■ IPG Photonics Cutting Head

from the World Leader in Fiber Lasers











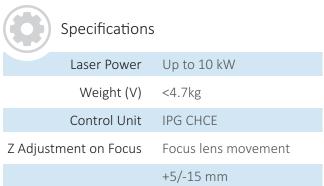
■IPGCut-D30 Cutting Head

IPG Photonics' Process Heads

Standard Features

IPG's D30 cutting heads are designed to provide the highest laser power handling capability in the industry in a completely sealed and lightweight package. The IPGCut-D30 provides effortless integration with IPG lasers and offers precise monitoring of height even under high power and high pressure cutting conditions. Available in multiple configurations with the broadest focus and collimator lens options, the IPGCut-D30 is the ultimate tool to cut a multitude of different material types and thicknesses.





Configuration Collimator Focus Fiber Receiver Pierce Sensor P30-007633 100 mm Vertical 125 mm HLC-8 No (Water Cooled) Base Part # Motorized Cutting Head * Other options available upon request P30-002788 200 mm LCA Yes Base Part # Manual Cutting Head HLC-16 150 mm Example:

P30-007633-A4B11:

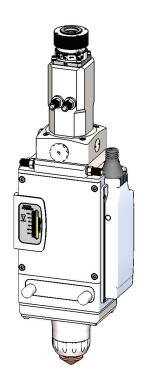
Vertical Motorized Cutting Head 100 mm Water Cooled Collimator 200 mm Focus HLC-8 Fiber Receiver Pierce Detection Sensor Included

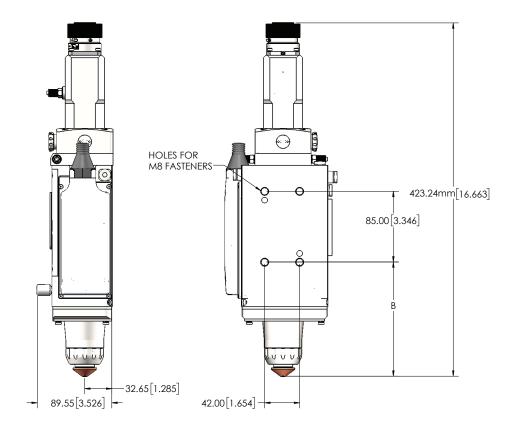
The Power to Transform®

COMING SOON IPGCut-HP

- The highest power handling in the industry.
- Plug and Play interface with high power IPG lasers







CUTTING HEAD ACCESSORIES



Replacement Nozzles Diameters Available

	Wide
• 0.8 mm	P40-003805-001
• 1.0 mm	P40-003805-002
• 1.2 mm	P40-003805-003
• 1.5 mm	P40-003805
• 1.8 mm	P40-003805-004
• 2.0 mm	P40-003805-005
• 2.3 mm	P40-003805-006
• 2.5 mm	P40-003805-007
• 2.8 mm	P40-003805-008
• 3.0 mm	P40-003805-009
• 3.2 mm	P40-003805-010
• 3.5 mm	P40-003805-011
• 4.0 mm	P40-003805-012
• 4.5 mm	P40-003805-013
• 5.0 mm	P40-003805-014

	Narrow		Dual Gas Passage
• 0.8 mm	P40-007141-004	• 0.8 mm	P40-008038
• 1.0 mm	P40-007141-005	• 1.0 mm	P40-008038-001
• 1.2 mm	P40-007141-006	• 1.2 mm	P40-008038-002
• 1.5 mm	P40-007141-001	• 1.5 mm	P40-008038-003
• 1.8 mm	P40-007141-007	• 1.8 mm	P40-008038-004
• 2.0 mm	P40-007141-002	• 2.0 mm	P40-008038-005
• 2.3 mm	P40-007141-010	• 2.3 mm	P40-008038-006
• 2.5 mm	P40-007141-003	• 2.5 mm	P40-008038-007
• 2.8 mm	P40-007141-008	• 3.0 mm	P40-008038-008
• 3.0 mm	P40-007141-009	• 5.0 mm	P40-008038-009
			P40-008038-010
			P40-008038-011
			P40-008038-012

Protective Window Parts Available

• Full Assembly P30-007654 Optics P45-012927 • O-Ring P40-009015





Control Electronics (included)



■ Nozzle Ceramic Assembly

• Ceramic Assembly P30-007834

■IPGCut - Compact Cutting Head

IPG Photonics' Process Heads

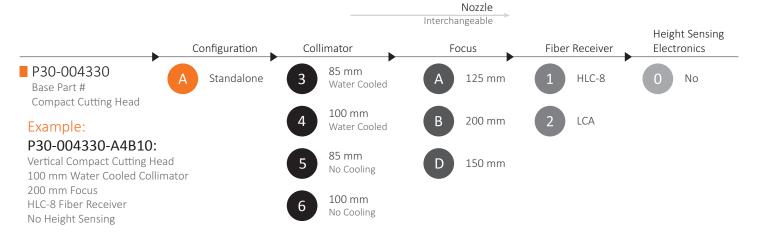
Standard Features

solution for standard flat-bed cutting applications. The combination of IPG's compact cutting heads internal heads optics and its completely sealed architecture provide long term stability of both focal plane and beam quality at lasers up to 4 kW power. IPG's compact cutting heads are plug and play with all IPG lasers providing ease of integration and service. Utilizing all its attributes, IPG compact cutting heads not only provide precise cutting results, but they also maintain its precision cut quality over both time and laser power.



Specifications

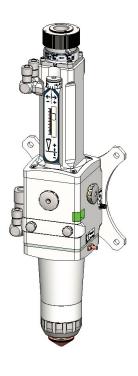
Laser Power	Up to 4 kW
Weight (V)	<2.5 kg
Control Unit	IPG CHCE / External
Z Adjustment on Focus	Collimator lens movement
	*See table for details

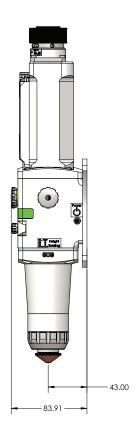


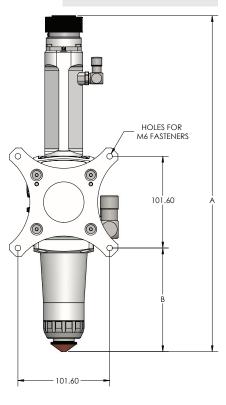
Compact Head Configurations

Focus Lens

125
150
200
A 320.99
343.70
372.83
B 65.59
86.30
115.43
millimeters







CUTTING HEAD ACCESSORIES



■ Replacement Nozzles

Diameters Available

	Wide
• 0.8 mm	P40-003805-001
• 1.0 mm	P40-003805-002
• 1.2 mm	P40-003805-003
• 1.5 mm	P40-003805
• 1.8 mm	P40-003805-004
• 2.0 mm	P40-003805-005
• 2.3 mm	P40-003805-006
• 2.5 mm	P40-003805-007
• 2.8 mm	P40-003805-008
• 3.0 mm	P40-003805-009
• 3.2 mm	P40-003805-010
• 3.5 mm	P40-003805-011
• 4.0 mm	P40-003805-012
• 4.5 mm	P40-003805-013
• 5.0 mm	P40-003805-014

	Narrow
• 0.8 mm	P40-007141-004
• 1.0 mm	P40-007141-005
• 1.2 mm	P40-007141-006
• 1.5 mm	P40-007141-001
• 1.8 mm	P40-007141-007
• 2.0 mm	P40-007141-002
• 2.3 mm	P40-007141-010
• 2.5 mm	P40-007141-003
• 2.8 mm	P40-007141-008
• 3.0 mm	P40-007141-009

	Dual Gas Passage
	O
• 0.8 mm	P40-008038
• 1.0 mm	P40-008038-001
• 1.2 mm	P40-008038-002
• 1.5 mm	P40-008038-003
• 1.8 mm	P40-008038-004
• 2.0 mm	P40-008038-005
• 2.3 mm	P40-008038-006
• 2.5 mm	P40-008038-007
• 3.0 mm	P40-008038-008
• 3.5 mm	P40-008038-009
• 4.0 mm	P40-008038-010
• 4.5 mm	P40-008038-011
• 5.0 mm	P40-008038-012

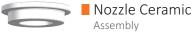
Protective Window Parts Available

Optics P45-012927O-Ring P40-009015





Control Electronics (included)



• Ceramic Assembly P30-007834

■IPGCut Micro Cutting Head

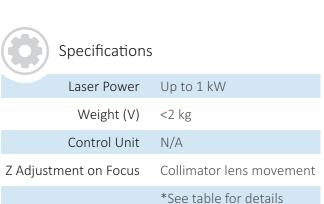
IPG Photonics' Process Heads

Standard Features

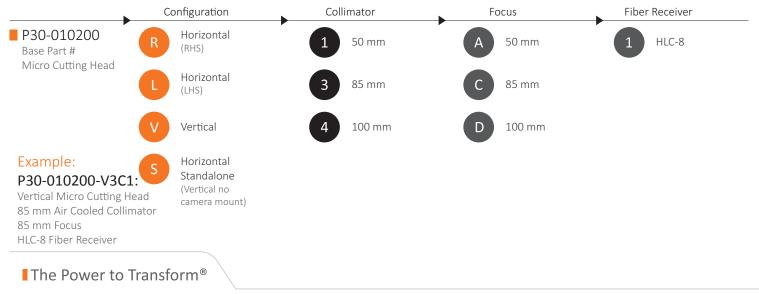
solution for micro-machining applications which require small spot sizes and high-resolution focus adjustment.

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.

IPG micro cutting heads are plug and play with all IPG lasers providing ease of integration and service. IPG micro cutting heads not only provide precise cutting results, but they also maintain its precision cut quality over both time and laser power.







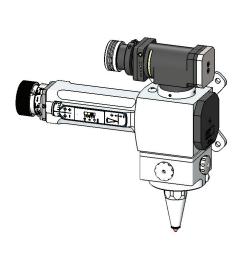
Configurations

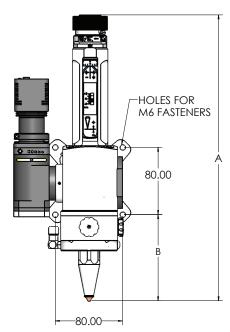
 Focus Lens
 50
 85
 100

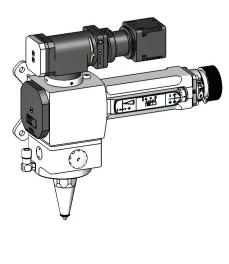
 A
 306.22
 325.52
 340.46

 B
 68.51
 87.81
 102.75

millimeters







CUTTING HEAD ACCESSORIES



■ Replacement Nozzles
Diameters Available

Nozzles Protective Window
Parts Available



• Optic only P45-012927

0.2 mm
0.3 mm
P45-017701-002
0.4 mm
P45-017701-003
0.5 mm
P45-017701-004
0.8 mm
P45-017701-005
1.0 mm
P45-017701-006
P45-017701-007

Camera Module

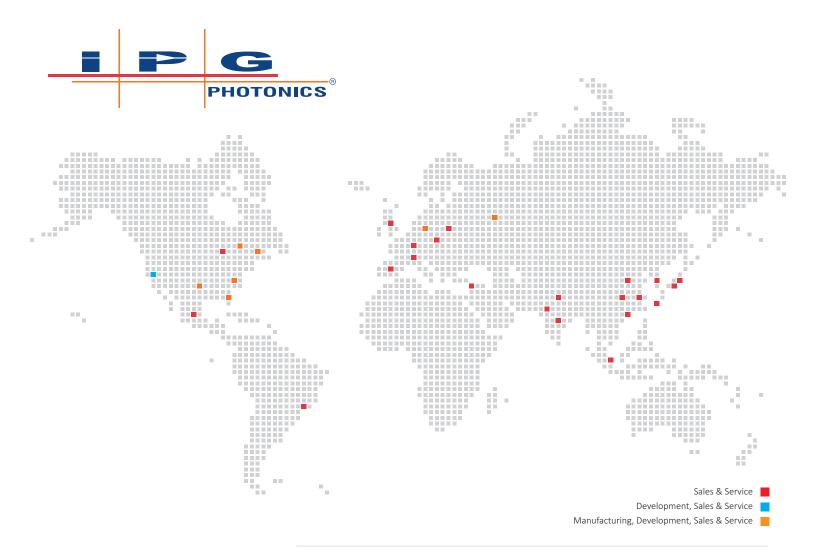


P30-002424

Camera



- HD Camera (HDMI Connection) P40-000125 (1280x720 resolution, 60fps) P40-000128 (Power supply for camera) P40-000130 (Controller for camera)
- PoEHS Camera (Ethernet Connection) P40-000126 (1280x966 resolution, 40fps) P40-000129 (Power supply for camera)



IPG Photonics Corporation

World Headquarters
Oxford, MA USA
+1 508 373 1100
sales.us@ipgphotonics.com

IPG Laser GmbH

European Headquarters Burbach, DE +49 2736 44200 sales.europe@ipgphotonics.com

IRE-Polus Co.

IPG Russia Fryazino, Moscow RU +7 (495) 702 95 89 mail@ntoire-polus.ru

Brasil

+55 11 4380 9939 sales.br@ipgphotonics.com

China

+86 10 6787 3377 ext. 1020 sales@ipgbeijing.com

Czech Republic

+420 241 433 199 sales.cz-sk@ipgphotonics.com

France

+33 (0) 388 674 974 sales.france@ipgphotonics.com

India

+91 80 2852 4861 sales@ipgphotonics.in

Italy

+39 0331 170 6900 sales.italy@ipgphotonics.com

Japan

+81 45 716 9831 info@ipgphotonics.co.jp

Mexico

+52 81 1354 2540 ipgmexico@ipgphotonics.com

Poland

+48 32 721 22 20 sales.poland@ipgphotonics.com

Singapore

+65 62722663

sales. singapore@ipgphotonics.com

South Korea

+82 42 930 2000 ipgk@ipgphotonics.com

Spain & Portugal

+34 937 999 971 sales.spain@ipgphotonics.com

Taiwan

+886 2 27 93 3582 ahung@ipgphotonics.com

Turkey

+90 216 306 0317 sales.turkey@ipgphotonics.com

United Kingdom & Ireland

+44 0 117 203 4060 sales.uk@ipgphotonics.com

www.ipgphotonics.com

IPG Photonics manufactures a wide range of laser products with laser classifications ranging from Class I to Class IV. Please review the individual product specification for the optical performance characteristics specific to the device. This information typically includes the wavelength range, output power (CW and/or Peak), Pulse Energy, Pulse Repetition Rate, Pulse Width, etc.

VISIBLE ANDIOR INVISIBLE
LASER RADIATION
AVOIDE EYE OR SKIN EXPOSURE TO
DIRECT OR SCATTERED RADIATION
CLASS X LASER PRODUCT
Per IEC 60825-1: 2007-03; 21 CFR 1040: 10(g)