Fengjun 5 generator belt deviation

How reliable is a conveyor belt deviation detection system?
The second method is to use the line laser generator and Labview platform to build a conveyor belt deviation detection system to perfectly realize the conveyor belt deviation detection,and the results of Method 2 are more reliable. Laboratory experiments show that both algorithms have high reliability,stability,and real-time performance.

Does distance change affect deviation detection of conveyor belt?
By analyzing the experimental results of the two methods, it is clear that both methods can achieve better deviation detection of the conveyor belt. However, in the results of Method 1, we found that the angle detection result does not match the result of our distance change.

Which method is better for belt deviation detection?
The result of deviation detection was more accurate and reliable with the addition of the laser line. It is observed that both methods can perform well for belt deviation detection,especially Method 2that resulted in higher reliability and accuracy with faster processing speed.

What are the different types of conveyor belt runout detection methods?
With the advancement of state detection technology,conveyor belt runout detection methods have evolved from contact methods to non-contact methods. The contact type is mainly divided into three: manual inspection,sensor-based,and mechanical measurement4.

What are the functional modules of belt deviation detection system?
System function module The belt deviation detection system designed in this paper is divided into four modules, which are: image acquisition module, deep learning recognition module, belt deviation judgment module and alarm module. The functional modules of the system are shown in Fig. 13.

Does the conveyor belt on the experimental platform exhibit deviation during Operation?
It shows that the conveyor belt on the experimental platform exhibits deviation during operation. In fact,the conveyor on the laboratory platform actually has a deviation problem due to incorrect joints,which is consistent with the measurement results.

15 Belt deviation caused by the too small radius of curvature of the concave section belt conveyor. For the belt conveyor designed with a concave section, such as the radius of curvature of the concave section is too small, if ...

There are total 13 variants of 2013 Fengjun 5 pickup, including a total of 3 displacements of 2.0T, 2.4L, and 2.8T. There are a total of 1 gearbox options for manual operation. Maximum engine ...

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Therefore, in this paper, for the belt that can only monitor the type of unilateral rollers, we propose a method to recognize whether the belt is empty or not, and then determine the standard ...

Aiming at the problems of the poor recognition effect and low recognition rate of the existing methods in the process of belt deviation detection, this paper proposes a real-time belt deviation detection method. Firstly, ...

Appl. Sci. 2020, 10, 2402 4 of 10 (a) (b) (c)Figure 2. Schematic diagram of deviation: (a) normal condition, (b) deflection condition, (c) overalloffset condition, v represents the speed direction ...

Once the normal operation is restored, cease adjustment. Reverse the belt and repeat the process until the belt no longer deviates. Repeat these steps at half and fully-extended positions. Belt Deviation to the Left ...

The efficient monitoring of the belt deviation state will help to reduce unnecessary abnormal wear and the risk of belt tear. This paper proposes a coupling characterization method involving the ...

Abstract: The monitoring of conveyor belt deviation based on computer vision is the research topic of this paper. A belt conveyor system equipped with cameras and a laser generator is used as ...

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