SAUTER

Mit uns dreht die Welt!

FIELD system

SAUTER IQ-Turret Environment

CONNECT MONITOR THINK DRIVE

DESCRIPTION

SAUTER FEINMECHANIK, the leading international manufacturer of tool turrets and a premium supplier for systemically equipping machine tools, will show you how data acquired from the cutting edge will change what you know about your production processes, providing you with the full spectrum of optimisation opportunities. From "A" as in adaption of cutting parameters according to the state of the cutting edge(s) to "Z" as in zero unplanned downtime.

We will show the first step of using the data from the SAUTER IQ-Turret Environment, we will give you a glimpse into our edge computing unit SAUTER IQ-Box and how we connect to the FANUC FIELD system world as a component manufacturer.

KEY BENEFITS

[Edge] SAUTER IQ-Box

- **Data collection & low latency error detection:**
  - High-frequency logging
  - Malfunction recognition
  - Extreme forces detection

[Fog] SAUTER IQ-Turret Environment

- **Monitoring & Analysis:**
  - Status information
  - Expected service
  - Maintenance planning
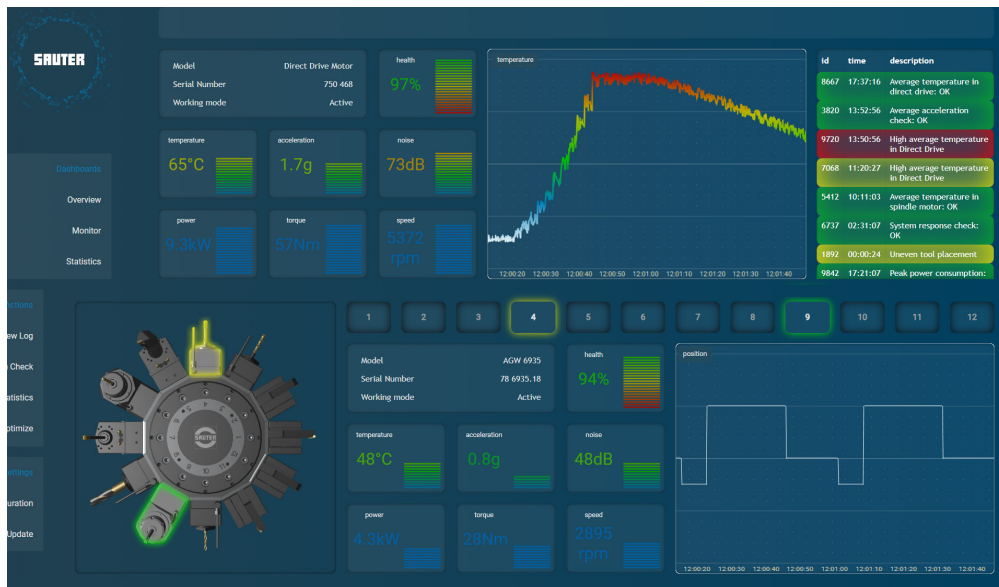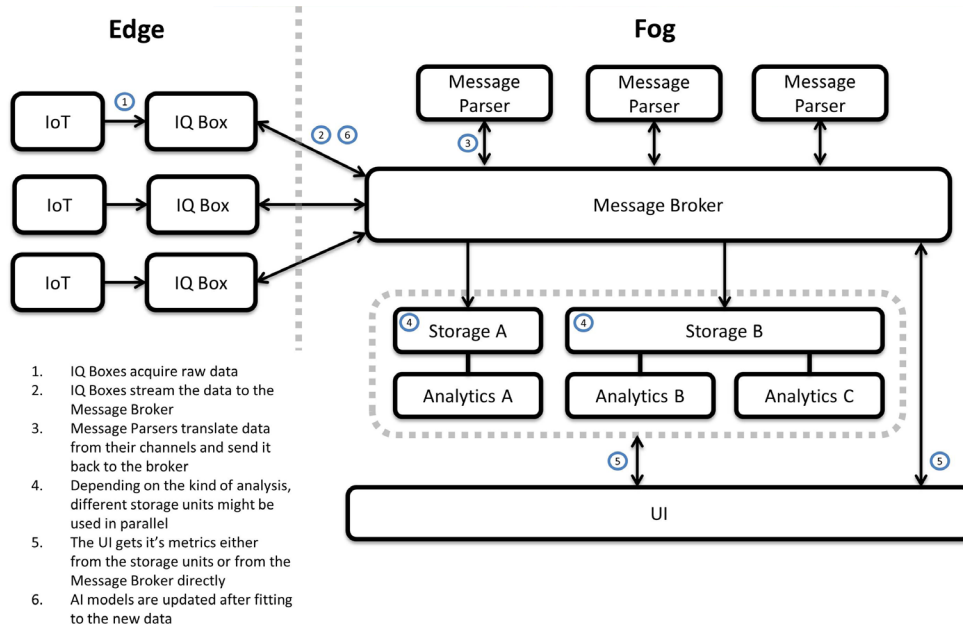 - Production optimisation

KEY FEATURES

- **Device overview:**
  - live usage monitoring (power-on timing, current activity, cutting forces, vibrations)
  - up-to-date status for each device (usage time, wear parts overview, remaining lifetime)
  - wear parts statisitcs (type, torque, speed)
- **Process improvement:**
  - scheduling optimisation
  - anomaly detection
- **Downtime prevention:**
  - auto-replacement of the worn out devices

FIELD system Partners

SAUTER IQ-Turret Environment

PREVIEW

Edge

Fog

1. IQ Boxes acquire raw data
2. IQ Boxes stream the data to the Message Broker
3. Message Parsers translate data from their channels and send it back to the broker
4. Depending on the kind of analysis, different storage units might be used in parallel
5. The UI gets it's metrics either from the storage units or from the Message Broker directly
6. AI models are updated after fitting to the new data

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