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**Press release**

**Freiburg, 16<sup>th</sup> August 2012**

**Laser projector supports the assembly of rotor blades (wind turbines)**

**Z-LASER**, a leading manufacturer of laser modules and systems, offers the laser projector **LP-HFD** with red or green laser source performance up to 40mW. In the manufacturing sector 2D/3D laser projectors are used in various production steps in the lay-up processes. Due to the size and the materials many work steps are still effected by extensive hand lay-up. An important point in such applications is precision in the production, in this place the decisive mm are indicated by the laser beam (mathematically, an optical resolution of 1/819, as well as less than 0.5 mm per metre projection distance are provided).The projector provides interfaces for all common 3D-CAD design programs to display contours on any curved surfaces such as large wind wings.

Project, mark and control with the help of laser projectors: Exact positioning of work pieces or viewing the next work step by the laser light for large surfaces offer considerable advantages. Set patterns of fiber mats are created faster, the manual correction is significantly reduced, and the quality is constantly kept high. An optimal order and placement is achieved by taking care of the individual material properties. A 50Hz flicker-free laser projection of words or numbers, for example for the tool selection, is also possible and then serves as an installation support.

The custom-built software (LPM) allows a complete control over the laser projector from the PC and is flexible in its design. Data for each of the required projections can be transferred serial, via RS-232, Ethernet or optional WLAN. As well, the laser projector **LP-HFD** can be extended with a freely configurable industrial remote control to switch the subject directly on the work place. Two needs-adapted versions of the laser projectors are available with opening angles of 80° x 80° for wide area coverage or 60° x 60° with higher repetition rate for more accuracy. To cover complete wind wings with a laser field in the production halls, usually a multi projection system is used, where multiple projectors are connected in series. The system is equipped with a temperature drift compensation to ensure always an exact display in changing environments in warm halls. Additionally the case housing can be upgraded with an active air or separate water cooling.

**About Z-LASER**

Since inception in 1985, **Z-LASER** is known as a manufacturer of industrial laser systems for manufacturing, medical and scientific applications. The team has its own large development department that utilizes our expertise in optoelectronics and laser technology to come up with innovative solutions. For more company details see [www.z-laser.com](http://www.z-laser.com).

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