

Analisis penilaian postur pekerja manual handling proses strapppada paper Bag division pabrik semen dengan virtual environment modeling = Analysis for manual handling work posture evaluation of strapping process on paper bag division cement plant using virtual environment modeling

I Gusti Ayu Kusumawardhani, author

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Abstrak

Penelitian ini membahas tentang analisis ergonomi dalam ruang kerja pekerja manual handling di sebuah perusahaan produsen semen. Analisis tersebut dilakukan dengan metode Posture Evaluation Index (PEI) yang mengintegrasikan nilai LBA, OWAS, dan RULA serta metode NIOSH Lifting. Analisis postur kerja dilakukan melalui simulasi model virtual environment pada software Jack 6.1.

Hasil penelitian ini berupa penilaian segi ergonomi terhadap postur pekerja bagian strapping di divisi paper bag dan rekomendasi alat bantu manual handling yang mampu memperbaiki penilaian postur pekerja sehingga dapat mengurangi risiko yang dapat menyebabkan muskuloskeletal disorder pada pekerja.

.....This study discusses the ergonomic analysis of manual handling workers at a cement producing company. The analysis was performed by using Posture Evaluation Index (PEI), which integrates the value of LBA, OWAS, and RULA, and using NIOSH Lifting method. Posture analysis was done using virtual environment simulation in the Jack 6.1 software.

The result is a posture assessment of strapping worker on the Paper Bag Division and recommendations of manual handling tool that can improve posture assessment so that the risks that may cause musculoskeletal disorders in workers can be reduced.