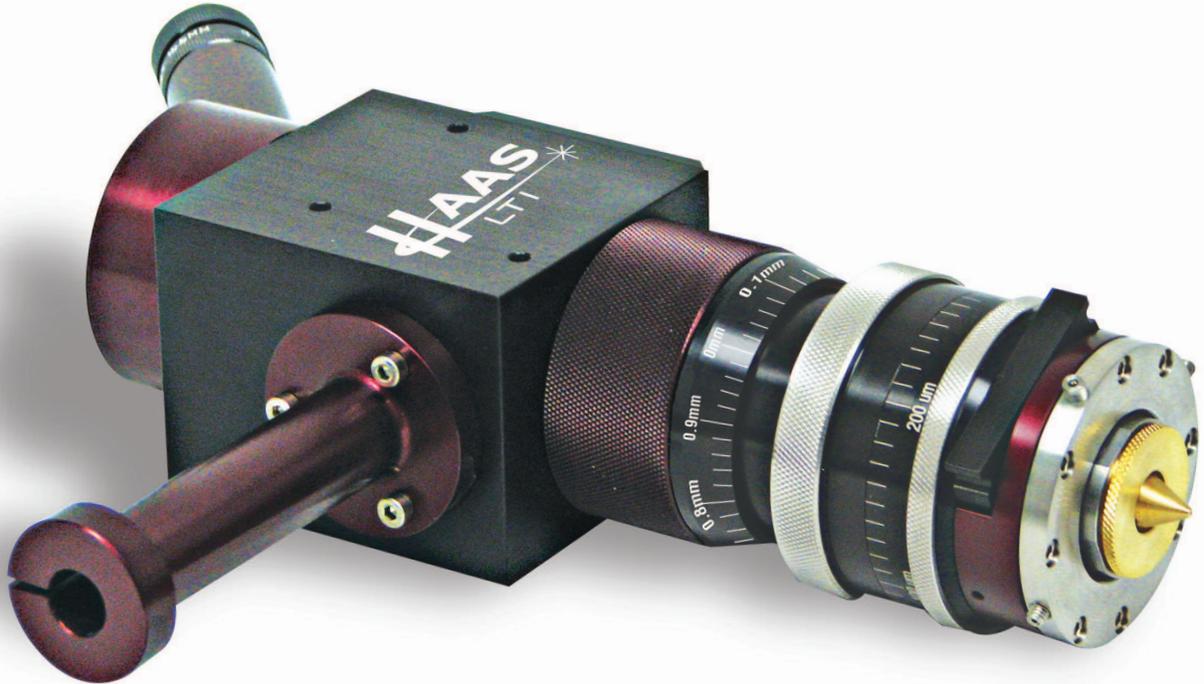


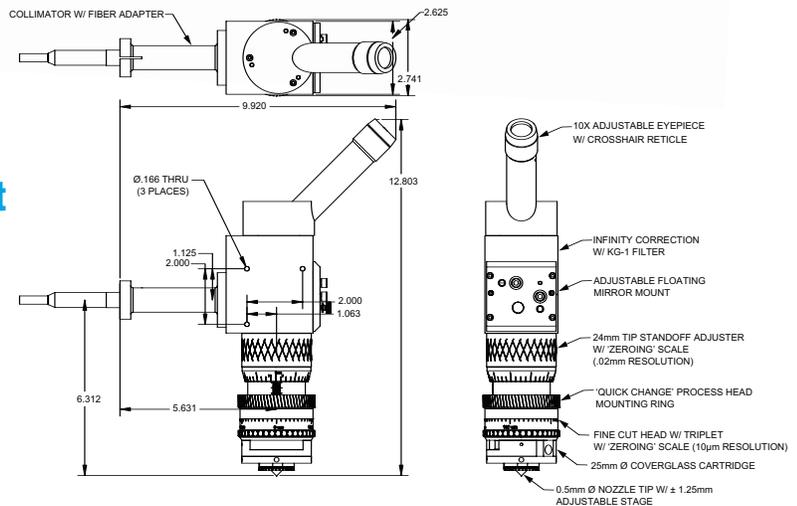
# MIRCROMACHINING LASER PROCESS HEAD ASSEMBLY (FOR IPG FIBER LASERS)



- Fine Cut Laser Head Assembly
- Diffraction Limited Optics
- Floating Beam Splitter Assembly
- Linear Adjustment Translation Mount
- Monocular/CCD Viewing Options
- Robust Industrial Design

## Specifications

- 25mm C.A. Fine Cut Head Assembly
- $\pm 4$ mm Focus Adjustment with 10 $\mu$ m Resolution
- $\pm 1.25$ mm X-Y Nozzle Tip Adjusts with Fine Pitch Adjusters
- Linear Adjustable Translation Mount 24mm Travel
- 50mm, 60mm, 80mm, 100mm & 150mm Focus Lens Assembly Options
- 25mm Cover Glass, Fused Silica AR/AR Coated
- Gas Jet Manifold (1/8 BSPT)
- 0.5mm & 1.0mm Nozzle Tips
- Quick Change Process Head Mount
- Monocular/CCD Camera Viewing Head Assembly Options
- Several Laser Collimator Options
- Anodized Aluminum, Stainless Steel, & Brass Construction
- Accessory Kit
- Optic Cleaning Kits Available



## ASSEMBLY SHOWN WITH THE FOLLOWING MODULES:

FCH-25-36-50-25-LA-50-QM	BSM-25-FCH-A
090YD-25XXX-050-GL-DVC	210YM-38064-X45-FS-DMR
130YG-25032-XXX-FS-DYA	MVH-25-10XA
T-512-020-H01	COL-25-IPG
LAM-25-25-VE	

The Micromachining Laser Process Head is designed for fine cutting and welding applications. The unit accepts a wide variety of both cutting and welding optics. The modular design permits custom configurations for specific applications. Ultra-fine Pitch adjustments enable precise accurate set-ups. Robust industrial design.

Specifications subject to change without notice.  
Consult Haas Laser Technologies for Details.

# MODULE OPTIONS:

## CUTTING:

### **FCH-25-36-50-25-LA-50-QM:**

25mm C.A. Fine Cut Head Assembly Provision for 3-Element DL Lens Assy.  $\pm 4$ mm Focus Adjustment with  $10\mu\text{m}$  Resolution.  $\pm 1.25$ mm X-Y Nozzle Tip Adjustment with Fine Pitch Adjusters. Cover Glass Cartridge with Provision for 25mm Cover Glass. Gas Jet Manifold. Quick-Change Process Head Mount. Anodized Aluminum, Stainless Steel, & Brass Construction.

*\*See the Micromachining Laser Process Head Specification Sheet for Additional Options & Details.*

## WELDING:

### **FWH-25-34-50-25-LA-50-QM:**

25mm C.A. Fine Welding Head Assembly Provision for AA Double Element Lens.  $\pm 4$ mm Focus Adjustment with  $10\mu\text{m}$  Resolution.  $\pm 1.25$ mm XY Nozzle Tip Adjustment with Fine Pitch Adjusters. Cover Glass Cartridge with Provision for 25mm Cover Glass. Cover Gas Manifold. Quick-Change Process Head Mount. Anodized Aluminum, Stainless Steel, & Brass Construction.

## CUTTING:

### **090YD-25XXX-050-GL-DCV:**

3 Element DL 50mm Focus Lens Assembly

### **090YD-25XXX-060-GL-DCV:**

2 Element DL 60mm Focus Lens Assembly

### **090YD-25XXX-080-GL-DCV:**

2 Element DL 80mm Focus Lens Assembly

### **090YD-25XXX-100-GL-DCV:**

2 Element DL 100mm Focus Lens Assembly

### **090YD-25XXX-150-GL-DCV:**

2 Element DL 150mm Focus Lens Assembly

## FOCUSING OPTICS

### **090YA-25XXX-050-GL-DCV:**

Double Element AA 50mm Focus Lens

### **090YA-25XXX-080-GL-DCV:**

Double Element AA 80mm Focus Lens

### **090YA-25XXX-100-GL-DCV:**

Double Element AA 100mm Focus Lens

### **090YA-25XXX-150-GL-DCV:**

Double Element AA 150mm Focus Lens

## WELDING:

## COVER GLASS

### **130YG-25032-XXX-FS-DYA:**

25mm Cover Glass. Fused Silica.

## CUTTING:

### **T-512-020-H01:**

0.5mm Nozzle Tip (Cutting)

### **T-512-040-H01:**

1.0mm Nozzle Tip (Cutting)

## NOZZLE TIPS

### **T-512-080-H01:**

2.0mm Nozzle Tip (Welding)

### **T-512-120-H01:**

3.0mm Nozzle Tip (Welding)

### **T-512-160-H01:**

4.0mm Nozzle Tip (Welding)

## WELDING:

## LINEAR ADJUSTABLE MOUNT

### **LAM-25-25-VE-R:**

Linear Adjustable Translation Mount. 24mm Travel. Rotary Barrel Adjustment w/ Zeroing Scale. 0.020mm Resolution. Aluminum, Stainless Steel & Brass Construction.

## BEAM SPLITTER

### **BSM-25-FCH-A:**

Floating Beam Splitter Assy. w/ Infinity Correction for Visible Viewing. Includes Adjustable Infinity Correction Optics & KG-1 Nd:YAG Filter. 1/4-80 Pitch Mirror Adjustment Screws with Hardened Steel Locating Pads. Provision for 1.5" Diameter Mirror. Accepts Visible Viewing Attachments, Fiber Collimator Inputs & Laser Process Head Assembly.

## BEAM SPLITTER MIRROR

### **210YM-38064-X45-FS-DMR:**

1.5" Dia. Nd:YAG Mirror

## STRAIGHT MODULE

### **FCH-25-SA:**

Straight laser head mount. Connects the laser process head assembly to the fiber input adapter. Mount has tip/tilt fine pitch adjustment.

## MONOCULAR

### **MVH-25-10XA:**

Monocular Viewing Head Assembly w/ 10x Adjustable Eyepiece & Centering. Includes Crosshair.

## POSITION VIEWING

### **CVH-25-MNT:**

Camera Viewing Head Mount. Accepts Standard C-Mount CCD Camera.

### **CAM-500:**

B&W CCD Camera w/ Power Supply

### **MON-200:**

9" B&W Monitor

### **XHR-200:**

X-Y Cross Hair

## CCD

## FIBER INPUT OPTIONS

### **COL-25-IPG:**

IPG Laser Collimator Adapter

*\*Consult Haas Laser Technologies for Additional Options.*

## NOZZLE EXTENSIONS

### **FCH-25-050-NE:**

Nozzle Extension for 50mm Focus Lens

### **FCH-25-060-NE:**

Nozzle Extension for 60mm Focus Lens

### **FCH-25-080-NE:**

Nozzle Extension for 80mm Focus Lens

### **FCH-25-100-NE:**

Nozzle Extension for 100mm Focus Lens

### **FCH-25-150-NE:**

Nozzle Extension for 150mm Focus Lens

## OPTIONS

### **FCH-25-ACC:**

Fine Cut Head Accessory Kit. Includes Optic Wrench, Target, & Nd:YAG Alignment Paper.

### **OCK-50:**

Optic Cleaning Kit

## ACCESSORIES

Low Power Laser Series



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