

COHERENT at the LASYS 2010

From 08th to 10th of June, the international materials processing branch meets at the LASYS 2010 in Stuttgart, Germany. COHERENT presents laser sources and processing samples at its booth F12 in Hall1.

DIAMOND E-1000 – The Smallest 1 kW CO₂ Laser Available



▲ DIAMOND E-1000

The DIAMOND E-1000 is a sealed 1 kW CO₂ laser measuring less than 1500 mm × 500 mm × 400 mm – including its integrated power supply – making it the most compact product available

at this power level. It is ideally suited for use in space-sensitive applications involving cutting, drilling of paper, plastics, glass, carbon composites, and metals. The Diamond E-1000 requires no external gas supply. The only connection to the laser is a power cord, and this lightweight laser can easily mount on to a moving robot arm.

AVIA – Green Laser Optimized for Micromachining

The AVIA 532 is a Q switched, frequency doubled, diode-pumped solid-state laser, offering 45W of average power at a wavelength of 532 nm. The patented PermAlign™ technology means that our optics never move over time, thus eliminating one of the most common failure mechanisms of all lasers. With a repetition rate of up to 300 kHz, this AVIA laser delivers an excellent combination of high throughput speed and low cost of ownership for applications such as P2 and P3 patterning of



▲ AVIA green laser

thin film solar cells, micromachining of Micro SD card packages, microelectronics package singulation and silicon via drilling.

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