PLANNING STOVE BRIKET AND MACHINES MECHANICAL FORGING FOR BLACKSMITH

Name of student: SEPTIA WARDANA
NRP: 2107 030 043
Department: D3 Teknik Mesin FTI-ITS
Adviser Lecture: Ir. Eddy Widiyono, Msc

Abstrak

The need for production of wrought iron from day to day is increasing both in terms of quantity and quality so that the craftsmen of traditional blacksmith overwhelmed to meet the needs of this market. The factors that cause this to happen is the production equipment from the traditional blacksmith who is still very traditional with rely man power and a very simple tool.

By knowing needs blacksmith production is better, then we can design, plan and calculate how much the amount of fuel needed to heat a working different materials blacksmith and power needed to drive the forging machine mechanical components such as: belts, pulley, pen drawer, pivot, pivot, and bearing.

Results of calculation and planning, coal briquette stove is obtained with a capacity of 1 work pieces premises the amount of fuel briquettes 5 kg / hr and forging machines with the power of two tons of mechanical power of 15 hp and 1765 rpm rotation.

Keywords: briquette stoves, machine forging, blacksmith