



Riselas

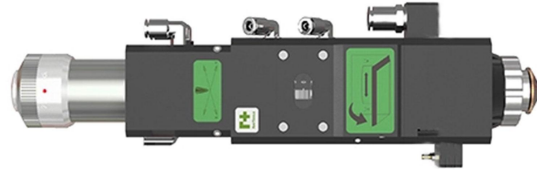
深圳市华升激光科技有限公司

SHENZHEN RISELASER TECHNOLOGY CO., LTD

3KW 2D Fiber Laser Cutting Head



Riselas



Product description

BT240S is an optical fiber cutting head designed by Switzerland RAYTOOLS AG. It is suitable for small and medium power (up to 3300W) fiber lasers in industrial applications. It is of overall optimized optical focusing system, annular air path and turbulent air flow and nozzle cooling design, built-in water cooling unit, and fine adjustment of focus position.



Application

BT240S can fully meet the industrial laser processing environment of thin plate, medium and thick plate cutting and other customized needs of different applications. A variety of flexible fiber interface options and optical collimation and focusing configurations enable it to adapt to various mainstream fiber lasers in the industry.

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Advantages

1. Highly dustproof:

The dustproof grade is IP65, and the light path is fully enclosed, so the possibility of lens contamination is almost zero.

2. Adjustable zero focus:

The scale can be adjusted flexibly to unify the zero focal position, and no longer worry about adjusting process parameters.

3. Efficient water cooling:

The focusing lens, collimating lens and nozzle have built-in cooling function, which can solve the problem of cutting heating.

4. Optimize structure design:

Integrated body design, improved QBH optical fiber interface no longer stuck due to water leakage and rust.



Technical Parameters

Power level	3300W
Focus clear aperture	28mm
Focal length of collimator lens	100mm
Focusing lens focal length	125mm, 155mm, 200mm

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Nozzle hole specifications	single layer, double layer, non-standard
Optical fiber interface	QBH, QD, QCS
Nozzle aperture	0.8mm-5.0mm (optional)
Protect the lens:	
-Collimation protection lens	φ24.9mm*1.5mm
-Focus protection lens	φ27.9mm*4.1mm
Auxiliary gas pressure	≤25bar
Weight	3.5kg

Water cooler interface parameters

Minimum flow rate	1.8 liters/minute (0.48gpm)
Inlet water pressure	170-520kPa (30-60 psi)
Inlet water temperature	≥room temperature/>dew point
Water hardness (relative to CaCO ₃)	<250mg/liter
pH range	6 to 8 (deionized water or distilled water)
Passable particle size	≤ 200 μm in diameter

Lens cleaning

Due to the processing characteristics of laser cutting, regular maintenance of the lens is required. It is recommended that the protective lens, collimator lens and focusing lens be cleaned once a week.

I. Tools used: dustproof gloves, finger cots, polyester cotton swabs, ethanol, rubber air blower.

II. Cleaning method:

1. Wear finger cots on the left thumb and index finger.
2. Spray ethanol on the polyester cotton swab.
3. Gently pinch the side edge of the lens with the thumb and index finger of your left hand. (Note that the finger cot cannot touch the surface of the lens to avoid leaving marks)
4. Place the lens facing your eyes, hold the polyester cotton swab in your right hand, and wipe the surface of the lens from bottom to top. Clean the front and back sides. After cleaning, reconfirm that there are no residues of the following: detergent, floating dust, foreign matter.

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