

BLADE-Series – technological quantum leap for lasers in material processing

A true novelty - **DuoBLADE**, the world's first laser, enabling to switch between selectable wavelengths, for maximum versatility in micro- and macro-material processing. If marking, scribing, engraving or deep-engraving onto virtually all kind of materials such as metals, plastics, synthetik compounds and ceramics – the **DuoBLADE** will be ahead with its selectable 1064nm, 532nm or 355nm wavelength. A built-in FSA (Failure Safe Alignment) feature allows µm-precise, true positioning of objects, aiming for 0-defect operations. Advantageous compared to conventional red-beam-allocation, the advanced **DuoBLADE** concept enables a congruent working- and allignment beam.

The **BLADE** laser series is classified in a range of pulsed 1064nm and 532nm devices, offering superior beam-quality (near diffraction limited TEM₀₀) at average output-power levels from up to 40W (1064nm). Pulse energies with 2mJ@1kHz corresponding with 1mJ@30kHz/1064nm respectively 1mJ@6kHz/532nm and pulse repetition rates up to 500 kHz, offer – in contrast to fibre laser concepts – the widest application spectrum at all, including gold-, copper-, glas diamond- as well as LIBS - and solar cell processing.

Compact Laser Solutions GmbH (CLS) latest product roll-out combines the particular advantages of matured diode-pumped-solid-state (DPSS) technology with the upcoming fibre laser method into a revolutionary laser concept. The **BLADE** comprises latest laser innovation features but complements invaluable, unique characteristics. The trendsetting resonator composition provides superior efficiency, cutting the strain for the diode to a minimum, resulting in a ultra compact beam-source, with outstanding life-time up to 100.000 hours. Its wholly air-cooling technology allows the miniaturized footprint and weight, ensuring an easy integration with lowest service and maintenance efforts. Supplemented by its modular layout, including sealed couplings for laser head (180 x 180 x 49 mm) and control unit (350 x 350 x 90 mm) connection, even diode exchanges are assignable to users/owners.

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