



Automation & Robotics

R X L A B S

MCSFU

CONTACTLESS FRONT CURVE MEASUREMENT OF SF SINGLE VISION LENSES

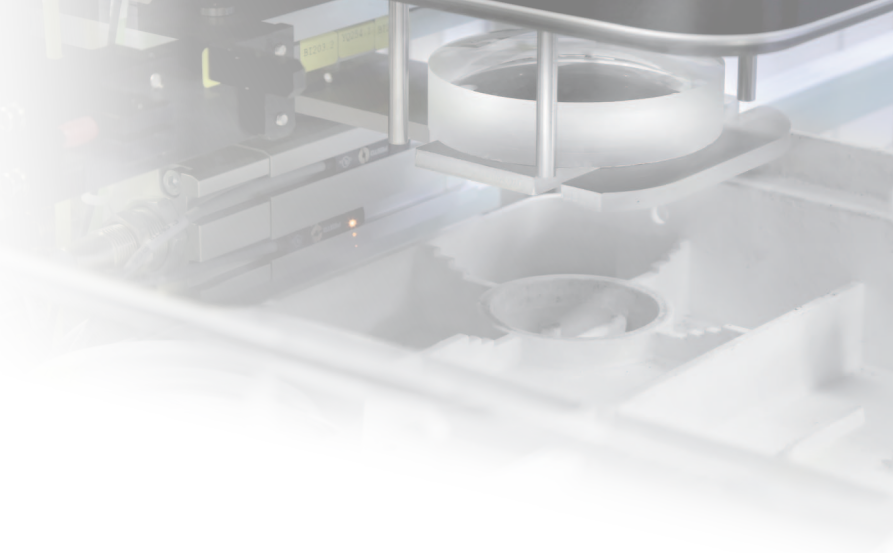
- Systematic control of your single vision SF lenses at the beginning of the manufacturing process
- More accurate Rx lenses (->possible optimization of the back side calculation, based on the real front curve values)
- Useful statistical data to qualify your suppliers



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CONTACTLESS FRONT CURVE MEASUREMENT OF SF SINGLE VISION LENSES



CAPACITY

165 jobs/hour



MAIN FEATURES

- › Contactless curvature measurement of the convex surface for single vision SF lenses.
 - The measurement result is the average surface power performed around the geometric center (disk of 8mm).
 - The spherical equivalent (“DPT”) represents the mean value of the power along the 2 main meridians.
- › Independent module, connected with the lab server :
 - Input data: barcode or RFID reading to get the work order information (nominal values)
 - Output data: the measured values (OMA/VC-DCS data “INSFRNT; INSFCYL; TOLFRNT ; TOLFCYL”) can be sent back to the LMS. The actual front surface power can be taken into account for the back surface calculation.
- › Measurement analysis: the measured front power will be compared to the nominal value and a tolerance test can be performed, following the ISO 10322-1:2006 (Tolerances on surface power and astigmatic surface power)



BENEFITS

- › Systematic tolerance check of all single vision semi-finished lenses at the beginning of the manufacturing process (reactivity)
- › Immediate detection of a bad lens (mispack, power out of tolerance...)
- › Useful tool to qualify your suppliers of semi-finished lenses
- › More accurate prescription lenses (real front curve values taken into account)
- › Pertinent measurement data (ISO/ANSI compliant)
- › Small foot print (L 700 x W700 x H 1700 mm)
- › Easy maintenance
- › VC/DCS (OMA) compatible