

FROM ESSENTIAL TO ERGONOMIC SAFETY

A SAFETY HARNESS E-GUIDE
TO IMPROVE WORKER EXPERIENCE
AND COMPLIANCE

Honeywell
MILLER

KEEPING WORKERS AT HEIGHT SAFE, HEALTHY AND SUPPORTED

Proven with statistical research, safety harnesses save lives for workers-at-height. However, for a harness to work, it must be worn properly. A body harness that is not properly worn and adjusted is almost as dangerous as not wearing one at all.

Training is key. This video can help to educate workers on how to put on a Miller H500 harness.



It's not just the height that's dangerous

Long hours spent in a restrictive, non-ergonomic heavy harness can lead to muscular fatigue due to restricted freedom of movement, overexertion, repetitive tasks, load exposure, sweat and heat build-up. This can cause or contribute to critical errors, such as eyes and mind not on the task and bad posture, leading workers to be less compliant with their harness (incorrect fit and adjustment, etc.) which may increase the risk of musculoskeletal disorders (MSDs) and falls.

Heat stress plays a role

Occupational exposure to heat can result in injuries, disease, reduced productivity, and death¹. Moreover, evidence indicates that heat stress is an increasing problem for many workers¹. The Occupational Safety and Health Administration have identified Warehousing as one of the industries in which workers have suffered heat-related illnesses². The Health and Safety Executive UK provides guidance on heat stress in the workplace.³

THE HONEYWELL ADVANTAGE



-  Specially formulated webbing flexes to **accommodate movement and body contours** for optimum comfort around legs and shoulders.
-  New patented shoulder/back padding design **minimises overhead muscular fatigue** (overexertion).
-  **Three times more breathable** compared to the next best alternative (less water vapour resistance – RET)
-  New side-adjustment straps for a **better, ergonomic fit.**

“Best-in-class” anatomically and **ergonomically designed pressure-relief breathable shoulder/back padding** keeps workers drier and cooler

Lighter-than-ever harnesses.

81K Work-related ill health cases (new or long-standing) in 2020 in the UK. 57% were musculoskeletal disorders.⁴

44M EU workers suffer from musculoskeletal disorders (MSDs).⁵

2% GDP⁶ Total cost of lost productivity attributable to MSDs among people of working age in the EU could be as high as

Wearing a harness takes a toll on the worker's body

Then there are the strains the worker puts on his/her body when wearing a safety harness: work postures and movements, repetitiveness and pace of work, vibration, temperature and force of movements. These strains often result in MSDs and impact both the cost and health of the worker. MSDs are the most common occupational illness in Great Britain and affect one million people a year and account for more than 40% of RIDDOR-reported 'over-3-day' injuries in warehouses.⁷

Developing the next-generation safety harness

It is clear that manufacturers must do better. And they can do better for their workers with next-generation safety harnesses. In developing the Honeywell Miller® H500 Series of safety harnesses, Honeywell recognized the need for change after considering the breadth of research surrounding overexertion, heat and musculoskeletal disorders. This extensive study revolutionized a new generation of safety harnesses, the Miller® H500 Series, around four key worker-centric value drivers: ergonomic safety, usability, style and performance.



HONEYWELL MILLER® H500 HARNESSSES AIMING BEYOND COMPLIANCE

The Honeywell Miller® H500 Series integrates evidence-based “best-in-class” anatomically and ergonomically designed pressure-relief breathable padding for more comfort and freedom of movement, and introduces a variety of other new smart and intuitive safety features.

The harnesses synthesize safety, quality and comfort. Whereas some other harnesses may protect workers from serious injury at the expense of their long-term well-being, the Honeywell Miller® H500 aims beyond compliance – making their jobs easier and keeping workers safer and more comfortable. Honeywell’s commitment is to provide harnesses that are both safe and ergonomically comfortable.

1. DHHS (NIOSH) Publication No. 2016-106
2. OSHA, <https://www.osha.gov/heat-exposure>, retrieved 28.07.22
3. HSE UK, INDG451, <https://www.hse.gov.uk/pubns/indg451.htm>
4. Construction Statistics in Great Britain, 2020
5. U.S. Bureau of Labor Statistics
6. <https://musculoskeletalkey.com>
7. HSE guide HSG76, Second Edition (2007), pg 53

For More Information

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