Focal-πShaper NA 0.1_50_80_1064

Highly efficient Collimator - Beam Shaper converting Gaussian to Flattop profile for high power TEM_{00} fiber lasers

With these unique tools the long-standing wish to manipulate the shape of focused beams becomes a reality.

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

- Flattop
- "Inverse Gauss"
- "Donut"
- "Trident", etc.

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

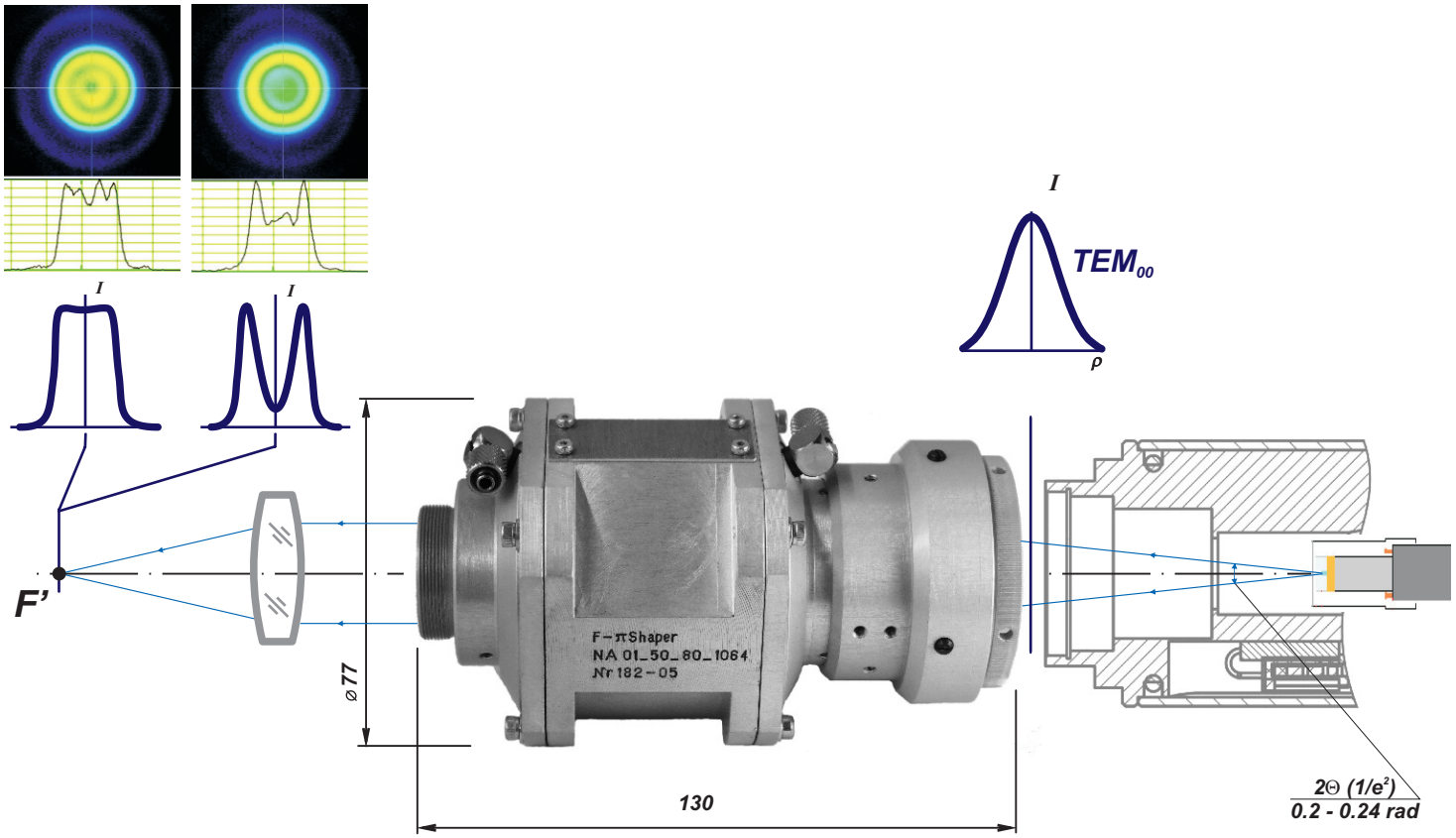
- Microwelding
- Drilling
- Selective Laser Melting
- Material micromachining
- Laser Heating in Geophysical researches
- Marking and Engraving
- Scribing
- Cutting

Beam Shaping never was so easy!

No more energy loss!

Technical Specifications

Type	Collimator, without internal focus
Input beam	• TEM_{00}, M^2<1.4 • Divergent • Divergence 2Θ = 0.2-0.24 rad, NA = 0.1-0.12 ($1/e^2$)
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 • Compact design suitable for industrial applications • Mechanical design is compatible with QBH fiber holder • A diffraction limited focusing lens of any type can be applied with the F-πShaper • Easy tolerances for alignment as well as positioning of the F-πShaper with respect to a lens • Capability to work with scanning mirrors
Overall dimensions	• Diameter 77 mm • Length 130 mm
Weight	650 g
Mounting	Input (fiber side): inner thread M 30x0.75 Output: outer thread M 30x0.75



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