ABSTRACT

Fishery is one of the activities that keep getting the serious attention of the government to increase production for the welfare of the fish farmers. By the rapid development of aquaculture fish feed making needs be increased, so that if only rely on natural food alone would be insufficient capacity of the fish feed and also the result of the breeding of fish less than the maximum. So that fish farmers use artificial feed, in addition.

Therefore to address the availability of artificial fish feed made economical design of a pellet-making machine and dryer. Then plan the component elements of the machine, the amount of power used motor and perform experiments that generated by the engine capacity of the pellet.

From the planning and calculation is obtained pellet machine engine power used is equal to 1.16 HP, the production capacity of 25 kg/h and obtained the geometry sizes of fish pellets of 3 mm from the outer circumference of the rotating torque screw press at 1920 kgf.mm.

Keywords: Design, Screw Press, pellets of fish, dryer