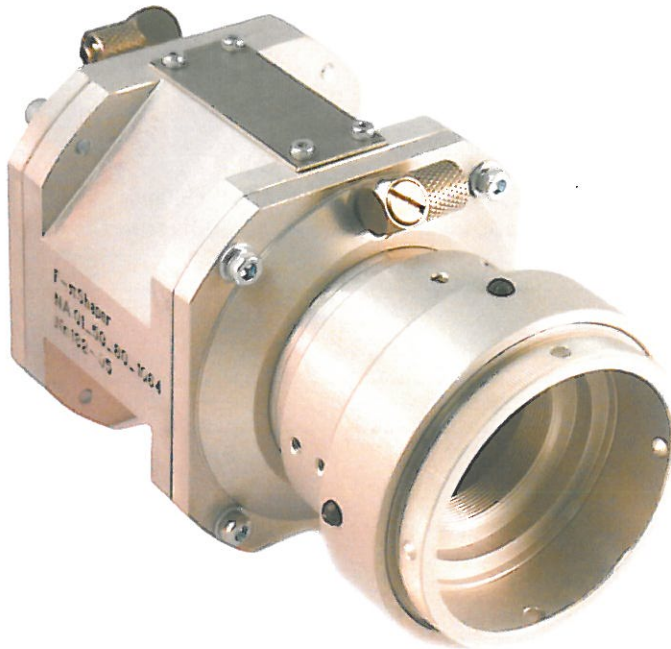


# ***Focal- $\pi$ Shaper NA 0.1\_50\_80\_1064***

***Highly efficient Collimator - Beam Shaper  
converting Gaussian to Flattop profile for  
high power TEM<sub>00</sub> 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- $\pi$ Shaper*** 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- $\pi$ Shaper*** in your applications:

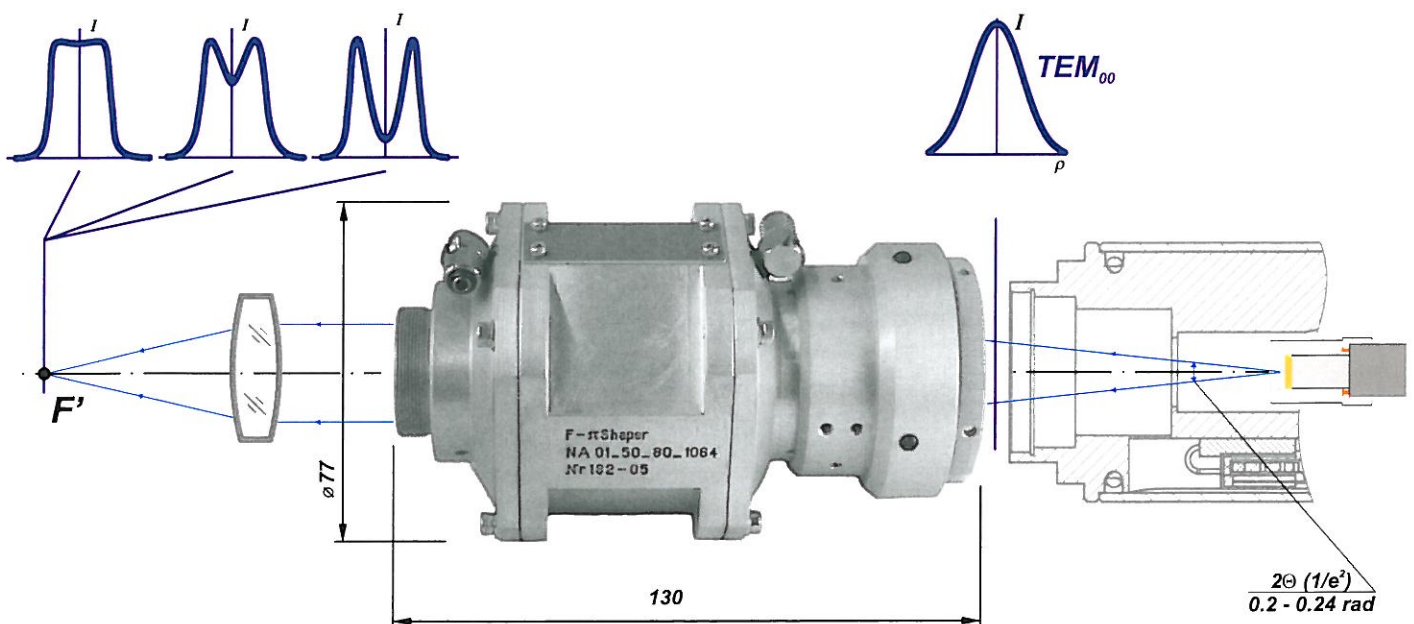
- Microwelding
- Drilling
- Selective Laser Melting
- Material micromachining
- Laser Heating in Geophysical researches
- Marking and Engraving
- Scribing
- Cutting

***Beam Shaping never was so easy!***

**No more energy loss!**

**Technical Specifications**

Type	Collimator, without internal focus
Input beam	<ul style="list-style-type: none"> <li>• TEM<sub>00</sub>, M<sup>2</sup>&lt;1.4</li> <li>• Divergent</li> <li>• Divergence 2Θ = 0.2-0.24 rad, NA = 0.1-0.12 (1/e<sup>2</sup>)</li> </ul>
Output beam	<ul style="list-style-type: none"> <li>• Collimated or low divergence</li> <li>• Profile optimized to manipulate intensity distribution near focus of a diffraction limited focusing lens</li> <li>• Diameter &lt; 20 mm</li> </ul>
Spectral range	1020 – 1100 nm
Laser Power	up to 4 kW (CW)
Other features	<ul style="list-style-type: none"> <li>• Water cooling</li> <li>• Adapted to operate with fiber lasers</li> <li>• Compact design suitable for industrial applications</li> <li>• Mechanical design is compatible with QBH fiber holder</li> <li>• A diffraction limited focusing lens of any type can be applied with the F-πShaper</li> <li>• Easy tolerances for alignment as well as positioning of the F-πShaper with respect to a lens</li> <li>• Capability to work with scanning mirrors</li> </ul>
Overall dimensions	<ul style="list-style-type: none"> <li>• Diameter 77 mm</li> <li>• Length 130 mm</li> </ul>
Weight	650 g
Mounting	Input (fiber side): inner thread M30x0.75 Output: outer thread M30x0.75



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