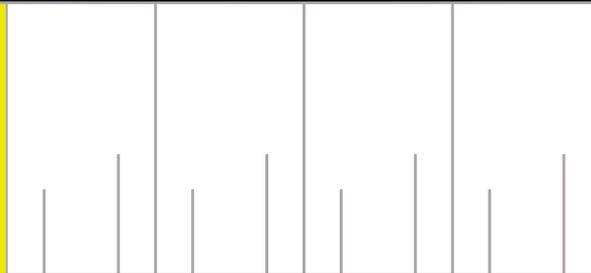
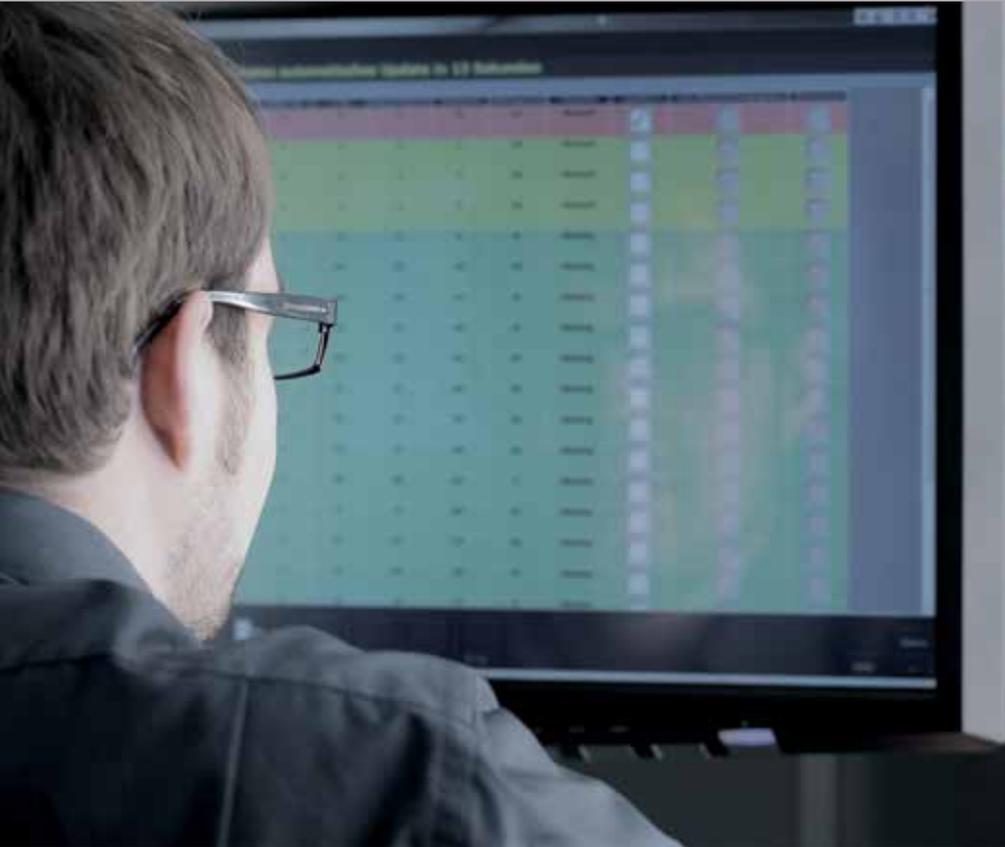




Manage tool life in seconds  
flash



## Continuous process monitoring »flash«

The »flash« software module monitors your entire manufacturing processes through organized tool preparation and monitoring of tool life.



### Your benefits

- Minimal waiting times at the machine
- Productivity increase "at the push of a button"

## Simple monitoring of tool life

### »flash«

Modern manufacturing is faced with numerous challenges: high requirements for the precision of workpieces, continuously shorter setup times, as well as increasingly more complex tools, making it necessary to reduce throughput times and to avoid rejects and machine downtimes.

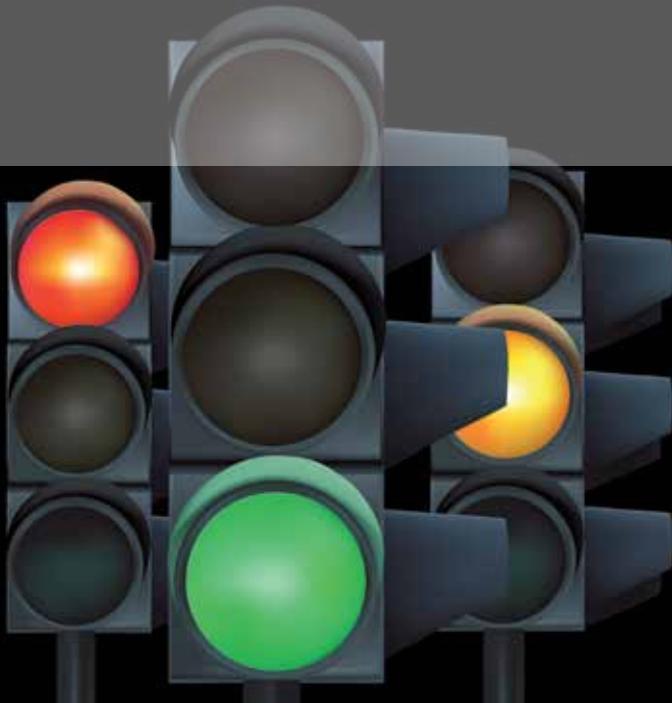
This is where the efficient ZOLLER tool management system comes into its own and offers even greater transparency for manufacturing processes with the »flash« software module.

**With the »flash« software module ZOLLER presents yet a further highlight for efficient manufacturing organization.**

The »flash« software module allows monitoring of all tools used in the manufacturing process, checking tool life, organizing tools, as well as changing tools in time.

The ZOLLER »flash« automatically monitors the current tool life at regular intervals and color-codes their status. Monitoring tool life with »flash« has created a new dimension in manufacturing control and allows productivity increases "at the push of a button".

The individual elements of the modular »flash« software are easy to operate, can be adjusted to customer-specific processes and manufacturing scenarios, and are available separately.



With only 4 steps - transparency and maximum efficiency of workflow

# Overview of the »flash« process

## 1 Checking tool life in real-time



- The »flash« software module automatically queries the tool life per machine independently of the operator. Colors symbolize the current status of the tool life. Tools whose life has expired or whose warning limit has been reached, can be selected and released for recommissioning.

## 2 Recommissioning for tool preparation at the push of a button



- Tools released for recommissioning are compiled in a list. A commissioning list is generated for each tool at the push of a button. As soon as the tool has been fully commissioned and assembled, it is released for tool presetting.

Links to the following machine controls are available for the »flash« software module:

- Siemens
- Mazak
- Heidenhain
- Okuma
- Fanuc



### Traffic light colors signal the current status

As soon as a preset tool has been assigned its location in the magazine of a machine, the status is set to "green", i.e. in use. This means that the tool life is in the "green range". "Amber" informs you in time that the warning limit has been reached. "Red" signals that the tool life has expired. This also ensures perfect visual inspection and control of your tools in use.

### 3 Measurement of released tools

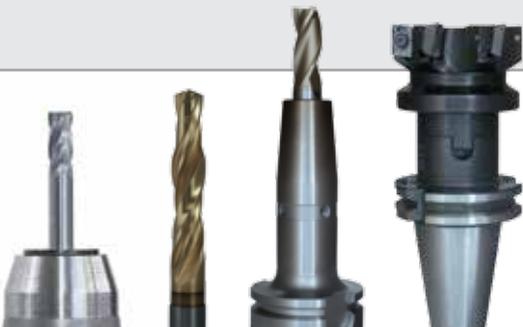


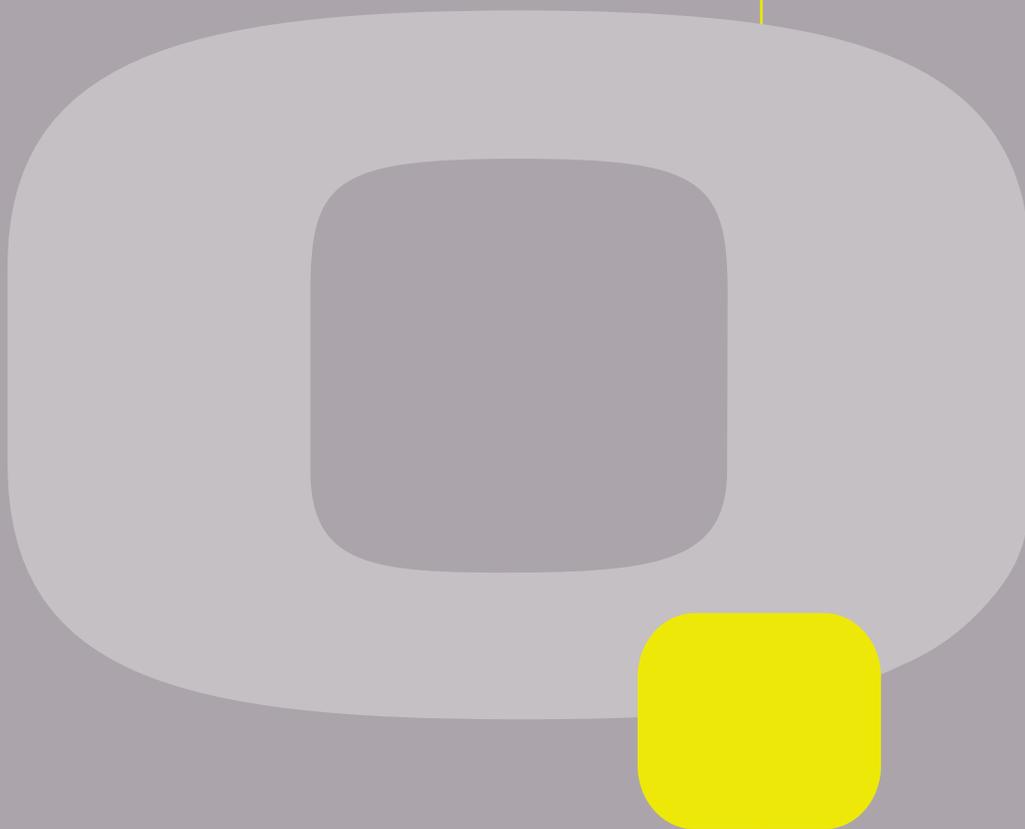
- Tools released for presetting are compiled in a list and can be preset and measured at the push of a button. Then they are released for production.

### 4 Control-adequate data output



- Control-compatible data of the measured tools is transferred to the machines. Machine crashes due to typing errors are excluded.





» ZOLLER gives you superiority.

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