# Digital Services

Use data, advanced analytics, machine learning and AI to reinvent your manufacturing ecosystem to enable superior outcomes.

Take advantage of our expertise on any type of machine. Partner with Mikron to accelerate your digital journey.



**Digital Services**

**miMaintenance**
The maintenance by usage

**miEnergy**
The energy consumption management

**miConnector**
The machine data connected

**miTool**
The next level of tool monitoring

**miRemote X**
The secured remote platform

**miMachine**
The machine life cycle
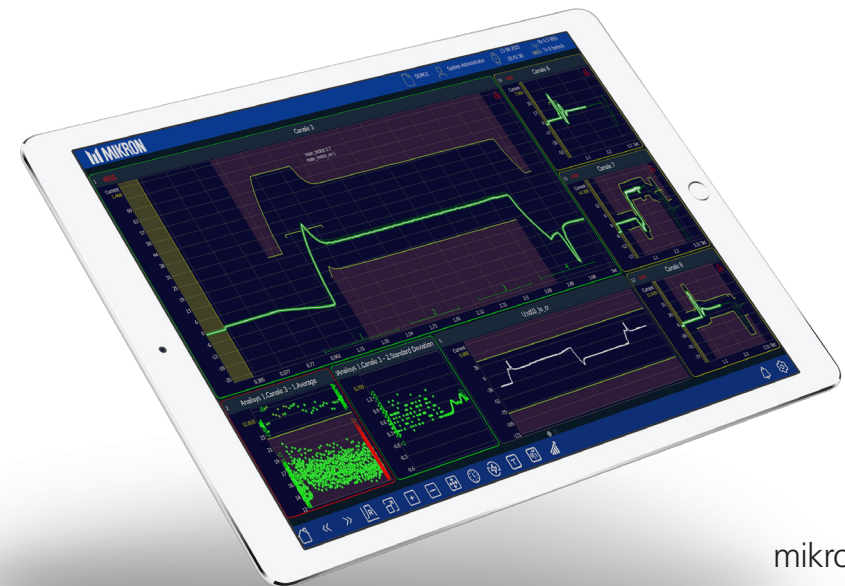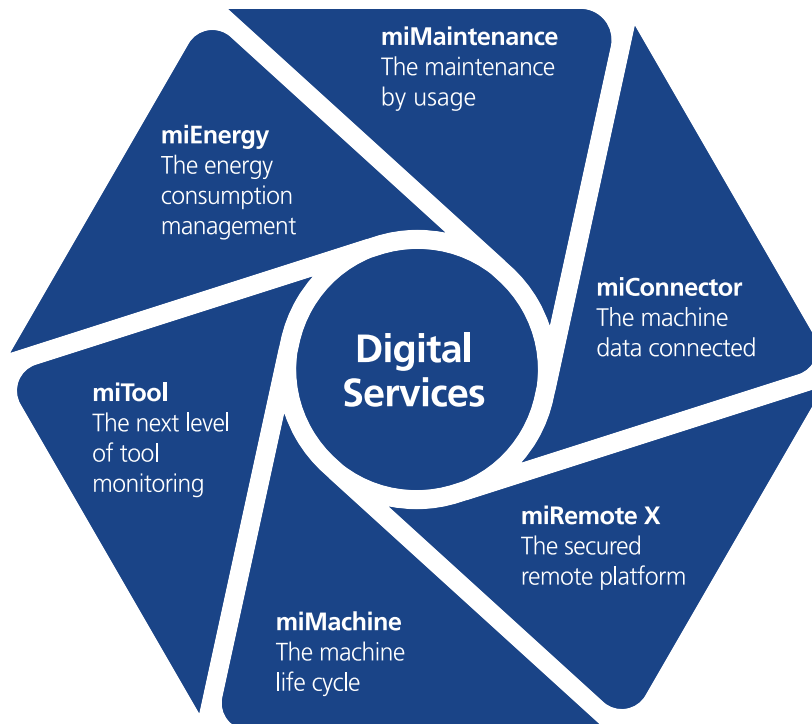
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# miMaintenance
## The maintenance by usage

**Features**
- Machine maintenance management
- Automated machine expertise for maintenance by usage
- Machine's devices life status and performance
- Real-time condition monitoring
- Anomalies detection and notification
- Artificial intelligence algorithms
- Support for preventive maintenance planning
- Components end of life prediction and reporting
- Back-end integration with Mikron ERP

# miConnector
## The machine data connected

**Features**
- Machine data gateway
- Data sharing with customer PDA via OPC-UA protocol
- Ready for cloud data exchange, via MQTT protocol
- Security guarantee by data encryption
- Connect directly to your machine controller
- Different protocol available for controller connection
- Optionally collect Input signals (e.g. sensors) from field

# miRemote X
## The secured remote platform
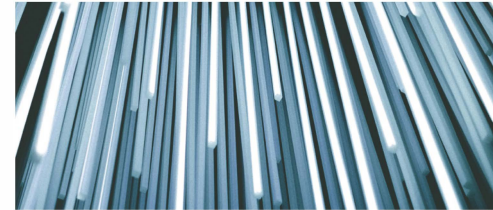
**Features**
- Secure connection based on OpenVPN standard
- Relies on secured Cloud for performance and security
- Certified process in accordance with IEC 62443-4-1
- Customer is in control to give access to the machine
- Connection reporting and traffic monitoring
- PSIRT (Product Security Incident Response Team) monitors vulnerabilities daily
- Regular security updates of the platform and of the specific devices

# miMachine
## The machine life cycle

**Features**
- Web based dashboards
- Machine & peripheries status
- Production and reporting (OEE)
- Condition monitoring with notifications
- Failures analysis (pareto)
- Tools life history
- DB for data persistence
- Digital BoM and serial Nr. management
- Back-end integration with Mikron ERP

# miTool
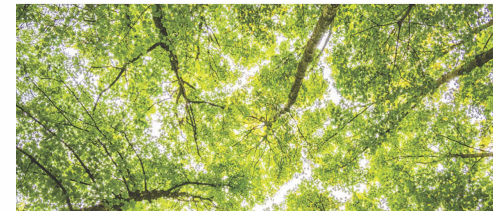## The next level of tool monitoring

**Features**
- Tools monitoring system
- Up to 200 real-time monitored channels
- Breakage control and wear detection
- Artificial intelligence algorithms
- End of life prediction and reporting
- Optimized machine stops
- Adaptive control
- Waveforms history database
- Events notification

# miEnergy
## The energy consumption management

**Features**
- Energy consumption monitoring system
- Machine and peripheries status
- Focus on $CO_2$ footprint reduction
- Different characteristic (current, air, oil, water, waste, temps)
- Anomalies detection
- Machine consumption dashboards, report and data collection
- Adaptive control based on real needs
- Energy consumption improvement replacing old/obsolete parts
- Consulting, redesign and process improvements to reduce waste