THE SAFETY WORKERS NEED. THE COMFORT WORKERS WANT.

Honeywell PPE Solutions for the Utilities Industry

A study from safety consulting firm DEKRA Organizational Safety and Reliability showed workers in the utility industry are at an increased risk of serious injuries and fatalities (SIFs) compared to other industry workers. Further, the study found that workers in utilities had a SIF exposure rate of 32 percent, compared with 25 percent for all industry workers.[1]

Honeywell

THE DANGERS OF POWER

The utilities industry, which includes electricity, communication, gas, water and sewage, is among the most critical industries for the U.S. economy and way of life. It's also among the most dangerous for workers — particularly those involved in power generation, transmission and distribution.

The U.S. Bureau of Labor Statistics (BLS) reports that the incidence rate for nonfatal injuries in the electric power transmission, control and distribution sector was 74.3 per 10,000 full-time workers in 2020.[2] That's not surprising given the vast array of risks workers face, including handling energized equipment and working in situations that can put them high off the ground, in extreme temperatures or at risk of falling objects, flying debris and arc flashes.

According to OSHA, the most important hazards associated with utility work include:

- Electrocution
- Falls
- Confined spaces
- Fires and explosions
- Sprains, strains and fractures
- Environmental stress

Avoiding, minimizing and mitigating these risks requires a multi-pronged approach, which includes safety training, adherence to OSHA requirements and other standards and, importantly, the use of reliable, well-designed and comfortable personal protective equipment (PPE).

Honeywell PPE solutions are engineered to meet the safety needs of workers across all utilities and in a variety of work environments. They're also designed for comfort and convenience, so workers will be more likely to wear them appropriately and throughout their entire shifts.

1. https://www.dekra.com/en/higher-serious-injuries-and-fatalities-sif-exposure-rate-in-utilities-sector-than-other-industries/
2. https://www.bls.gov/iif/oshwc/osh/case/cd_r8_2020.htm

ENGINEERED FOR COMPLIANCE AND COMFORT

There's a wide variety of PPE available for use in the utilities industry.

However, PPE that meets relevant OSHA requirements and other industry standards is more likely to provide the necessary protection that enables workers to do their jobs safely and with less risk of bodily harm.

Among other OSHA standards, the following apply to the utilities industry:

- Electrical – General Requirements (1910.303)
- Electrical – Wiring Methods, Components and Equipment for General Use (1910.305)
- Electric Power Generation, Transmission and Distribution (1910.269)
- Personal Protective Equipment, Subpart I (1910)
- Fall Protection (1926.501)
- Hazard Communication (1910.1200)
- Respiratory Protection (1910.134)
- Control of Hazardous Energy (1910.147)
- Excavations (1926, Subpart P)
- OSHA Technical Manual (OTM) Section V Chapter 2, Excavations: Hazard Recognition in Trenching and Shoring

Other standards to be aware of include:

- National Electrical Safety Code® (NESC®)
- NFPA 70E®, Standard for Electrical Safety in the Workplace®
- 1584-2018 - IEEE Guide for Performing Arc-Flash Hazard Calculations

When it comes specifically to PPE, however, it's difficult to get workers to comply with standards and mandates for PPE usage if the equipment isn't comfortable. PPE is historically known to be hot and irritating after prolonged use.

Honeywell's PPE solutions incorporate features that make them compliant with a variety of industry and regulatory standards, as well as comfortable. By listening to what workers want, Honeywell delivers what they need.

EYEWEAR:
HONEYWELL UVEX AVATAR™

Uvex Avatar safety glasses are ideal for use in the utilities industry where workers' eyes are at risk from numerous hazards, including debris and exposure to electrical hazards or electrical arcs.

The Uvex Avatar line is designed with the needs and comfort of the worker in mind. They're comfortable and customizable for every facial profile with eight points of adjustability and the use of Multi-Material Molding Technology® (MMT) at every touchpoint. They're also stylish with a sleek, modern design and choice of four colors and five lens tints.

FEATURES

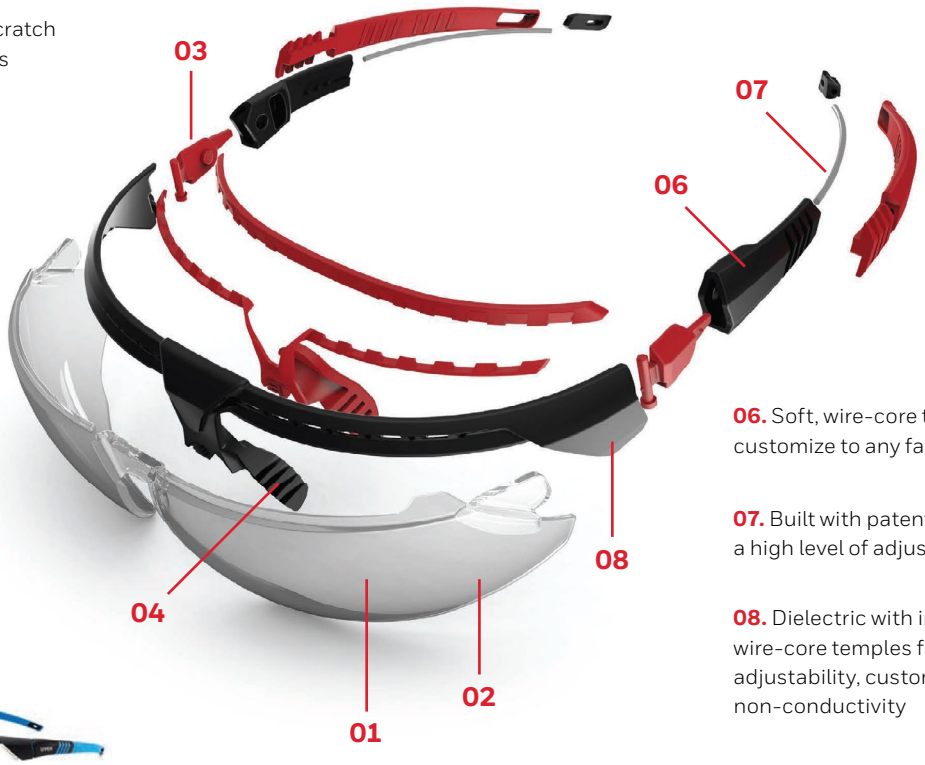
01. HydroShield® anti-fog and anti-scratch hard coat polycarbonate lens coatings

02. 9-base, ultra-light wrap-around lens and ¾ soft brow frame with indirect venting

03. Ratchet lens with angle-adjustable temple length and 15-degree lens inclination

04. Flexible nose pads to fit any nasal profile and reduce slippage

05. Available in four frame colors and five lens tints



06. Soft, wire-core temples to customize to any facial profile

07. Built with patented MMT for a high level of adjustability

08. Dielectric with insulated wire-core temples for increased adjustability, customizability and non-conductivity

99.9% UVB/UVA filtering

Certified to meet ANSI/ISEA Z87.1-2020

Tested by Honeywell to meet CSA Z94.3

HARD HATS:
E-1 FULL BRIM

The E-1 Full Brim model, part of Honeywell's Fibre-Metal® SuperEight™ SwingStrap™ line of hats and caps, is among the most comfortable hard hats available. It combines a 360° padded sweatband with the head-hugging stability and easy adjustment of a ratchet headband.

The non-vented, Type 1, Class E hard hat includes a full brim to help protect the face and neck from the sun, reduce glare and help shed rain. It also provides additional protection from vertical impacts, falling debris, and high-voltage conductors (up to 20kV).

The smooth crown design contains a technically advanced suspension with eight load-bearing points to stabilize and balance the hat during everyday wear. On impact, the hat dissipates force, spreading it over a greater area to reduce the risk of failure at any one point.

FEATURES

01. High-quality thermoplastic

02. Smooth crown design with 8-point suspension to reduce the danger of falling objects

03. Full brim design for protection from the sun's harmful UV rays, rain and falling debris

04. Equipped with soft, padded terrycloth sweatband

05. Headband can be tilted to a comfortable angle while the cap remains level and can also be raised, lowered or moved front-to-rear within the shell

06. Adjust head size by using rear-located ratchet mechanism and tilting the headband

Complies with ANSI Z89.1 Type 1, Class E, G and C

Available in a wide range of popular, high-visibility colors and full graphic designs

**For side impact protection when facing hazards like tree limbs and debris, consider the A119 Full Brim, Class E, Type 2 hard hat*

SAFETY HARNESS: REVOLUTION ARC FLASH-RATED HARNESS

The Revolution Arc Flash-Rated Harness provides exceptional protection when working at height from arc flashes and arc-blast exposure, as well as from the falls they can cause. It's also ideal for confined space projects when workers are near energized electrical sources.

The harness webbing is designed for safety as well as comfort. It features the durability and fire-retardant properties of Kevlar® on the outer side and the use of softer, fire-retardant Nomex® on the inside for greater comfort. The webbing assures arc protection and durability that surpasses that of any nylon webbing.

In addition, the PivotLink™ design allows unmatched freedom of motion and comfort while the unique cam buckles provide easy two-finger adjustment. The Kevlar web loop on the back pad provides a non-metal connection when using a Kevlar shock-absorbing lanyard with a choke-off loop.

FEATURES

01. Kevlar/Nomex Miller DualTech™, patent-pending, 10,000 lb tensile strength webbing

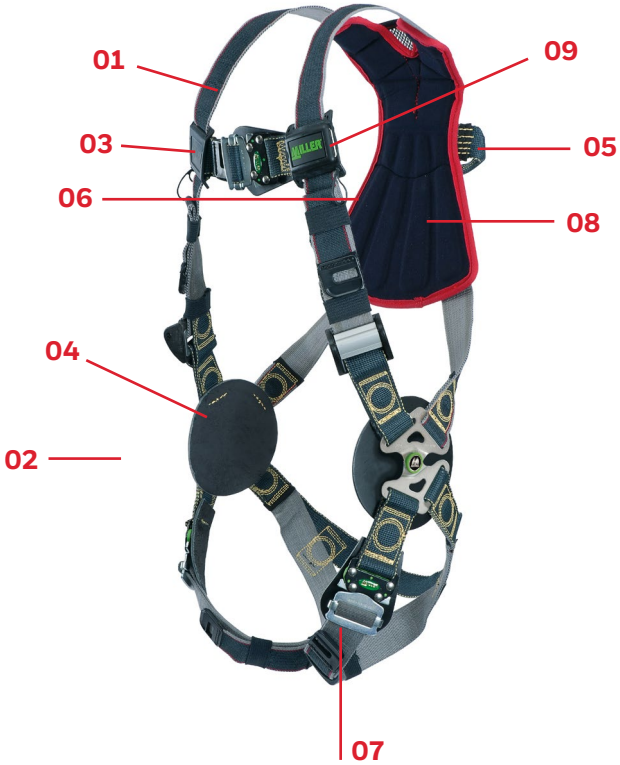
02. PivotLink design allows unmatched freedom of motion and comfort

03. Unique cam buckles provide easy two-finger adjustment

04. Leather insulators under all metal hardware offer additional protection for the worker

05. Kevlar web loop on the back pad allows for a "metal-less" connection when used with a Kevlar shock-absorbing lanyard with a choke-off loop

06. Bright red binding on every pad, making it easily identifiable as an arc-rated product



07. Web Finials - clip-on design safely organizes webbing after proper adjustment

08. ErgoArmor™ Back Shield minimizes impact from sharp/heavy snap hooks and self-retracting lifelines

09. Self-contained pack encapsulates labels minimizing damage and loss

Meets stringent ASTM F887-20 Arc-Flash standards and applicable OSHA, ANSI and CSA requirements

Modular attachment design provides connection points for belts, tools, accessories

**For applications where arc protection is not required, but you are still facing extreme temperatures and require high levels of comfort and mobility, consider the Honeywell Miller H700 Premium Harness with built-in relief straps and improved breathability, heat and pressure dispersion.*

A COMMITMENT TO SAFETY

There are 675,775 people employed in the utilities industry in the U.S. as of 2022. Honeywell is committed to helping keep them safe with a broad range of safety solutions, including PPE.[3]

From protective eyewear and hard hats to arc-rated harnesses, these safety solutions incorporate leading-edge technologies, materials and design to offer optimal product reliability and protection against risks such as falls, arc blasts and flying debris.

They're also engineered for maximum comfort to enable workers to perform more confidently at heights, below the ground, in confined spaces, in extreme temperatures and wherever else they must work.

Honeywell draws upon worker input, ongoing research and its own vast industry experience to develop solutions that promote wearability and safety, help increase employee productivity and efficiency and minimize potential fatigue and distractions stemming from discomfort.

Learn about Honeywell's full line of safety solutions for the utilities industry, as well as for numerous others, at https://sps.honeywell.com/us/en/products/safety.

3. https://www.ibisworld.com/industry-statistics/employment/utilities-united-states/#:~:text=There%20are%20675%2C775%20people%20employed,years%20

For more information
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THE FUTURE IS WHAT WE MAKE IT

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