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PrismMaster® software

Modern Software with Extensive Functionality

The PrismMaster® software offers an outstanding range of features and contributes significantly to the success of our product line:

- Proven, innovative algorithms allow for angle measurements with unrivalled accuracy (< 0.2 seconds of arc over 360°).
- Absolute measurement of polygons using the rosette technique, with subsequent calibration of rotary tables, rotary encoders, and other rotating systems.
- Fast detection of reflection images, sorting of distorting images, selection of the right images.

In addition to angular measurement, the software also calculates and analyses the individual measurement results and uses the data to optimize the measurement process. This eliminates, for example, the time-consuming alignment of prism surfaces to the autocollimator axis.
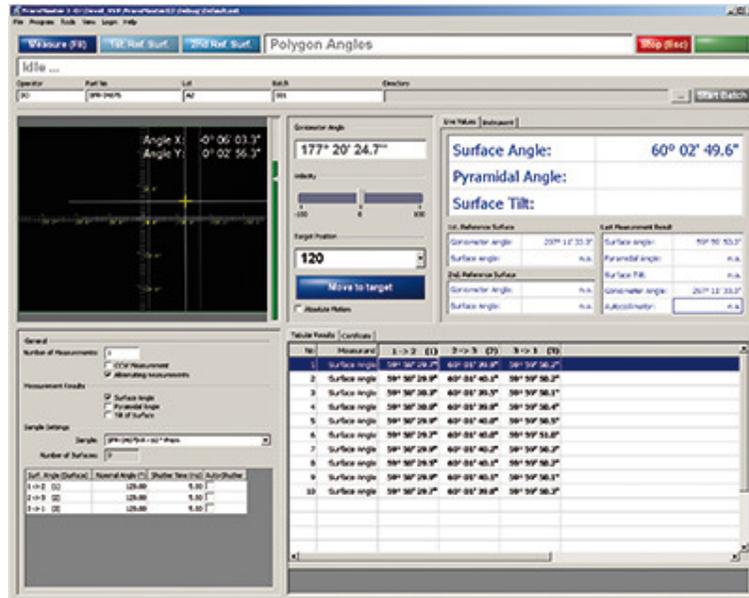
Menu-driven, modular PrismMaster® Software

The distinctive feature of the software is its intuitive, menu-controlled user interface and a variety of functions helping to simplify the measurement:

- Preconfigured measurement procedures for polygons, prisms, and other optical components
- Adaptation of measurement procedure to the type of test object: special settings for very small prisms and prisms with anti-reflection coatingsof the test object to the optical axis of the autocollimator (horizon determination)
- Calculation of pyramidal errors in different modes
- Tilt error determination of individual surfaces relative to the surface of the rotation table
- Calculation of the transmission angle after measuring all angles in reflection (the refractive index of the test sample material must be known)
- Easy conversion of the software to a simplified Production Mode
- Automated measurement process with tolerance input and sorting function
- For high-precision measurements: the calibration curve of the encoder is used for correction of the measurement results