

# 532nm Flat Top Beam Shaper | πShaper 12\_12\_532\_HP

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Stock #15-496 **1 In Stock**

1 £7,359<sup>.00</sup>

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Volume Pricing	
Qty 1-4	£7,359.00 each
Qty 5-10	£6,617.00 each
Qty 11+	£6,250.00 each
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Prices shown are exclusive of VAT/local taxes

Product Downloads	
STEP:step	Curve:pdf
PDF Drawing:pdf	IGES:igs
User Manual:pdf	
eDrawing:eprt	Whitepapers
	Whitepapers
	Whitepapers
EO Spec Sheet	

## General

<b>Model Number:</b> πShaper 12_12_532_HP	<b>Type:</b> Beam Shaper
<b>Style:</b> Flat Top	

## Physical & Mechanical Properties

<b>Length (mm):</b> 358.00	<b>Weight (g):</b> <530
<b>Diameter (mm):</b> 42.00	

## Optical Properties

<b>Entrance Beam Diameter, 1/e<sup>2</sup> (mm):</b> 12.0 - 12.1	<b>Design Wavelength DWL (nm):</b> 532
<b>Wavelength Range (nm):</b> 515 - 550	<b>Damage Threshold, By Design:</b> 3 J/cm <sup>2</sup> @ 5ns (typical)
<b>Output Diameter, FWHM (mm):</b> 11.8	<b>Damage Threshold, Pulsed:</b> 3 J/cm <sup>2</sup> @ 5ns (typical)

## Threading & Mounting

<b>Mounting Threads:</b> M27 x 1	
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## Regulatory Compliance

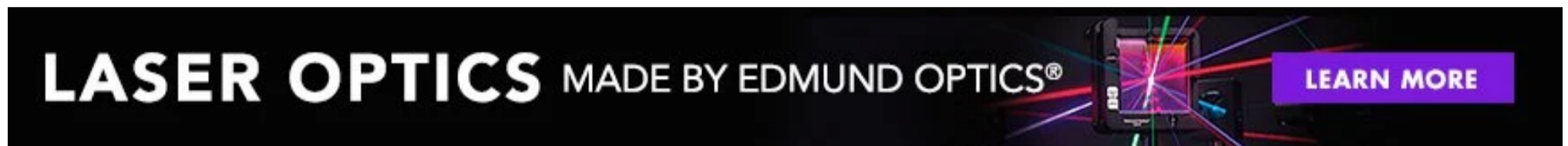
<b>RoHS 2015:</b> <b>Compliant</b>	<b>Certificate of Conformance:</b> <a href="#">View</a>
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## Product Details

- Convert Gaussian Beam Profile to Flat Top Profile
- Near 100% Efficiency
- No Internal Focusing Enables High Power Laser Input
- **AdlOptica Focal-nShaper Q Flat Top Beam Shapers** Also Available

AdlOptica  $\pi$ Shaper (piShaper) Flat Top Beam Shapers are refractive field mapping optical systems that convert collimated Gaussian input beams into collimated flat top beams with a uniform intensity distribution and flat phase front. Due to the field mapping optical design, the even intensity distribution of the converted beam is stable over great distances making it ideally suitable for holography, microscopy, system integration and ultrafast applications. With no internal focusing, they are also the perfect solution in applications such as material micromachining, welding, and engraving that require high power lasers. These AdlOptica  $\pi$ Shaper Flat Top Beam Shapers are offered in common YAG, fiber laser, and CO2 laser sources, operating over a defined wavelength range for laser tuning. Achromatic versions are designed to be used with multiple laser sources.

**Note:** Focusing a flat-top beam after a  $\pi$ Shaper results in loss of the flat top profile. **AdlOptica Focal-nShaper Q Flat Top Beam Shapers** are available for applications that require a focused flat top spot.



## Technical Information

## Accessories

**Note:** Compatible accessories for individual stock numbers may vary. If unsure about which accessories work with your products, please contact us [here](#).

	Title	Compare	Stock Number	Price	Buy
<a href="#">MORE+</a>	4-Axis Mount for M27x1		#15-473	£746.00 <a href="#">Volume Pricing</a>   <a href="#">Request Quote</a>	6 In Stock <input type="text" value="1"/>
<a href="#">MORE+</a>	Flat Top Beam Shaper Aligner		#34-313	£233.00 <a href="#">Volume Pricing</a>   <a href="#">Request Quote</a>	4 In Stock <input type="text" value="1"/>

## Frequently Purchased Together



#34-313 - Flat Top Beam Shaper Aligner  
£233.00

Qty



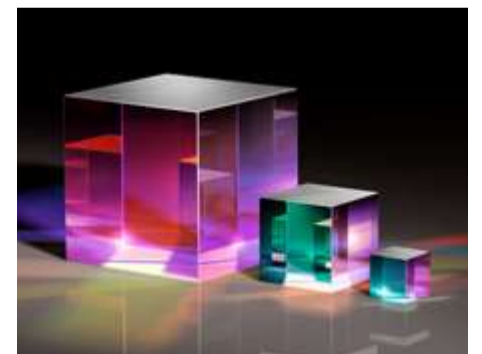
#34-260 - CO<sub>2</sub> Flat Top Beam Shaper 12mm |  $\pi$ Shaper 12\_12\_10.6  
£7,366.00

Qty



#58-972 - 50.8mm Length, M6 Thread, Post Holder  
£12.20

Qty



#48-575 - 35mm 532nm, Laser Line Polarizing Cube Beamsplitter  
£390.40

Qty



# Resources

## Media Type

- Technical Tool
- Application Note
- Video
- Published Article
- Glossary
- Scientific Paper
- FAQ

 TECHNICAL TOOL

Gaussian  
Beams  
Calculator

 APPLICATION NOTE

Laser Beam  
Shaping  
Overview

 VIDEO

Aligning  
AdOptica  
TShaber

 PUBLISHED ARTICLE

Flat-top laser  
beams: Their  
uses and  
benefits

 APPLICATION NOTE

Why Use a Flat  
Top Laser  
Beam?

 VIDEO

Aligning  
Mount for  
AdOptica  
Beamshapers

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