



# REMOTE MONITORING FOR BELT CLEANERS

Monitor conveyor belt cleaner blade tension and wear  
life from your desktop or mobile device

## **N2® Position Indicator**

- Monitors the condition of belt cleaners by measuring the position of the blade
- Sends notifications when re-tensioning or replacement is needed, reducing the need for maintenance checks
- Estimates blade life - predicts when to order the replacement blade
- Provides alerts through mobile app when abnormal changes in position or temperature occur
- Retrofits directly to existing mainframes

- ✓ Reduces safety risks
- ✓ Saves time and effort
- ✓ Increases uptime
- ✓ Improves budgeting
- ✓ Helps control inventory





# REMOTE MONITORING FOR BELT CLEANERS

## N2 Position Indicator

Urethane collar with sensor and transmitter

- Activates every 6 minutes
- Transmits up to 1000 meters depending on site conditions
- Indicates the position of mainframe to determine the wear on the blade
- Measures tension of the cleaner
- Sends signal if belt cleaner is not touching the belt
- Powered by an easily replaceable lithium battery with a 2-year life expectancy

## N2 Cellular Gateway

Radio signal receiver and modem

- Collects data from Position Indicators and transmits it to the cloud
- A gateway can accommodate up to 200 PI's depending on site conditions and collects the data from it by radio signal
- Transmits via mobile network to the cloud
- Data can be collected via Wi-Fi, if cellular coverage is limited (e.g. underground)
- Gateway is connected to standard power source on site and backed with battery

## Smart Device Manager

Martin Mobile App

- Monitors the position of the blade
- Notifies when to re-tension the blade
- Notifies when to replace the blade
- Estimates blade life based on current rate of wear
- Notifies excessive movement of the mainframe
- Monitors ambient temperature and notifies in case of substantial changes

Data Cloud

mobile data

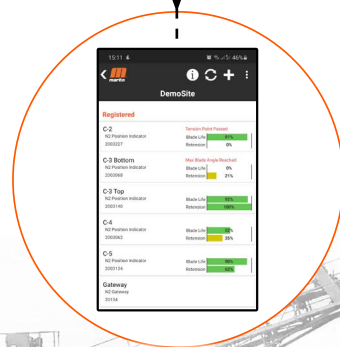
radio signal



**N2® Position Indicators**



**N2® Cellular Gateway**



**Martin App**



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