StateMonitor
Track, analyze and optimize production processes

www.digital-shop-floor.heidenhain.com
Expand functionality as needed

**HEIDENHAIN StateMonitor**

- Collect, visualize and analyze machine data:
  - Machine statuses
  - Tool data
  - NC program data
  - Machine messages
  - Energy data

- Messenger for e-mail notifications

- Expandable functionality through software options

- Connectivity for five machines (expandable for up to 30 machines)

- Data sharing with downstream systems

**HEIDENHAIN MaintenanceManager**

+ Maintenance planning
+ Tracking and analysis of error messages

**HEIDENHAIN JobTerminal**

+ Tracking and analysis of job times
+ Quantity reporting

**HEIDENHAIN 5 Signals**

+ Tracking and analysis of five machine-specific signals

**HEIDENHAIN 5 Machines**

+ Connectivity for 5 additional machines

**HEIDENHAIN Interface**

+ Enabling of the following interfaces (depending on the control):
  - HEIDENHAIN DNC, OPC UA, umati, MTConnect, ModbusTCP and FOCAS

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1) These options can be ordered multiple times to expand functionality as needed
Optimize production processes

The StateMonitor software delivers real-time insight into what your machines are doing and helps you analyze the collected data. You can also use StateMonitor with mobile devices, even outside of your corporate network, thus allowing you to keep an eye on your machines anytime and anywhere.

Your benefits:
- Minimize machine downtime
- Discover ways to optimize your processes
- Save costs
- Shorten your response time and walking distances
- Monitor machine statuses in real time
- Reduce setup and maintenance time

StateMonitor
- Improve productivity
- Reduce idle time
- Increase process quality

Access it via a browser on various end devices
Get real-time notification by e-mails
Plan and log on-demand maintenance
Support your tool management
Connect your machines via the HEIDENHAIN DNC, OPC UA, umati, MTConnect, Modbus TCP and FOCAS interfaces
Forwarding to an external SQL database for the processing of machine data in an MES or ERP system

Analyze production data in detail
Plan on-demand maintenance

Functioning machines are essential for smooth manufacturing operations. The MaintenanceManager software option supports maintenance and error management:

- Plan maintenance based on operating hours, machine messages and fixed intervals
- Automatically send error and maintenance messages to the right staff member
- Analyze error messages, and uncover optimization potential
- Compare planned and actual maintenance durations
- Reduce costs through on-demand maintenance
- Minimize machine failure and downtime

Enhance your tool management

In order for a machine to be operable, it must be equipped with the right tools. Insufficient tooling can significantly delay the production process. StateMonitor provides optimal support for tool planning:

- Compare tools from an NC program with the tools in the machine, and immediately identify any missing tools
- Analyze tool usage time and service life
- Identify unused tools
- Read the tool and pocket tables from the control, and export them as a CSV file
- Reduce setup times, tool costs and downtime
StateMonitor simplifies the simultaneous operation of multiple machines and helps you shorten machine idle and response times. Simply access the software via your browser to track machines while on and off the shop floor, including during unattended shifts. This gives you the following capabilities:

- Monitor machine statuses in real time
- Display detailed information about machine statuses and their causes
- Track your program status with a progress bar
- See the tool currently in use
- Send real-time notifications, such as machine messages
- Access the software via a browser from various mobile devices

The JobTerminal software option allows you to collect and analyze job data. Machine messages are leveraged to automatically gather job data. JobTerminal provides optimal support for job planning:

- Track, analyze and visualize actual setup and production times
- Determine finished part quality as either “OK”, “Rework” or “Scrap”
- Calculate costs for a production job or work step based on real data
- Detect any deviations from planning
- Export job data
What our customers say

Informative analyses are essential for improving productivity by uncovering optimization potential and for finding the cause of errors. StateMonitor offers a number of extensive analyses:

- Machine statuses, availability and utilization rate
- Program run time, as well as the proportion of productive time, spindle usage, rapid traverse and cutting time
- Machine messages, such as emergency stop, program abort and warnings
- Job times
- Tool data
- Machine-specific signals, such as temperatures, fill levels and workpiece counters

**Sebastian Pöckl**
Head of Production, RO-RA Aviation Systems GmbH, Schörfling (Austria)

“At RO-RA Aviation Systems GmbH, we use StateMonitor on nine milling machines. We use it especially to track cycle times for faster delivery, for example. We also use StateMonitor to digitally analyze the cause of faults. This massively simplifies daily shopfloor management. Now we don’t just think we know something; we know it for sure based on clear data and can optimize processes as a team. That’s why we’re currently starting two additional StateMonitor projects.”

**Cavid Güler**
Managing Director, GÜMATEC, Remscheid (Germany)

“To enhance tool loading speed, we use a solution from TCmobil GmbH&Co.KG. The key elements are a tool trolley with a special space-saving tool arrangement, along with the StateMonitor software. To ensure that machine setup is efficient, StateMonitor accesses the machine’s tool pocket table and, on a tablet PC on the trolley, displays which tools are missing from which pockets. This combination has enabled us to significantly reduce setup times and gain more time for production.”
We provide advisory support for all products and services of the Digital Shop Floor
+49 8669 31-5000 or user-desk@heidenhain.de

For more information about our Digital Shop Floor products, visit www.digital-shop-floor.heidenhain.com

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HEIDENHAIN SHOP

DR. JOHANNES HEIDENHAIN GmbH
Dr.-Johannes-Heidenhain-Straße 5
83301 Traunreut, Germany
☎ +49 8669 31-0
Fax +49 8669 32-5061
info@heidenhain.de
www.heidenhain.com