

Philips Photonics Develops Laser System for IMA Woodworking Machines

Philips Photonics has developed a high power laser system for edge banding of furniture panels in collaboration with IMA Klessmann GmbH, technology leader in machines for processing of wood materials.

The **IMALUX direct laser system for seamless edge banding** was recently presented at the LIGNA 2015 trade show as a world novelty for small and medium size shop owners. The silent and energy-efficient system is four times more efficient and provides better quality than comparable hot air systems. It is simple to use and offers an excellent price-performance ratio compared to conventional heating systems and current laser solutions.

The novel system is based on Philips Photonics VCSEL near-infrared micro-laser technology for area heating. The robust laser units are providing high power density on large treatment areas directly, without the need for expensive and delicate optics, and can be scaled to any required size up to tens of kilowatts of heating power. Moreover, the units are composed of many small heating zones which can be independently activated and controlled, thereby enabling flexible optimization of heating profiles and generating structured heating patterns.

World novelty IMALUX -
direct laser system for
through-feed machines
in small and medium shops

