ABSTRACT

CV. XYZ is one of the companies engaged in the production of raw materials for animal feed. Production is carried out by the grinding process. The production produces dust that scattered to every parts of the plant in large quantities so as to reduce this, a tool is used to suck dust and accommodate the dust, namely dust collector. Despite using the dust collector, there are still a number of problems that are detrimental to the company such as there is still dust that is not accommodated, it cannot be used in the middle of grinding process and an unhealthy work posture. Based on the problems found, this study was conducted to address the problems in the existing dust collector and meet user needs using the Reverse Engineering & Redesign approach. The proposed dust collector design can reduce the percentage of dust that is not contained (loss goods), can be used in the middle of the grinding process, and makes working posture better when used.

Keywords— ***raw materials for animal feed, dust, dust collector, Reverse Engineering and Redesign***