

PERANCANGAN MESIN PENCACAH BOTOL PLASTIK DENGAN KAPASITAS 30 KG/JAM

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Abstrak

Sampah warga Kota Depok selama bulan puasa dan lebaran yang dibuang ke tempat pembuangan akhir (TPA) cipayung meningkat 150-200 ton/hari dibandingkan hari biasa, banyak warga yang mudik lebaran tidak mengurangi volume sampah yang dibuang warga.

Maka diperlukan alat pencacah plastik untuk menanggulangi sampah tersebut. Dengan cara mendesain alat tersebut dengan menggunakan software, menghitung daya dan elemen mesin lainnya. Dilakukan proses produksi untuk bisa di daur ulang kembali.

Alat pencacah ini di desain dengan dimesi 110 x 80 x 150. Pisau yang digunakan pada mesin pencacah plastik ini ada 6 buah 2 buah pisau diam dan 4 buah pisau gerak. Dengan sistem pisau statis maka alat ini mampu mencacah dengan 30 kg/jam.

Kata Kunci : Mesin Pencacah, Botol Plastik, Pisau Statis, Torsi

DESIGNING A PLASTIC BOTTLE CHOPPER WITH A CAPACITY OF CAPACITY 30 KG/HOUR

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Abstract

Of the residents trashes the city of Depok during the fasting month and celebrating the festive days which was despised and rejected to the final disposal site (tpa) was recorded by Cipayung with shipping companies had increased by 150-200 tons on higher demand for / of day as opposed to the number of daily visitors , many of the citizens from the number of Lebaran traveler Idul Fitri festivity is not reduce the volume of garbage thrown by local people .He or she needs enumerator equipment plastic shopping bag in cope with the after hitting metromini the garbage .By means of the equipment is used by modes of design as using software , last february cutting output in counting the minutes for his and the elements other engines .Be done any process affecting the production to they could go in the middle of cycle of go back over it .Enumerator equipment is used in the solu on that design work with various 110 x 80 x 150 .A knife used on an engine enumerators plastic this the funds is already 6 fruit 2 the fruit of a knife shut up and 4 the fruit of a knife motion .With a system of a knife static will it then be passed capable of being enumerate with 30 kg / an hour and a half .

Keywords: machine enumerators , it comes to plastic bottles , a knife static , the torque