

# $\pi$ Shaper 7\_7\_10.6

**High efficient Homogenizers for CO<sub>2</sub> lasers  
Converting Gaussian to Flattop profile**



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 7 mm) let it easy to integrate  $\pi$ **Shaper** in your application.

***Beam Shaping never was so easy!***

# No more losing of energy!



## Technical Specifications

Input beam	Gaussian, diameter 7 mm ( $1/e^2$ )
Output beam	<ul style="list-style-type: none"> <li>- Collimated</li> <li>- Flat-top, uniformity within 5%</li> <li>- Diameter 7 mm</li> <li>- High edge steepness</li> </ul>
Type	Telescope of Galilean type (without internal focus)
Operating wavelength range*	9400-11000 nm
Other features	<ul style="list-style-type: none"> <li>- Compact design suitable for scientific and industrial applications</li> <li>- Long working distance</li> </ul>
Optimum wavelength**	10600 nm
Design wavelength	10600 nm
Overall dimensions	<ul style="list-style-type: none"> <li>- Diameter 39 mm</li> <li>- Length 220 mm</li> </ul>
Weight	< 250 g
Mounting	Outer Thread M 27x1
Applications based on	CO <sub>2</sub> lasers
<p>* - working wavelength range without taking into consideration the coatings  ** - according to coatings applied</p>	

