

**ANALISIS ERGONOMIKA PENGGUNAAN RICE COMBINE
HARVESTER BAGI OPERATOR PADA PEMANENAN PADI**

INTISARI

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Penelitian ini bertujuan untuk menguji ergonomika mesin *rice combine harvester* secara fisiologis dan mekanis serta besarnya beban kerja terhadap operator. Adapun yang menjadi latar belakang penulisan ini yaitu pada tahun 2015 sarana mesin pasca panen *rice combine harvester* sudah banyak beredar di seluruh Indonesia sebagai salah satu bentuk bantuan pemerintah, namun risiko yang mungkin berdampak pada operator belum diteliti secara ilmiah.

Pengumpulan data dilakukan dengan pengukuran langsung di lapangan, wawancara dan kuesioner *Nordic Body Map* yang diisi langsung oleh operator. Analisa yang dilakukan yaitu dengan cara analisa Tabel dan grafik, perhitungan secara empiris, serta perbandingan data pengukuran dengan standar Peraturan Menteri Kesehatan Nomor 70 tahun 2016.

Hasil penelitian ini diperoleh bahwa adanya keluhan otot muskuloskeletal yang dirasakan oleh operator, operator hanya boleh dikenai pajanan getaran *rice combine harvester* selama 1,0146 jam kerja dan hanya 1,5 jam kerja untuk paparan kebisingan. Fisiologi kerja operator *rice combine harvester* berkategori ringan hingga sedang. Sedangkan tingkat kebersihan partikulat debu masih tergolong aman bagi lingkungan kerja.

Kata kunci : ergonomika, *rice combine harvester*, fisiologi kerja, pajanan getaran, dan paparan kebisingan

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ERGONOMIC ANALYSIS OF RICE COMBINE HARVESTER FOR OPERATOR ON RICE HARVESTING

ABSTRACT

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This research aims to test the ergonomics of rice combine harvester physiologically and mechanically as well as the amount of work load to the operator. As for the background of this writing is that in 2015 post harvest engine tools rice combine harvester has been widely circulated throughout Indonesia as one form of government assistance, but the risks that may affect the operator has not been scientifically researched.

Collecting data was done by direct measurement in field, interview and questionnaire Nordic Body Map filled by operator. The analysis is done by way of table and graph analysis, empirical calculation, and comparison of measurement data with standard of Minister Regulation Health Number 70 year 2016.

The results of this study found that the operator felt musculoskeletal muscle complaints, the operator should only be exposed to a combined harvester vibe for 1.0146 hours of work and only 1.5 hours for noise exposure. Work physiology of operator rice combine harvester categorized mild to moderate. While the level of cleanliness of particulate dust is still quite safe for the working environment.

Keywords: ergonomics, rice combine harvester, work physiology, vibration exposure, and noise exposure

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