

**DESAIN MESIN *ROTARY PRESS* UNTUK KABINET *SIDE SLEEVE & FALL BACK* PADA *SECTION CABINET CASE UP*
STUDI KASUS PT YAMAHA INDONESIA**

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ABSTRAK

Pada periode 193 terdapat aktivitas kaizen dalam section Cabinet Case UP departemen Wood Working divisi Produksi PT Yamaha Indonesia, yaitu penelitian pada meja pres untuk kabinet side sleeve & fall back. Permasalahan utama dalam penelitian ialah, proses pengepresan masih menggunakan sistem kerja manual berupa clamp ulir, sehingga terjadi pemborosan dari segi langkah proses kerja dan juga setting time. Selain itu permasalahannya dikarenakan kian meningkatnya kebutuhan produksi kabinet tersebut. Beranjak dari permasalahan, section Cabinet Case UP meminta divisi Facility & Fabrication agar dapat merancang mesin pengepresan dengan sistem otomasi untuk meningkatkan output kabinet. Maka dilakukanlah perancangan mesin berupa desain mesin rotary press untuk kabinet side sleeve & fall back menerapkan sistem otomasi dengan mengimplementasikan sistem pneumatik berupa air cylinder serta menggunakan two hand safety device untuk pengepresan. Dengan adanya mesin rotary press untuk kabinet side sleeve & fall back ini, diharapkan dapat menurunkan langkah proses kerja, mengurangi setting time dan meningkatkan output kabinet pada section cabinet case UP PT Yamaha Indonesia.

Kata kunci : *kaizen, desain produk, mesin rotary press, sistem otomasi*

***ROTARY PRESS MACHINE DESIGN FOR SIDE SLEEVE &
FALL BACK CABINET AT SECTION CABINET CASE UP CASE
STUDY ON PT YAMAHA INDONESIA***

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ABSTRACT

On the 193rd period occur kaizen activity in the Cabinet Case UP section Wood Working department Production division of PT Yamaha Indonesia, that is a research on the press table for side sleeve & fall back cabinet. The main problem in this research are, the pressing process still uses manual work system which uses threaded clamp, that caused unnecessary waste in terms of work process and time setting. Besides, the problem is caused because there are increased demand of that cabinet production. Based on the problem, cabinet case up section asked the facility & fabrication division to make a design of press machine with automation system to improve the output of the cabinet. Then undergo the design process of a machine which is a design of a rotary press machine for side sleeve & fall back cabinet that implements automation system with pneumatic system in form of air cylinder also uses two hand safety device for the press. With the availability of this rotary press machine for side sleeve & fall back cabinet, it is expected that it can reduce the work step, decrease the setting time, and increase the cabinet output in the Cabinet Case UP section on PT Yamaha Indonesia.

Keywords : kaizen, product design, rotary press machine, automation system