

Title Design and Develop the Mini Brown Rice Husking Machine
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efficiency

Abstract

This research aimed to design and to develop a mini brown rice husking machine. This milling machine has three main components including feeder, husker and separator. When the husking machine is operating, the paddies in the hopper were transported by feeder, then husked by husker and then separated by separator. Feeder uses a thread of screw. Husker uses the relative velocity of a pair of 4 inches-rubber wheels. The slower wheel is rotated at 460 rpm and the faster one is rotated at 770 rpm. The separator employs a blower to separate the paddy husks from the brown rice by air. The results of husking paddy at 13% moisture content are 8 kg/hr of the husking rate and 97-98% of the husking efficiency.