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