ABSTRACT

Material Conveying Equipment installation in industry is one of important factors to enhance their productivity and efficiency as used for fulfill industrial excessive needed. This circumstance drives new innovation in material conveying equipment technologies.

This design objective is to analyze other function of Horizontal Contour load-propelling Conveyor in casting industry beside as a material handling function. Two problems analyzed in this final project. First, there is a limited room in industry as used conveyor's area, so it must be needed certain material thickness as design's output. Second, length of line conveyor required as design's output for determined material dimension, which counted in velocity variation. Both of them have purposed in order to have finished coagulation at unloading point. Then, design process to be continued in conveyor construction with design's output are capacity, distance inter carrier's pitch, chain tension, and installation power required.

Design's final result is transferred in software application with Delphi languages. Thus, design's process can give accurate result and time efficiency.

Keywords: material conveying equipment, contour load-propelling conveyor, software application.