

# **THE PROCESS OF MAKING MOLDS ON THE COW MANURE BRIQUETTE MACHINE ROTARY SYSTEM**

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## **ABSTRACT**

The process of making prints on briquette making machine aims to determine the identification of the working drawings of the shape and sizes, identification of appropriate materials for the manufacture of molds and the foundation, the tools used in the process of making the mold and briquette making machine base, a concept used in the manufacturing process mold and the base engine, functional test prints on briquette printing machine rotary system.

Concepts used in the manufacture of mold tools and the foundation on briquette printing machine includes the preparation of tools and materials, reduction of the volume of material (material cutting, drilling, grinding, hand files), the method includes metal forming (rolling and forging), the concept of welding (ÖAW, SMAW), surface finishing (grinding process, caulking process, the process of sanding, painting), materials used in the manufacture of molds are eyser Sthaal plate 34 with a thickness of 1 mm and 6 mm. The equipment used to make the mold and the foundation on briquette printing machine is a SMAW welding machines, welding ÖAW, hydraulic cutting machines, manual roller machine, hand grinding machines, drilling machines, air compressor, ruler elbow, etcher, scribe, center punch, steel ruler, vise, base plate saddle for the work, hammers, hand saws, hand files, sandpaper and spray gun.

Overall time required for the manufacture of molds and the foundation on briquette printing machine is a rotary system is 27 hours 10 minutes. The results of the process of making prints on briquette making machine is a rotary system has an error percentage of -2.84%, in the mold with a length dimension 189 mm and 129 mm width, and thickness 1 mm, printed on the device functional testing and performance testing machine with a purpose to know the weaknesses that exist. In the performance testing briquette printing machine is capable of performing the printing process 12 briquettes / min or 720 briquettes per hour, for the operation of the performance constraints of this briquette printing machine is for placement on the base molding mold according to a little less crowded, the resulting briquettes have a half kg weight with a diameter of 60 mm and height 100 mm. In the performance test mold cow manure briquette making machine is a rotary system to function properly is the foundation that can withstand mold and mold can not move uniformly scored briquettes.

Keywords: Briquette Mold Making Process (print and runway)