

PH10-SmartCut+

High-Precision Laser Processing Head for High Speed Drilling and Cutting

SmartCut+ uses highly agile galvos to precisely cut holes at high repetition rates. The high speed allows to drill up to 150 holes per second on-the-fly. As this requires no interruption of the linear motion, it greatly simplifies axis control and thus reduces the cycle time considerably.

SmartCut+ combines the speed of single-shot drilling with the edge quality of cutting.



FEATURES

- High-speed drilling and cutting on-the-fly
- Up to 150 holes per second
- Increased production capacity
- Automatic shape control - compensation of axis movement

APPLICATIONS

- Filters
- Perforation of membranes
- Speaker meshes
- Ventilation holes

Specifications		PH10-SmartCut+
Recommendend Laser Source	Coherent PowerLine FL	
Optical Configuration		
Collimator (mm)		
PowerLine FL 600 / PowerLine FL 400	f80	
PowerLine FL 150 P	f80	
Focus Unit (mm)	f100	
Spot Size (Depending on Laser Source; μm)	20 to 30	
Depth of Focus (mm)	1	
Working Wavelength (nm)	1060 to 1070	
Maximum Hole Diameter (mm)	0.9 mm (within cutting nozzle)	
Maximum Drilling Rate (holes/second)	150	
Size (standard configuration)		
Dimensions (L x W x D)	439.3 x 204.51 x 156.14 mm (17.3 x 8.0 x 6.13 in.)	
Weight	5.2 kg (11.5 lbs)	
Laser		
Fiber Connection	QBH fiber connector	
Maximum NA (Depends on Collimator)	0.05 (F100) 0.063 (F80)	
Maximum Laser Power	600 W cw; peak 2000 W modulated	
Control Unit		
Size	19" x 2 HE	
Weight	7 kg (15.4 lbs.)	
Power Supply	230 V AC / 10A	
Data Connection	Ethernet	
Environmental Conditions		
Operating Temperature	25°C \pm 10°C (77°F \pm 50°F)	
Storage Temperature	-35°C to +60°C (-31°F to d+140°F)	

Mechanical Specifications

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