

π Shaper 5.6_6_1064_HP

High efficient Homogenizer
Converting Gaussian to Flattop profile
Powerful Fiber Lasers, other near-IR Lasers



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 Flattop beam with nearly 100% efficiency.

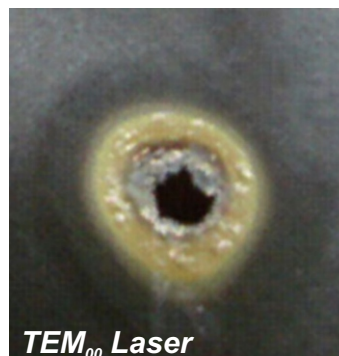
π **Shaper** produces collimated Flattop beam (like Greek letter π) over a large working distance. This enables to manipulate and re-size the beam with conventional imaging optics.

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

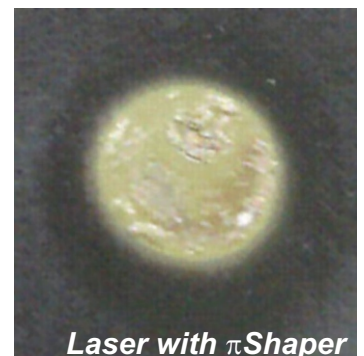
The π **Shaper** can work with various lasers of wide spectrum.

Applications:

- Welding of metals and plastics
- Marking and Engraving
- Printing
- Material micromachining
- Laser ablation
- Laser annealing



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

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 - Diameter 5.6 mm (1/e²)
Output beam	<ul style="list-style-type: none"> - Collimated - Flat-top, uniformity within 5% - Diameter 6 mm
Other features	<ul style="list-style-type: none"> - Compact design suitable for scientific and industrial applications - Other wavelengths optional (355 nm, etc.) - Long working distance
Overall dimensions	<ul style="list-style-type: none"> - Diameter 39 mm - Length 140 mm
Weight	< 250 g
Optimum wavelength range*	1020-1100 nm
Laser Power	up to 200 W (CW)
Mounting	M 27x1
Applications based on	Powerful Nd:YAG, Fiber, near IR-lasers
* - according to coatings applied	

