

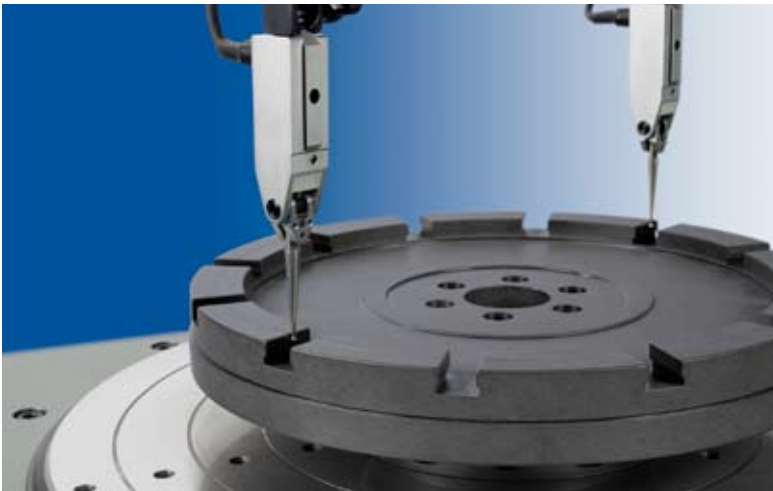
ANGULAR-check



Riedtalstrasse 16 · CH-4800 Zofingen · Switzerland
Fon +41 (0)62 746 00 20 · Fax +41 (0)62 746 00 21 · mailbox@kunz-precision.ch
www.kunz-precision.ch

Calibration of CNC-Rotary axis with ANGULAR-check

■ Kunz precision is presenting for the first time to a wide publicity the future orientated measuring system ANGULAR-check, for the simple and practice suitable calibration of rotary axis (in particular for 4- or 5-axis CNC machine tools), at the Control 2006 as a world novelty.



What used to be an extremely complex assignment and coupled with expensive devices up to date, has become an easy task with the new measuring system ANGULAR-check.



■ The core of this new measuring system forms a precision index-plate with highly accurate notches, similar to a step gauge, with the only difference that the steps are arranged circular. For the measurement the index-plate is fastened and centred on the rotary axis to be tested. With the simultaneous probing with two high resolution-measuring sensors and

the obtained differential value, highly accurate angle positions in the range of 0.1 angle-seconds can be determined.

By the use of this differential-method, possible measuring errors, resulting from excentricity, are eliminated. Similar to a laser measurement, the measuring process with ANGULAR-check is done fully automatic.

■ The index-plate is aligned vertical when used for the calibration of tilting axis. The milling head, on which the sensor system is fixed, follows herewith the tilting movement. In this manner, the deformation of the linear axis due to their weight shifting, is included in the calibration process, which makes these measurements even more practice suitable. An automatic measuring process again is guaranteed. With the PC programme ANGULAR-soft the measured values can be outlined, automatically read-in and analysed according to ISO 230.

Technical data is subject to change.