

Application Scenarios:
Steel mills / Ports / Mines / Power Plant / Cement



Product Series: **BTZN-GK5101A/B**

Longitudinal tear of conveyor is a highly destructive accident of conveyor system, often occurs at the loading point and guide groove. Boton rip detection system constructs an AI image algorithm model which recognize intelligently temperature changes at belt tear position, by comparing the infrared and visible light images during belt tearing. It can accurately distinguish belt tear and abnormal abrasion, and can release two-level alarm accordingly. Once the system detects belt longitudinal tear, it will automatically release an alarm signal and can stop the conveyor through interlock connection.

VISIO ADVANCED Machine Vision Rip Detection

Main Features

- The non-working surface is double monitored by thermal imaging and visible light.
- With automatic calibration and self cleaning function.
- Using a variety of parameters and algorithms to monitor, with feature analysis function .
- Automatic monitoring, identification, alarm, support access to the main control, linkage shutdown can be realized.
- Automatically save tear images and videos, which can be viewed at any time.

BOTON

High recognition rate

Longitudinal tear recognition
accuracy $\geq 99.5\%$

Two level alarm

Abrasion alarm / Tear alarm

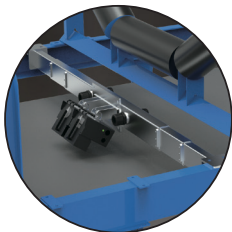
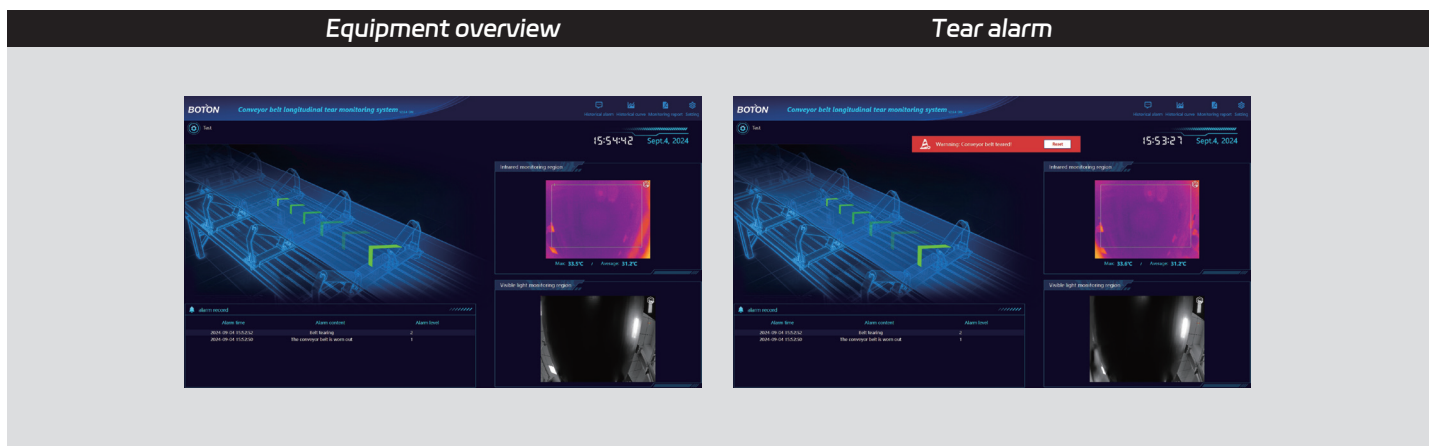
Strong adaptability

Self-cleaning equipment
suitable for various working
conditions

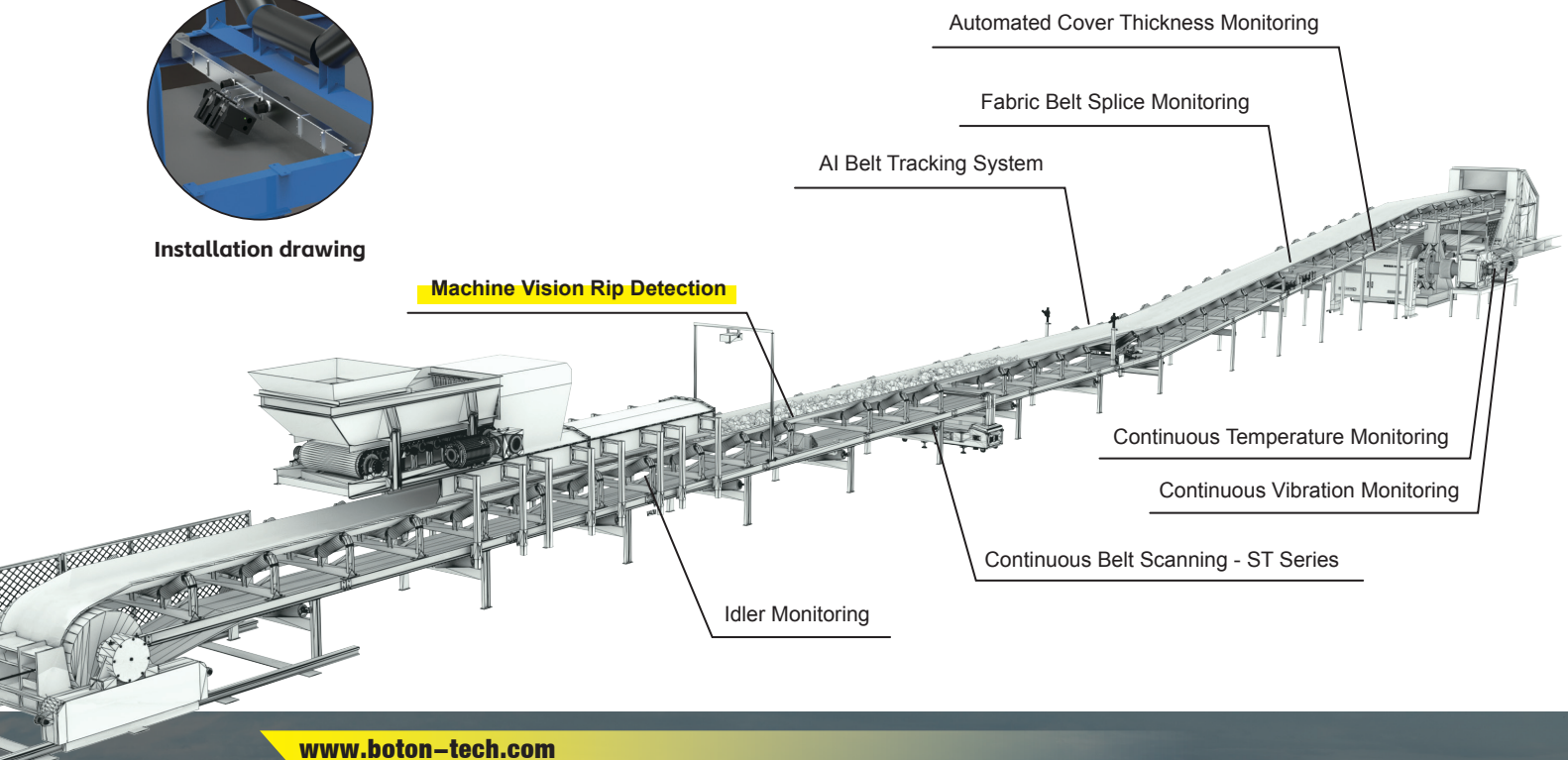
Main Technical Parameters

Category	Parameters	Category	Parameters
Applicable belt speed	0-10m/s	Working temperature	-30 - 60℃ (low-temperature version -50 - 60℃)
Applicable belt width	650-3000mm	Storage temperature	-40 - 80℃ (low-temperature version -50 - 80℃)
Atmospheric pressure	80-106Kpa	Relative humidity	≤ 95%RH (without condensation)
Working power supply	85-264VAC (customized)	Continuous working time	7×24h

Software Platform



Installation drawing



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Boton focuses on providing intelligent service solutions for industrial bulk material handling. Our main business includes intelligent turnkey service, overall solutions for intelligent conveying, aim for energy saving, environmental protection and green transformation etc. Boton takes the lead in launching a new model of "integrated general contracting services for conveying systems" in China which changed the situation of different value orientations in the traditional product sales model. This new model speeds up marketization of new technology & new products and has been recognized by many clients domestically and globally.