



**ACCUMAX**  
SOLUTIONS

# Anti-Vibration Standing Mat



## **Case Study:** Anti-Vibration Mat Designed for Underground Jumbo Drill Deck

**Company:** WESTAUZ Mining Pty Ltd

**Location:** Kalgoorlie, WA

### **The Problem Identified**

Upon visit to our valued client, WESTAUZ Mining Pty Ltd, it was reported that Operators of the Underground Jumbo machines were experiencing extreme fatigue and discomfort. To increase overall safety, our team worked with the HSEQ&T Group Manager to source a solution.

Exposure to whole body vibrations is commonly experienced by drivers, operators and passengers in mobile plant when travelling over uneven surfaces. Whole body vibrations can cause or make worse:

- Cardiovascular, respiratory, neurological, endocrine and metabolic changes
- Digestive problems
- Reproductive organ damage in both men and women, and
- Impairment of vision, balance or both

Discomfort, fatigue and other problems when work activities are being performed. This can lead to other incidents.



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Together, we committed to sourcing or manufacturing a product that would address the identified issues. The desired outcome needed to achieve the following:

- Enhance safety, reducing long-term effects of vibration
- Reduce repetitive vibration through the machine floor, resulting in increased comfort for the Operator
- Improve ergonomics to eliminate musculoskeletal injuries
- Enhance personnel performance resulting in increased productivity
- A solution that is durable, easy to install and requires minimal maintenance

Human vibration exposure has been one of the top five health hazards at mine sites for more than a decade, both by the number of workers harmed and worker compensation figures.

### The Solution

Our team undertook significant research to source a customisable solution that would achieve the desired outcomes. In understanding that our already stocked anti-fatigue mats are renowned for reducing pressure through joints and creating comfort whilst standing for long periods, it had to be an adaptation of that product.



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With no standard on the shelf product to fit the jumbo booms, we manufactured our own. Another example of our team committed to seeking a solution that will deliver safety for our client's personnel.



Built from closed-cell, longstanding Nitrile rubber, the mat compresses when it is placed under pressure, keeping the body in gentle motion to improve circulation and joint lubrication.



Vibration through the floor is absorbed by the mat, mitigating the travelling of the vibration through the body.



Crafted specifically to suit the floor dimensions of the single and double boom, the fit is snug to eliminate the risk of travelling noise and vibration.



Durable due to its heavy duty closed cell foam rubber material, it withstands wear and tear as well as the force of pressure cleaning



Resistant to oil or any fluids, and as a temporary fixture it is removeable from the machine, convenient and easy to wash



Self-extinguishing; suitable for preventing the risk of fire and can be used safely in hot works





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## Testimonial

“ We recently procured an anti-vibration mat solution for our single boom jumbo from Accumax. To say we are satisfied would be an understatement. The product has not only significantly reduced the vibration levels but also greatly improved the overall comfort and safety factor.

With Accumax's solution, our operators can now work for extended periods without any discomfort or fear of long-term health issues related to vibration exposure. We have been particularly impressed with the quality of the mat itself – it is durable, easy to install and requires minimal maintenance.

The team at Accumax were professional and understanding of our needs. They took the time to understand our situation and provided a solution that was perfect for us. Their customer service was exceptional, with prompt responses and timely delivery.

I highly recommend Accumax.

”

- Paul Clark, HSEQ&T Group Manager

## The Accumax Story

Accumax is an innovative company with global reach that cares about your safety. Over the last decade and a half, we have grown exponentially in both team members and product services and offerings. We strive to help businesses and the people working in them through passionate leadership, extensive industry knowledge and a good understanding of product applications.

### Safety Is Our Speciality

Accumax is committed to reducing risk in Australian workplaces. Organisations could easily avoid many workplace accidents with improved risk management products and a better overarching understanding of risk prevention. Therefore, our continued ambition is to provide innovative safety solutions, tailored to our customer's specific needs, to create the lowest-risk environment possible for your employees.



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