

igus smart plastics



DESCRIPTION

Since more than 25 year igus® does condition monitoring on their products (e-chain systems, cables and polymer bearings) in a 3,800m², world biggest laboratory for dynamic energy transfer applications.

Since 14 years igus® does condition monitoring by more than 1,000 installed push-/pull force detection systems.

Basing on this experience igus® smart plastics in 2018 launched the first cloud based IoT predictive maintenance lifetime calculation with clear days until next recommended maintenance indication. Info regarding next suggested maintenance and alerts were displayed in an web browser and by email/SMS notification.

On HMI 2019 igus® presents the first «offline» module «icom.plus» which interacts with machine internal PLC.

igus® provides predictive maintenance information for e-chain systems and plastic bearings to FANUC FIELD system. The dashboard app informs customer about system condition of e-chain system by providing time to next suggested maintenance in days. Additionally to this predictive lifetime information the smart plastics app has an additionally feature of sending alerting messages in case of unexpected conditions or upcoming maintenance needs which can be easily defined by customer.

KEY BENEFITS

- Reducing unexpecting downtime by e-chain® or cable failure
- Effective planning of maintenance breaks
- Extending product's lifetime
- "on edge" offline functionality
- Lifetime prediction is based on 25 years condition monitoring
- Fully integration in FIELD system
- Predictive maintenance information provided by FIELD system CONVERTER for other Apps, f.e. ZDT modules
- Resources saving by ERP integration

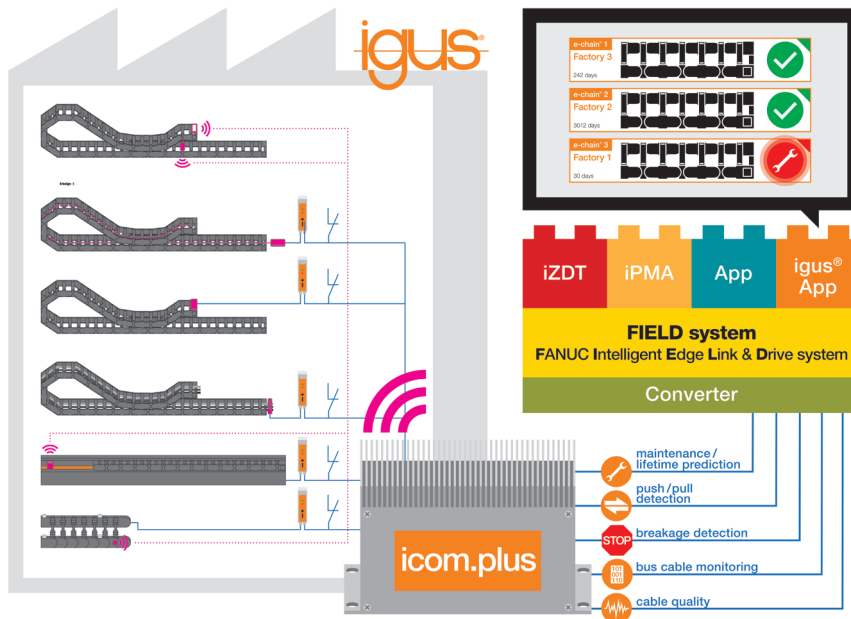
KEY FEATURES

- With the new FIELD system converter all e-chains® lifetime and condition data's of several applications can be used by other MES / SCADA APPS for giving clear maintenance advises to their customer
- The igus® smart plastics system for energy chain uses i-sense sensors in combination with intelligent algorithms to determine preventive maintenance messages and alarms
- The system detects changes early and prolongs the life of e-chain system by providing predictive info
- Optional online data analytics for up-to-date IoT cloud service

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PREVIEW



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