

# $\pi$ Shaper 6\_6

**Series of high efficient 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.

$\pi$ Shaper produces collimated Flattop beam (like Greek letter  $\pi$ ) 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 approx. 6 mm) let it easy to integrate  $\pi$ Shaper in your application.

Originally designed as achromatic optical system each model of the  $\pi$ 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 πShaper 6_6 models:						
Input beam	Gaussian, diameter 6 mm ( $1/e^2$ )					
Output beam	<ul style="list-style-type: none"> <li>- Collimated</li> <li>- Flat-top, uniformity within 5%</li> <li>- Diameter 6 mm</li> </ul>					
Type	Telescope of Galilean type ( without internal focus)					
Wavelength range*	400 - 1600 nm					
Other features	<ul style="list-style-type: none"> <li>- Achromatic for design wavelengths</li> <li>- Compact design suitable for scientific and industrial applications</li> <li>- Long working distance</li> </ul>					
Overall dimensions	<ul style="list-style-type: none"> <li>- Diameter 39 mm</li> <li>- Length &lt;130 mm</li> </ul>					
Weight	< 250 g					
πShaper 6_6 features						
Model	_1064	_VIS	_TiS	_532/1064	_410/820	_1550
Optimum wavelength range**, nm	1020-1100	420-680	660-1040	520-550, 1020-1100	400-420, 800-840	1500-1600
Design wavelengths, nm	1064 (Nd:YAG) 632.8 (He-Ne)	442 (He-Cd), 632.8 (He-Ne)	1064 (Nd:YAG) 632.8 (He-Ne)	1064 (Nd:YAG) 632.8 (He-Ne)	442 (He-Cd), 632.8 (He-Ne)	1064 (Nd:YAG) 1550 (LD)
Mounting	M 27x1	M22x0.5, M25x1	M 27x1	M 27x1	M 27x1	M 27x1
Applications based on	Nd:YAG, Fiber, near IR-lasers	He-Ne, He-Cd, Visual lasers	Ti:Sapphire, near IR lasers	1 <sup>st</sup> and 2 <sup>nd</sup> Harm. Nd:YAG, similar lasers	1 <sup>st</sup> and 2 <sup>nd</sup> Harm. Ti:Sapphire	near IR lasers, laser diodes
* - working wavelength range without taking into consideration the coatings						
** - according to coatings applied						

