

ABSTRACT

MAKING PROCESS OF THE FRAME OF MACHINE DRAWSTRING SKEWERS

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The process of making the framework on a skewer drawstring engine aims at finding the ways of making framework, knowing the appropriate machinery or equipment to make the framework of the machine, knowing the functional test engine performance test machine and knowing drawstring skewers.

Concept used in the manufacturing process in order to skewer drawstring machine included the concept of reducing the volume of material (cutting materials, grinding, drilling, carving, Pengikiran), the concept continuation part (Grafting SMAW welding), surface finishing (grinding process, puttying Process, Process sanding, The process of painting). The material was steel elbow profile size 40 x 40 x 3 mm. Machines used in the manufacture of the framework include cutting machine grinding, hand grinding machine, drilling machine floor, SMAW welding machine (AC) and equipment. Gizmos, among other aids used: hand saws, hammers, penitik, etcher, vise, table flat, steel bar, elbow bar, roll bar, miserly, grounding clamps o'clock and C. The process of making the framework on a skewer drawstring machines included: material selection, volume reduction, assembly and completion of the surface. The time required to manufacture frame with dimensions of 694mm length, 550mm width and 750mm height is 19 hours 25 minutes.

The end result of the process of making the framework of this skewer drawstring machines, functional testing and performance testing machine to find out the weaknesses that exist. In the framework of functional testing were making the difference in size between the working drawings with the results so that the percentage of error-dimensional framework of 1.6%, elbowing 2.05%, 0.53% flatness. In performance testing machine operating performance constraints drawstring machine this was on the skewer clamping, bamboo easily separated due to the different dimensions of the end of the bamboo so it is very influential on clamping. Another constraint was v-belt slipping on the pulley diameter of 4 inches, this is because too many of the previous skewer as many as 40 stab stab later reduced to 20 for v-belt on the pulley diameter of 4 inches are not missed.

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