



Company News

Schmersal/ROXON: 24/7 Belt Condition Monitoring

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Wuppertal, Germany & Hollola, Finland –

At the recent Solids 2023 in Dortmund, Germany, Schmersal presented a fully automated online condition monitoring system for conveyor belts, the HX170, through its system partner ROXON. The HX170 is based on optical condition monitoring of the surface profile, which detects all potential damage to joints, as well as longitudinal slits, cracks and holes in the surface of the conveyor belt.

With the reverse drum as a reference, wear can also be determined by permanent belt thickness measurement. 24/7 monitoring of the belt condition allows preventive maintenance measures to be taken early on, thereby avoiding unscheduled maintenance, downtime and halts to production.



(Picture: ROXON)

The HX170 is easy to install over the reverse drum, on both new and existing conveyor systems, with no need for additional structural changes. The system is integrated into the local automation system via floating relay contacts. In addition, for pending alarms, the user can access detailed information about the damage in the form of a 3D image of the surface of the belt through the user interface.

The HX170 system is suitable for use on all flat textile and steel-wire belts, irrespective of the manufacturer, including those used in mining, ports, cement and steel works and energy plants. The system adapts automatically to new conveyor belts and to systems already in use. If wear or damage is detected, the belts can be moved automatically to pre-defined repair stations for closer inspection.

‘When conveyor belts experience problems, it’s often already too late. The fully automated HX170 condition monitoring system allows preventive maintenance measures to be taken promptly, thereby reducing unscheduled downtime,’ explains Heiko Bach, Business Development Manager for Heavy Industry at the Schmersal Group.