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# 1030 - 1064nm, 1X - 4X Jenoptik Variable Beam Expander

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⊖ 1 ⊕ €680<sup>00</sup>

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## Product Downloads

### General

Beam Expander **Type:**  
Variable Magnification **Style:**

### Physical & Mechanical Properties

127.80 **Length (mm):**

190 **Weight (g):**

37.6 **Housing Diameter (mm):**

## Optical Properties

4.0 (1X- 4X) **Entrance Aperture (mm):**

1X- 4X **Expansion Power:**

Entrance: Fused Silica  
Exit: Fused Silica **Substrate:**

≥97 **Transmission (%):**

1064 **Design Wavelength DWL (nm):**

1030 - 1064 **Wavelength Range (nm):**

CW: 1.00 MW/cm<sup>2</sup>  
Pulsed (ns): 1.00 J/cm<sup>2</sup> **Damage Threshold, Reference:**

134 **GDD Specification (fs<sup>2</sup>):**

## Threading & Mounting

Input: M30 X 1.0 **Mounting Threads:**

## Regulatory Compliance

[View](#) **Certificate of Conformance:**

## Product Details

- Ideal for High-Power and Ultrashort Pulse Systems
- Continuous Magnifications Ranges from 1X to 10X
- Designed for Diffraction Limited Performance

Jenoptik Variable Magnification Beam Expanders provide excellent performance with high damage thresholds for the demanding requirements of laser materials processing. These beam expanders are coated to maximize transmission at common Nd:YAG and Fiber Laser Wavelengths, and are available in a variety of design forms and zoom ranges. The standard variable magnification beam expanders are available in a 1X to 4X or 2X to 10X configuration and features all fused silica optics, and designs for either 355nm, 515-540nm, or 1030-1080nm. The 1X to 4X steadfast versions are available in the same wavelength ranges and feature a mechanical design that guides the movable optical elements in a stable, linear manner to reduce the influences of vibrations or system accelerations. The Silverline™ series are designed for high performance and ensure diffraction-limited image quality over the entire 1X to 8X magnification range. Jenoptik Variable Magnification Beam Expanders are ideal for a range of high-power laser material processing applications including cutting, welding, and engraving for metals, polymers, or ceramics.