iron**MIND**
KNOW YOUR MACHINE

>_ AREAS OF APPLICATION AND USE

The demands placed on modern machine tools and production lines have become more and more complex. Unplanned downtimes and failures cost time, money, and trust. The goal is therefore to eliminate these as completely as possible. Forward-looking and production-adapted maintenance and servicing maintenance planning are increasingly important. Our in-house software and service tool ″ironMIND- Know your Machine″ provides you with an instrument that gives a detailed picture of the condition, mechanics, control system and peripherals of your machine as well as monitors several machines in automated operation (e.g. in production lines). In addition, all data is displayed clearly and the operator is supported by an intuitive control interface design. Our continuously improving system enables the user to identify and carry out necessary maintenance work in advance by recording and assessing a holistic diagnosis of the machines, thus anticipating any failure.

All collected data is available on the machine and – depending on your package – on the company's intranet.

Get a head start and the necessary security for your production with ironMIND- no matter if it's a single machine or a production line.

+_ ADDED VALUE

- Maintain and improve the performance of your machine
- Reduction of unplanned downtime
- Improve machine utilization
- Cost control through monitoring and analysis of operating resources and production-adapted service
- Decrease chances of machine damage
- Longer service life of the machine
- Everything from expert hands:
  Mechanics test, evaluation and assessment- on request with the support of NSH as a long-standing successful machine manufacturer

THE **NSH** GROUP
MACHINE TOOL MANUFACTURING

⟩⟨ TECHNICAL SPECIFICATION

FOUNDATIONS

- Guided configuration of test programs
- Merging the test programs into job lists to save time
- Extensive support and protection functions to assist the operator
- Included tests:
  - Synchronisation Test
  - Circularity Test
  - Axle Scan
  - Small Step Response Test
  - Frequency Response Analysi (via AST / Siemens, licence and software status dependent)
- Monitoring of the control status
- Control of the operating resources
- Mapping of the full range of functions on the machine/plant (no network connection necessary)
- Overview of all connected machines (connection to the company network required)
- Connection of external sensors possible (e.g. IFM)

AVAILABLE PACKAGES

ironMIND – Monitoring
- Stand-alone module on the machines themselves
- Status recording and cyclical reading of all requested data (alarms, channel status, levels, temperatures)
- Fingerprint: Execution, evaluation, monitoring of axle tests, operating resources, consumption and external sensors
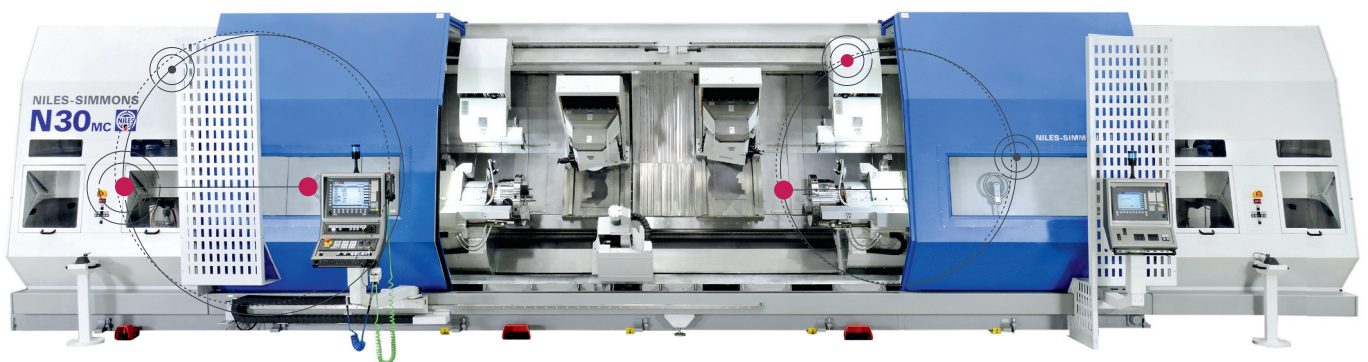
ironMIND – Cockpit
- Machine networking and management of the data of all connected machines via a central database on the user's intranet
- Clear visualisation of data including chat, maintenance plan, and additional features
- Various terminals possible

ironMIND – User Support
- Guided, illustrated, step-by-step help with concrete problems - directly at the machine
- Creation of auxiliary files
- Use of multi-window technology for clear and easier operation

PACKAGE PRICE: from 99€/month