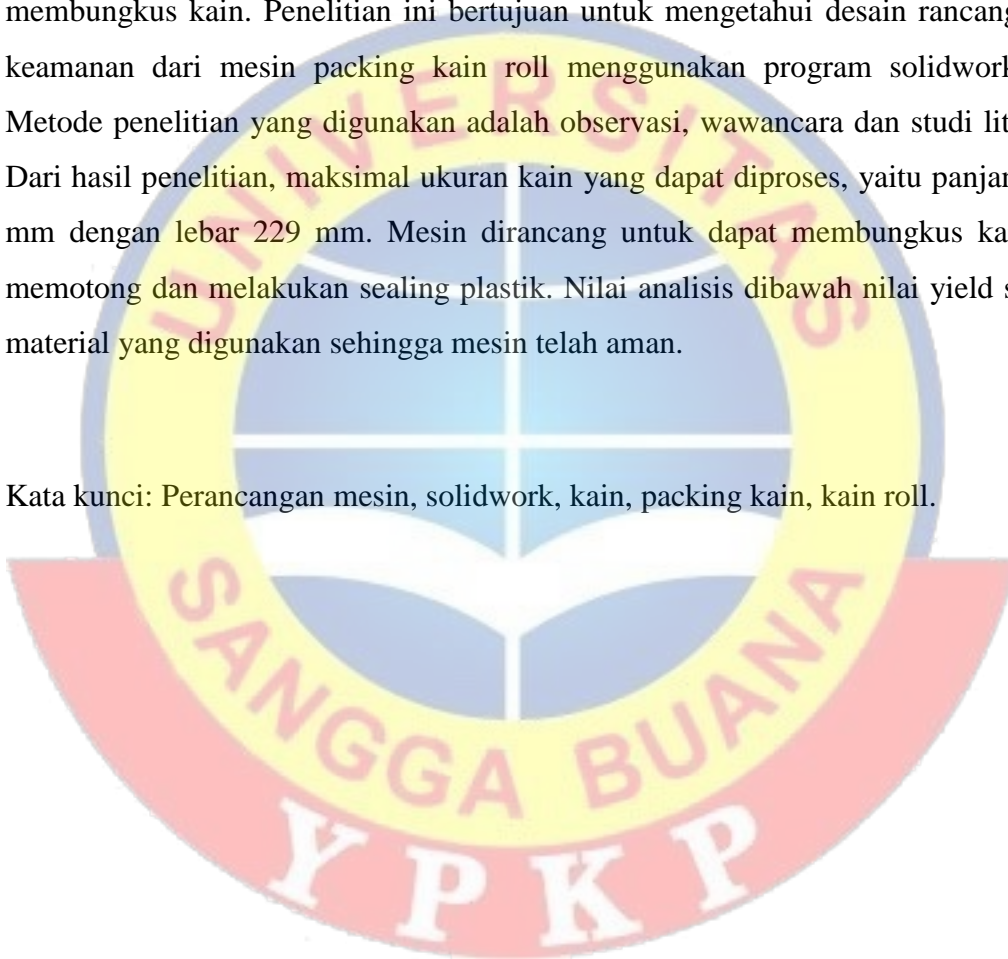


ABSTRAK

Proses packing kain roll di PT Multi Varian Putera menggunakan plastik berbentuk sarung dan masih dilakukan secara manual. Proses packing yang dilakukan kurang efisien dikarenakan prosesnya terbagi antara memotong plastik dan kegiatan membungkus kain. Penelitian ini bertujuan untuk mengetahui desain rancangan dan keamanan dari mesin packing kain roll menggunakan program solidwork 2017. Metode penelitian yang digunakan adalah observasi, wawancara dan studi literature. Dari hasil penelitian, maksimal ukuran kain yang dapat diproses, yaitu panjang 1550 mm dengan lebar 229 mm. Mesin dirancang untuk dapat membungkus kain serta memotong dan melakukan sealing plastik. Nilai analisis dibawah nilai yield strength material yang digunakan sehingga mesin telah aman.

Kata kunci: Perancangan mesin, solidwork, kain, packing kain, kain roll.



ABSTRACT

The roll fabric packing process at PT Multi Varian Putera uses sarong-shaped plastic and is still done manually. The packing process is less efficient because the process is divided between cutting plastic and wrapping cloth activities. This study aims to determine the design and safety of the roll cloth packing machine using the 2017 solidwork program. The research methods used are observation, interview and literature study. From the research results, the maximum fabric size that can be processed is 1550 mm long by 229 mm wide. The machine is designed to be able to wrap the fabric and cut and seal the plastic. The analysis value is below the yield strength value of the material used so that the machine is safe.

Keywords: Machine design, solidwork, fabric, fabric packing, fabric roll.

