

In-process tool breakage monitoring

Productivity | Process Reliability



Series

H

F

C

HF

MCH

MCH-C

MC

MCi

Control

SIEMENS Solutionline

SIEMENS Powerline

SINUMERIK ONE

The in-process tool breakage monitoring [SBBK] function prevents a damaged tool from being used for the rest of the machining process and protects the downstream tool from consequential damage.

Characteristics

- _ Tactile system approaches tool tip on the magazine provisioning place
- _ For the tool change, in-process check without time loss
- _ For single spindle, coaxial tools (drills) with diameter of 1 - 6 mm, tool breakage is detected from 5 mm break, peak angle > 118° and minimum tool length of 70 mm at maximum tool length of 600 mm or minimum tool length of 270 mm at maximum tool length of 800 mm
- _ Angular drill heads and drill heads cannot be checked

Benefits

- _ Not time lost: check during tool change
- _ Lower costs: fewer rejects, fewer failures, less consequential damage