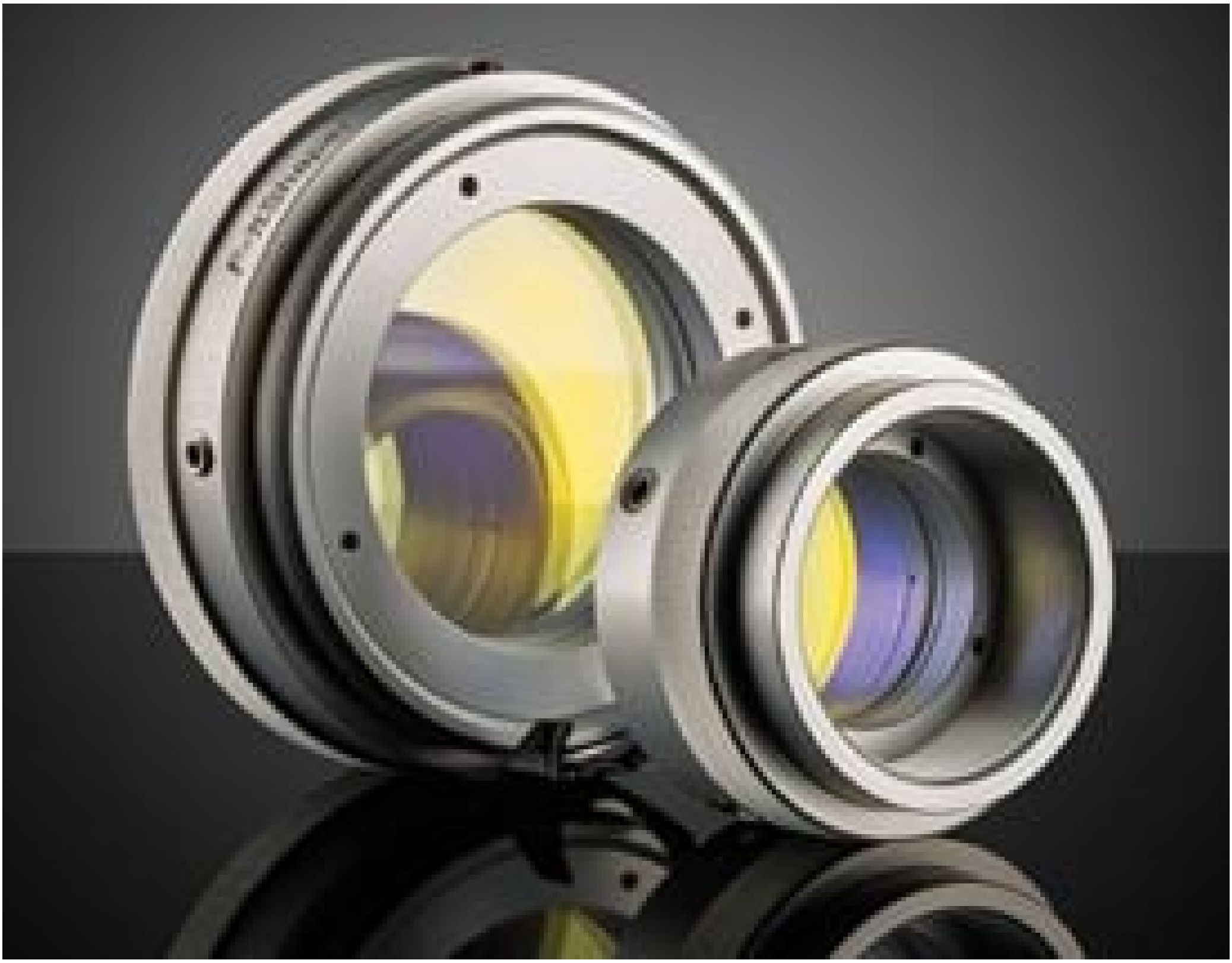
See all 32 Products in Family

# 10600nm, 8-12mm Dia. Input Beam, Focal Flat Top Beam Shaper | Focal πShaper_CO2_Q-10

See More by AdlOptica



Stock **#17-592** CONTACT US

- 1 + **₹4,06,350**

**ADD TO CART**

| Volume Pricing | |
|---|---|
| Qty 1-4 | **₹4,06,350** each |
| Qty 5-10 | **₹3,65,400** each |
| Qty 11+ | **₹3,45,600** each |
| Need More? | Request Quote |

Product Downloads

## General

**Model Number:**

πShaper_CO2_Q-10

**Type:**

Beam Shaper (ZnSe)

**Compatible Adapter:**
#12-322

## Physical & Mechanical Properties

**Length (mm):**
29.00

**Weight (g):**
50

**Clear Aperture CA (mm):**
20

**Diameter (mm):**
42.00

**Input Beam Diameter, $1/e^2$ (mm):**
8 - 12

## Optical Properties

**Transmission (%):**
>99

**Design Wavelength DWL (nm):**
10600

**Wavelength Range (nm):**
9000 - 11000

**Input Beam Mode:**
$TEM_{00}$

**Typical Input Beam Mode Quality, $M^2$:**
<1.5

**Input Beam Divergence (mrad):**
±20

## Electrical

**Maximum Input Power, CW (kW):**
0.2

## Threading & Mounting

**Inner Thread:**
M30 x 0.75

**Outer Thread:**
M30 x 0.75

## Regulatory Compliance

**RoHS 2015:**
Compliant

**Certificate of Conformance:**
View

**Reach 250:**
Compliant

**Country of Origin:**
Germany

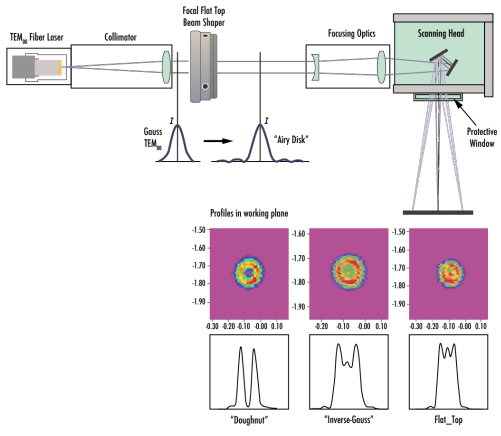
**Imported By:**
Edmund Optics India Private Limited

# Product Details

- Shapes Gaussian Beams to Airy Disk Profile
- Airy Disk is Focusable to Flat Top Spot
- Near 100% Efficiency
- **AdlOptica πShaper Flat Top Beam Shapers** Also Available

AdlOptica Focal-πShaper (piShaper) Q Flat Top Beam Shapers are used to transform Gaussian beams to flat-top profiles after focusing through a lens. This is accomplished by transforming the Gaussian beam to airy disk profiles immediately after the piShaper. These beam shapers feature a compact design with inner and outer threading, making them easy to integrate into equipment. AdlOptica Focal-πShapers are advantageous for beam shaping in micromachining applications, including scribing and PCB drilling, as well as micro-welding applications. Multiple models are available at Nd:YAG, Ti:Sapphire, and Infrared wavelengths with compatible input beam diameters as small as 2.5mm and up to 23mm.

# Technical Information


Focal Flat Top
Beam Shaper
TEM00 Fiber Laser
Collimator
Focusing Optics
Scanning Head
I
Gauss
TEM00
I
"Airy Disk"
Protective
Window
Profiles in working plane
-1.50
-1.60
-1.70
-1.80
-1.90
-0.30 -0.20 -0.10 -0.00 0.10
-1.60
-1.70
-1.80
-1.90
-0.20 -0.10 -0.00 0.10
-1.50
-1.60
-1.70
-1.80
-1.90
-0.30 -0.20 -0.10 -0.00 0.10
"Doughnut"
"Inverse-Gauss"
Flat_Top

.
;