

Portable Roll Microscope with LED-Illumination

Gräfelfing, 17.03.2008. The latest development of Opto Sonderbedarf GmbH in the field of optical inspection is a portable Roll-Microscope with an ergonomic handle and integrated X/Y-table. Useable for rolls and flat surfaces, it allows a quick and flexible in situ inspection with the highest optical performance. Maximum diameter for rolls is just 60 mm.



Magnifications of 40-, 100-, 200- and 400-times can be switched easily through an objective revolver. A sensitive adjustment of the microscope using micrometer spindles allows a movement of 25 mm in X/Y direction. Using a combined coarse / fine focusing device with a sensibility of 0.001 mm, the Z-axis can be focused at a range of 70 mm. Due to the integrated C-Mount this trinocular microscope allows a easy connection of cameras for documentation and measurement purposes. An Integrated reticule with graduation of 10 mm in 100 divisions enables even manual measurements. For a

higher ergonomic usability, the head is turnable by 90° from the middle position to the left and right hand site. Clearly a highlight is the adjustable coaxial illumination, which is available in a battery- and a mains-operated version.

With its weight of just 4 kg it is ideal for all inspection tasks where the size of the object or a high repetition rate doesn't allow a normal stand microscope. For remote locations or often changing inspection sites the battery-operated version is the perfect companion.

As an option for contactless layer thickness measurement up to 1.8 mm and a resolution of 1 µm there is a digital gauge with apt clamp available. Additional you can order a carrying case.

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About Opto Sonderbedarf GmbH:

Opto is a manufacturer of innovative optical systems and components which enable the visualisation of microscopic and macroscopic structures with the highest quality.

Opto's goal, in conjunction with its suppliers, clients and end users is to provide customer oriented inspection solutions, designed perfectly to application, balancing advanced optics and complex mechanics in perfect harmony.