

POLYBRIGHT NEWSLETTER N°3

June 2012



Hello,

Here comes some new information from the European Project [PolyBright](#) „Extending the process limits of laser polymer welding with high-brilliance beam sources“.

Please find here

▶ [Latest public project results & highlights](#)

▶ [7 talks on the perspectives of polymer welding with lasers](#) held by Polybright partners in May 2012 at international laser conference and exhibition AKL in Aachen (DE).

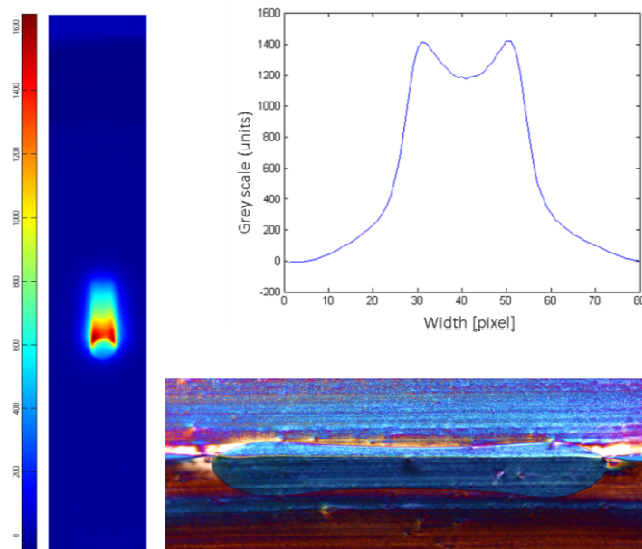
If you participate in [Industrial Technologies 2012](#), June 19-21, 2012 at Aarhus (DK)

▶ we kindly invite you to visit the **Polybright-Alpine stand nr. 91 in the foyer.**

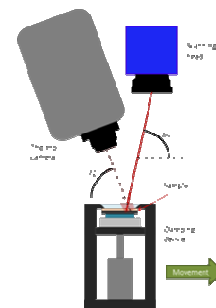
Feel free to forward this information to any of your colleagues who might be interested. Thanks!

If you have any questions you can contact us on: polybright-info@eurtd.com

Monitoring TWIST laser welding using thermal camera



Circle; power 6 W; feed rate 25 mm/s; $\delta = 0,4$ mm; TWIST freq. 2000 Hz



Top: Experimental setup for monitoring TWIST polymer laser welding using thermal camera.

Left: 2D infrared image, averaged signal at right angle across the laser section and microtome slice cut showing the welding zone.

TWIST welding with 0,8mm diameter circle at 2000 Hz, welding speed 25 mm/s, Laser beam diameter 80 mm, Laser power 6W, wavelength 1060 nm

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