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DILAS

The diode laser company.



Multi-kW High-Brightness Fiber Coupled Diode Laser Based on Two Dimensional Stacked Tailored Diode Bars

We have developed a scalable and modular diode laser architecture that fulfills these requirements through use of a simple beam shaping concept based on two dimensional stacking of tailored diode bars mounted on specially designed, tap water cooled heatsinks. The base element of the concept is a tailored diode laser bar with an epitaxial and lateral structure designed such that the desired beam quality in slow-axis direction can be realized without using sophisticated beam shaping optics. The optical design concept is based on fast-axis collimator (FAC) and slow-axis collimator (SAC) lenses followed by only one additional focusing optic for efficient coupling into a 400µm fiber with a numerical aperture (NA) of 0.12.

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