Small industry which produces the VCO still use simple press method, it will take a long time and less sterilization. So to solve it in efficiency and productivity, we make a coconut press machine as VCO raw materials household scale.

Making process of press machine start from make design of screw movement mechanism, find the force and power pressing of screw which put on the coconut, find element of machine which uses (shaft, pin, belt, pulley, and bearing), the value of power and the capacity of coconut oil.

The force required to squeeze the old coconut 25.988,2 Newton and of power equal to 2.916 HP by using a ratio gear box (reducer) 1: 40, and using v-belt type A with a length of 1600 mm. Using AISI 1030 shaft material (carbon steel) with a diameter of 25mm.

Key word: pressing, press screw, old coconut and virgin coconut oil.