ABSTRACT

Home industry that produces cracker fan today still use the manual method using a knife hand, so it takes quite a long time and less sterile products. One of alternative to increase efficiency and productivity by creating a cutting machine.

Making this machine starts from designing cutting mechanism with five cutting blades, to find the magnitude of cutting force that occurs at the cracker dough (through trial), to find the elements used machines (shafts, belts, pulleys, motor power) and the capacity of the machine.

The force required to cut the cracker dough at 445.37 Newton and power of 0.57 HP by using the ratio gear box.
Reducer 1:20, and wear v-belt type A with length 1113 mm. Using the shaft material ST 37 (carbon steel) with diameter 29 mm and machine capacity of 46.8 kg/hour.

Keywords: cutter, cutter knife, and crackers (krupuk kipas).