

# Portable Microscope

- High performance mobile microscopy
- Objective turret with 4 magnifications
- High power LED coaxial illumination
- Integrated C-mount for camera adaption
- Integrated XY micro-positioning mechanism
- Rotating trinocular head
- Integrated graticule for measurements
- Cable free operation
- Ergonomic design



Designed, manufactured and tested in Germany to the highest optomechanical standards.



Overall magnification of  
50x, 100x, 200x and 500x



### Applications

- Print roller inspection
- Aircraft wing inspection
- Metal sheet inspection
- Micro hole inspection
- Rail inspection
- Portable metallurgy
- Fracture inspection and measurement
- Corrosion analysis
- Forensic field examination

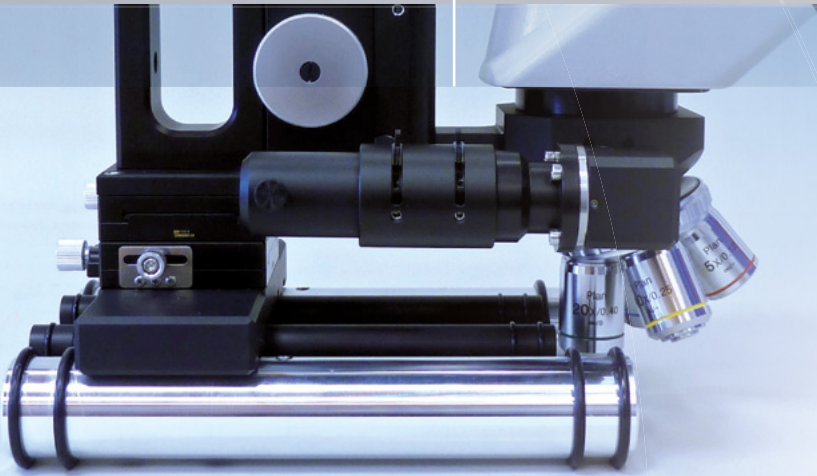
### Ultimate portability

The Opto Portable Microscope is designed to offer the ultimate solution in portable microscopy. With its ergonomic design, robust build quality, and perfectly optimised optical configuration, the Opto Portable Microscope is ready to take on the most demanding field microscopy inspections.

Offering cable-free portability and extended long life, the instrument features the very latest in ultra high power coaxial LED technology, with options even for advanced illumination techniques such as Kohler contrast enhancement.



High intensity, battery powered LED ensures cable free long life performance



## Powerful as standard

Designed to replicate the raw imaging power, magnification and functionality of your lab microscope, the Opto portable scope is the ultimate solution for remote high resolution microscopy. As standard, the instrument is configured with a trinocular head, fitted with high quality infinity corrected objectives, providing 50x, 100x, 200x and 500x optical magnification. A host of configurable illumination options are offered ranging from ultra bright LED battery power to contrast enhancing Kohler options.

## Camera ready

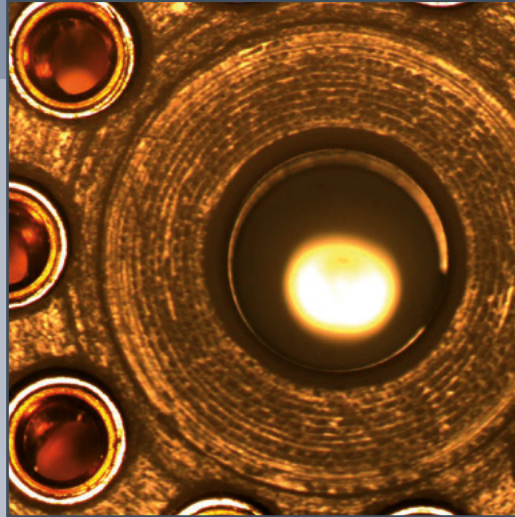
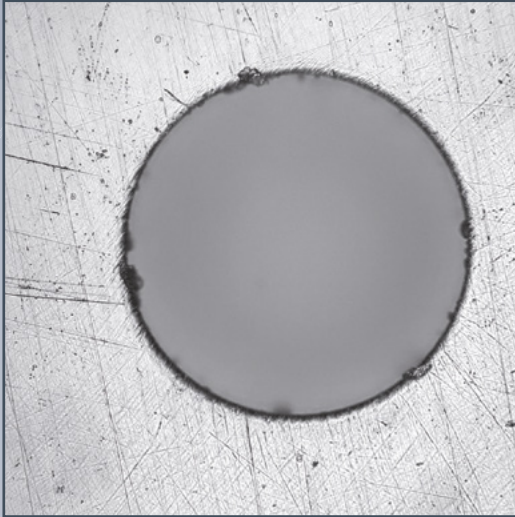
Whether you choose the trinocular head or the standard video head, your Opto portable scope will always be camera ready. With an industry standard c-mount fitted to both configurations, you're free to use your own existing camera and imaging software, or alternatively, specify one of our recommended high resolution camera packages.



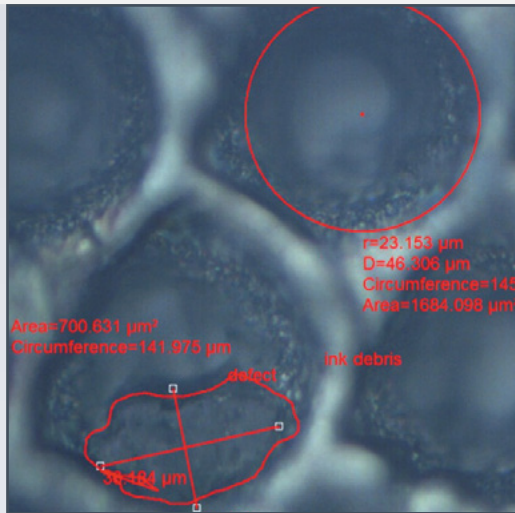
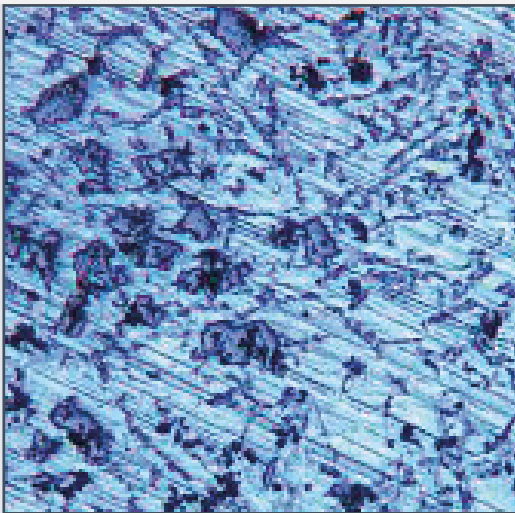
## Portable micro-metrology

In addition to providing class leading portable microscopy, your Opto portable scope is designed to offer high performance in mobile metrology. With its integrated graticule, high precision X/Y traverse mechanism, ultra fine focus drive, and optional digital height gauge, measurements, depths and heights of objects and features can be captured easily and reliably.





Measurement and analysis of micro holes.



Analysis of surface metal finishing

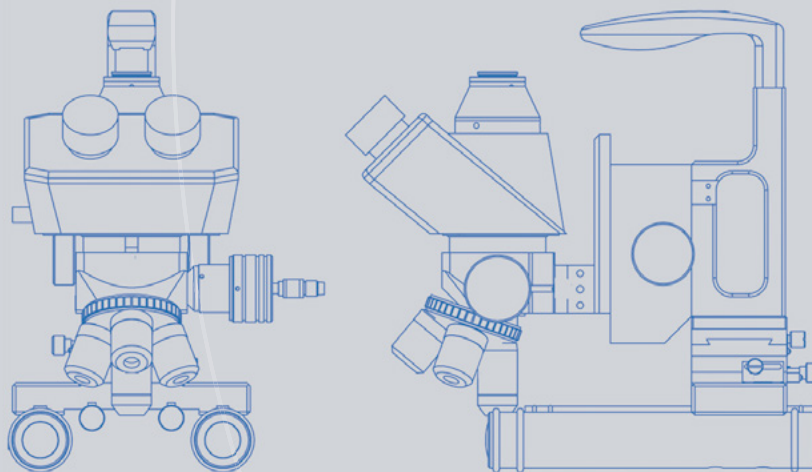
High definition imaging and metrology of Anilox rollers

## Technical Features

Article number: 043-112414

- Compatible with roll surfaces down to 60 mm diameter
- Sensitive positioning of the microscope with integrated XY stage  
Travel: 25 mm; Spindle pitch: 0.5 mm; Scale division: 10  $\mu\text{m}$ ; Adjustment sensitivity: 5 $\mu\text{m}$
- Z-axis movement with coarse/fine focusing device,  
Travel in coarse gear: 70 mm; Travel in fine gear: 1.9 mm; Fine Drive Sensitivity 0.001 mm
- Carry handle in ergonomic design
- Optional digital gauge clamp for depth & height measurement
- Dimensions approx. 305 x 167 x 287 mm
- Weight approx. 4.9 kg
- Digital gauge and transport case optional

Specifications are subject to change without prior notice



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**Opto GmbH**  
Lochhamer Schlag 14  
82166 Gräfelfing  
Munich, Germany

+49 89 89 80 550  
info@opto.de  
www.opto.de