

## **ABSTRAK**

### **Rancang Bangun Mesin Press Kaleng Aluminium Bekas (PENGUJIAN)**

**(2023 : 12 :41 Halaman + 18 Gambar + 16 Tabel + 20 Lampiran)**

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Perkembangan sampah kaleng aluminium bekas menjadi bahan yang di cari para pemungut sampah kaleng untuk dijual pada pengepul barang bekas yang di olah kembali dalam sebuah pabrik untuk menjadi bahan baru. Pengepul barang bekas melakukan penekanan pada kaleng-kaleng sehingga dapat memuat lebih banyak kaleng dalam sehingga dapat menghemat biaya pengiriman. Biaya yang di perlukan untuk pembuatan alat mesin press kaleng minuman sebesar Rp.2.909.008,71. Selain rangka untuk dudukan kaleng yang di press ada beberapa komponen yang digunakan ialah seperti silinder kerja ganda, directional valve 5/2, push button valve 3/2, terminal pembagi udara dan air service unit dan kompresor. Sedangkan alat yang digunakan dalam proses pembuatan alat ialah seperti gerinda tangan, las listrik, mesin bor dan alat pendukung lainnya.

*Kata kunci : Press Kaleng, Biaya Produksi, Komponen Alat*

## ***ABSTRAC***

### ***Design and contruction of used alumunium drink can pressing machine***

**(2023 : 12 :41 Page + 18 Table + 16 Figures + 20 Attachment)**

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This design is designed to make it easier for workers to replace aerated canvases with precision and efficiency. Because previously the problem we encountered when changing the aerated canvas was that there was no tool used when punching holes in the aerated canvas, so the workers there had to open it first and then match the holes with the new canvas and then punch holes using heated iron, which we think lack of safety, lack of precision and inefficiency at the time of changing the canvas and forcing the packing machine to stop working. The type of design used is research, experimentation, or trials. Design data collection uses literature methods, observation methods, and consulting methods with supervisors. The stages in the design of the aerated canvas press tool are conducting a literature study drawing the design of the manufacturing technique, collecting tools and materials, assembling the manufacturing procedure, assembling the tool as perfect as possible, calculating the costs used when making it and conducting tests on the press tool that has been designed. With that it can be concluded that the aerated canvas press tool can be used when changing canvases because it is quite effective and precise compared to when not using a press tool.

Keywords : Design, Press Tool, Auxiliary Equipment.