Focal- π Shaper NA 0.1 / 0.06

High efficient Collimating - Beam Shaper converting Gaussian to Flat-top profile of high power TEM₀₀ fiber lasers



With these unique tools manipulating the shape of focused beams becomes a reality.

With nearly 100% efficiency the **Focal-** π **Shaper** produces various profiles:

- Flat-top
- "Inverse Gauss"
- "Doughnut"

An appropriate optical design provides simple adjustment procedure and lets it easy to integrate the **Focal-** π **Shaper** in your applications:

- Microwelding
- Drilling
- Selective Laser Melting
- Material micromachining
- Laser Heating in Geophysical researches
- Marking and Engraving
- Scribing
- Cutting
- Printing

Beam Shaping never was so easy!

No more energy loss!

Technical Specifications

Туре	Collimator, without internal focus	
Input beam	 TEM₀₀, M²<1.4 Divergent 	
Output beam	 Collimated or low divergence Profile optimized to manipulate intensity distribution near focus of a diffraction limited focusing lens Diameter < 20 mm 	
Spectral range	1020 – 1100 nm	
Laser Power	up to 2 kW (CW)	
Other features	 Water cooling Adapted to operate with fiber lasers QBH connector compatible Compact design suitable for industrial applications Operation with diffraction limited focusing lenses of any type Easy alignment Optimized to work with scanning optics: mirror scanners, F-⊕ lenses 	
Overall dimensions	Diameter 77 mm Length 130 mm	
Weight	650 g	
Mounting	Input (fiber side): inner thread M 30x0.75, 5-axis QBH mount Output: outer thread M 30x0.75	
Focal-πShaper feat	tures •	
Model	Focal-πShaper NA0.1_50_80_1064	Focal-πShaper NA0.06_50_80_1064
Input divergence 2⊕ (1/e²), rad	0.2-0.24	0.1-0.12







