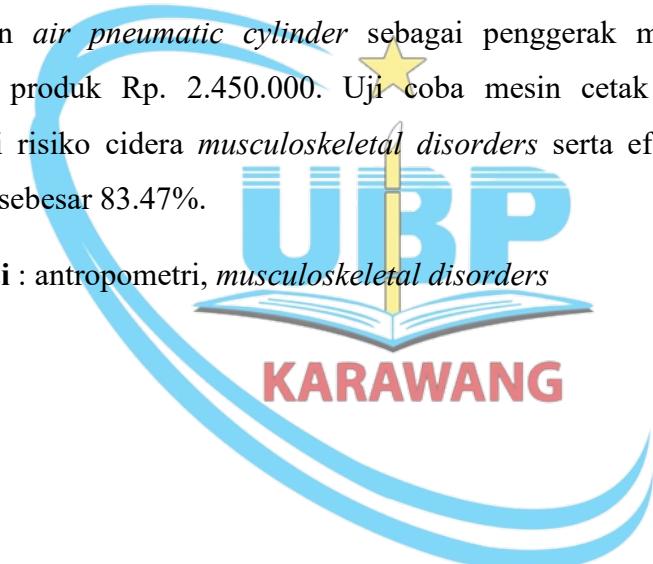


ABSTRAK

Salah satu UMKM kuliner terdapat di Kota Tangerang, Banten. Proses cetak laksa masih dilakukan secara tradisional. Alat yang digunakan saat ini seringkali menimbulkan beberapa keluhan bagi pekerjanya. Beberapa keluhan yang paling dominan diantaranya adalah keluhan pada bagian leher, bahu, pinggang, dan pergelangan tangan. Penelitian ini dilakukan dengan tahap identifikasi keinginan dari hasil kuesioner *User Need* dan hasilnya dikonversi menjadi atribut produk dan menjadi konsep rancangan mesin. Tahap kedua yaitu penentuan dimensi mesin cetak berdasarkan hasil olah data antropometri tubuh pekerja UMKM. Hasil penelitian ini berupa mesin cetak laksa dengan sumber tenaga dari kompresor angin 0,75HP dan *air pneumatic cylinder* sebagai penggerak mekanik, dan biaya pembuatan produk Rp. 2.450.000. Uji coba mesin cetak laksa ini berhasil mengurangi risiko cidera *musculoskeletal disorders* serta efisiensi waktu cetak lebih cepat sebesar 83.47%.

Kata Kunci : antropometri, *musculoskeletal disorders*



ABSTRACT

One of the culinary UMKM is located in Tangerang City , Banten. The Laksa press process is still obtained traditionally. The existing tools use that is caused some complaints by workers. The complaints that are dominants are the neck, shoulders, waist, and wrist. This research was conducted with the desire identification stage from the result of the User Need questionnaire and the result was converted into product attributes and machine design concepts. The second stage was determining the dimensions of the press machine based on the results of anthropometric data processing of the UMKM worker's body. The results of this study were a laksa press machine with a power source from an air compressor of 0,75HP and an air pneumatic cylinder as a mechanical drive, and the cost of making the product was RP. 2.450.000. The trial of this laksa press machine succeeded in reducing the risk of injury to musculoskeletal disorders and faster efficiency by 83.47%.

Keywords : antropometry, musculoskeletal disorders

