ABSTRACT

According to increase productivity, efficiency, and effectivity from natural resources that have been possession by company. The company must be keep on doing innovation in production process. PT Kaltim Prime Coal is company that used advance technology for product the material. PT Kaltim Prime Coal is company that production coal in industry plant. Until now PT Kaltim Prime Coal observe that belt conveyor by manually person. This observation is not efficiency and has been much weakness according the cost and error paralyze output.

That's necessary to observe conveyor monitoring automatically for 24 hours and continuously. The destination to overcome these problems by using image processing and detecting the damage in the form of ripped and holes in the damaged of belt conveyor. Belt conveyor will be detected by the camera, and will be connected to the system monitoring the company to do prevention before the conveyor belt properly completely broken because it can interfere with the production process.

Keyword: conveyor, image processing,
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