

## **OCON S.**

### **Inexpensive in-process tool monitoring for rotating shaft tools in mass production**



### **Secure cutting process with rotating shaft tools.**

- missing tool detection of rotating shaft tools
- software-only solution for Siemens Sinumerik 840 D control systems
- no operator actions required
- rapid, inexpensive retrofitting
- no sensors in the machine working area
- no change in the PLC required

## OCON S. In-process tool monitoring

### Use

Secondary damage resulting from unnoticed tool breakage may occur when incompletely machined parts reach downstream machining stations or even the user. **OCON S** helps avoid such production faults.



### Features

#### The better alternative to optical or mechanical scanning systems for checking tool presence

- Monitors the presence of up to 10 tools during the machining process
- • Considerable saving of cycle times
- • Monitoring based on distance (or alternatively on time)

#### Simple integration and start-up

- • Simple installation and start-up using the manual
- • No need to install components in the machine
- • Software-only solution

#### No actions by machine operator required

- • Once set up no more operation is normally needed

### Benefits

- No need to install expensive scanners or lasers
- Rapid integration of OCON S software in the NC program – no changes in PLC
- Setting via the existing SINUMERIK user interface
- Inexpensive retrofitting in existing machines

#### NC control requirements (as at: October 2005)

- NCU 571.3-5 NCU 572.3-5, NCU 573.3-5
- NC software version as of 6.05.11
- SRAM for GUDs: 60 cuts -> approx. 1 Kbyte
- The Compile cycle requires approx. 150 Kbytes of heap memory (DRAM)
- For Siemens PowerLine and SolutionLine