

**MESIN PENGERING KERUPUK HEMAT ENERGI UNTUK
MENINGKATKAN PRODUKTIVIAS PRODUSEN KERUPUK**

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ABSTRACT

The objective of producing a low energy drying machine is to help chips industries in increasing their productivity by shortening the drying time. Up to now they use heat of sunlight to dry the chips.

This process is time consuming and why the dry season comes, the process is delayed. It decreases the quality of chips. The drying machine produced uses firewood placed in a furnace as the heat source. The heat is then flown through pipes into the drying room, where wet chips are placed.

The room has a length of 1.2 m, a height of 1 m and a width of 1 m. It has two doors and equipped with a thermometer. Below the room, there is a furnace having capacity of 6 kg fire wood and an oxygen inlet. The drying temperature is 60 – 70° C. 1 kg firewood can produce the heat with temperature of 60 - 70° C for 1.5 hours. The drying process of wet chips takes about 5 hours. For that of half dry chips, it takes 2 hours. This machine has capacity of 2.400 wet chips and 6.000 half dry chips.