

GE
Measurement & Control Solutions



Brighter than ever

Integrated UV light source ELS 120UVXLG3
and XLG3 video borescope system
for fluorescent penetrant inspection



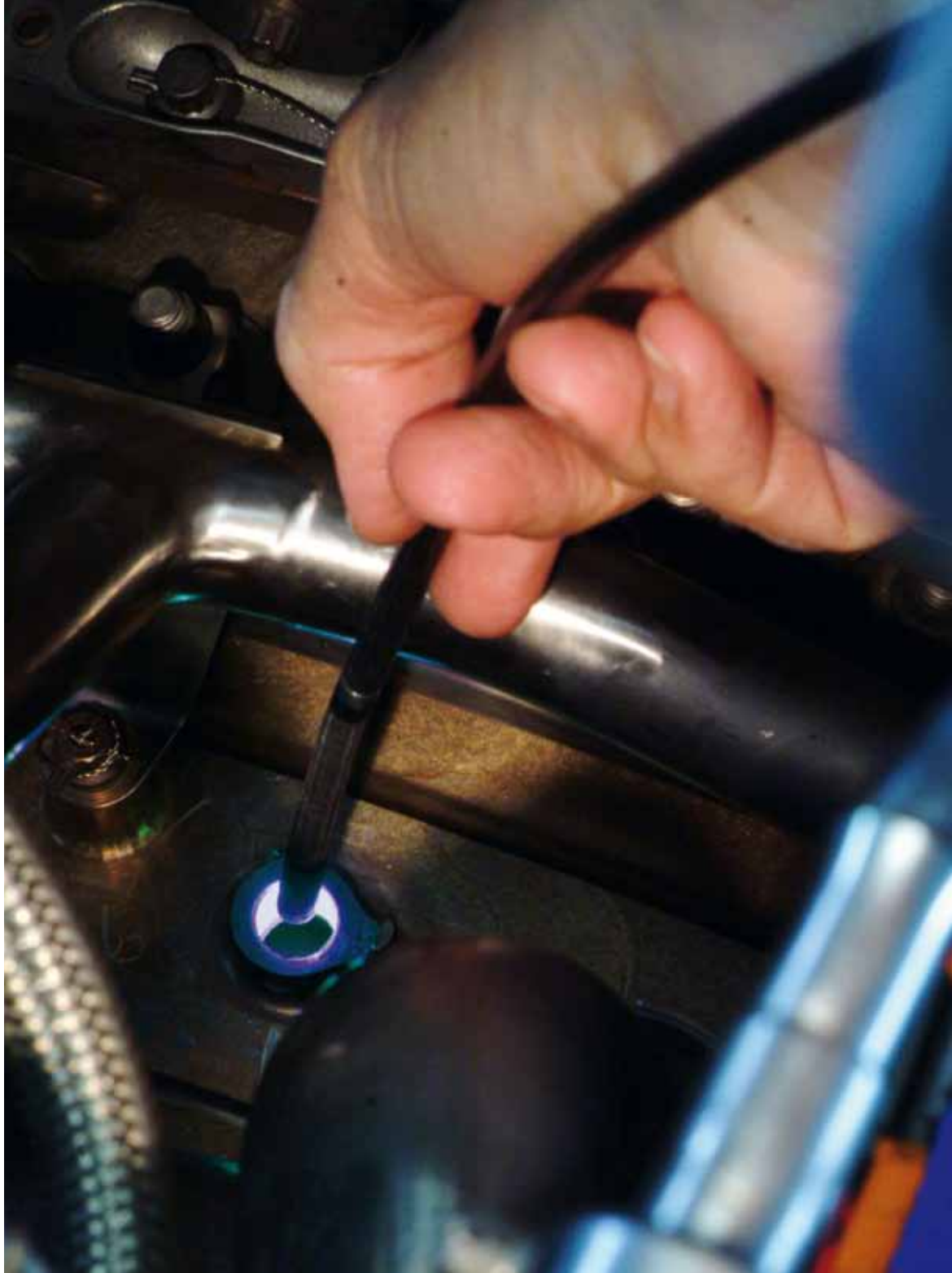
GE imagination at work

Industries

- Aviation
- Power stations
- Chemicals industry
- Plant engineering
- Refinery
- Automotive industry
- Food industry

Available probe diameters

- 3.9 mm
- 5.0 mm
- 6.1 mm
- 6.2 mm
- 8.4 mm



UV light source ELS 120UVXLG3



Everest XL G3 VideoProbe®



Penetrant



Reliable
Inspections

Fluorescent penetrant testing with UV light

The XLG3 Video Borescope, combined with a UV light source, integral quartz light fibers and correct UV optics and filters, presents the optimal solution for fluorescent penetrant inspections. This solution delivers maximum UV light levels, with low reflection, and the ability to access small remote areas of equipment.

Functional principle of the fluorescent penetrant test

The surface is first cleaned, then wetted with a fluorescent penetrant. The penetrant is drawn into small surface defects by capillary action. After a rinse step, the penetrant remains only in the defect, which can be seen and measured using the UV light.

Scope of application

The compact size of the integrated probe and UV light makes new applications possible. Difficult to access components such as turbine blades or weld seams can be examined in-situ.

In automotive manufacturing, some manufacturers add UV fluorescent substance to auto body sealing wax in order to inspect and verify the coating process.

The XLG3 system with UV is available from 3.9 mm to 8.4 mm diameter probes, so inspections are possible in equipment with access of only 4 mm!



Examination of welding seams



Examination of installed turbine blades by means of a 3.9 mm UV videoscope: a hairline crack can be clearly seen.



Inspection of the inside of a car body

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