



## CHIRON DATAline

The innovative platform for integrated machine and process diagnostics

# Intuitive, integrative and transparent

The complete production process at a glance

**What's happening where? Which machine is idle? Has the machining center already been refitted for the bottleneck job? etc.**

Whether on the computer, smart phone or tablet, with DataLine you always have insight into your machine and process data wherever you are. Important key figures as well as productivity and availability considerations are regularly calculated, stored, analysed and visualized. DataLine gives you the decisive impulse for the optimization of your production processes.

## Advantages with CHIRON DataLine:

- Visualization of the machine status and progress of the process
- All the machines at a glance\*
- Customer-specific reaction to machine statuses
- Current real time information about the machinery on any browser-enabled operating device
- Less downtime thanks to effective evaluation of the machine data (e.g. preventive maintenance)
- Early recognition of atypical behaviour and sign of wear
- Other customer-specific requirements can be realised

\*CHIRON DataLine also enables the integration of third-party machines that have the latest Siemens / Fanuc / Heidenhain controls. The mode of operation may be limited by manufacturer-specific restrictions.



## Our DataLine basic package:



### Production Overview

Display of the machine status as overview or in detail over a freely definable period.



### OEE key figures

(Overall Equipment Effectiveness)  
Display of the productivity or operating time (by day, week, month or year) of the machine over a freely definable period and the causes of shut downs as registered at the machine.



### Parts Overview

Display of the quantities produced per NC program, per period and monitoring of the production times.



### Machine Live

Display of the current processes on the machine with the current program, status of the machine with the active tool, NC block, NC block number, operation mode and feed override.



### NC Logger

Logging of NC program changes with backup function.



### Alarm Assistant

Display of the current pending error messages with cause, effect and suggestions for troubleshooting.



### Maintenance Assistant

Display of the pending maintenance tasks and running time or running performance.



### Alarm Monitor

Display of the top 10 list of alarms, sorted by frequency and duration.



### Spindle Monitor

Display of the utilization of the main spindle with speed ranges.

# Versatile, communicative and efficient

Regardless of machine manufacturer, CNC control and terminal

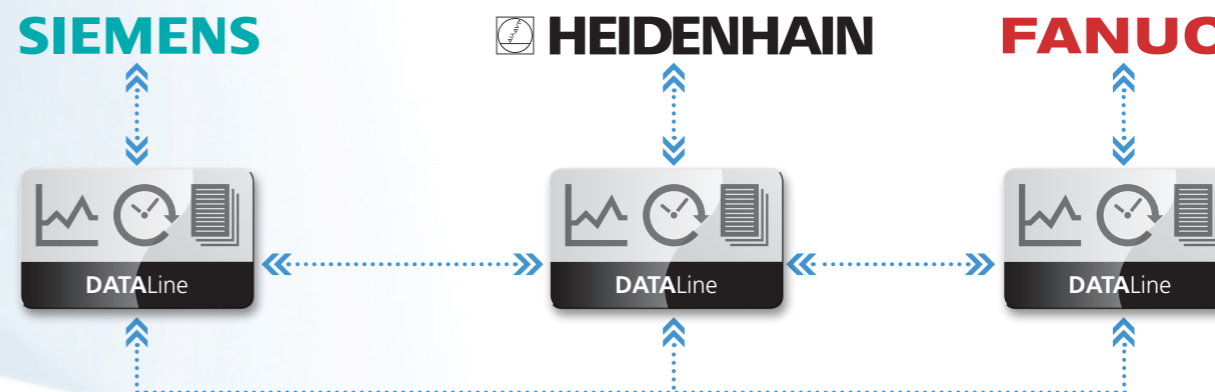
## What you want and wherever you want it.

DataLine enables smooth and bi-directional communication between machines and terminals. The documentation and visualisation of job, process and machine data opens up completely new possibilities for your production. In this way, DataLine brings greater transparency to production processes, to be faster, safer and more efficient.

Suitable for many machining centers (manufacturer-independent)



DataLine supports all commonly used CNC controls\*



### DataLine basic package:

- CHIRON standard apps
- Industrial PC
- Installation, setting up and brief training session at cost (on-site)

### Technical requirements:

- Siemens PowerLine / SolutionLine
- Fanuc 31i B5
- Heidenhain TNC 640
- Other control options upon request\*

\*Individual functions can differ depending on control type. (For Siemens, the whole range is covered).



For any terminal with a standard web browser

# Optimum process reliability and productivity

by efficient process design and minimisation of downtime



**Production Overview**  
Display of the machine status as overview or in detail over a freely definable period.

With DataLine, you can easily monitor, analyse and efficiently plan your production process from any location. Bringing together your planning with manufacturing by direct access to your machinery gives you valuable information about optimization potentials for better production flow, greater machine utilization and significant long-term productivity gains.

As a Smart Factory solution from CHIRON, DataLine is a cornerstone of the foundation for the factory of the future.

## OEE key figures of the whole day

OEE key figures	Duration	Ratio
Calendar time	1 day(s)	100.0%
Planned operating time	16 h	66.7%
Loss of use	8 h	33.3%
Actual operating time	10 h 50 min	68.6%
Availability loss	5 h 1 min	31.4%
Wait for loaded	0 min	0.0%
Output	9 h 52 min	61.7%
Power loss	1 h 5 min	6.9%
Productivity	9 h 52 min	61.7%
Quality losses	0 min	0.0%



**OEE key figures**  
Display of the productivity or operating time (by day, week, month or year) of the machine over a freely definable period and the causes of shut downs as registered at the machine.



**Maintenance Assistant**  
Display of the pending maintenance tasks and running time or running performance.

# From planning to series production

The economical solution from one source

- Complete process design
- Expert Engineering
- Experienced project management
- Validation of the statistical process capability
- Securing target productivity
- Production assistance during the start-up phase
- Individual automation solutions
- Complete systems e.g. with SCHERER turning centres
- Training in operation and programming
- CHIRON – Services available all around the world



CHIRON TURNKEY 



- CHIRON Partner
- CHIRON-WERKE and subsidiaries

CHIRON Group



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