

# VT 1000 DL

## VERTICAL DOWNWARD LOOKING INTERFEROMETER SYSTEM

- \_ precision vertical downward looking interferometer system for full aperture testing of optics in production-, quality inspection- and metrology lab environments
- \_ optimized for the use in combination with sub-aperture polishing- and correction processes on flat optics, spheres and aspheres
- \_ integrated features and technologies for perfect alignment of measuring data with the coordinate system/axis of sub aperture correction machines for achievement of highest correction quality and efficiency
- \_ natural granite column with extremely flat and precise guiding surfaces provide for ease of use and very accurate measurement of radius of curvature on optical components
- \_ highly precise and accurate linear scale with exceptional resolution, directly interfaced to fringe analysis software
- \_ measurement table(s) is balanced and guided on air bearing slide for quick, easy and accurate setup and movement
- \_ fully closed measuring area with innovative door system for precise and reliable, undisturbed measurements
- \_ robust vibration damping system, perfect for use in industrial production environments
- \_ XONOX **X-fiz 100** (4") or **X-fiz 130** (5.2") high performance Fizeau interferometer with electronic control of optical zoom (1x to 10x), focus and contrast
- \_ innovative, powerful and user friendly fringe analysis system **X-fringe2** with different smart and intelligent modes to suit various applications
- \_ choose from low cost „ST“ version with static fringe analysis up to high performance „PS2“ phase shifting version
- \_ additionally available in a "tower only" version „B“ for integrating existing or 3rd party interferometer units or version „Z“ equipped with ZYGO Verifire and ZYGO MX fringe analysis software



<b>WORKING RANGE</b>	min. 1000mm travel, up to 250mm test diameter (depending on used TS and part holder) + micrometer fine adjustment for easy and precise adjustment of cats eye and confocal position
<b>VERSIONS</b>	<ul style="list-style-type: none"> <li>_ <b>VT1000 DL ST</b> with XONOX <b>X-fiz 100</b> (4") / <b>X-fiz 130</b> (5.2") with <b>10x</b> optical zoom and static fringe analysis system XONOX „<b>X-fringe ST</b>“</li> <li>_ <b>VT1000 DL PS2</b> with XONOX <b>X-fiz 100</b> (4") / <b>X-fiz 130</b> (5.2") with <b>10x</b> optical zoom, phase shifting fringe analysis system XONOX „<b>X-fringe2</b>“ and piezo phase shifter XONOX „<b>X-phase PMR</b>“</li> <li>_ <b>VT1000 DL Z</b> with ZYGO Verifire 4" or 6" interferometer unit and Mx / MetroPro phase shifting fringe analysis</li> <li>_ <b>VT1000 DL B</b> „tower only“ version for integrating existing interferometer units. Optionally with XONOX fringe analysis system X-fringe ST or X-fringe PS with X-phase PMR phase shifter.</li> <li>_ <b>All versions</b> can be equipped with 1 or 2 measuring slides and CGH multi axis holder on request</li> </ul>
<b>MEASURING SYSTEM</b>	incremental high precision linear measuring system with PC interface + attachment SRM-plus for short radius measurement (option) or laser distance measuring system (option)
<b>MEASURING ACCURACY</b>	up to +/- 0.7µ per 500mm , up to 1 nanometer resolution
<b>DIMENSIONS (WxDxH) / WEIGHT</b>	1200 x 900 x 2800 mm (additional space required if PC is used for fringe analysis, XONOX PC-table optionally available) / approx. 950kg
<b>CONNECTIONS</b>	110-240 V / 50-60 Hz, compressed air: 6 bar
<b>COLOR</b>	Light grey RAL 7035

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METROLOGY FOR OPTICS REDEFINED