RAYTOOLS

BM114 SERIES

Auto Focus Laser Cutting Head

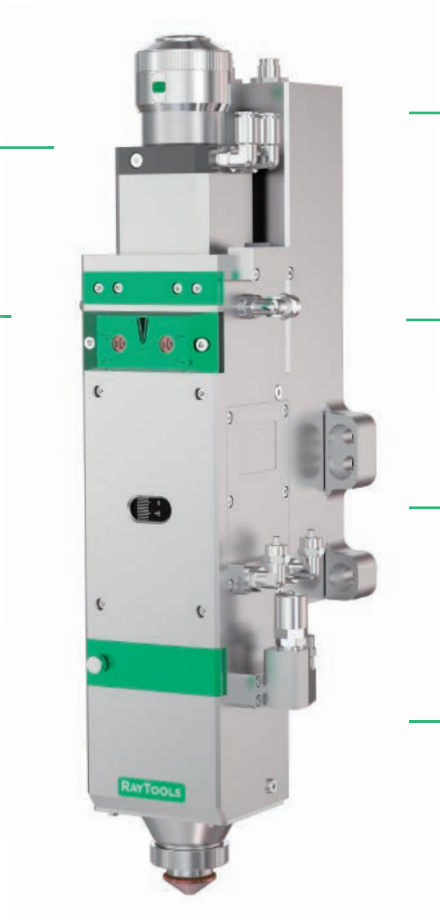
Power Rating 6KW

Rated to 6kW @ 1um, with D37 lens combo for thick plate cutting.

Updated version from BM114S with improved design of optics systems and gas circuit.

Collimation and focusing lenses are both water cooled.

Compact design to reduce the payload of Z axis.



35mm Clear aperture which effectively reduces stray beam interference and guarantee cutting quality and lifespan.

Additional middle cover glass is epquipped to prolong lifespan of focus lens.

Air cooling to nozzle which effectively protects the nozzle & ceramic part and extends the lifespan.

Auto focus by Yaskawa or AheadTechs Servo.

Technical Data

Fiber Interface	QBH, QD, G5
Clear Aperture	35 mm
Auto focus	
- Range	+15 ~ -20 mm
- Acceleration	≤ 10 m/s²
- Velocity	≤ 10 m/min
- Accuracy	≤ 50 μm
Cover Glasses	
- Collimation Side (Top/Middle)	Φ37 * 1.6 mm
- Focusing Side (Bottom)	Φ37 * 7 mm

Collimation Length	100mm
Focusing Length	150mm, 200mm
Nozzle Styles	Single, Double, Custom
Diameter of Nozzle tip	
- Single	1.2~5 mm
- Double	1.0~1.8 mm
- Boost	1.6~7.0 mm
Assist gas pressure	≤ 30 bar
Weight	~ 5.6 kg

Specifications subject to change without notice.

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