

π Shaper 4.5_4.5

**TELESCOPE or COLLIMATOR Homogenizers
Converting Gaussian to Flattop profile
Lasers of Visual and Near-IR spectrum**



With these unique tools it is possible to convert Gaussian laser beam into collimated Flattop beam with nearly 100% efficiency.

TELESCOPIC and **COLLIMATING** versions of π Shaper are available.

Collimator lets it possible to solve simultaneously two tasks: *collimating* and *shaping* the laser beam.

π Shaper produces collimated Flattop 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 (diameter 4,5 mm) let it easy to integrate π Shaper in your application.

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

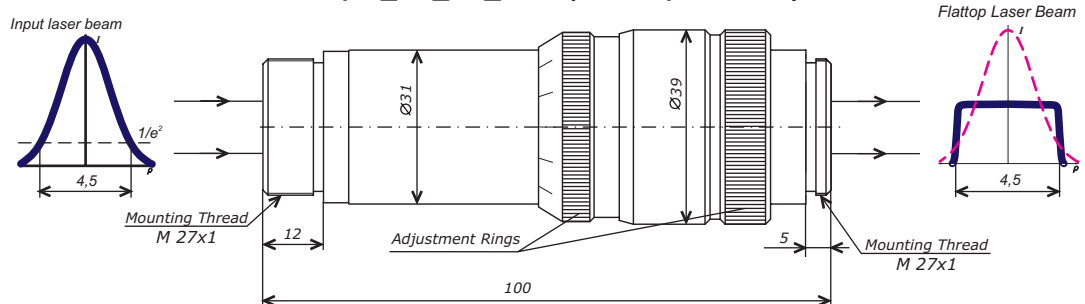
Beam Shaping never was so easy!

No more losing of energy!

Technical Specifications

Common for all π Shaper 4.5_4.5 models:		
Output beam	<ul style="list-style-type: none"> - Collimated - Flat-top, uniformity within 5% - Diameter 4,5 mm 	
Other features	<ul style="list-style-type: none"> - Compact design suitable for scientific and industrial applications - Long working distance 	
Overall dimensions	<ul style="list-style-type: none"> - Diameter 39 mm - Length <100 mm 	
Weight	< 200 g	
Mounting	M27x1	
Features		
Model	π Shaper 4.5_4.5_1064	π Shaper 4.5_4.5_1064C
Input beam	<ul style="list-style-type: none"> - Collimated - Gaussian, diameter 4.5 mm ($1/e^2$) 	<ul style="list-style-type: none"> - Divergent - Gaussian, divergence 180 mrad ($1/e^2$)
Type	Telescope of Galilean type (without internal focus)	Collimator (without internal focus)
Operating wavelength range*	1020-1100 nm	1020-1100 nm
Design wavelengths	1064 nm (Nd:YAG), 632.8 nm (He-Ne)	1064 nm (Nd:YAG), 632.8 nm (He-Ne)
Applications based on	Nd:YAG, Fiber and other near IR-lasers	Nd:YAG, Fiber and other near IR-lasers
* - according to coatings applied		

π Shaper_4.5_4.5_1064 (Telescope Version)



π Shaper_4.5_4.5_1064C (Collimator Version)

