

Thesis Title	Weight Checking of Bulk Materials on Continuous Belt Conveyor
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Abstract

The purpose of this thesis is to study the method of problem solving in weight checking for bulk materials. At present in most industries checked the weight while the bulk materials remains stable with implies high cost and large working area. Via simultaneous the bulk materials while it is being transported on belt conveyor, this can decrease the process time and the size of equipment and make continuous transportation of bulk materials

In checking the large amount of bulk materials while it is being transported on the belt conveyor, two kinds of transducers are used: Loadcell is the equipment for checking the weight and Incremental Encoder is the equipment for checking the distance of the belt conveyor. When the belt conveyor moves along the fixed distance, the weight signal can be read through loadcell and transmitted to data acquisition card and then processed by computer and represent the result on the monitor.

The average result of the test has 95percent in confidence interval

Keywords: Bulk Materials / Weight Checking / Weight Checking Belt Conveyor