

ABSTRACT

AMDK Tirtawening is owned by government of West Java Province which is engaged in product bottled water (bottled water). Reviewed Tirtawening AMDK are two products, namely mineral water 19 liters and gallons shaped cup. In the production process gallon, gallon, which arrived at the company will be cleaned and then be sterilized, then be refilled and to eventually be in the seal back and resold. In the study "Equipment Design Wash Gallon Method Using Product Design Rational" has been studied where the constraints on work stations that exist and whether obstacles faced, the answer to these constraints contained in the form of design and design were developed back in the study "Developing tools laundering gallon ergonomic work station gallon washing the outside by using ergonomics function. Bandung" which analyzed and corrected size - the size of which has not been ergonomically designed and have been adjusted to the size anthropometry workers in Indonesia.

In the Bintang research found targets and specifications as well as the selected concept proposals to solve the problem caused by the previous design. The purpose of this research is to do detailed design approach to design for assembly (DFA) on the product concept was selected so that the product can be assembled gallon washing tool more easily and obtain detailed design.

With the methods detail design with the design for assembly (DFA) approach, the stage the introduction of needs , the determination of manual assembly and performing calculations for assembly , and finally do redesigned for obtaining a new design easier assembled and obtained for assembling / dfa index of 63,41 % higher than design early of 35,32 % and reduction a component of 27 to 18 , then obtained detail a picture of a tool laundering gallons .The outer covering of this research is to get design design a new concept easier assembled with fewer components , and detail design laundering gallons.

Keywords: AMDK Tirtawening, Gallon Washing Tool, Design For Assembly, Design Efficiency, Detail Design.