

π Shaper 5_6

Series of high efficient Beam Shapers to transform Gaussian to Flat-top profile of laser beams of Visual and UV spectrum



With these unique tools it is possible to convert a single mode or multimode laser beam of similar to Gaussian intensity profile into a collimated Flat-top beam with nearly 100% efficiency.

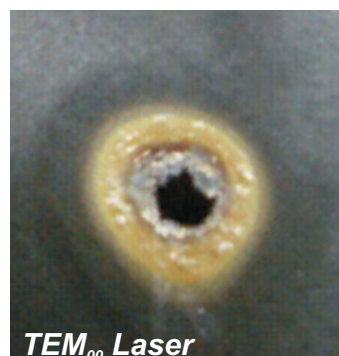
π **Shaper** produces collimated Flat-top beam (like Greek letter π) over a large working distance. This enables to manipulate and re-size the beam with conventional imaging optics.

Almost the same effective sizes of input and output beams let it easy to integrate the π **Shaper** in your application.

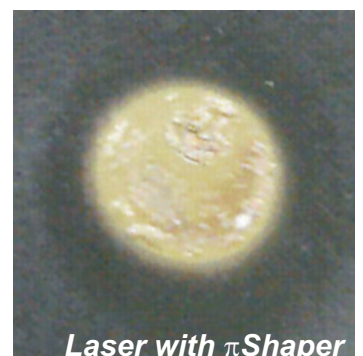
Originally designed as achromatic optical system the π **Shaper** can work simultaneously with various lasers of corresponding spectrum

Applications:

- Free Electron Lasers
- Display Technologies
- Flow Cytometry
- Holography
- Marking and Engraving
- Printing
- Material micromachining



TEM₀₀ Laser



Laser with π Shaper

Comparison of engraving results (Courtesy of EO Technics)

Beam Shaping never was so easy!

No more losing of energy!



Technical Specifications:

Common for all <i>piShaper 5_6</i> models:		
Type	Telescope of Galilean type (without internal focus)	
Input beam	<ul style="list-style-type: none"> - Collimated - TEM₀₀ or multimode with Gaussian or similar intensity profile 	
Output beam	<ul style="list-style-type: none"> - Collimated - Flattop, uniformity within 5% - High edge steepness 	
Other features	<ul style="list-style-type: none"> - Achromatic design - Compact design suitable for scientific and industrial applications - Materials of lenses CaF₂, Fused Silica - Long working distance 	
Overall dimensions	<ul style="list-style-type: none"> - Diameter 39 mm - Length 155 mm 	
Weight	250 g	
Mounting	M27x1	
Features		
Model	<i>piShaper 5_6_262</i>	<i>piShaper 5_6_VIS</i>
Input beam features	Diameter 5,6 mm (1/e ²)	Diameter 5,8 mm (1/e ²)
Output beam	Diameter 5,8 mm	Diameter 6 mm
Optimum wavelength range*	250-270 nm	340-560 nm
Design wavelengths	258-266 nm	355-532 nm
Applications based on	4 th Harmonics Nd:YAG other UV lasers	2 nd , 3 rd Harmonics Nd:YAG other lasers of UV and visual range
* - according to coatings applied		

