Focal-π**Shaper 9_xxx**

Series of high efficient Beam Shapers To manipulate the intensity profile of focused TEM₀₀ beams Lasers of UV, Visual and NIR spectrum



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

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

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

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

- Solar Cell production laser technologies
- Laser Heating in Geophysical researches
- Marking and Engraving
- Drilling
- Scribing
- Dicing
- Material micromachining
- Printing
- Microwelding

Beam Shaping never was so easy!

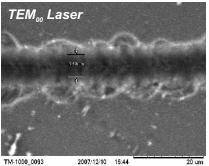


Technical Specifications

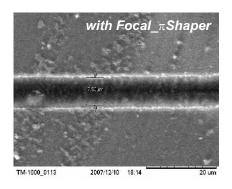
Common for all Focal-πShaper 9_xxx models:						
Туре	Telescope of Galilean type (without internal focus)					
Input beam	$\begin{array}{ll} & \mbox{TEM}_{00}, \mbox{ Collimated or low divergence} \\ & \mbox{Diameter} < 16 \mbox{ mm} \\ & \mbox{Optimum } 2_{00} \mbox{ diameter for a Gaussian beam } 48 \mbox{ mm} \mbox{ (1/e}^2) \end{array}$					
Output beam	 Collimated or low divergence Profile is optimized for Intensity distribution manipulation in focal plane of a diffraction limited lens Diameter < 16 mm 					
Other features	 Easy integration to an optical setup and adaptation to a laser source Compact design suitable for scientific and industrial applications 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 41 mm - Length 110 mm					
Weight	200 g					
Mounting	External Thread M 27x1					
Focal- <i>π</i> Shaper 9_>	xx features					
Model	_1550	_1064	_TiS	_532	_355	_266
Optimum spectral range**, nm	1450 - 1650	1020 - 1100	750 - 850	520 - 550	330 - 380	250 - 280
Applications based on	NIR-lasers	Nd:YAG, Fiber Laser, other NIR-lasers	Ti:Sapphire laser, NIR lasers	2 nd Harmonic Nd:YAG	3 rd Harmonic Nd:YAG	4 th Harmonic Nd:YAG

- working wavelength range without taking into consideration the coatings

** - according to coatings applied



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Comparison of Scribing (Courtesy of Altechna)

notice

Subject to change without



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