

LASER OPTICS

Beam Delivery Components



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Since 1992, Haas LTI has developed, designed, and manufactured industrial laser components for companies worldwide. As an industry leader of custom-built high precision laser beam delivery systems and laser delivery components, the innovative design team at Haas LTI has the knowledge and experience required to provide a robust, reliable laser beam delivery solution.



Laser Head PHA-series

- Available for all wavelengths
- Anodized aluminum & stainless steel construction
- Focal lengths in the range of 1.5" – 7.5" possible
- X-Y focus lens adjustment
- Assist gas pressure: max. 7 bar



Laser Head G1-Series

- For laser up to 1000 W
- Focus lens in cartridge system for easy mounting
- Process gas up to 8.8 bar
- Modular design
- All metric stainless steel hardware



Kinematic Beam Bender Unit BBK

- 90° beam displacement
- $\pm 2^\circ$ independent orthogonal mirror adjustment
- Available for all wavelengths
- Sealed design
- Easy optic removal/replacement

Laser Optics

Crash Detection CP

- Provides X,Y, & Z axis crash protection
- 4 mm Z-axis travel
- Self-resetting
- Hardened steel locating pads
- Sealed design
- Small package



Circular Polarizer Unit CPU

- To convert the laser beam from a linearly polarized beam to a circularly polarized beam.
- Designed for CO₂ lasers (10.6 μm)
- All mirrors included
- Anodized aluminum construction



Beam Expander BEC

- Machined from aluminum, brass & stainless steel
- Fixed overall length for easy mounting
- Sealed design
- Galilean telescope design ensures minimum aberration
- Easily removable optics for cleaning & expansion changes



z-axis



beam switching unit



beam tubes & adapter



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