

PREDICTIVE MAINTENANCE

TRUCONNECT Brake Monitoring

The hoist brake is one of the most critical load wearing components in a crane. In heavily used cranes the service lifetime of brake wearing parts may end sooner than expected. Knowing current brake condition and estimates of remaining service life is a valuable safety improvement.

TRUCONNECT Brake Monitoring is a condition monitoring device for electromagnetic disk brakes which monitors the brake control signal and opening current. The data—made available on yourKONECRANES—provides brake air gap condition and estimated service life and alerts are sent via text or email.

Brake Monitoring for new cranes or as a retrofit

TRUCONNECT Brake Monitoring is delivered with new Konecranes PLC SMARTON cranes. Retrofits are also available for Konecranes CXT, selected S-series hoists, SMARTON and UNITON hoists if equipped with electromagnetic disc brakes.



New PLC-controlled SMARTON



CXT and S-series hoists as a retrofit (selected S-series hoists)



SMARTON AND UNITON as a retrofit

Your brake data on yourKONECRANES any time - anywhere

Regular reviews of your TRUCONNECT data on yourKONECRANES.com can alert you to problems with your cranes before they give way to critical issues that can impair safety and performance, helping you plan and leaving less room for surprises. Analyzing TRUCONNECT data can also help you develop an operational baseline and identify opportunities for maintenance and process improvements.

FAULTS/ALERTS

Activity view shows alerts and faults with detailed descriptions and recommended maintenance actions.

ESTIMATED SERVICE LIFE

Real time status indicator summarizes brake estimated service life.

BRAKE SERVICE LIFE

Shows when the entire brake must be changed within the safety margin.

BRAKE ALERTS AND FAULTS

BRAKE MONITORING

BRAKE SERVICE LIFE

FAULT TYPES

- Brake cannot open (mechanical failure)
- Brake cannot open (electrical failure)
- Brake cannot close (electrical failure)
- Brake boost failure
- Brake wear failure limit exceeded

BRAKE AIR GAP CONDITION

Real time status indicator summarizes the brake air gap status and safety.

BRAKE AIR GAP

Shows the current status of brake air gap.

BRAKE MAINTENANCE

Check when the next brake maintenance is needed.

SERVICE LIFETIME TREND

Shows when the entire brake must be changed within the safety margin.

EMAIL ALERTS

Get data and alerts on critical conditions right to your email—no need to go on the crane.



Konecranes digital services have been awarded ISO/IEC 27001:2013 certification for information security management. The ISO/IEC 27001 certificate demonstrates a commitment to pro-actively manage the information security of Konecranes digital services and ensure compliance with legal and customer requirements.