

Laser Process Heads

A laser beam delivery system is designed to safely deliver the laser beam to the workpiece with precision, accuracy, and stability in an industrial environment.

Haas, Inc.'s modular components feature a carefully considered design as well as a robust finish.

The standard components of the 19 mm aperture series are suitable for a maximum laser power of 500 W.

Laser Process Heads provide a protective housing for the focus lens. Each process head is equipped with a nozzle tip standoff adjustment and X-Y focus lens adjustment. Internal gas jet manifold is included for introducing assist gas to the workpiece. The mentioned laser heads are usable for both CO₂- and solid state lasers (eg. Nd:YAG).

Standard Laser Head PHA Series

- Different focal lengths from 38 mm to 191 mm
- 1" -32 mounting thread (C-Mount)
- Assist gas pressure: 7 bar (100 psi) max
- Anodized aluminum and stainless steel construction
- Available with different nozzle tips
- For optics with Ø 1" or 1.1"



Micromachining Laser Process Head Assembly FCH or FWH Series

- Designed for fine cutting and welding applications
- Modular design
- ± 4 mm focus adjustment with 10 µm resolution
- ± 1.25 mm X-/Y-nozzle tip adjustment with fine pitch adjusters
- For different focus lenses
- Cover glass cartridge
- Monocular/CCD camera viewing head assembly options

