



LARGE-CORE AMPLIFIER MODULES

FOR ULTRASHORT PULSES

OUTSTANDING BEAM QUALITY

FOR OEM INTEGRATION

SPLICELESS LMA FIBER AMPLIFIER MODULES

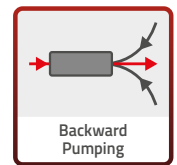
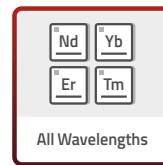
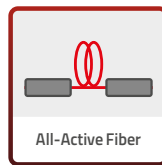
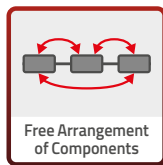
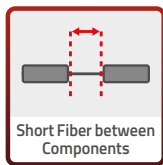
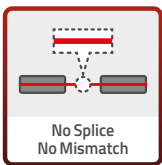


SPLICELESS LMA FIBER AMPLIFIER MODULES

OUTSTANDING OPTICAL PERFORMANCE

Highlights

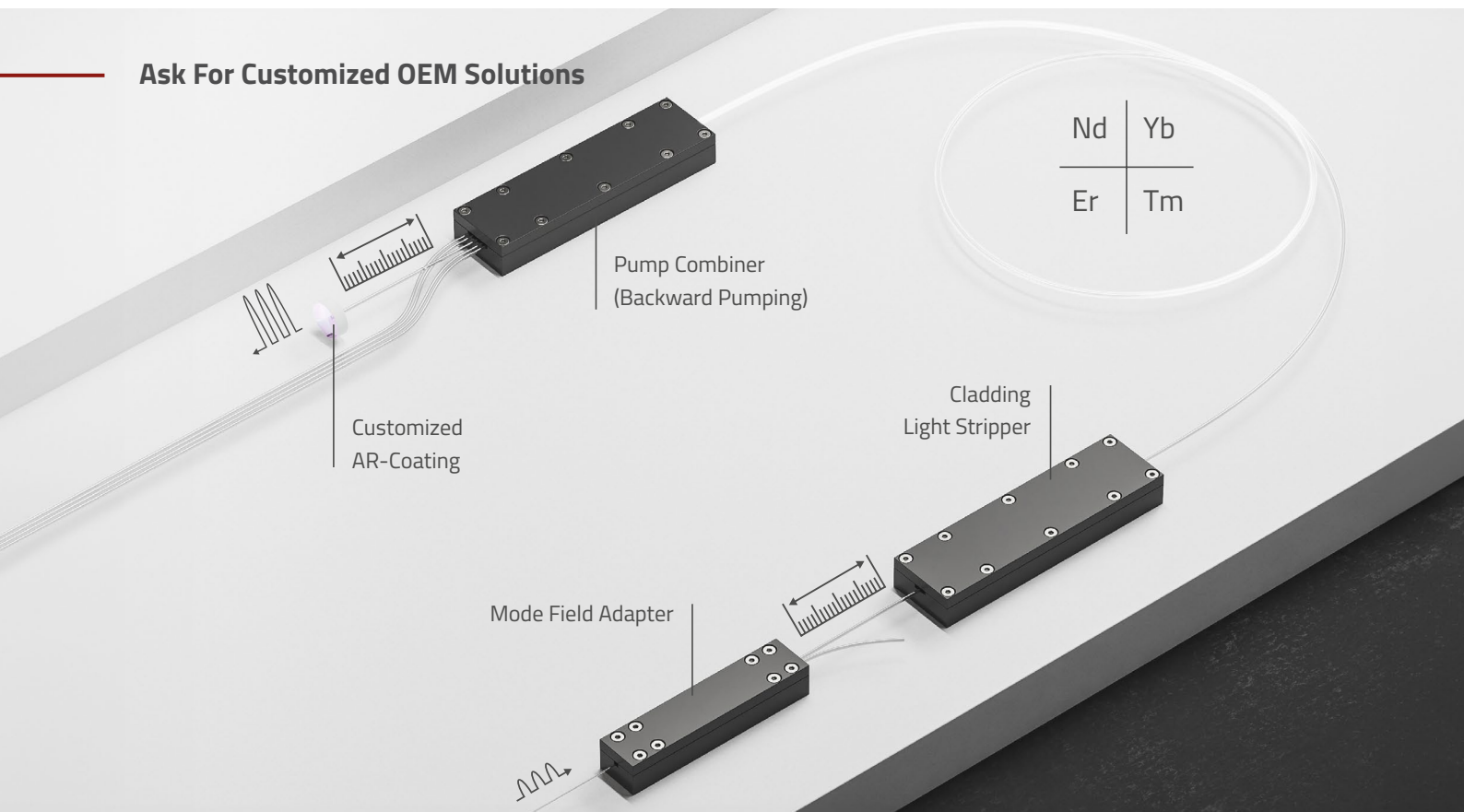
- | Rugged spliceless solutions with outstanding beam quality
- | Components are integrated into active fiber
- | No/Less splices between fiber components (important for LMA fibers)
- | Short fiber length between components (low fiber nonlinearities)
- | Co/Counter-pumping (optimized power distribution along the active fiber)



Applications

- | Ultrashort pulse amplifier
- | Laser communication
- | Narrow linewidth amplifier
- | High demands on size and robustness

Ask For Customized OEM Solutions



Are you interested in individualized ready-to-use fiber amplifier modules? FiberBridge Photonics offers co- and counter-propagation pumped fiber amplifier modules including all the necessary fiber components (excluding electronics and pump diodes). One of the major strengths of FiberBridge Photonics is the integration of all fiber components to the active fiber resulting in no/less splices and

short fiber lengths between the fiber components. The fiber length as well as the arrangement of fiber components can be adapted to customer needs. Perfectly matched fiber components from one supplier ensures excellent optical performance, which is especially important for large mode area (LMA) fibers.

Fiber Amplifier Configuration

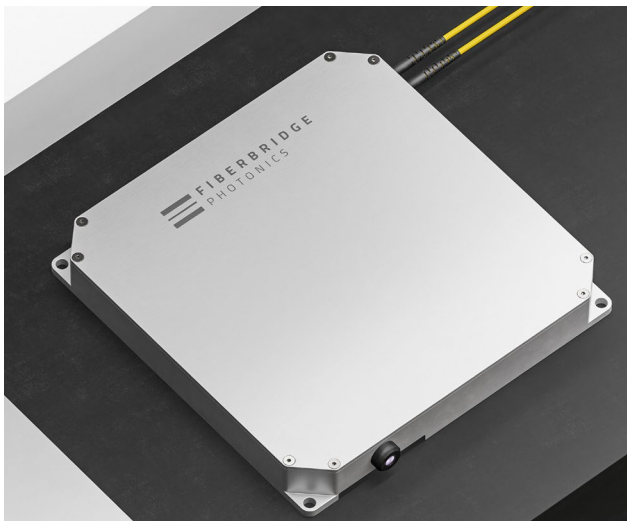
Option A

Active Fiber with Integrated Components



Option B

Fully Packaged Solution



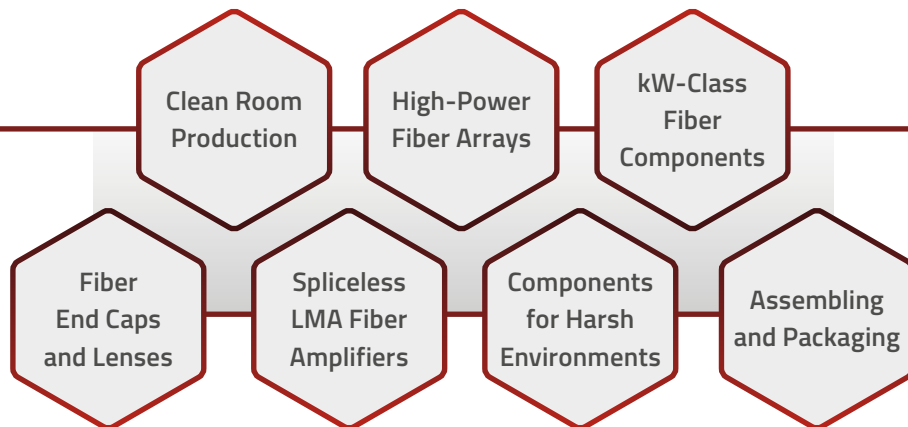
Fiber Type - Spliceless Amplifier	Pump Configuration	Wavelength
Yb-DC-20/125	Forward / Backward	1030nm, 1060nm
Yb-DC-PM-20/125	Forward / Backward	1030nm, 1060nm
Yb-DC-25/250	Forward / Backward	1030nm, 1060nm
Yb-DC-PM-25/250	Forward / Backward	1030nm, 1060nm
Yb-DC-30/250	Forward	1030nm, 1060nm
Yb-DC-PM-30/250	Forward	1030nm, 1060nm

FROM DEVELOPMENT TO SERIES PRODUCTION

FiberBridge Photonics provides high-performance optical fiber components for material processing, life sciences, quantum technology and aerospace industries. Key products in the portfolio include high power fiber components for lasers and amplifiers, such as pump combiners, fiber end caps, fiber end lenses, high-power capable fiber arrays and spliceless LMA fiber amplifier modules.

All fiber components and photonic production lines are developed and manufactured in Germany according to ISO 9001. This level of production control enables us to offer our customers tailored solutions for fiber optic components and assemblies, from design to volume production – including harsh environment applications, for example in the aerospace industry.

Capabilities



Sectors

