

RAYTOOLS

BM114S SERIES

Auto-Focusing 2D Cutting Head

Power Rate **6000W**



scan it for more details

High Power Rating

Rated to 6.0 kW optical power at 1 μm , with D37 lens combo, and opt designed for thick plate cutting.

High Efficiency Cooling

Collimation and focusing lenses are both water cooled. Increased air flow cooling for nozzle, effectively protect the nozzle and ceramic part, also extend the lifetime.

Portable and Durable

5.6KG , compact structure, reduces the mechanical requirements.

Large Clear Aperture

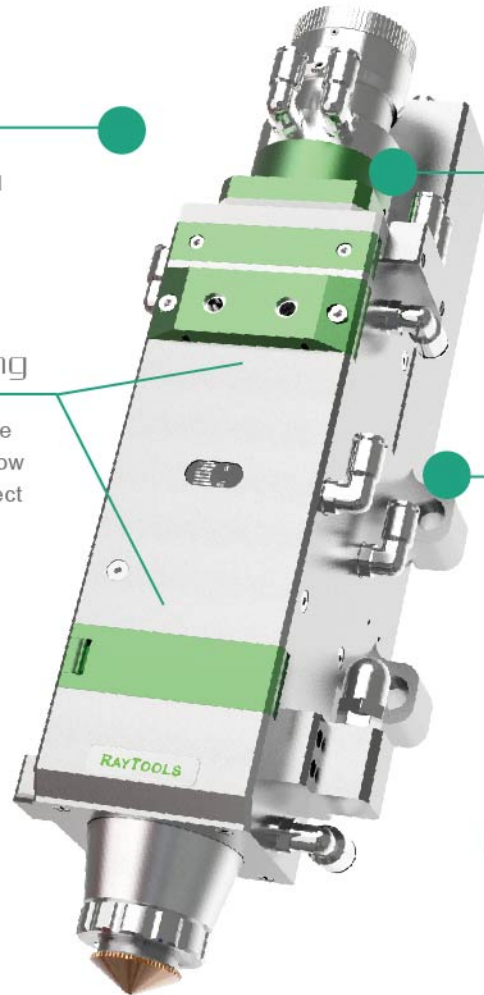
35mm clear aperture, effectively reduce stray light interference, guarantee cutting quality and service life cycle.

Servo Drive Auto-focusing

Auto-focusing to reduce human intervention .
MAX focusing speed 10m/min,
Repeat accuracy 50 μm .

High-Speed Piercing & Cutting

Pierces up to 25 mm mild steel in 3 sec @3000W



Specifications

Fiber Interface	QBH , QD
Clear Aperture	35 mm
Auto focus	
- Range	+10 ~ -14 mm
- Acceleration	$\leq 10 \text{ m/s}^2$
- Velocity	$\leq 10 \text{ m/min}$
- Accuracy	$\leq 50 \mu\text{m}$
Cover glasses	
- Collimation side	$\Phi 38 \text{ mm} * 1.5 \text{ mm}$
- Focusing side	$\Phi 37 \text{ mm} * 7 \text{ mm}$

Collimator Focal length	100mm
Focusing Focal length	150mm , 200mm
Nozzle Styles	Single , Double , Custom
Diameter of Nozzle tip	0.8mm, 1.0mm, 1.2mm, 1.5mm, 2.0mm, 2.5mm, 3.0mm, 3.5mm, 4.0mm, 4.5mm, 5.0mm
Assist gas pressure	$\leq 30 \text{ bar}$
Weight	$\sim 5.6 \text{ kg}$

Specifications subject to change without notice.