Focal-πShaper_10_CO_2

series of high-efficient Beam Shapers for focused TEM_{00} laser beams of CO_2 lasers

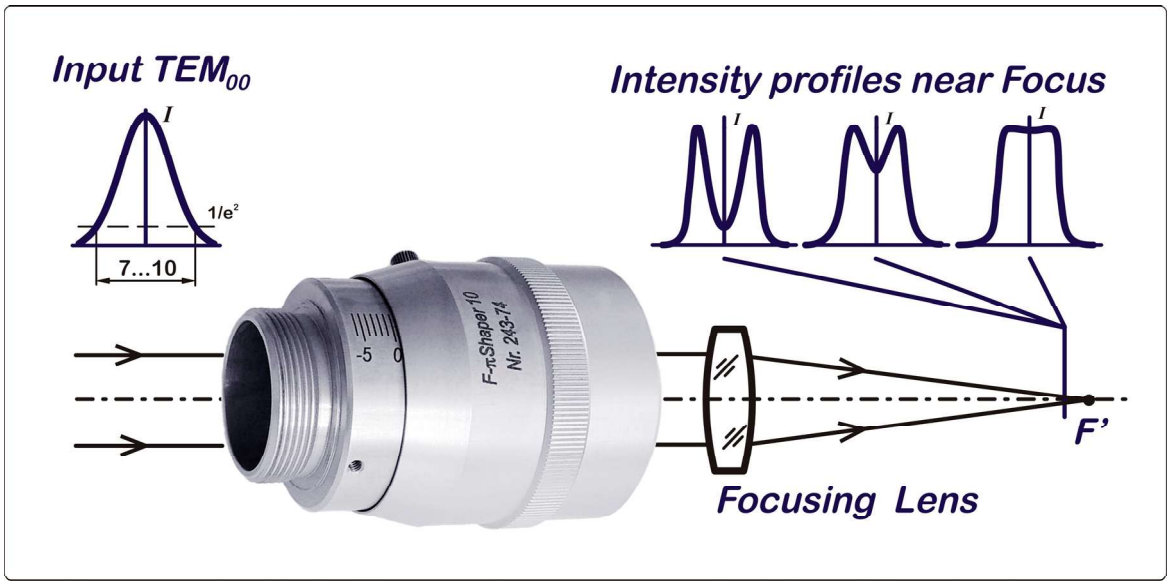
Applications:

- Cutting
- Scribing
- Marking and Engraving
- Drilling
- Material micromachining
- Printing
- Microwelding

With these unique tools the flexible manipulating the intensity distribution of focused spots becomes a reality.

With nearly 100% efficiency and without side-lobes ***Focal-πShaper*** produces the optimal in the microprocessing focused spots:

- Flat-top
- "inverse Gauss"
- "Doughnut"



Beam Shaping never was so easy!

Specifications

Common for all Focal-πShaper 10_CO_2 models:	
Type	Telescope of Galilean type (without internal focus)
Input beam	- TEM_{00}, Collimated or low divergent with full divergence angle ±5 mrad - Diameter < 20 mm - Optimum 2ω diameter for a Gaussian beam 7…10 mm ($1/e^2$)
Output beam	- Collimated or low divergence - Profile is optimized for flat-top, doughnut spot in focal plane of a diffraction limited lens - Diameter < 15 mm
Other features	- Easy integration in equipment - Compact design suitable for scientific and industrial applications - Operation with diffraction limited focusing lens of any type - Easy alignment - Optimized to work with scanning optics: mirror scanners, F-Θ lenses
Overall dimensions	- Diameter 45 mm - Length <72 mm
Weight	250 g
Mounting	External Thread M 27x1

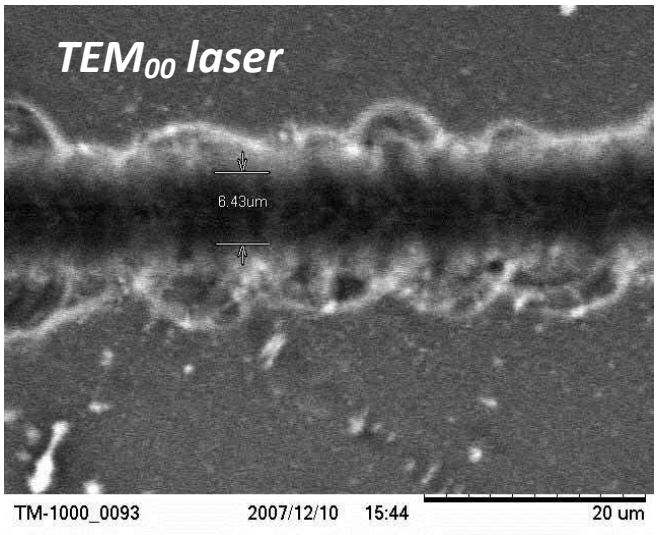
Focal-πShaper 12_CO_2 features

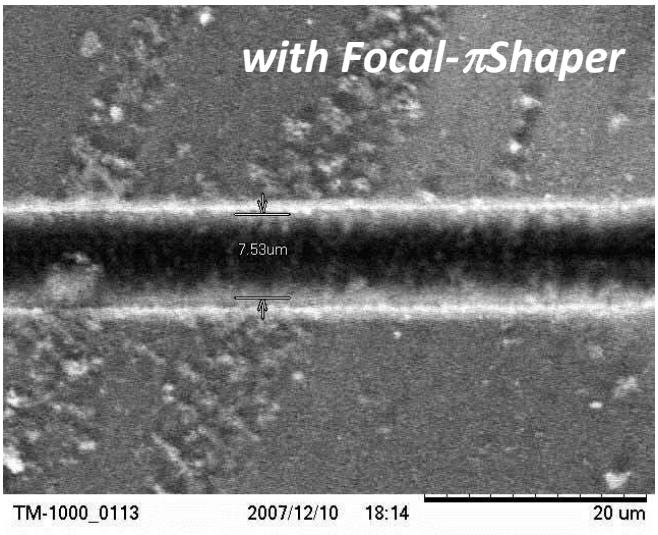
Model	**F-πShaper 10_CO_2 _10.6**	**F-πShaper 10_CO_2 _9.4**
Optimum spectral range**	10.2 – 10.9 μm	9.1 – 9.7 μm

* - working wavelength range without taking into consideration the coatings

** - according to coatings applied

Comparison of Scribing (Courtesy of Altechna)





AdlOptica
www.piShaper.com
Rudower Chaussee 29, 12489 Berlin Germany
Tel. +49-30-565908880 E-mail: info@adloptica.com