

ABSTRAK

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Judul Laporan Skripsi : ANALISIS POSTUR KERJA MENGGUNAKAN
METODE REBA UNTUK MENGURANGI
KELUHAN *MUSCULOSKELETAL*
DISORDERS PADA PEKERJA DI PT. GMF
AEROASIA
Pembimbing : Diah Utami, ST, MT

Dalam proses pemasangan komponen *heat exchanger* di pesawat Airbus A320 terkadang belum didukung dengan metode yang standar dan fasilitas yang ergonomis yang secara tidak langsung memaksa pekerja untuk melakukan postur yang tidak normal sehingga pekerja dapat terkena keluhan *musculoskeletal disorders* (MSDs). Penelitian ini bertujuan untuk mengidentifikasi adanya keluhan *musculoskeletal disorders* menggunakan metode REBA (*Rapid Entire Body Assessment*) dan membuat usulan perbaikan berupa *tool* untuk pemasangan komponen *heat exchanger* di pesawat Airbus A320 di PT. GMF AeroAsia Tbk. Berdasarkan hasil perhitungan skor REBA diketahui bahwa postur kerja yang paling berisiko terhadap MSDs adalah proses instalasi *heat exchanger* di pesawat. Skor REBA pada pekerjaan tersebut adalah 11 dengan level resiko yang sangat tinggi sehingga perlu dilakukan perbaikan sekarang. Setelah dilakukan perbaikan berupa desain alat bantu, dilakukan kembali perhitungan skor REBA dan hasilnya adalah 4 dengan tingkat risiko sedang.

Kata Kunci : *Heat Exchanger, musculoskeletal disorders (MSDs), REBA (Rapid Entire Body Assessment)*

ABSTRACT

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Study Program : Industrial Engineering

Title Internship Thesis : **ANALYSIS OF WORKING POSTURE BY USING REBA METHOD TO REDUCE MUSCULOSKELETAL DISORDERS COMPLAINTS IN WORKERS AT PT. GMF AEROASIA**

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In the process of installing heat exchanger components on Airbus A320 aircraft, sometimes it is not supported by standard methods and ergonomic facilities which indirectly force workers to adopt abnormal postures so that workers can get musculoskeletal disorders (MSDs). This study aims to identify complaints of musculoskeletal disorders by using REBA (Rapid Entire Body Assessment) method and make recommendations for improvements in the form of tools for installing heat exchanger components on Airbus A320 aircraft at PT. GMF AeroAsia Tbk. Based on the results of calculating the REBA score, it is known that the work posture that is most at risk of MSDs is the process of installing heat exchangers on aircraft. The REBA score on this job is 11 with a very high level of risk so it needs to be repaired now. After improvements were made in the form of assistive device design, the REBA score was calculated again and the result was 4 with a moderate risk level.

Keyword : heat exchanger, musculoskeletal disorders (MSDs), REBA (Rapid Entire Body Assessment)