

Nx1 Multimode Pump Combiner (MPC 2x1 ~ 37x1)



It combines N-pc multimode Diode Lasers to create a higher power output with consigned fibers.

The output fiber can be Power Delivery Fiber (PDF) as the energy synthesis, it also can be no core fiber or LMA double cladding fiber (DCF), which people can splice with match doped LMA DCF.

If the output fiber is PDF, it is for DDL app., in LMA fiber then it is for fiber laser app.

Lasfiberio can produce the product including 2x1, 3x1, 4x1, 7x1, 19x1, 37x1, and so on. Pump, output fiber type and the configuration can all be customized.

Features:

- Customization is available.
- High pump efficiency.
- High power handling capability.
- CPS integrated for DDL configuration

Applications:

- Fiber Laser
- DDL

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Specifications

Config.	Pump fiber	Output fiber	Pump efficiency	Power / pump leg
2×1	105/125 0.15	105/125 0.22	88-92%	100W
3×1	105/125 0.22	200/220 0.22	95%	100W
4×1	105/125 0.15	200/220 0.22	95%	100W
4×1	105/125 0.22	220/242 0.22	95%	150W
3×1	200/220 0.22	400/440 0.22	95%	200W
7×1	105/125 0.15	200/220 0.22	93%	100W
7×1	105/125 0.22	x/125DC	93-96%	100W
7×1	105/125 0.22	220/242 0.22	90-98%	150W
7×1	220/242 0.22	x/400DCF	94-98%	300-800W
19×1	105/125 0.15	400/440 0.22	93%	100W
19×1	105/125 0.15	x/200DC	95%	100W
19×1	105/125 0.22	x/250DC	95%	80W
19×1	105/125 0.22	x/400DC	97%	150W
19×1	135/155 0.22	x/400DC	97%	100-200W
19×1	135/155 0.22	600/660 0.22	96%	100-200W
37×1	105/125 0.22	800/880 0.22	97%	150W
19×1	200/220 0.22	1000/0.22NA	97%	300W

Remark:

- * X presents fiber core diameter, such as 6, 8, 10, 20, 25, 30 etc.
- * Power per pump leg can be customized, depends on combiner configuration, brightness of LD etc
- * Pump efficiency depends on Brightness of LD, higher brightness brings higher efficiency, less heat.

Ordering information:

Please descript configuration of combiner based on your application
For exg., DDL app., 7x1,135/155 =>400/480, 160w/leg, 95% eff.

Or fiber laser app.,
Forward pump, 7x1,135/155=> 14/250, 160w/leg, 92% eff.

Please make a call or send email to sales@lasfiberio.com for further assistance.