to 200°C</li> <li>• The reinforced back offers mechanical protection</li> </ul>	<ul style="list-style-type: none"> <li>• Thermal hazards and contact heat up to 500°C</li> <li>• 100 % Kevlar® glove</li> <li>• Triple thick palm, thumb and fingers back</li> <li>• 130 mm cuff in double thickness</li> </ul>	<ul style="list-style-type: none"> <li>• Cowhide heat-resistant leather glove</li> <li>• Gunn cut, sewn-on thumb</li> <li>• gauntlet type</li> <li>• Cotton/viscose hand liner</li> <li>• Cotton cuff liner</li> </ul>	<ul style="list-style-type: none"> <li>• Gunn cut, winged thumb, gauntless</li> <li>• Interior lined with cotton padding</li> <li>• Yoke at thumb, fingertips and hand stitching Palm</li> </ul>

## Applications:

- Automotive industry, automotive equipment suppliers.
- Paper industry.
- Glassware.

- Metallurgy and foundry.
- Plastic industry
- Welding Metal parts

# DURAHOIST DH-1

## Adjustable Mast

The Miller DuraHoist DH-1 confined space davit arm system is the most versatile and robust confined space rescue system. Unlike a tripod system, Miller DuraHoist davit system has enormous flexibility in application.

It's modular design can be configured to fit a variety of sized and shaped confined space entry points. You can also easily mount multiple winches and/or lifeline systems. Usually, where a tripod rescue system won't cut it, this will do the job.

Despite its size, it does feature manageable components for easy storage, transport, and set-up. There are no tools required for assembly.

### Features:

- Designed for manhole and confined space entry/retrieval and fall arrest applications
- System breaks down into four lightweight aluminum components for easy storage, transport, and set-up.
  - No tools required for assembly.
- Modular design allows the use of various fixed and portable bases and an optional mast with extensions.
  - Multiple winches and/or lifeline systems may be mounted as required.
    - Includes 8442/65 ManHandler winch w/65' cable.
    - Mast can be use with any other DuraHoist mounts.



Mast  
assembly-  
14 kg



Winch  
+Bracket-  
19kg



Portable Base

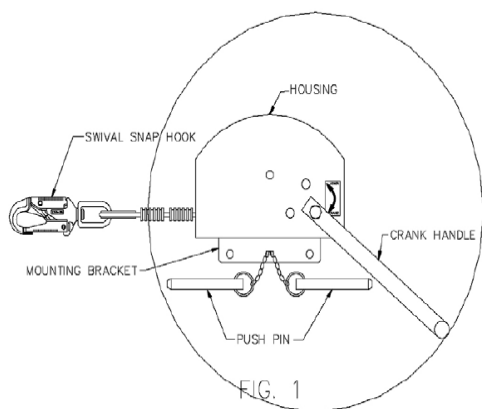


Base  
Centre-  
13.6 kg



# CONT ...

## MILLER MANHANDLER HOIST



- Essential solution for a variety of lifting and handling activities
- A secondary fall arrest system is recommended for fall protection
- 159 KG Working capacity
- Compact durable steel construction
- Effortless lifting and lowering with 5:1 gear ratio
- Anti backlash crank handle braking system
- Wt- 18.2-20.9 kg
- With galvanized steel or stainless steel cable
- Length: 20 mtr – 30 mtr

## MILLER MIGHTEVAC SELF RETRACTING LIFE LINES



Kevlar  
rope for  
Glass  
Reactor

- 20% lighter than competitive models provides significant long-term savings and lowers cost of ownership.
- 140 KG weight capacity
- For emergency evacuation only
- Combines the superior performance and reliability of miller mightylite SRK with quick activating retrieval mechanism for emergency evacuation.
- Best suitable for emergency evacuation only
- Wt- 17.7 – 29 kg
- Best features: SRL+ WINCH + Auto rewinding
- With galvanized steel, stainless steel and Kevlar rope cable
- Length: 15, 12.2, 24, 30, 40 mtrs