



Reference case

Labino® UV lamps – Compact PH135 and Duo PS135 models

“Labino lamps provide better inspection results”

Mr. Ren Ming Zhao, Assistant Researcher with China Railway, based in Beijing, reports his findings regarding the use of Labino UV lamps for non-destructive testing purposes.

-China Railway has been using Labino UV lamps for the past three years, says Mr. Ren Ming Zhao. We have tested both the compact PH135 model and the duo PS135 model and have used both floodlight and spotlight reflectors. We use Labino lamps in combination with magnetic particle inspection (MPI) for finding cracks on the surface of wheels, side-bearers, and bolsters.

Other lamp models can't compete

-Mr. Ren Ming Zhao explains that other lamps do not offer the same benefits that Labino lamps provide. We have tried other lamps but the difference is that other lamps start slowly, have high heat production, require pre-warming and cooling, and the light bulb often becomes broken if it is subjected to jetting water during inspection.

Labino delivers benefits

-The high UV intensity from Labino lamps, combined with the fact that there is no need for pre-warming or cooling and that the lamps are water jetting-proof, are a few of the reasons why we can recommend Labino UV lamps, says Mr. Zhao. Labino lamps start quickly, generate low heat, and have a nice design. All of these factors combine to provide better inspection results.

Daylight inspections

-Due to the high intensity of the light emitted from the Labino UV spotlight lamp, it is possible to conduct inspections in daylight. This was not previously possible with other brands of lamps. Consequently we have changed our standards and routines. Daylight inspections may now be performed, but only under the condition that the technician uses a Labino PS135 Spotlight. Based on our experience, it is possible to perform daylight inspections up to a distance of 380 millimeters (3.8 meters), says Mr. Zhao.

*Mr. Ren Ming Zhao
Assistant Researcher
China Railway
Beijing, China*



Lamp used in this case study: Labino® UV lamp model PH135 and PS135 with Floodlight and Spotlight reflector.

(Note: This interview was originally conducted in Chinese. Information contained in this article has been translated into English. The editor has made every attempt to preserve the integrity of the original text and to translate the text as accurately as possible).