

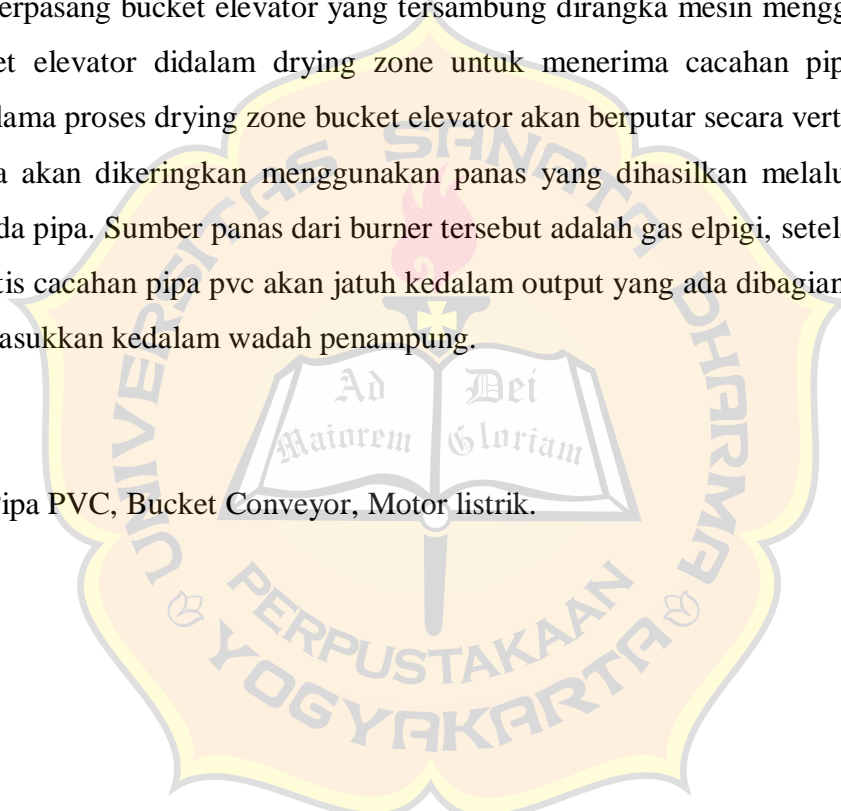
ABSTRAK

PERANCANGAN MESIN PENGERING CACAHAN PIPA PVC PADA PT.EKOP

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Mesin pengering cacahan pipa pvc merupakan mesin yang dirancang untuk mengeringkan cacahan pipa pvc di PT.EKOP Pajangan, Bantul, Yogyakarta. Mesin ini dirancang dengan dimensi Panjang 3,6m, lebar 2,7m, tinggi 2,5m dengan kapasitas 1ton selama 8jam. Mesin pengering cacahan pipa pvc menggunakan system semi otomatis dan motor listrik 3 pasha sebagai penggerak mesin. Cara kerja dari mesin yaitu cacahan pipa diangkut menggunakan bucket conveyor, kemudian bucket bergerak menuju drying zone. Didalam drying zone terpasang bucket elevator yang tersambung dirangka mesin menggunakan poros. Fungsi bucket elevator didalam drying zone untuk menerima cacahan pipa dari bucket conveyor. Selama proses drying zone bucket elevator akan berputar secara vertical, kemudian secara merata akan dikeringkan menggunakan panas yang dihasilkan melalui burner yang terhubung pada pipa. Sumber panas dari burner tersebut adalah gas elpigi, setelah dikeringkan secara otomatis cacahan pipa pvc akan jatuh kedalam output yang ada dibagian bawah drying zone dan dimasukkan kedalam wadah penampung.

Kata kunci: Pipa PVC, Bucket Conveyor, Motor listrik.



ABSTRACT

DESIGN OF PVC PIPE COLLECT DRYING MACHINE AT PT. EKOP

Written by: Daniel Ade Darmawan

Shredded pvc pipe drying machine is a machine designed to dry chopped pvc pipe at PT.EKOP Pajangan, Bantul, Yogyakarta. This machine is designed with dimensions of length 3.6m, width 2.7m, height 2.5m with a capacity of 1 ton for 8 hours. Pvc pipe shredding machine uses a semi-automatic system and a 3 pasha electric motor as the engine drive. The way the machine works is that the chopped pipe is transported using a bucket conveyor, then the bucket moves towards the drying zone. Inside the drying zone is a bucket elevator which is connected to the machine frame using a shaft. The function of the bucket elevator in the drying zone is to receive pipe scrap from the bucket conveyor. During the drying zone bucket elevator process it will rotate vertically, then it will be evenly dried using the heat generated through a burner connected to the pipe. The heat source of the burner is elpigi gas, after being dried automatically the chopped PVC pipe will fall into the output at the bottom of the drying zone and put into the container.

Keywords: PVC pipe, Bucket Conveyor, Electric motor.

