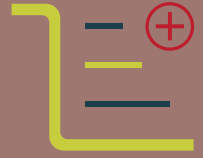


APPLICATION NOTE MEDICAL



INSPECTION OF STENTS

ILLUMINATING THE ENTIRE VISIBLE PERIMETER OF THE SURFACE

INSPECTING THE SURFACE QUALITY AND CUTTING EDGES.



Stents inspection is often difficult and time consuming because standard ring lights only illuminate a small section of the surface. The stent used in this application has a diameter of about 2 mm.

L.E.S.S. lighting system provides a perfect illumination of the entire visible surface and speeds up inspection.

FEATURES OF L.E.S.S. LIGHTING SYSTEMS

- Bright and Darkfield ring lights simultaneously assembled on the same microscope
- Easy working distance adjustment
- Darkfield illumination in "Brightfield Mode" thanks to variable Darkfield height
- Easy toggling from Bright to Darkfield illumination without setup changes
- Separate intensity control for each unit
- Uniform and diffuse illumination with neutral white light (5400 °K)
- No heat dissipation from the ring lights
- Free view and easy access to the specimen



APPLICATION

Fig.1 has been taken using the L.E.S.S. Brightfield at a working distance of 100 mm. While the stent is illuminated in a diffuse and uniform way, major parts of the visible surface remain dark.

Fig.2 an additional Darkfield ring was positioned about 20mm above the stent, to extend the lit region. In this configuration, the entire visible area is well illuminated, which speeds up inspection cycles and improves the quality of the inspection.

Fig.3 has been taken with the L.E.S.S. Darkfield positioned 5mm above the stent. The light surrounding the sample at low angle provides an excellent contrast of the surface structure and edges.



Fig.1
Stent lit by L.E.S.S. Brightfield

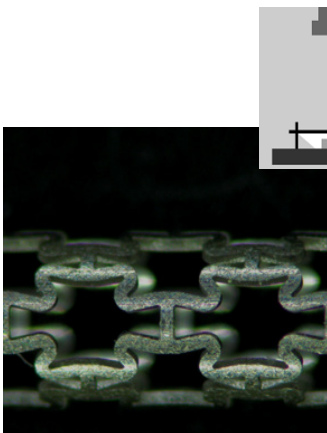


Fig.2
Stent lit by L.E.S.S. Brightfield & Darkfield

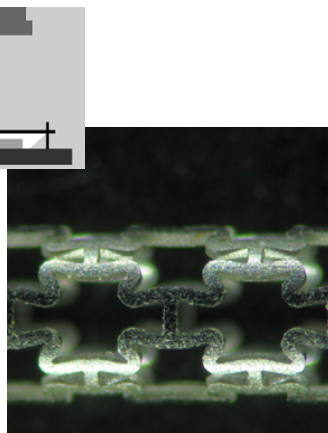


Fig.3
Stent lit by L.E.S.S. Darkfield

RISK CLASS 0
EN 62471 : 2006

EYE-SAFE
CLASS 1 LASER PRODUCT
ICE 60825-1 2014-05



L.E.S.S. SA

Av. de Longemalle 13
CH-1020 Renens, Switzerland
Tel : +41 21 552 07 10

LESS 
 BE BRILLIANT