πShaper 37_34_1064

Collimator - Beam Shaper
Converting Gaussian to Flattop profile
Nd:YAG, Fiber and other near-IR lasers
Applications:

- ***Welding***
- ***Cladding***
- ***Brazing***
- ***Annealing***
- ***Hardening***
- ***Display Making Technologies***
- ***Technologies where uniform intensity required***

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

This ***COLLIMATOR*** version of π***Shaper*** lets it possible to solve simultaneously two tasks:

- collimating of laser beam,
- converting the beam intensity profile from Gaussian to Flattop (beam shaping).

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.

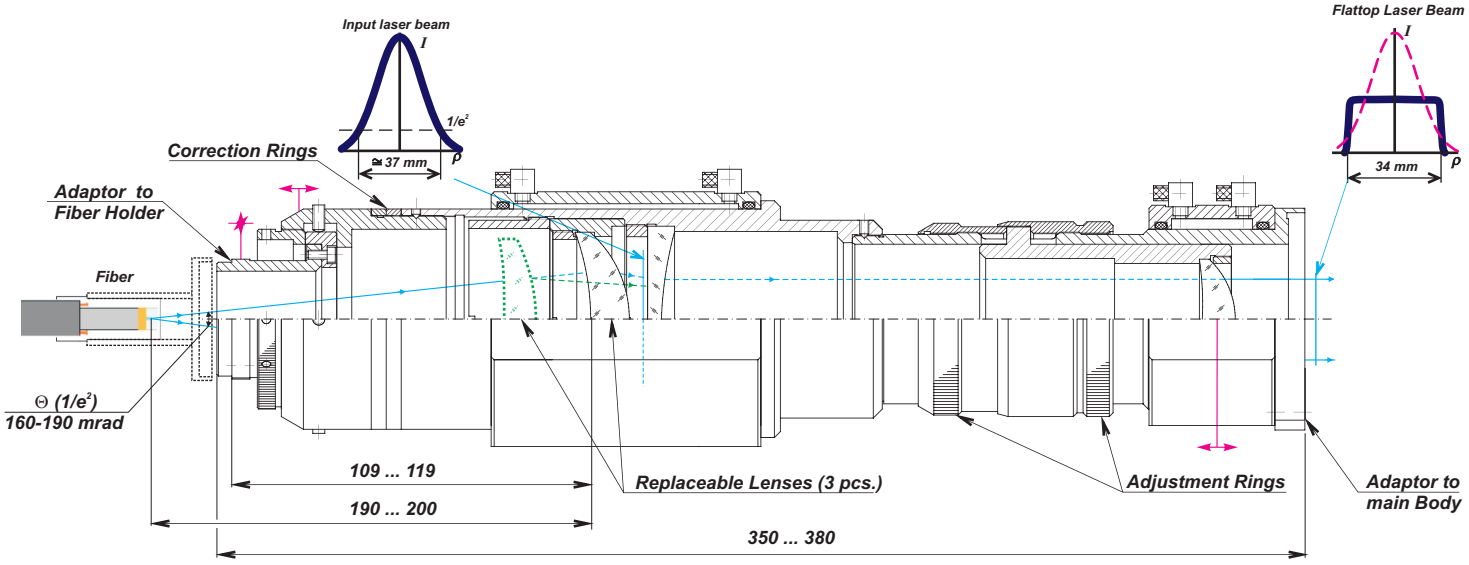
Almost the same effective sizes of input and output beams (diameter ~37 mm) let it easy to integrate π***Shaper*** in your application.

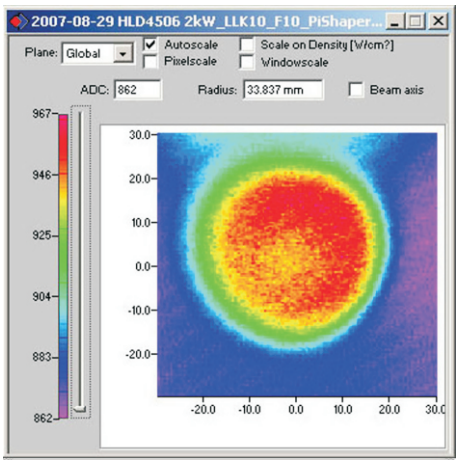
Beam Shaping never was so easy!

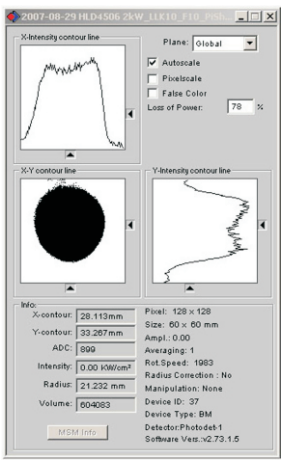
No more losing of energy!

Technical Specifications

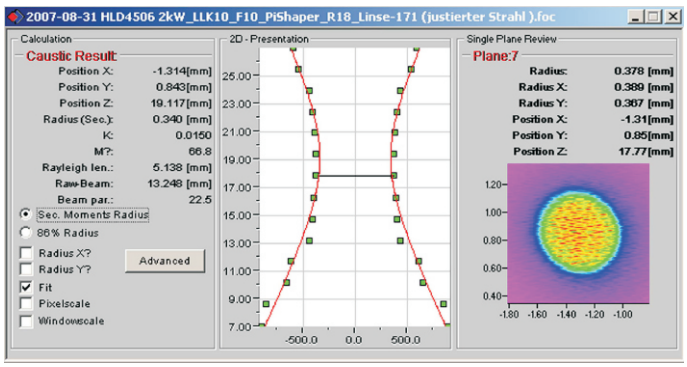
Type	Collimator, without internal focus
Input beam	- TEM_{00} or multimode with Gaussian or similar intensity profle - Divergent - Divergence 160 - 190 mrad (1/e2) - Input Diameter 30 - 37 mm (1/e2)
Output beam	- Collimated - Flat-top, uniformity within 5% - Diameter 30 - 34 mm
Operating wavelength range	1020-1100 nm
Other features	- Compact design suitable for industrial applications of power up to 6 kW - Water cooling - Other wavelengths optional, for example 830, 980 nm, etc. - Long working distance - By focusing an extended depth of field provided
Overall dimensions	- Diameter 74 mm - Length 350 mm
Weight	< 3 kg
Applications based on	High power TEM_{00} or multimode fiber-coupled Solid-State or Diode lasers, Fiber lasers







Examples of beam profiles (Courtesy of Daimler AG)



AdlOptica
Optical Systems GmbH

AdlOptica GmbH
Rudower Chaussee 29, 12489 Berlin Germany
Tel.: +49-30-67798888 Fax: +49-30-67798884
E-mail: info@adloptica.com, alex@adloptica.com
www.piShaper.com