



## Non Destructive Testing with high intensity UV-light

Fluorescent Magnetic Particle Inspection (MPI) and Fluorescent Penetrant Inspection (FPI) are common methods in the NDT field, and the Labino® lamp is unbeatable using either of the methods.

### A new generation – a new performance

Since MPI and FPI became standard practices, traditional UV-A lamps have been used, typically fitted with 125 W mercury vapour bulbs. A traditional mercury vapour UV-A lamp requires 15 minutes to reach full effect. In case the lamp is exposed to magnetic fields, it will shut-off, needing 10-15 minutes to cool-off and 10-15 minutes to warm up again. Burn injuries on hands and face are common due to extensive heat generation. The lamps are normally left on for long periods of time, heating the entire work place, with excessive energy being consumed as well. The bulbs are heavy and fragile with comparatively short service lives.

### What makes the Labino® UV-lamp unbeatable?

- Unprecedented UV-intensity, up to  $>50\,000\ \mu\text{W}/\text{cm}^2$  at 30 cm and full UV-A emission. This creates new possibilities, i.e. inspections in normally lit areas, even outdoors in daylight with maintained contrast-to-background and maximized probability of detection. Quality and safety is improved, time of inspection is reduced.
- 35 W output power – low heat generation and energy consumption. No need for cooling fans. Creates a pleasant work environment and reduces energy costs.
- Immediate start/restart – full power in approximately 5-15 seconds. Time saving.

- Unaffected by magnetic fields – highly suitable for MPI. Time saving.
- Dust tight and temporary water jetting proof. Can be used in rough conditions, even outdoors (IP65 certified). UV-filter will not crack if exposed to fluids. High quality.
- CE-marked – according to electromagnetic compatibility and the low voltage directive. Safe.
- ETL/cETL approved – by Edison Testing Laboratories, according to UL and CSA standards. Safe.
- Semko approved. Safe.
- Comprehensive product range, including different mains, voltages and portable battery operated units with a choice of handles. Flexible.

