Focal-πShaper 9

Series of high efficient Beam Shapers for focused laser beams at all laser wavelengths

NEW! *Special _HP version for high power ps and fs lasers*

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

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

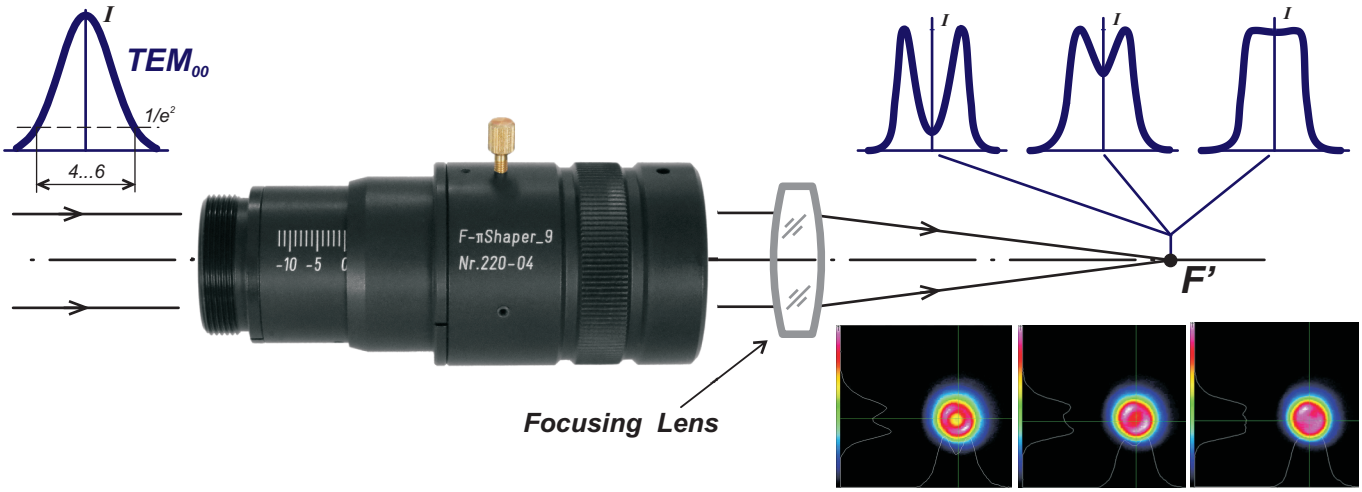
- Flat-top
- "Inverse Gauss"
- "Doughnut"

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

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

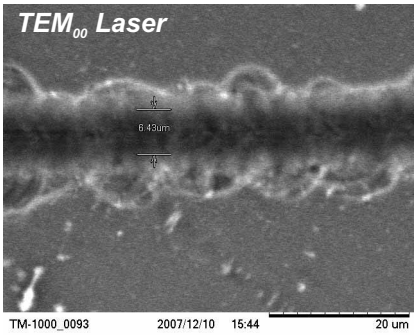
Beam Shaping never was so easy!

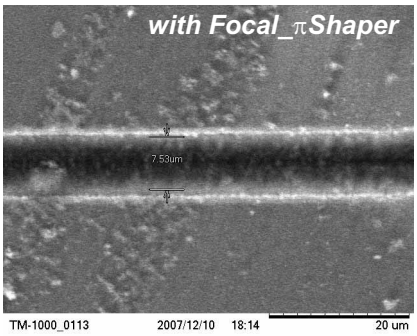
No more energy loss!



Technical Specifications

Common for all Focal-πShaper 9_xxx models:								
Type	Telescope of Galilean type (without internal focus)							
Input beam	- TEM_{00}, collimated or low divergent with full divergence angle ±5mrad - Diameter < 16 mm - Optimum 2ω diameter for a Gaussian beam 4…6 mm ($1/e^2$)							
Output beam	- Collimated or low divergence - Profile is optimized for Intensity distribution manipulation in focal plane of a diffraction limited lens - Diameter < 16 mm							
Spot shape	- Round - Square, Focal-πShaper 9_xxx_q versions							
Other features	- Easy integration in equipment - Compact design suitable for scientific and industrial applications - Operation with diffraction limited focusing lenses of any type - Easy alignment - Optimized to work with scanning optics: mirror scanners, F-Θ lenses							
Weight	<200 g							
Mounting	External Thread M 27x1							
Focal-πShaper 9_xxx features								
Model	**_1064_HP**	**_1940**	**_1550**	**_1064**	**_TiS**	**_532**	**_355**	**_266**
Optimum spectral range, nm	1020-1100	1800-2050	1450-1650	1020-1100	750 - 850	515 - 550	330 - 380	250 - 280
Overall dimensions Diameter / Length, mm	39 / 104	41 / 110						
Max. recommended fluence @5ns, mJ/cm²	200	100						





Comparison of Scribing (Courtesy of Altechna)

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