

CO₂ Flat Top Beam Shaper 12mm | πShaper 12_12_10.6

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+

A\$14,732⁰⁰

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Qty 1-4	A\$14,732.00 each
Qty 5-10	A\$13,248.00 each
Qty 11+	A\$12,514.00 each
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General

Model Number:

πShaper 12_12_10.6

Type:

Beam Shaper

Style:

Flat Top

Physical & Mechanical Properties

360.00	Length (mm):
<600	Weight (g):

49.00	Diameter (mm):
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Optical Properties

12	Entrance Beam Diameter, 1/e ² (mm):
10600	Design Wavelength DWL (nm):

10000 - 11000	Wavelength Range (nm):
20 mJ/cm ² @ 5ns (typical)	Damage Threshold, By Design: ☐

12.0	Output Diameter, FWHM (mm):
20 mJ/cm ² @ 5ns (typical)	Damage Threshold, Pulsed:

Threading & Mounting

M27 x 1	Mounting Threads:
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Regulatory Compliance

Compliant	RoHS 2015:
View	Certificate of Conformance:
Compliant	Reach 250:

Product Details

- Convert Gaussian Beam Profile to Flat Top Profile
 - Near 100% Efficiency
 - No Internal Focusing Enables High Power Laser Input
 - [AdlOptica Focal-πShaper Q Flat Top Beam Shapers](#) Also Available
- AdlOptica πShaper (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, and system integration. 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 πShaper 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 πShaper results in loss of the flat top profile. [AdlOptica Focal-πShaper Q Flat Top Beam Shapers](#) are available for applications that require a focused flat top spot.

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Technical Information

