Human vibration dan occupational noise assessment pada penggunaan portable power tools oleh pekerja konstruksi = human vibration and occupational noise assessment on the use of portable power tools by construction workers

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Abstrak

ABSTRAK
Getaran lengan dan tangan serta kebisingan merupakan faktor fisika yang memiliki potensi bahaya bagi kesehatan pekerja konstruksi dimana salah satunya disebabkan oleh penggunaan portable power tools. Berdasarkan hal tersebut dilakukan analisis terhadap durasi maksimum penggunaan portable power tools yang aman melalui standar dari keputusan menteri tenaga kerja no. KEP-51/MEN/1999 berikut langkah lain bagi pengendalian getaran dan kebisingan. Pendekatan yang digunakan yaitu human vibration assessment berdasarkan ISO 5349-2 (2001) dan pengukuran occupational noise. Hasil penelitian menyarankan durasi penggunaan alat yang optimal dan aman adalah ketika dihitung berdasarkan nilai pajanan getaran dengan syarat pekerja wajib menggunakan alat pelindung dengar dengan spesifikasi tertentu.
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Abstract
Hand-arm vibration and noise are physical factors which have hazard potentially to the health of construction workers, which is one of them cause by the use of portable power tools. Based on this, analysis was performed on the maximum safely usage time of portable power tools through the standards of the labor minister's decision no. KEP-51/MEN/1999 along with other steps for controlling vibration and noise. The approach used is human vibration assessments based on ISO 5349-2 (2001) and occupational noise measurement. The results suggest that the optimum and safe usage time is a value that calculated based on vibration exposure on the condition of workers required to use hearing protective devices with a particular specification.