DT 140



DIAMETER MEASURING SYSTEM

_ equipped with electronic control of measuring cycle via touch screen interface. software controlled editing and configuration of automated motion cycles, linked to the specific job (X-dt package required)

_ highly precise and easy to use system for measuring the diameters, roundness and cone on optical elements in both, production and quality inspection environments

_ designed for long term reliability and cost effective operation

_ measurements of secondary diameters, roundness and taper are supported in addition to the primary diameter

_ lenses automatically centered with an innovative precision 3-jaw chuck system

_ direct measurement of diameter achieved through automatic pneumatic actuation of probes that touch the edge of the work-piece

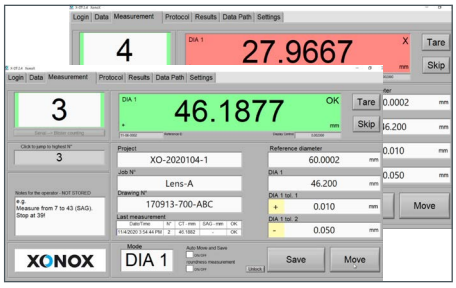
_ probe contact height is adjustable to be compatible with steps and other edge features

_ optimized for safe, fast and easy setup and loading of workpiece

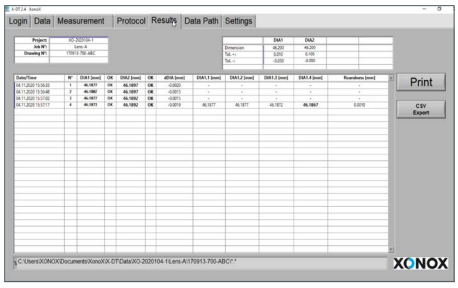
_ large measurement range from below Ø8mm up to Ø140mm

_ foot switch for easy and efficient measurement of series

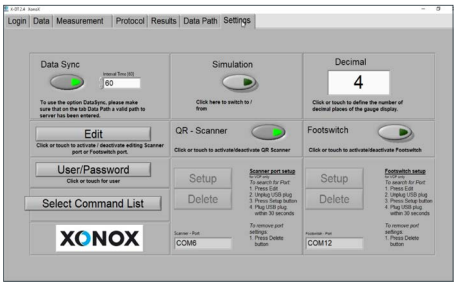
_ software and controller package „X-dt“ offers additional measu-rementmodes, automatic documentation createn and datalogging of measurement results



- easy and touch screen optimized dialogue user interface
- automatic counting / numbering of lenses
- green (in spec) or red (out of spec) display of measurements
- data input manually or via QR-code reader



- automatic documentation of all measurements
- listing of Diameter(s), Roundness and Taper / Conic Error
- automatic marking IN/OUT of spec for all dimensions
- extensive data export functions + XONOX IQC compatible



- intelligent and easy-to-use setup for administrative functi-ons and user handling
- quick setup for auxilliarry equipment such as QR reader, foot switch etc.
- easy network integration and path settings for documen-tation

WORKING RANGE	50 mm travel of measuring gauges on different adjustable positions
DIAMETER RANGE	Ø8mm - Ø140mm
MEASURING SYSTEM	digital precision measuring gauge with 0.5µm resolution.
MEASURING ACCURACY	resolution: 0.5µm | Accuracy ≤ 2µm @ 20°C (higher accuracies via setup procedures | Repeatability: 1µm
DIMENSIONS (WxDxH) / WEIGHT	460 x 400 x 650mm / approx. 35Kg
CONNECTIONS	110-240 V / 50-60 Hz, compressed air: 6 bar
COLOR	Light grey RAL 7035

XONOX Technology GmbH
Kirchstrasse 9 // 35625 Hüttenberg // Germany
Phone +49 6441 96364-0 // Fax +49 6441 9636410
info@xonox-tec.com // www.xonox-tec.com

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