

ABSTRACT

This research aims to design an electric-based hydraulic coconut milk press machine that is capable of squeezing coconut milk effectively and consistently. This machine is designed with a processing capacity of 7 kg of grated coconut per cycle, using a hydraulic system driven by an electric motor as a pump driver. The system consists of a hydraulic cylinder, machine frame, squeezing container, and a manual button-based control system. Initial results show that the machine is able to speed up the squeezing process compared to conventional methods and increase the volume of coconut milk produced. This machine is expected to be an appropriate solution for home industries and SMEs in coconut processing, prioritizing efficiency, comfort, and hygiene.