

ABSTRAK

Andry Eka Wahyu Febrianto.2024. Redesign Alat Pemupuk Dan Penanam Benih Jagung Dengan Menggunakan Pendekatan Ergonomi.*Skripsi*. Program Studi Teknik Industri.FT.Universitas PGRI Madiun. Pembimbing(I) Aloysius Tommy Henderawan, ST., MT.,(II) Doni Susanto, S.Pd., M.Pd.

Sektor pertanian memiliki peran penting dalam perekonomian nasional dan penyedia sumber pangan, Inovasi dalam alat pertanian sangat diperlukan untuk meningkatkan efisiensi dan efektifitas kerja petani.Penelitian ini bertujuan mendesain ulang alat pemupuk dan penanaman benih jagung dengan menggunakan pendekatan ergonomi. Metode penelitian melibatkan *stopwatch* untuk mengukur waktu kerja, penyebaran kuesioner *Nordic Body Map*. Setelah perancangan ulang, kuesioner *Nordic Body Map* Kembali disebarakan untuk menilai kenyamanan alat baru.Hasil penelitian menunjukkan bahwa 69% responden setuju dan 33% sangat setuju bahwa alat baru meningkatkan kenyamanan dan efisiensi kerja, alat baru menggabungkan fungsi pemupukan dan penanaman dirancang secara ergonomis, mudah digunakan, tahan lama dan mudah dirawat.

Kata-kata kunci: *alat pemupuk, antropometri, ergonomi, jagung, penanaman*

ABSTRACT

Andry Eka Wahyu Febrianto.2024. *Redesign of Corn Fertilizer and Seed Planting Tools Using Ergonomic Approach. Thesis. Industrial, Faculty of Engineering, Universitas PGRI Madiun. Advisor (1) Aloysius Tommy Henderawan, ST., M.T. Co-Advisor (II) Doni Susanto, S.Pd., M.Pd.*

The agricultural sector plays an important role in the national economy and as a provider of food sources. Innovation in agricultural tools is essential to improve the efficiency and effectiveness of farmers' work. This study aims to redesign corn fertilizing and planting tools using an ergonomic approach. The research method involves a stopwatch to measure working time, distribution of the Nordic Body Map questionnaire. After the redesign, the Nordic Body Map questionnaire was distributed again to assess the comfort of the new tool. The results showed that 69% of respondents agreed and 33% strongly agreed that the new tool improved comfort and work efficiency, the new tool combined fertilizing and planting functions was ergonomically designed, easy to use, durable and easy to maintain.

Keywords: Anthropometry, Corn, Ergonomics Fertilizer Tools, Planting