π*Shaper 12_12*

Series of high efficient Beam Shapers
Converting Gaussian to Flat-top profile
Lasers of UV, Visible and NIR spectrum

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 Flat-top beam with ***nearly 100% efficiency***.

Telescope and ***Collimator*** versions

Water cooled for powerful kW lasers

High resistant for high peak power lasers

π***Shaper*** produces collimated Flat-top 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 π***Shaper*** in your application.

Applications:

- Free Electron Lasers
- Fluorescence Technologies
- Flying Plate Technique
- Display Making Technologies
- Mass-Spectrometry
- Ultrashort Pulse Laser Pumping
- MOPA Lasers
- Material Processing

Beam Shaping never was so easy!

No more energy loss!

Technical Specifications

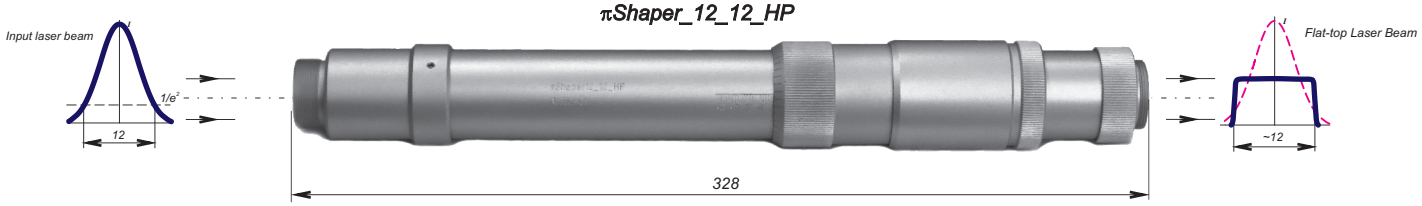
Common for all πShaper 12_12 models:

Input beam	TEM_{00} or multimode with Gaussian or similar intensity profile
Output beam	- Collimated - Flat-top, uniformity within 5% - High edge steepness
Other features	- Compact design suitable for scientific and industrial applications - High resistance for high peak power pulse lasers - Water cooling, option for CW (or average) power > 500 W - Long working distance - Protection windows, optional
Mounting	Input: Outer Thread M27x1 Output: Outer Thread M33x1 Adaptor M33x1 -> M27x1 (Outer)

Features

Model*	Input beam *all values at $1/e^2$*	Output beam Diameter, mm *(FWHM)*	Spectral range, nm	Overall dimensions, mm		Weight, g	Applications based on
				Diameter	Length		
_1064	- collimated - Dia 12.8 – 13.0 mm	12.4	1020-1100	49	270	530	Nd:YAG, Fiber lasers, Other NIR Lasers
_1064_HP	- collimated - Dia 12.0 – 12.1 mm	12.0		42	328	530	
_1064_HP_W	- collimated - Dia 12.0 – 12.1 mm	12.0		49	360	590	High-Power USP lasers Water cooled system
_1064_C	- divergent - 2Θ = 58 mrad	12.0		42	285	480	Nd:YAG, Fiber lasers, Other NIR Lasers
_TiS_HP	- collimated - Dia 12.0 – 12.1 mm	12.0	700 - 900	42	328	530	Ti:Sapphire lasers, Other NIR Lasers
_532	- collimated - Dia 12.8 – 13.0 mm	11.8	515 - 550	49	270	530	2nd Harmonic Nd:YAG, Visible Lasers
_532_HP	- collimated - Dia 12.0 – 12.1 mm	12.0		42	328	530	
_355_HP	- collimated - Dia 12.0 – 12.1 mm	11.3	330 - 380	42	328	530	3rd Harmonic Nd:YAG, UV Lasers
_266	- collimated - Dia 12.6 – 12.8 mm	10.6	250 - 270	49	270	530	4th Harmonic Nd:YAG, UV Lasers
_266_HP	- collimated - Dia 12.0 – 12.1 mm	10.6		42	328	530	
_266_C	- divergent - 2Θ = 60 mrad	12.0		42	285	480	

* - Basic models are Telescopes of Galilean type (without internal focus),
models with index ***_HP*** are versions for high peak power lasers,
models with index ***_C*** are Collimators without internal focus.



AdlOptica
Rudower Chaussee 29, 12489 Berlin Germany
Tel.: +49-30-565908880 E-mail: info@adloptica.com

www.pishaper.com/shaper_12_12.php