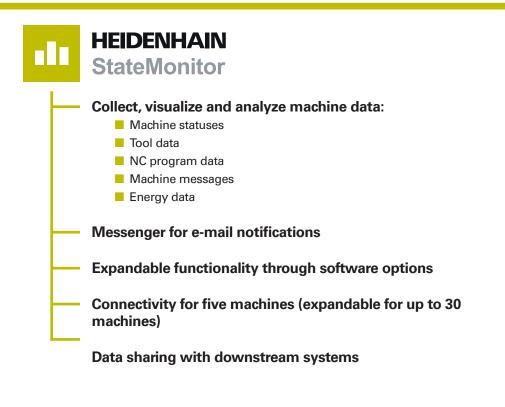


StateMonitor

Track, analyze and optimize production processes

www.digital-shop-floor.heidenhain.com

Expand functionality as needed







- + Maintenance planning
- + Tracking and analysis of error messages





HEIDENHAINJobTerminal

- + Tracking and analysis of job times
- + Quantity reporting





HEIDENHAIN 5 Signals

+ Tracking and analysis of five machinespecific signals¹⁾





HEIDENHAIN5 Machines

+ Connectivity for 5 additional machines¹⁾





HEIDENHAINInterface

 Enabling of the following interfaces (depending on the control):
 HEIDENHAIN DNC, OPC UA, umati, MTConnect, ModbusTCP and FOCAS¹

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.

Access it via a browser on

Plan and log on-demand

Connect your machines via the

interfaces

HEIDENHAIN DNC, OPC UA, umati,

MTConnect, Modbus TCP and FOCAS

Collect and

various end devices

Keep an eye on your machines

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





Plan on-demand maintenance

Enhance your tool management

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

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





Keep track of your machines anytime

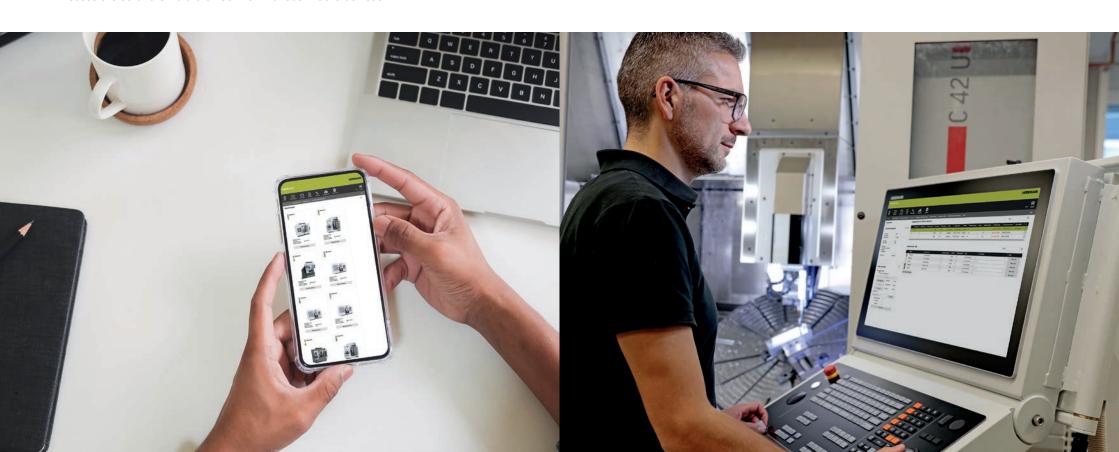


StateMonitor simplifies the simultaneous operation of multiple machines and helps you shorten machine idle and response times. Simply access the software via your browser to track machines while on and off the shop floor, including during unattended shifts. This gives you the following capabilities:

- 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



Detailed analyses for greater transparency

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



What our customers say

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."



HEIDENHAIN

DR. JOHANNES HEIDENHAIN GmbH
Dr.-Johannes-Heidenhain-Straße 5
83301 Traunreut, Germany
9 +49 8669 31-0

+49 8669 32-5061 info@heidenhain.de

www.heidenhain.com



HEIDENHAIN worldwide