

Shanghai BOCI Automation Technology Co., Ltd. All Rights Reserved

If there is any content change, it will be updated in time, and we apologize for any inconvenience caused



Scan the code to
follow the official Douyin Account



Scan the code to
follow the official video channel

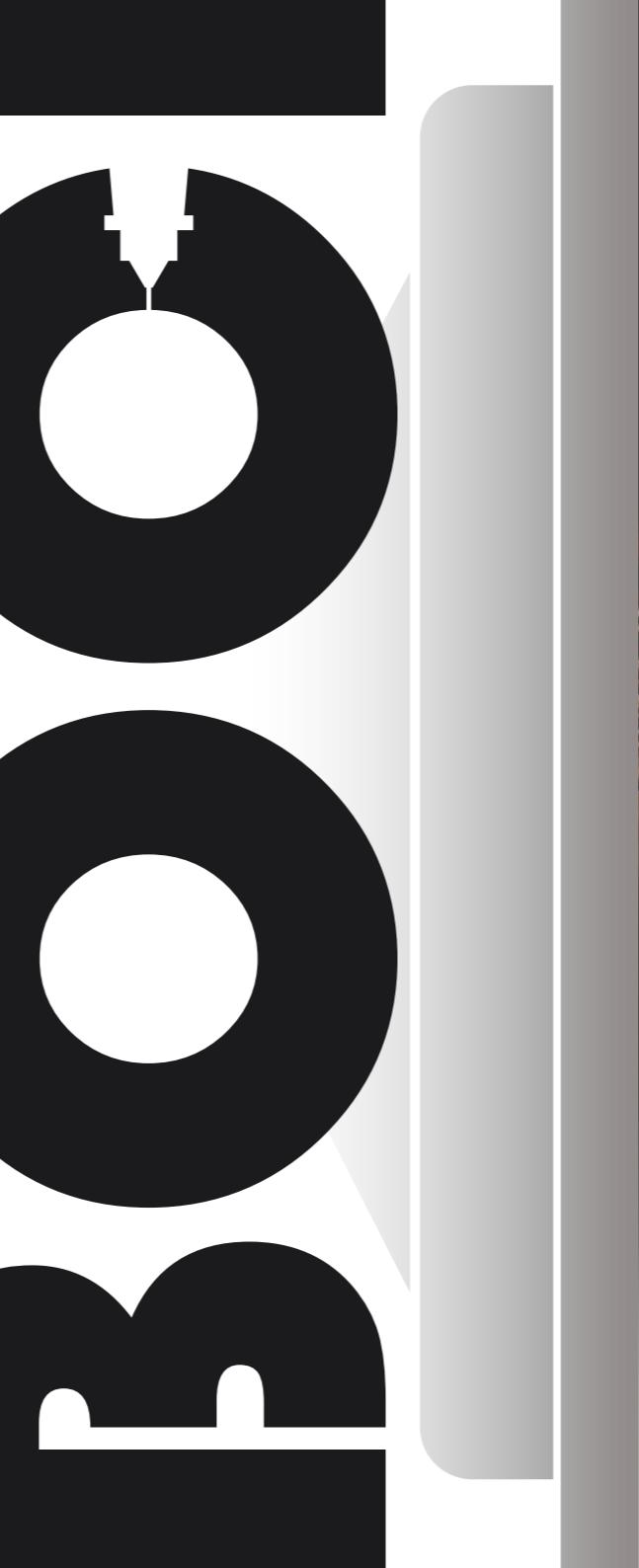
Shanghai BOCI Automation Technology Co., Ltd.

NO.1000, South Lanxiang Lake Road, Minhang District, Shanghai

Tel: +86 (21) 64309023

Fax: +86 (21) 64308817

Official website: www.fscut.com



BLT4

Series

Tube cutting



Plane/Slant



BLT4 Series Cutting Head Functionalities

	Plane/Slant			Tube Cutting		
Model	BLT421	BLT441	BLT461	BLT481	BLT421T	BLT441T
Power	≤8kw	≤15kw	≤20kw	≤30kw	≤8kw	≤15kw
Closed-loop monitoring	✓	✓	✓	✓	✓	✓
Collimation and focusing	✓	✓	✓	✓	✓	✓
Built-in amplifier	✓	✓	✓	✓	✓	✓
Nozzle cooling	✓	✓	✓	✓		
Amplifier water cooling	✓	✓	✓	✓		
Protective lens temperature monitoring	✓	✓	✓	✓	✓	✓
Cutting-gas pressure monitoring	✓	✓	✓	✓	✓	✓
Anti-collision protection	✓	✓	✓	✓	✓	✓
Pan-seal failure detection		✓	✓	✓		✓

BLT4X1

Plane/Slant

Focusing range:
 $\pm 50\text{mm}$

Focusing speed:
500mm/s

Repositioning accuracy:
 $\pm 0.01\text{mm}$



03

BOCI

Shanghai BOCI Automation Technology Co., Ltd

BLT4X1 Features //



Closed-loop Monitoring

Smarter and Safer //

Built-in multiple sets of sensors, real-time closed-loop intelligent monitoring, rapid diagnosis of problems and proactive warning.

04

Shanghai BOCI Automation Technology Co., Ltd

BLT4X1 Features //

Anti-Collision Protection

More convenient maintenance //

The anti-collision design of the cutting head effectively reduces the depot-repair probability, without technical support, customers can replace the broken parts by themselves, and the maintenance cost is lower.

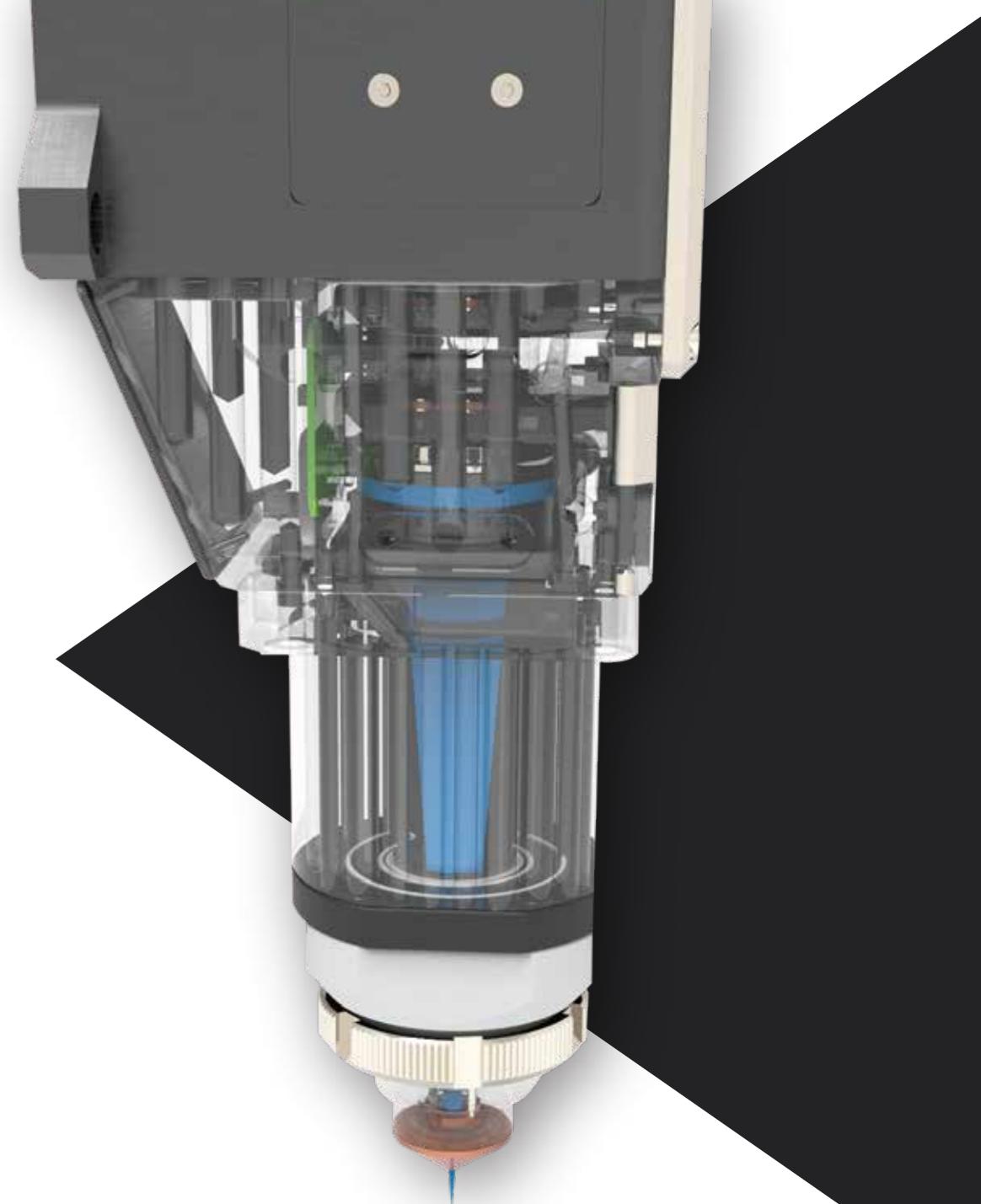


BLT4X1 Features //

Air Pressure Monitoring

Improve cutting stability //

Real-time monitoring of gas flow rate during cutting, effectively reduces the affects of air pressure deficiency/exaggerated on cut surface quality.



BLT4X1 Features //

Protective Lens Temperature Monitoring

Increase process stability //

Real-time monitoring of the status of the protective lens, warning system can work quickly when the lens are polluted and it can reduce the negative effects of polluted lens on cutting quality.



Collimation and Focusing

Zoom faster //

Reduce waiting time for zooming, more coherent cutting experience makes processing more efficient.

BLT4X1 Features //

Water Cooling

More stable cutting quality //

Water-cooled design covering 90% of the optical path of the cutting head makes cutting more stable.



Slant Cutting

One-time forming //

With the AB swivel axis, it can support cutting V, Y, X and other types of grooves, with largest of $\pm 45^\circ$ groove and one-time forming, reducing the slant opening processes, decreasing costs and increasing efficiency.



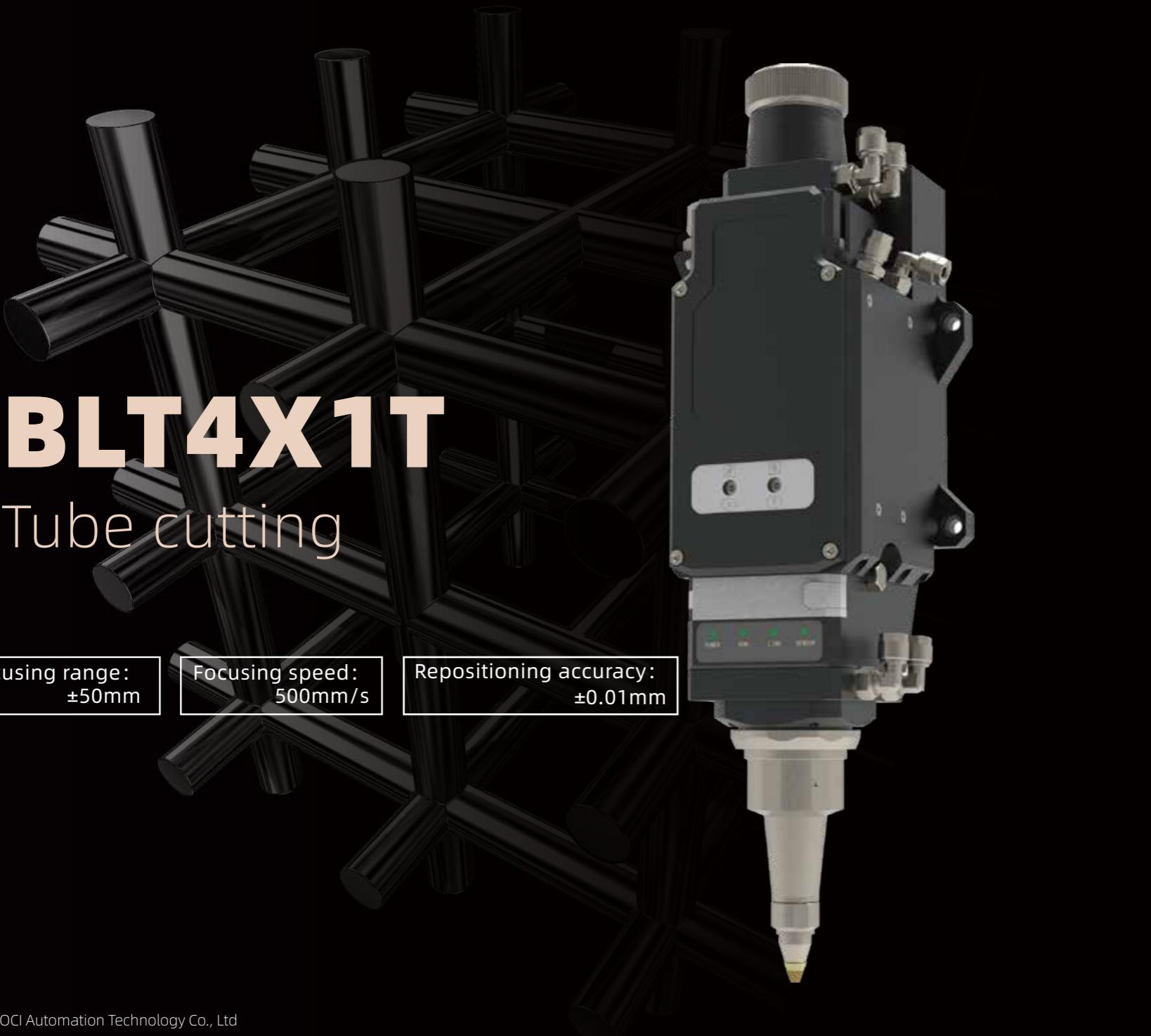
BLT4X1T

Tube cutting

Focusing range:
±50mm

Focusing speed:
500mm/s

Repositioning accuracy:
±0.01mm



BLT4X1T Features //



Pan-seal Failure Detection

Extend the service life of protective lens //

Real-time monitoring of the sealing effectiveness of the protected area, prolong the service life of the protective lens and ensure the stable production of customers.

BLT4X1T Features //

Anti-collision Protection

More Convenient Maintenance //

The anti-collision design of the cutting head effectively reduces the depot-repair probability, without technical support, customers can replace the broken parts by themselves, and the maintenance cost is lower.

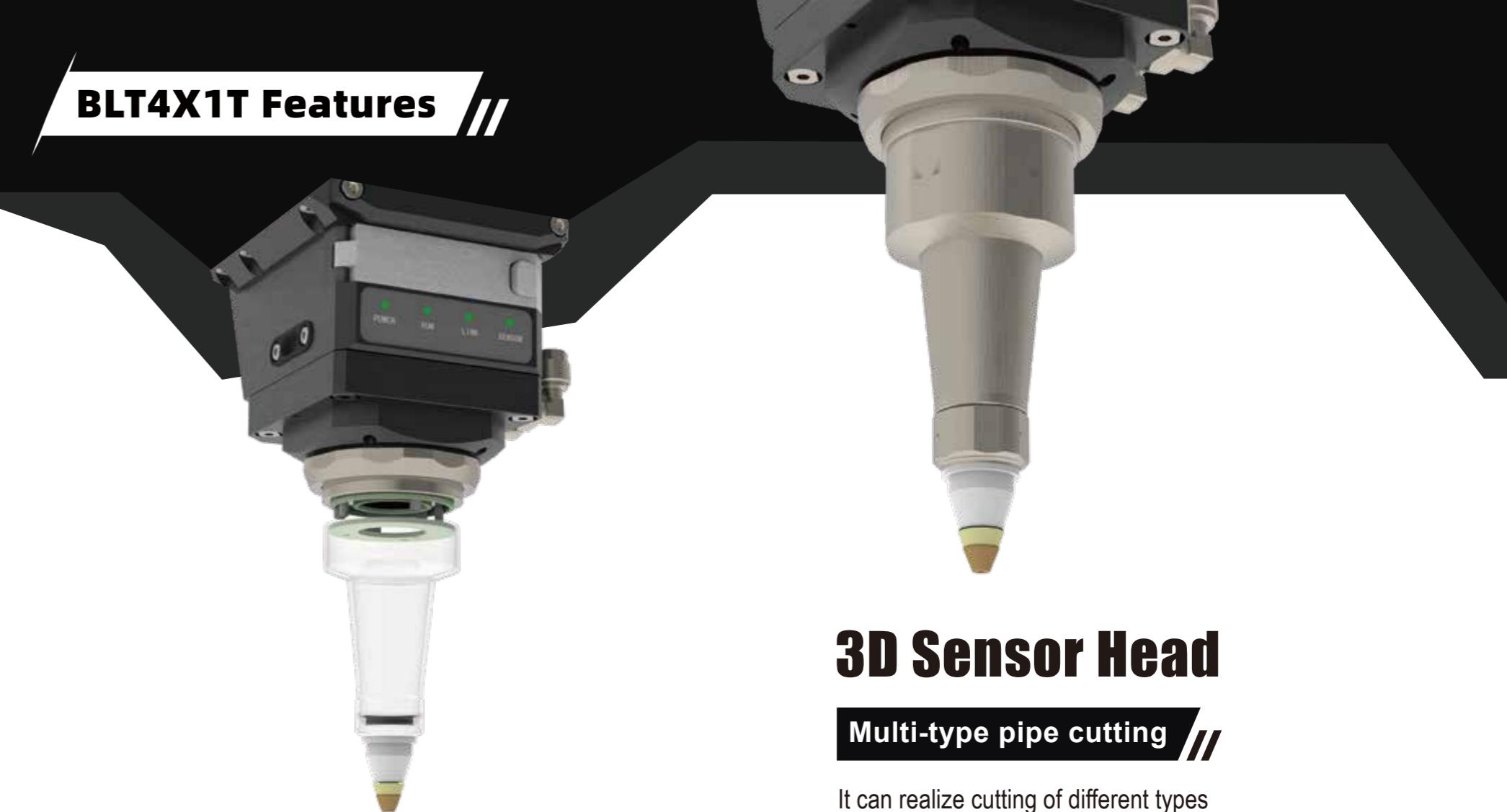


BLT4X1T Features //

Built-in Amplifier

Improve capacitance stability //

Strong anti-interference ability, more stable capacitance.



3D Sensor Head

Multi-type pipe cutting //

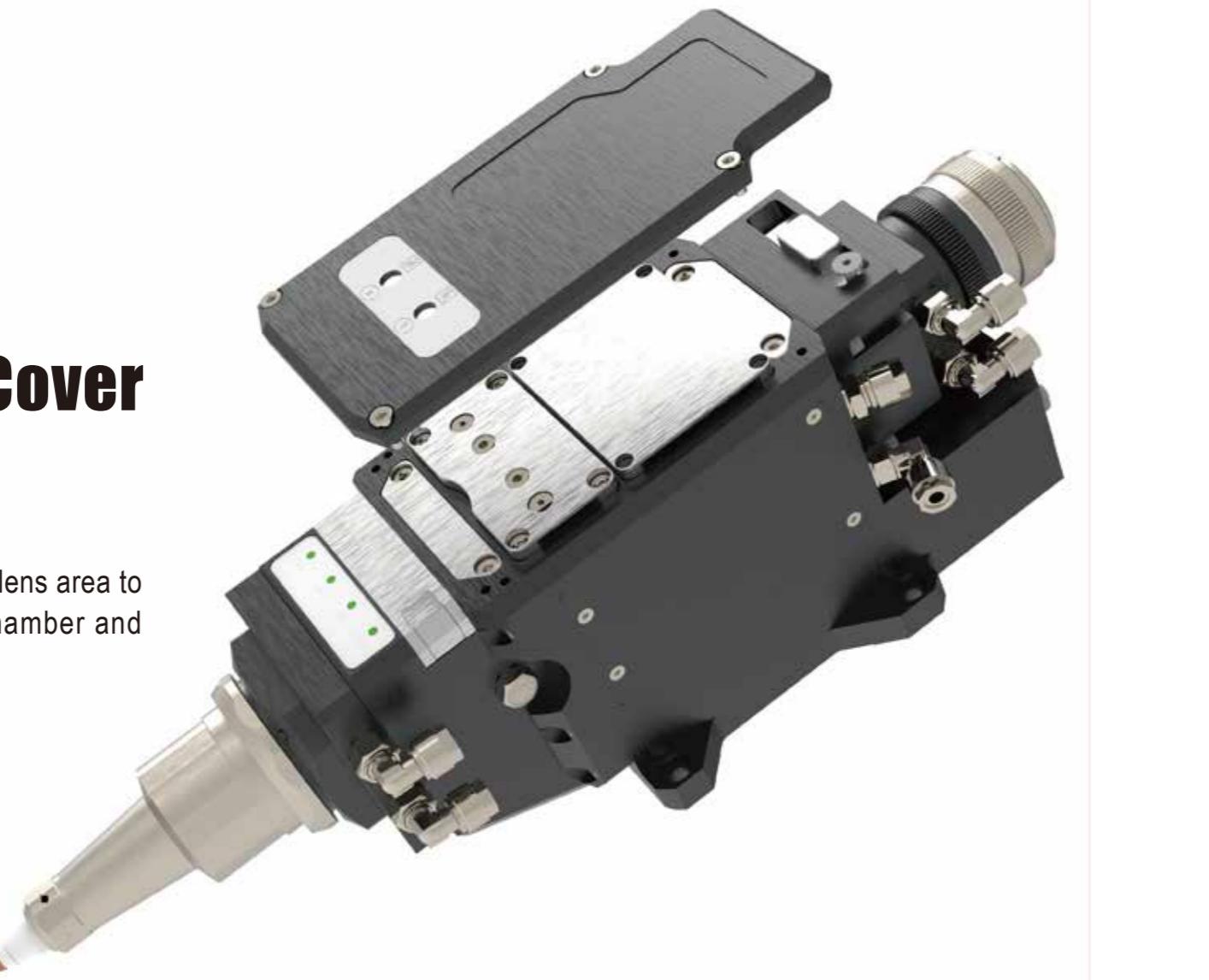
It can realize cutting of different types of pipes: round pipe, square pipe, channel steel, I-beam, etc.

BLT4X1T Features //

Dust-proof Front Cover

Better sealing //

A dust-proof cover is added to the optical lens area to improve the sealing level of the core chamber and extend the core lens life.



BLT4X1T Features //

Four Sets of Protective Lens

Extra protection to extend core lens life //

Establish multiple protective barriers to improve the sealing level of the core chamber.



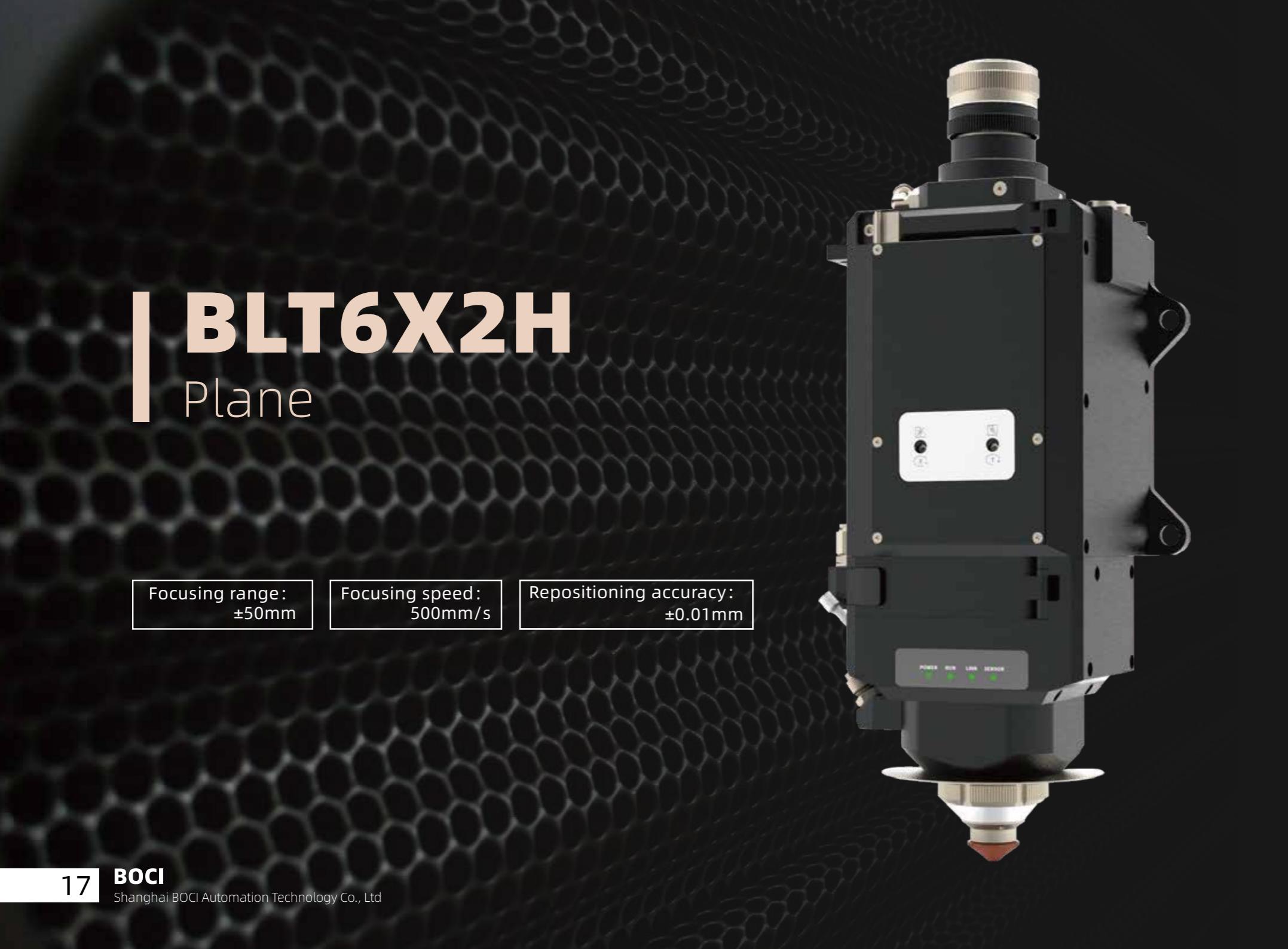
Plane



BLT6
Series

BLT6 Series Cutting Head Functionalities

Plane				
Model	BLT642H	BLT662H	BLT682H	BLT6102H
Power	≤15kw	≤20kw	≤30kw	≤40kw
Closed-loop monitoring	✓	✓	✓	✓
Cutting- gas pressure monitoring	✓	✓	✓	✓
Protective lens temperature monitoring	✓	✓	✓	✓
Upper astigmatism detection	✓	✓	✓	✓
Middle astigmatism detection	✓	✓	✓	✓
Lower astigmatism detection	✓	✓	✓	✓
Smart piercing	✓	✓	✓	✓
Air/Nitrogen Process Monitoring	✓	✓	✓	✓
Anti-explosion detection of protective lens	✓	✓	✓	✓
Pan-seal failure detection	✓	✓	✓	✓
Co-edge perforation detection	✓	✓	✓	✓



BLT6X2H

Plane

Focusing range:
±50mm

Focusing speed:
500mm/s

Repositioning accuracy:
±0.01mm



BLT6X2H Features //

Co-edge Perforation Detection

Improve processing efficiency //

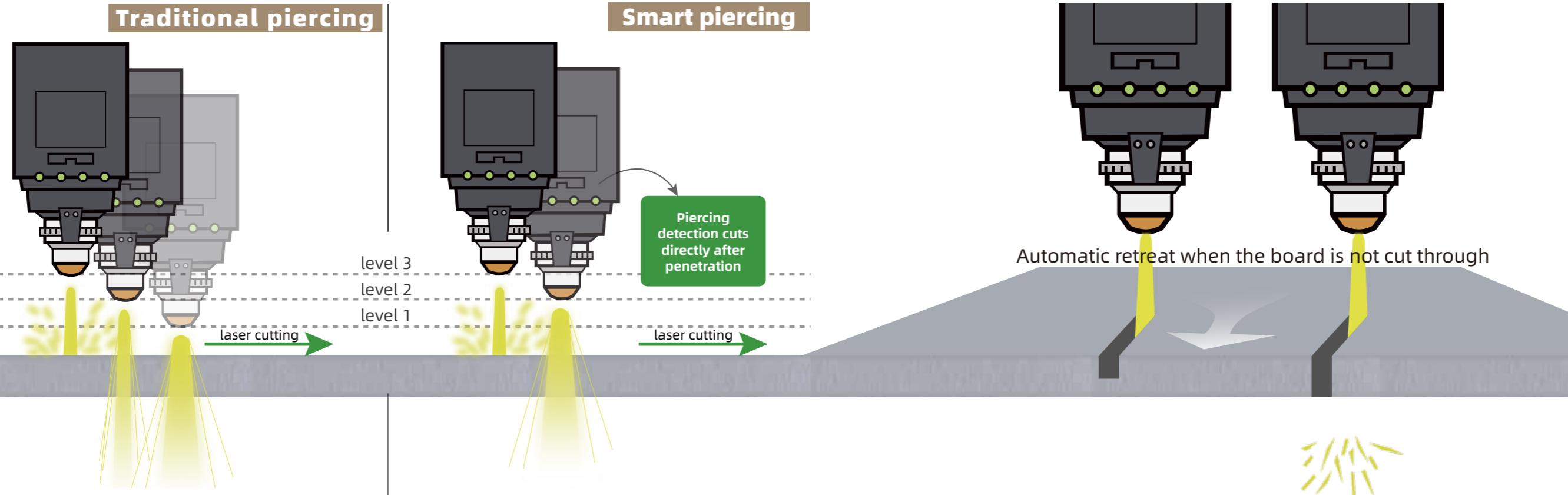
Intelligently detect whether perforation is required at the co-edge position, perforation is performed when the misalignment of the sheet is detected. If there is no misalignment, it will be cut directly, which greatly improves the processing efficiency.

BLT6X2H Features //

Smart Piercing

Improve piercing efficiency //

Using sensors to monitor the piercing process, continue cutting immediately after piercing, decrease waiting time and improve efficiency, and cost-effective.



BLT6X2H Features //

Process Monitoring

More stable and efficient cutting //

Real-time monitoring through the internal sensors of the cutting head. During the cutting process, when it is monitored that the slugs is not cut completely, it will automatically retreated for re-cutting, achieve unattended operation and stable processing.

BLT6X2H Features //

Anti-collision Protection

More convenient maintenance //

The anti-collision design of the cutting head effectively reduces the depot-repair probability, without technical support, customers can replace by themselves, and the maintenance cost is lower.

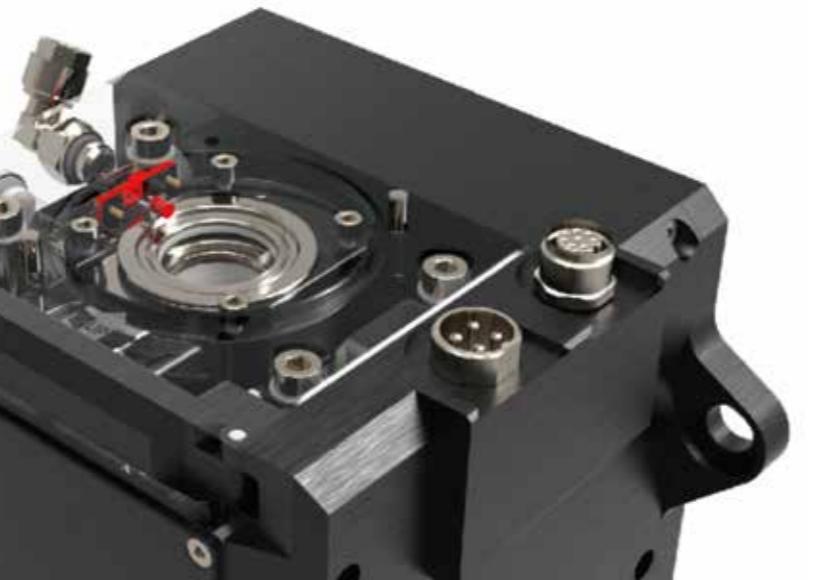
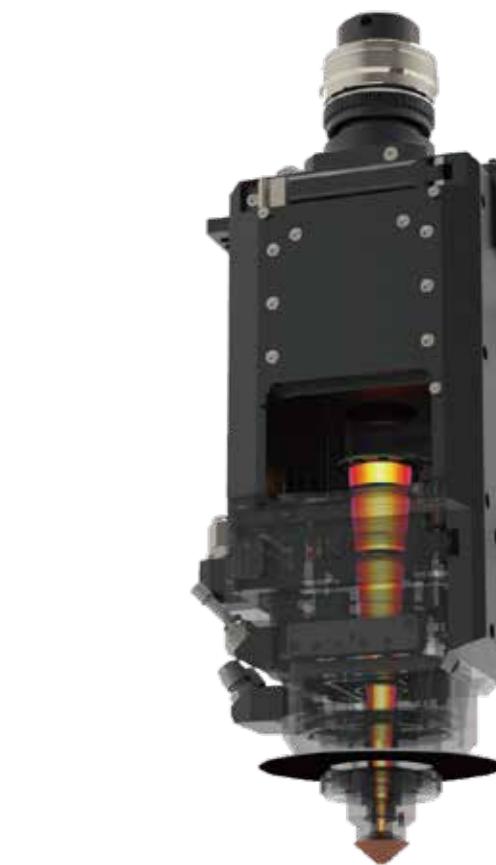


BLT6X2H Features //

Astigmatism Monitoring

Easier troubleshooting //

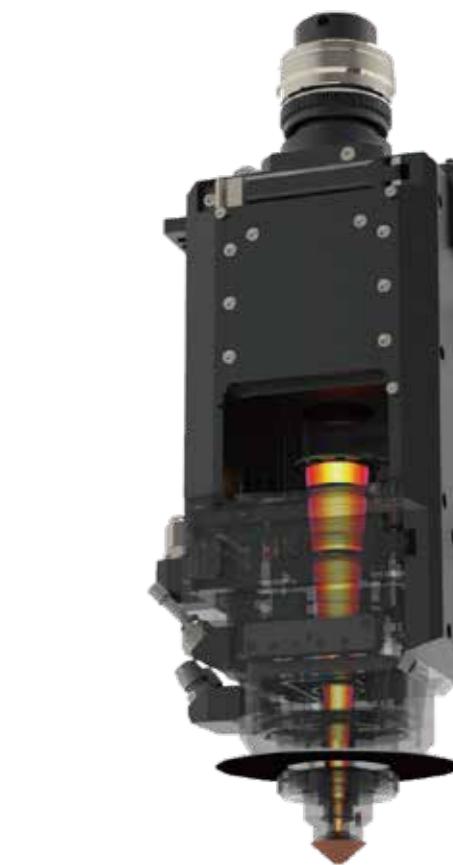
Real-time monitoring of the astigmatism value inside the chamber of the head, which can effectively avoid damage to the cutting head due to excessive astigmatism values and can narrow the scope of investigation of contaminated lenses.



Anti-explosion Monitoring of Protective Lens

Safer to use //

In high-power laser cutting operations, precise and sensitive sensors are crucial to the cutting head, BLT6 series pollution sensor and system algorithm are upgraded, excellent functions can help customers deal with various working conditions.



Tube cutting/Slant
BLT5
Series



BLT5 Series Cutting Head Functionalities

Tube cutting/Slant		
Model	BLT520H	BLT540H
Power	≤8kw	≤15kw
Closed-loop monitoring	√	√
Protective lens temperature monitoring	√	√
Cutting- gas pressure monitoring	√	√
Built-in amplifier	√	√
Anti-collision Protection	√	√
Anti-explosion detection of protective lens	√	√
Smart piercing	√	√
Process monitoring	√	√

BLT5X0H

Tube cutting/Slant cutting

Focusing range:
±50mm

Focusing speed:
500mm/s

Repositioning accuracy:
±0.01mm

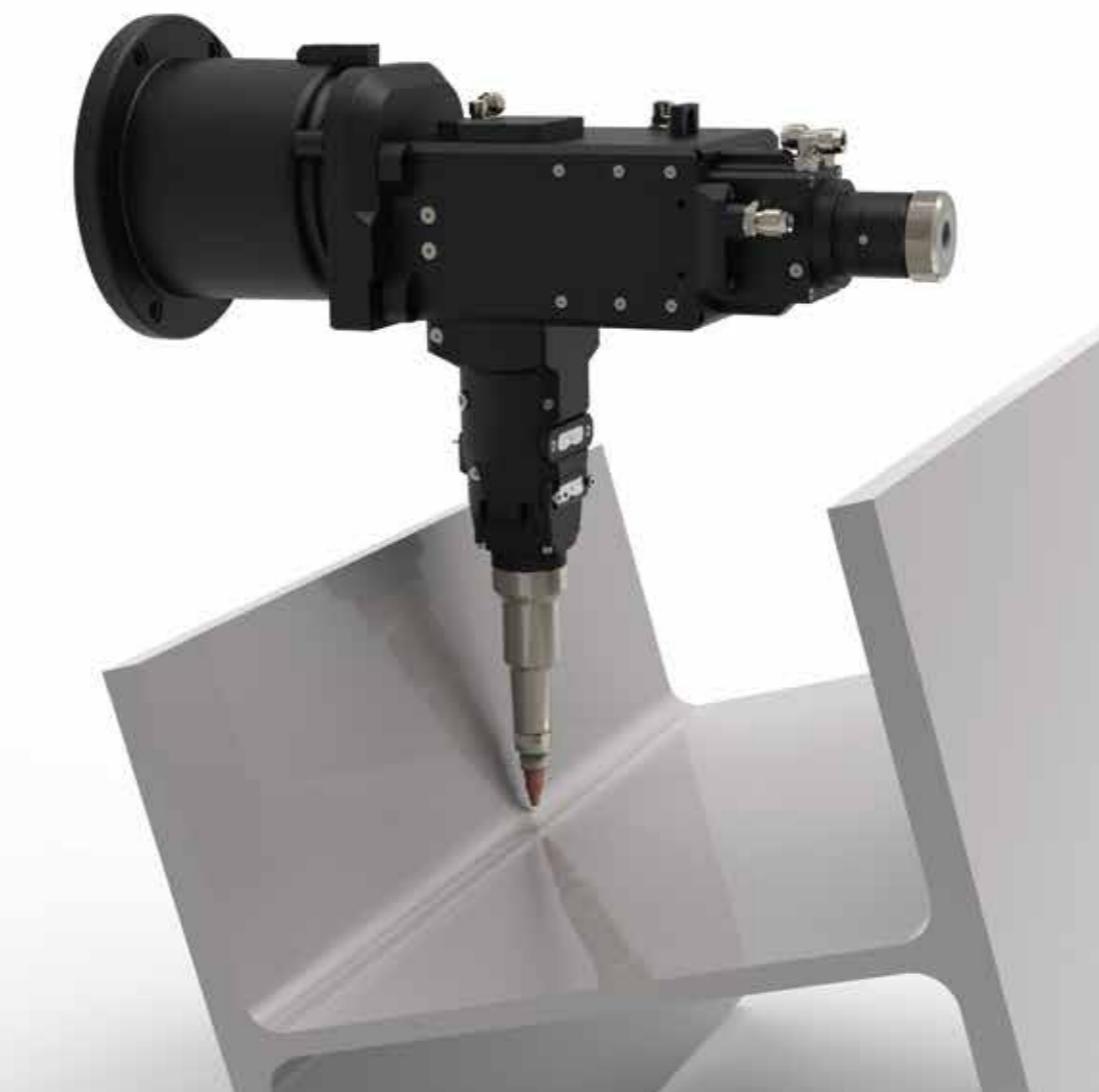


BLT5X0H Features //

Slant Cutting

One time forming //

BLT540H can achieve maximum $\pm 45^\circ$ bevel cutting, one time forming, reduce the slope opening process, improve efficiency, and cut the maximum 400mm×40mm I-beam steel.



BLT5X0H Features



Right Angle Cutting Head

safer //

The right-angle cutting head can reduce the swing angle of the fiber, effectively extend the life of the fiber.



Anti-collision Protection

More convenient maintenance //

The anti-collision design of the cutting head effectively reduces the depot-repair probability, without technical support, customers can replace the broken parts by themselves, and the maintenance cost is lower.

BLT5X0H Features



Air Pressure Monitoring

Improve cutting stability //

Real-time monitoring of gas flow rate during cutting, effectively reduces the affects of air pressure deficiency/exaggerated on cut surface quality.



Built-in Amplifier

Improve capacitance stability //

Strong anti-interference ability, more stable capacitance

Bring You The Smart Factory.

BOCI

