

ABSTRACT

DESIGN RED CANDLE PRINTER WITH VALUE ENGINEERING METHODS AT YANTO SMALL AND MEDIUM ENTERPRISES

By:
Fanny Veronisia Rustandy
13.12.002

Yanto SMEs is small and medium industries that produce red candle as much as 100 kg per day with four kinds of sizes. In this study focuses on candles purchased at most consumer that the candle diameter of 2 cm and 17 cm. The printing process is done by dipping hanger candle wick in drum containing liquid candle repeatedly to get the desired size. Candle printing time is approximately 40 minutes per hanger axis. Results candle obtained is not uniform in terms of shape and size. Based on the problems it is necessary to design tool of a red candle printer using value engineering methods in order to speed up production time, improve the quality of the candle, and improve productivity. Size of design printer red candle obtained has a length of 42 cm, width 22 cm, height 22 cm, diameter hole in the pipe 2 cm, the length of the handle side and long handle over 10 cm, width of the handle side and wide handle over 5 cm, height handle over 20 cm, 40 cm long axis hangers and hangers-axis width 20 cm. Having created a new printer candle is doing implementation and there is acceleration of average production time per unit candle of 52.48%; quality improvement of 7.5%; and productivity increased by 0.68.

Keywords: design tool, value engineering, handle, productivity.