



## Excellent Solutions for your Measuring Task

Kunz Precision, a leader in metrology, calibration services compliant with ISO/IEC 17025, and the development of unique measuring systems, has been pioneering innovative solutions since its establishment in 1980. Our precision enjoys an excellent reputation in the machine tool and watch industry as well as in areas of medical technology and in national measuring institutions worldwide. Our workshop and calibration laboratory in Zofingen are equipped to handle a spectrum of projects, from miniature 0.2 kg test angles to substantial 11-ton Spindel Testing Machines spanning 8 meters. We are dedicated to delivering

excellence in customizing products to meet your unique measurement challenges.

### Aluminium Test Equipment and GEO-plus Software

While machine tools with rotary and tilting axes are trending, their calibration often relies on conventional hard stone test equipment. With the test squares made of aluminium from Kunz precision these calibrations can be carried out more efficiently and with highest accuracy. While the use of aluminium for test equipment may seem unconventional, its even temperature distribution and lightweight

characteristics make it an invaluable asset for enhancing machine precision. Combining the aluminium test equipment with our software, you will have an optimal combination for checking the accuracy of your machine tool. GEO-plus is an easy to handle, efficient measuring and evaluation program for dynamic measurements of machine tools.

### Spindel Testing Machine

How do you precisely and efficiently measure the pitch of a ball screw? Kunz precision, with over two decades of expertise in this area, has successfully tackled this challenge



**The promise of Kunz precision AG** With our measurement services and products, we contribute to metrology and find excellent solutions which inspire. Kunz precision AG excels with highest measuring accuracy – worldwide.



ISO/IEC 17025

and is introducing the sixth generation of the STM Spindle Testing Machine. This advanced machine excels in measuring ball screws with diameters from 4 to 125 mm and lengths up to 8000 mm, offering unmatched accuracy and reliability. The innovative concept of a rotating test specimen enables remarkably short measuring times, generating a substantial number of measured values for standardized evaluations and accurate classification. For ball screw manufacturers, the STM is integral to the production chain, significantly impacting end product quality and precision. Renowned for unrivalled precision,

highest flexibility, and user-friendly operation, this measuring machine surpasses industry standards.

#### **Measuring System STRAIGHT-set**

The STRAIGHT-set, Kunz Precision's time-tested flagship measuring system, ensures unmatched repeatability and minimal noise from the vacuum-air bearing, allowing the most accurate measurement results. Operating flawlessly in workshop and laboratory conditions, this versatile system excels at aligning linear guideways or axes and measuring workpieces. The heart of the STRAIGHT-set is a meticulously craft-

ed guideway made of fine-grained hard stone. Designed with fixed or adjustable 3-point support at the Bessel points, this guideway ensures utmost precision. The vacuum-air-bearing measuring slide, known as STRAIGHT-line, effortlessly glides on the guide's highly stable vacuum-air bearing pad, guaranteeing the highest level of precision, stability, and smoothness. For added convenience, STRAIGHT-set is available with optional motorization and encoder. The recording and evaluation of measured values, whether static or dynamic, are supported by specially developed software solutions.

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