

WEARABLE TECH USE CASES: MANUFACTURING



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WEARABLE USE CASE EXAMPLES MANUFACTURING



MākuSafe is proud to work with manufacturers and industrial organizations globally. Our clients range from heavy industrial to light manufacturers, fabricators, assembly, millwork, consumer goods, and more.

9 SPRAIN/STRAIN

Equipment Manufacturer

Based on motion data collected by the MākuSafe wearable, a safety manager was able to identify an employee using an implement with excessive, repetitive force. The safety manager took action on this 'Good Catch' and addressed how the job could be performed differently before an injury occurred.

POTENTIAL LOSS AVOIDANCE: \$30K avg.



A worker who is responsible for running an industrial power washer was routinely experiencing 200%+ of his allowable sound dosage within the first few hours of his shift (8 hour time weighted average as specified by OSHA.) Safety leadership took note of the hazard and hearing protection was reevaluated for this role.

POTENTIAL LOSS AVOIDANCE: \$10K-\$30K



SPRAIN/STRAIN Commercial Textiles

The MākuSafe wearable identified high force unclassified push/pull motion from an aging worker. The safety manager discussed with the worker and learned that the heavy cart they pulled all day from area to area had damaged casters. They noted the hazard and assigned to maintenance.

POTENTIAL LOSS AVOIDANCE: \$12K-\$25K

SPRAIN/FRACTURE Steel Foundry

Shift Supervisor was notified of a hazardous motion via MākuSmart. The Supervisor and Safety Director discussed the incident with the worker and determined he tripped on the new small ergonomic mat in his work area. Larger mats were deemed as more appropriate, and replacements made.

POTENTIAL LOSS AVOIDANCE: \$46K avg.

AIR QUALITY ISSUE

Safety leader noticed high TVOC's/CO2 detected. Discussion between the shift supervisor and worker pointed to raw materials from a supplier smelling differently. They created a plan to leave a voice memo whenever material smelled unusual to track quality concerns through production, and address the supplier issue.

POTENTIAL: ???



WEARABLE USE CASE EXAMPLES

MANUFACTURING

EXERTION INJURY

Commercial Textiles

Safety leader compared workers in the same job role across 4 different sites that have deployed MākuSafe. Based on the motion data gathered, they were able to see that workers at one location were doing their job 750% more physically than the other locations!

POTENTIAL LOSS AVOIDANCE: ???



SPRAIN/FRACTURE Food Packaging

A worker used a voice memo first thing one morning to report slick surface throughout their entire department. The safety manager determined the wrong paint was used on the floor. The maintenance team had used a gloss paint with no "grit" added, posing a slip/trip/fall risk.

POTENTIAL LOSS **AVOIDANCE:** \$46K avg. per occurrence





A production line worker used the voice memo feature on her wearable to recommend adding padding to a machine where her co-worker had bruised her arm. The safety manager investigated the situation and found this to be widespread among workers. Padding was installed. Listening to workers also uncovered a process improvement suggestion which eliminated an awkward lifting motion.

POTENTIAL LOSS AVOIDANCE: ???

SPRAIN/STRAIN

Equipment Manufacturer

A worker's wearable picked up hazardous motion when an employee was using a potentially hazardous force to repeatedly swing parts from a pallet to a shelf.

POTENTIAL LOSS AVOIDANCE: \$30K avg.



MākuSafe customer success team reviewed movement data using the MākuSmart analytics platform and contacted a shift supervisor who in turn interviewed the employee. The employee indicated they had indeed slipped and fallen during their normal work station process.

POTENTIAL LOSS **AVOIDANCE:** \$46K avg.

SPRAIN/FRACTURE CPG Manufacturer

A production worker was removing plastic wrap/packaging from a pallet, stepped on the plastic wrap and fell to the ground. The shift supervisor validated that the employee did indeed trip and fall but was not injured. A change was implemented to make the process safer.

POTENTIAL LOSS AVOIDANCE: \$46K avg.