

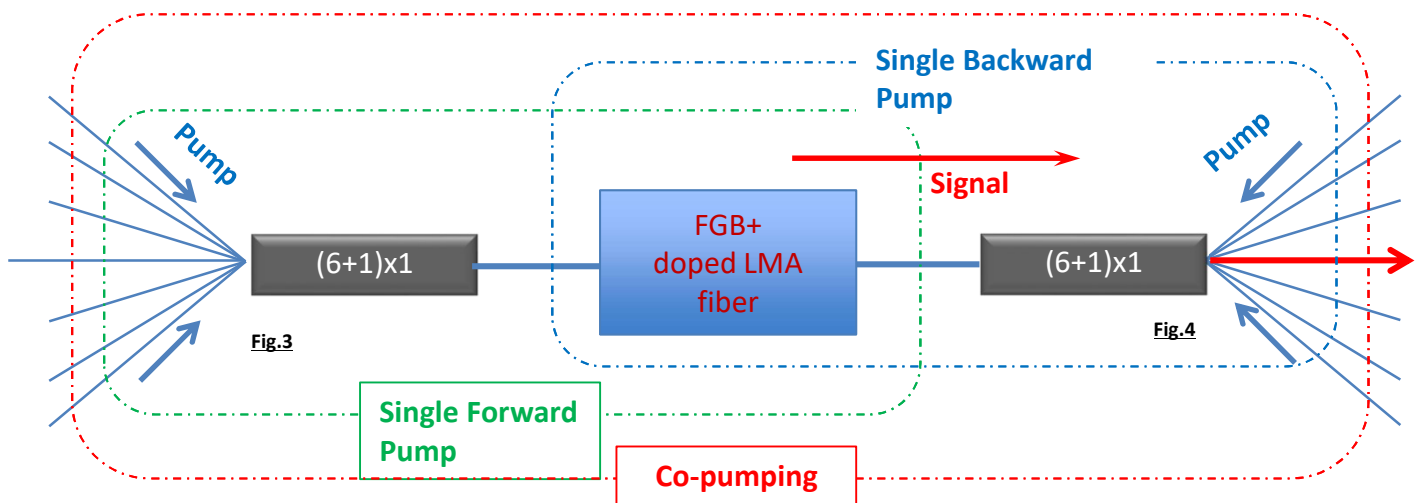
Multimode Pump+Signal Fiber Backward Combiner (6+1)×1



There are 3 types of pumping for the industrial fiber laser: single forward pump (fig.3), single backward pump (fig.4) and co-pumping (fig.3+fig.4), as following diagram shows.

For exg., the forward (6+1)x1 combiner combing 6 of pumping power with the input signal (red for pilot or seed laser) into LMA DCF, and transfer into the signal output fiber, being used directly or co-work with the backward combiner for higher signal output.

The residual power handling request on those 3 types of combiner ARE different, please contact sales for more assistance.



Features:

- Customized Configuration.
- High Pump and Signal Efficiency
- High Power Handling.
- Excellent Stability and Reliability

Applications:

- Fiber Laser
- High Power Fiber Amplifier
- Integrate with QBH as a combo

Multimode Pump+Signal Fiber Backward Combiner (6+1)×1

Specifications

Pumping Fiber	Signal Fiber	Output Fiber	Pump Eff.(Min)	Sig. IL (Max)	Power/Pump Leg	Sig. Power
135/155 0.22	14/250DC	20/130 DC	97-98% (Depends on brightness of pump LD)	0.1-0.2dB	200W	500W-1.5KW
135/155 0.22	12/250DC	20/130 DC		0.1-0.2dB	200W	
200/220 0.22 220/242 0.22	20/400DC or 25/400 DC	x/250DC X=25, 30um		0.1-0.3dB	300-800W	1.5-3KW
		20/400DC or 25/400 DC		0.1-0.3dB	300-800W	
220/242 0.22	20/400DC or 25/400 DC	30/400DC 50/400 DC Etc.	0.2dB	300-800W		

Remark:

Above types are just popular one, for other type Combiner can be customized.

Pump efficiency depends on the brightness of pump LD, higher brightness brings higher efficiency.

Power/pump leg, corresponding to customer design, different power level needs different package design.

Signal IL depends on the beam quality of amplified signal laser, better beam quality, lower IL.

Ordering Information:

Please describe your pump combiner structure, like: co-pumping

Forward (6+1)x1, 135/155+20/130DC=>14/250 DC, 200W/leg,97%, 2db IL, red pilot, backward residue power 300W.

Backward (6+1)x1, 14/250DC=>135/155+20/130DC, 200W/leg,97%, 0.2db IL, signal power 200w, backward residue power 300W.

Make a call or drop us mail to sales@lasfiberio.com for further help.