IPG Photonics’ Micro Cutting Head
from the World Leader in Fiber Lasers

Applications
Features
Advantages
Micro Cutting Head
IPG Photonics’ D30 Compact Processing Optic

Micro Head Configurations

Standard Features
IPG micro-cutting heads provide the ideal solution for micro-machining applications which require small spot sizes and high-resolution focus adjustment. The combination of IPG micro-cutting head’s internal optics and its completely sealed architecture provide long term stability of both focal plane and beam quality even at high laser powers. IPG micro-cutting heads are plug and play with all IPG lasers providing ease of integration and service. Utilizing all its attributes, IPG micro-cutting heads not only provide unmatched cutting results, but they also maintain the same cut quality over both time and laser power.

Camera Arm Assembly Option
P30-007424
Precision image-position adjustment
Image focus and lock
Integrated iris
C-mount extension tube

Camera Port
(NA with Standalone Configuration)

C-mount Camera Options
- Digital HD Camera
  P30-007444 - HD Camera
  • Direct connectivity to any HD monitor
  • No PC Required
  • 1/3” CCD
  • True 720p HD O/P @ 60fps
  • Inbuilt Cross-Hair Generator
  • 40w x 40h x 45.8d
- Digital Power Over Ethernet Camera
  P40-007444 - Ethernet Camera
  • Suited for image processing applications
  • 1/3” CCD
  • 1.2 Megapixel resolution @ 40fps
  • Cross-Hair generation via bundled software
  • 40w x 40h x 45.8d
  • PC Based

Digital HD Camera
P30-007444 - HD Camera

Example:
P30-007424-V4D1:
FLC Micro Vertical Cutting Head
85 mm Collimator
85 mm Focus
HLC-8 Fiber Receiver

(A) is variable

Configuration
Collimator (mm) | Focus (mm) | Fiber Receiver
--- | --- | ---
R | 50 mm (AC) | A | 50 mm | HLC-8 (QBH type)
L | 60 mm (AC) | B | 60 mm | LCA (QD type)
V | 70 mm (AC) | C | 70 mm |
S | 85 mm (AC) | D | 85 mm |

* Vertical Configuration not shown above. Same head as Standalone except it is compatible with the camera arm assembly (sold separately).

Mirror module
Fine Adjust Mechanism
Fine Adjust Scale
Coarse Adjust Scale
Coarse Adjust Mech.
Focus lens
Adjustable pressure fitting
Nozzle
Interchangeable
Diameters Available:
- 0.8 mm tip
- 1.0 mm tip
- 1.2 mm tip
- 1.5 mm tip
- 1.8 mm tip
- 2.0 mm tip
- 2.5 mm tip

D25 Focusing Lens Module
P40-007141-004
P40-007141-005
P40-007141-006
P40-007141-007
P40-007141-001
P40-007141-008
P40-007141-002
P40-007141-003

Replacement Nozzles

Protective Window
Optic Only
P45-005047

Graphical illustrations of different configurations:
- Horizontal Configuration
- Vertical Configuration
- Standalone (S)

A lightweight & compact mirror module
- Camera Port
- Camera Arm Assembly Option
- Interchangeable IPG Collimator with integrated aperture/cooling
- Dual Locking Connector available with HLC-8, HLC-16, or LCA bayonet
- Valve
- Protective Window
- Standard Features
- Mirror module
- Fine Adjust Scale
- Coarse Adjust Scale
- Fine Adjust Mechanism
- Capacitive Height
- Sensing Connection
- Lightweight & Compact
- Easy to replace cover slide
- Nozzle
- Interchangeable
- Interchangeable IPG Collimator
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