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Tailored bar concept for 10 mm-mrad fiber coupled modules suitable to kW-class direct diode lasers

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ABSTRACT

In this paper, bar modules based on newly developed tailored bars are presented. The modules allow efficient fiber coupling of more than 320 W into 10 mm-mrad or 160 W into 6 mm-mrad at one single wavelength. The tailored bars enable power handling capacities of up to 100 W/cm² and are suitable for high repetition rate applications. The modules are suitable for high repetition rate applications and are suitable for high repetition rate applications.

Keywords: Fiber coupled laser, Direct diode laser, Fiber coupling

1. INTRODUCTION

Direct diode laser bars are the most compact and efficient laser sources for high power applications. They provide high power densities and are suitable for high repetition rate applications. The bars are suitable for high repetition rate applications and are suitable for high repetition rate applications.

2. MODULE LASER CONCEPT

The laser concept is based on a tailored bar concept. The bars are suitable for high repetition rate applications and are suitable for high repetition rate applications. The bars are suitable for high repetition rate applications and are suitable for high repetition rate applications.

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Tailored Bar Concepts for 10 mm-mrad Fiber Coupled Modules Scalable to kW-class Direct Diode Lasers

Laser modules based on newly developed tailored bars are presented. The modules allow efficient fiber coupling of more than 320 W into 10 mm-mrad or 160 W into 6 mm-mrad at one single wavelength. For further power scaling dense wavelength coupling concepts are presented which enable kW-class lasers with a beam quality of 10 mm-mrad.

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