

Bodor SC Series

High-Speed | Metal Sheet Laser Cutting Machine



Built at Ultra Speed Built to Lead

The SC Series doubles overall efficiency in thin-sheet processing, redefining the high-speed industry benchmark with next-level productivity.

*Visuals are for reference only. Actual machine prevails.

2.5G+9HZ Acceleration

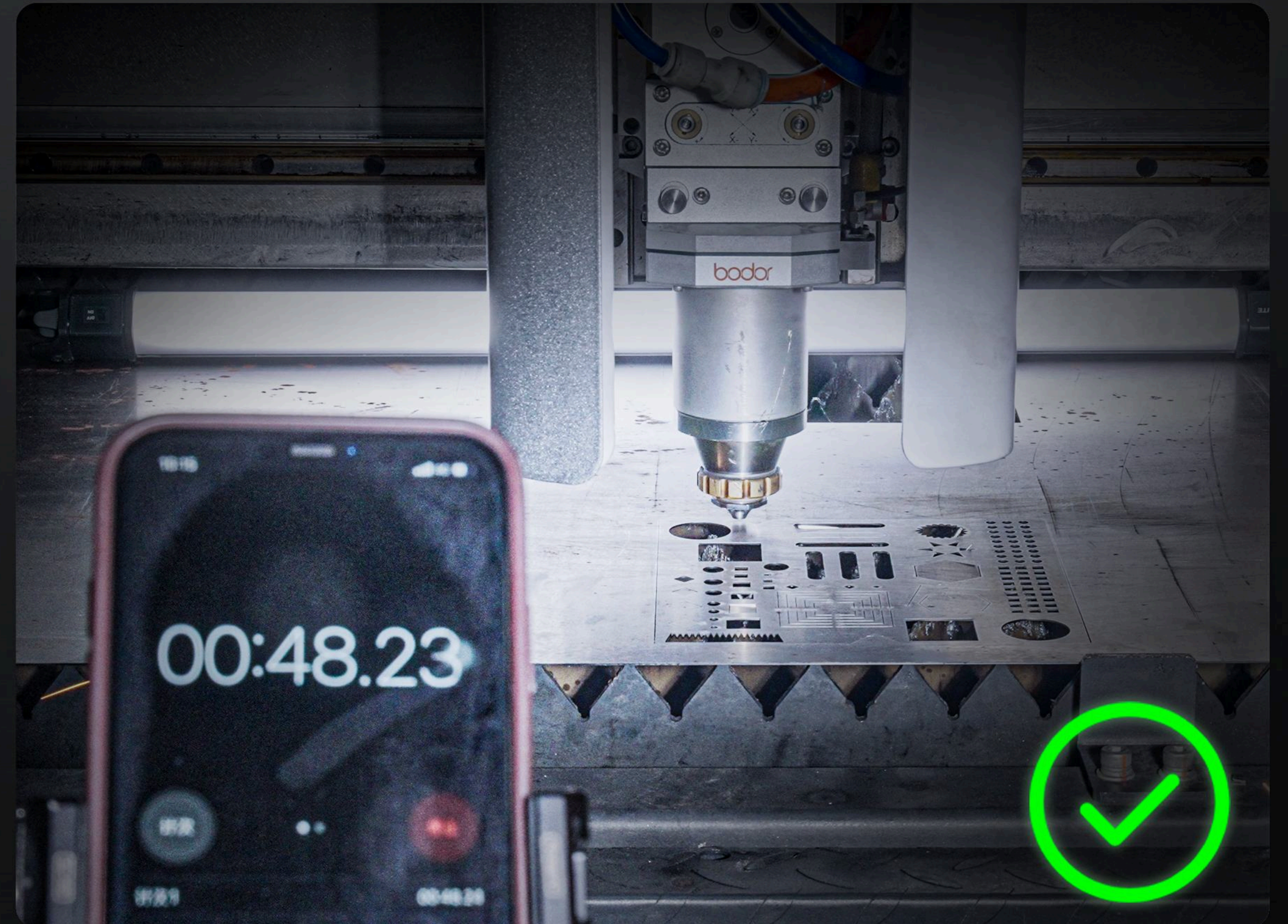
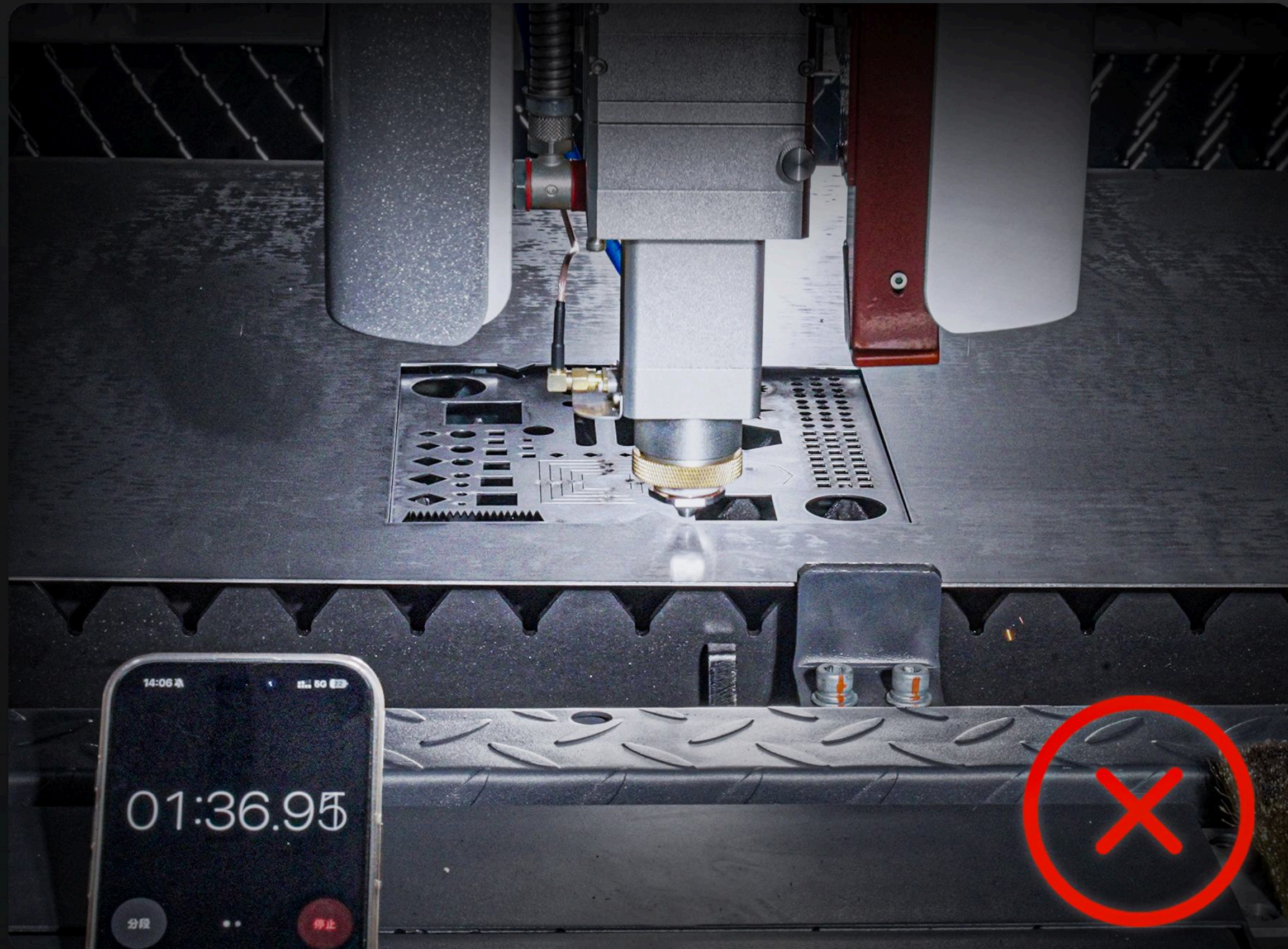
Powered by an outstanding 2.5G acceleration, the SC Series, combined with its “High-Speed Engine” – 9Hz low-pass filtering, achieves a linkage speed of up to 180 m/min, setting the pace and leading the high-speed cutting industry.

With millisecond-level rapid traversing, the laser head reaches position instantly, delivering fast, stable acceleration, deceleration, and direction changes for consistently high-speed and smooth operation.



Gain in Total Processing Efficiency **100%**

Compared with the previous-generation Lightning Cutting machines, the SC Series delivers another 2× leap in overall processing efficiency, pushing beyond the peak to unlock productivity at its fullest.



20% Precision Lead

Under standard operating conditions, compared with comparable high-speed machines on the market, the SC Series delivers a 20% improvement in precision metrics such as roundness.

Taishan Stabilized Bed

The industry-exclusive Taishan Stabilized Bed reinforces the structural “backbone” of the high-strength welded sheet metal bed. With a more scientifically optimized internal rib layout, it delivers unprecedented rigidity, deformation resistance, and vibration suppression, ensuring cutting stability at a whole new level.

160%▲

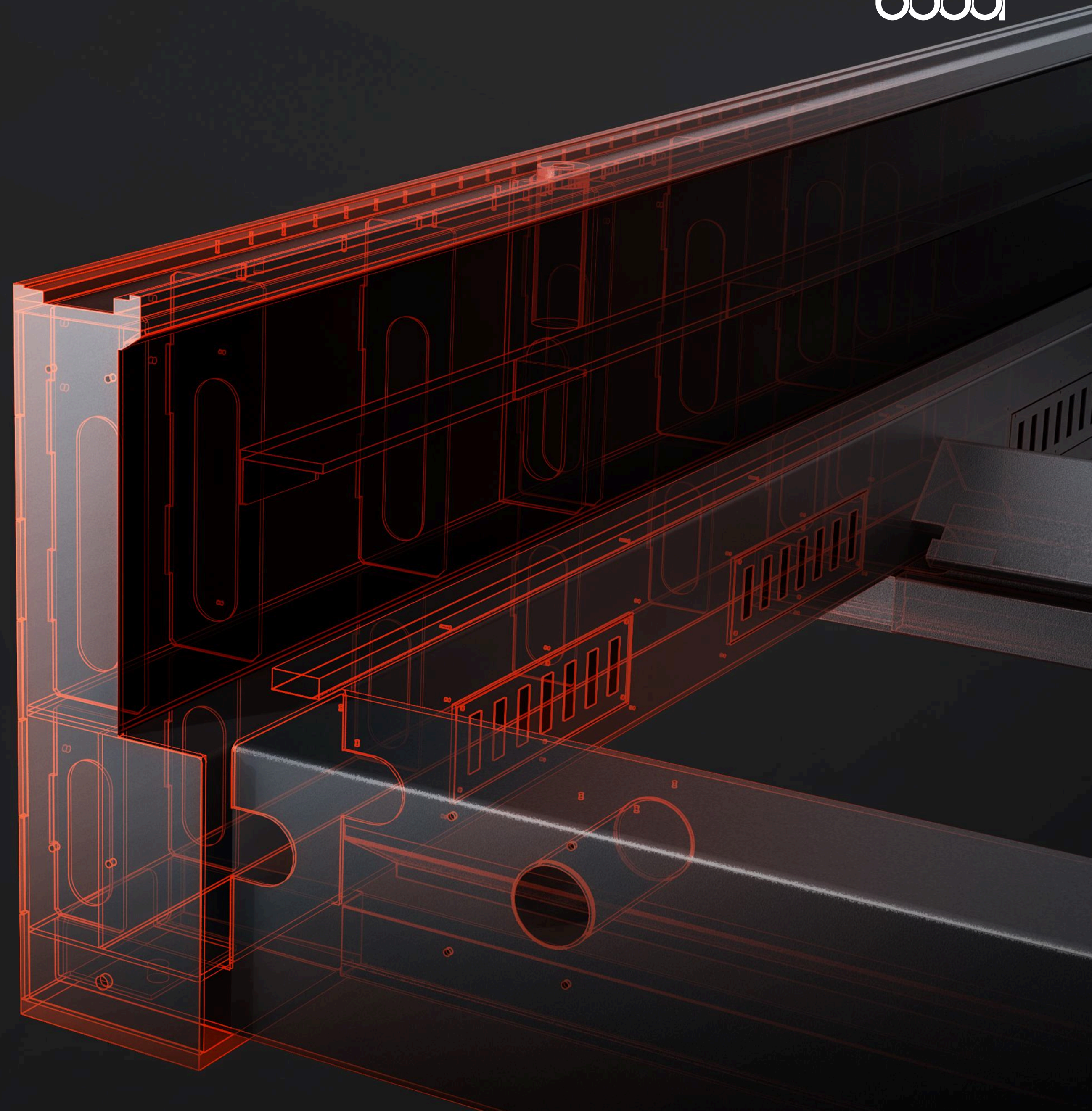
Ground Support Area

60%▼

Bed Vibration

20%▲

Yield Rate

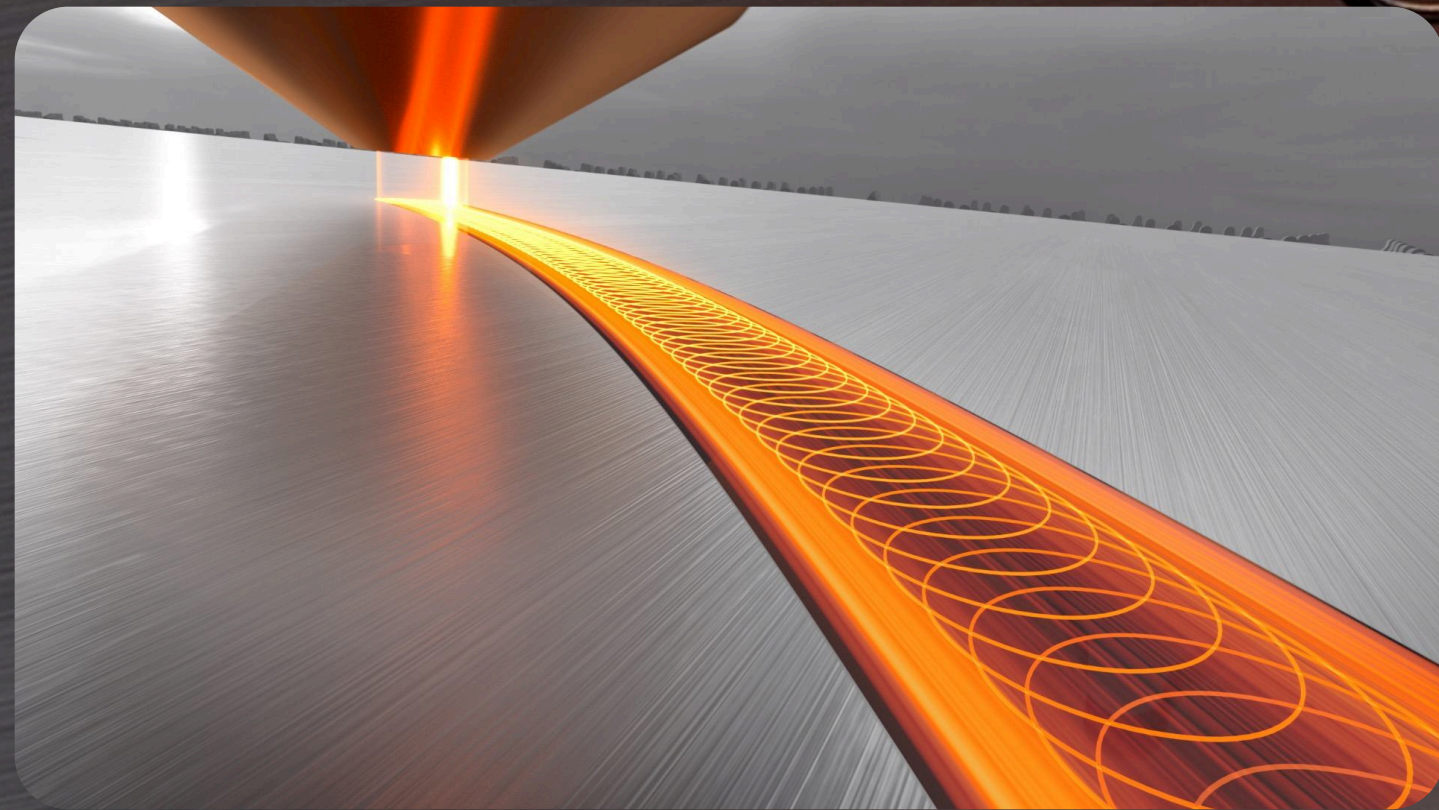


Dedicated Transmission System for High-Speed Machines

The SC Series features a newly upgraded high-rigidity, wear-resistant transmission system. With hardware performance once again raised to a new level, it has undergone tens of thousands of kilometers of continuous endurance testing, while workpiece precision remains consistently stable and reliable.

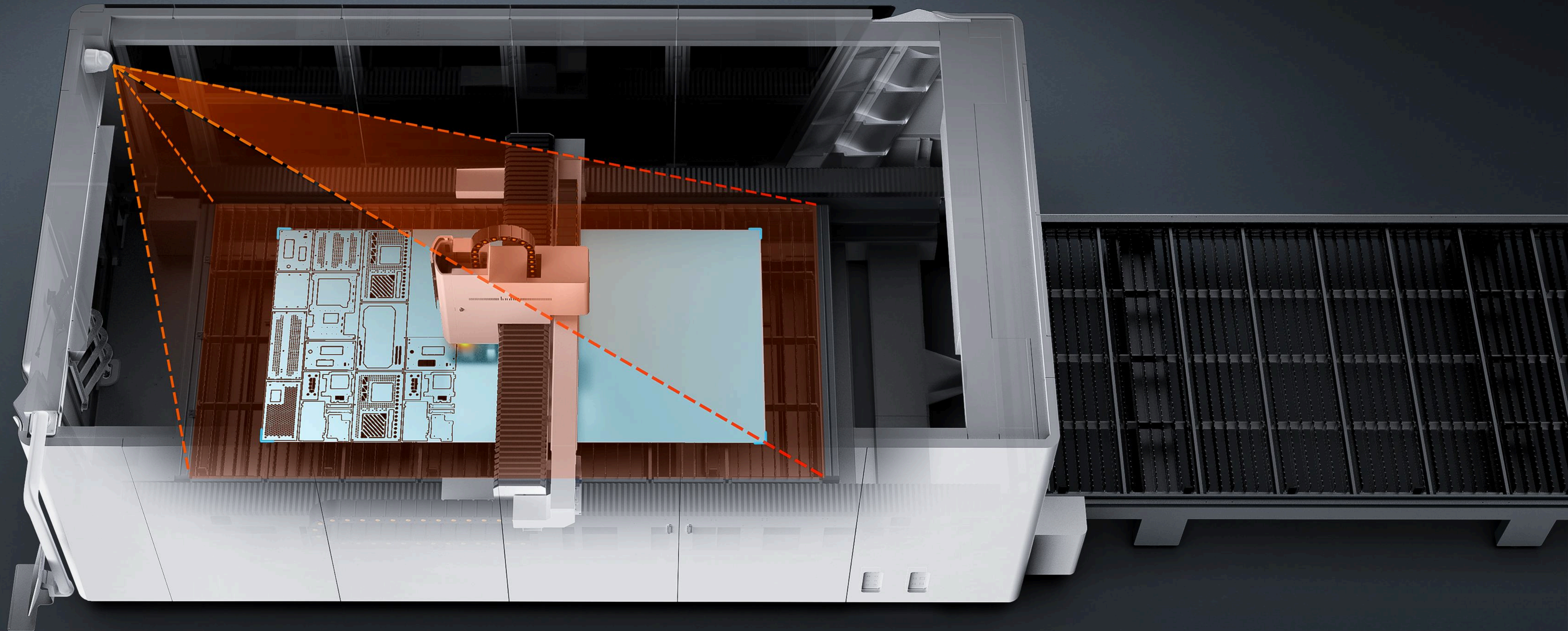
High-Speed Cornering Algorithm

The SC Series is equipped with a newly self-developed "High-Speed Cornering" intelligent algorithm, which intelligently optimizes the shortest cutting paths while automatically compensating cutting accuracy to ensure precision at high speed.



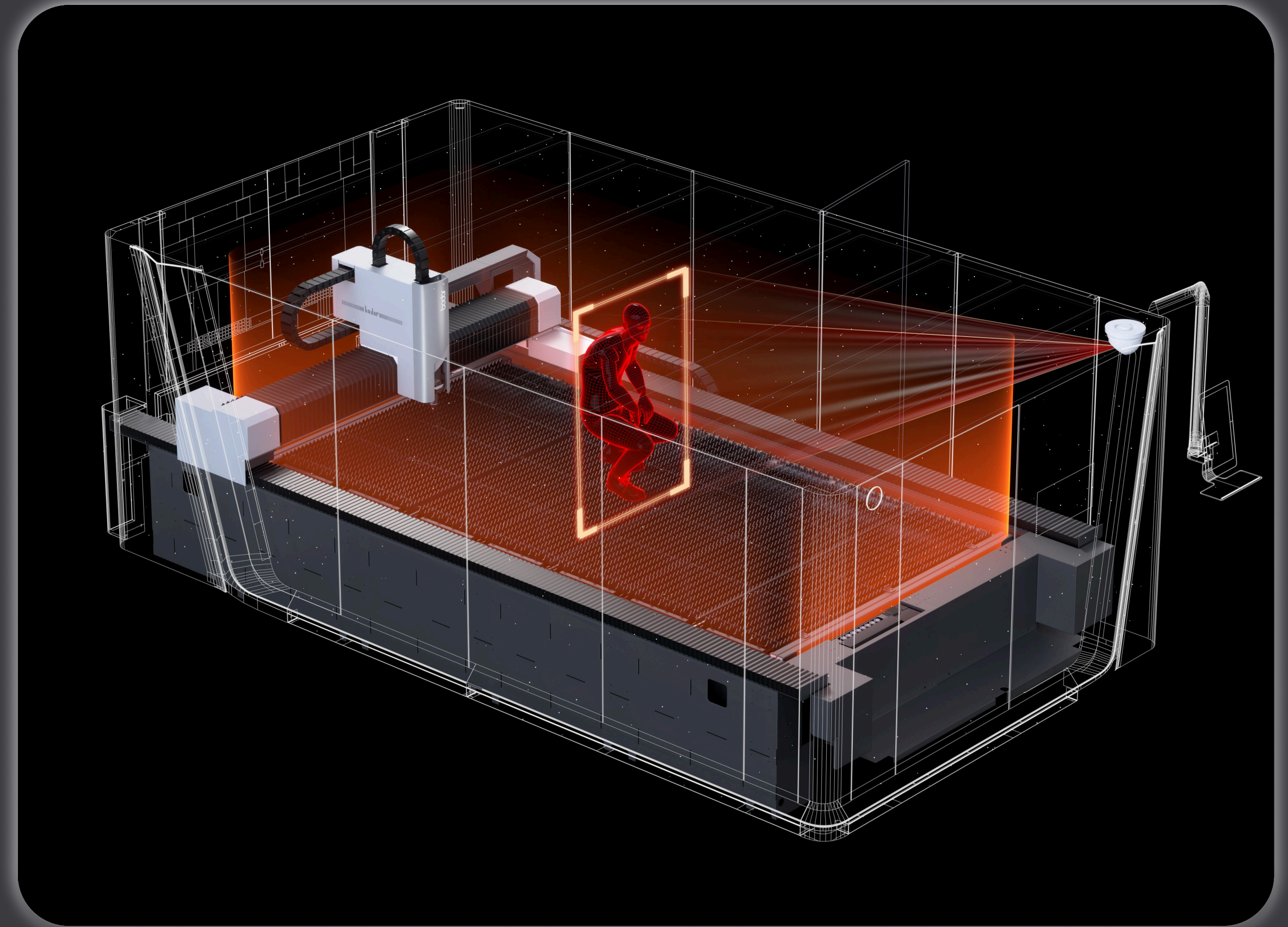
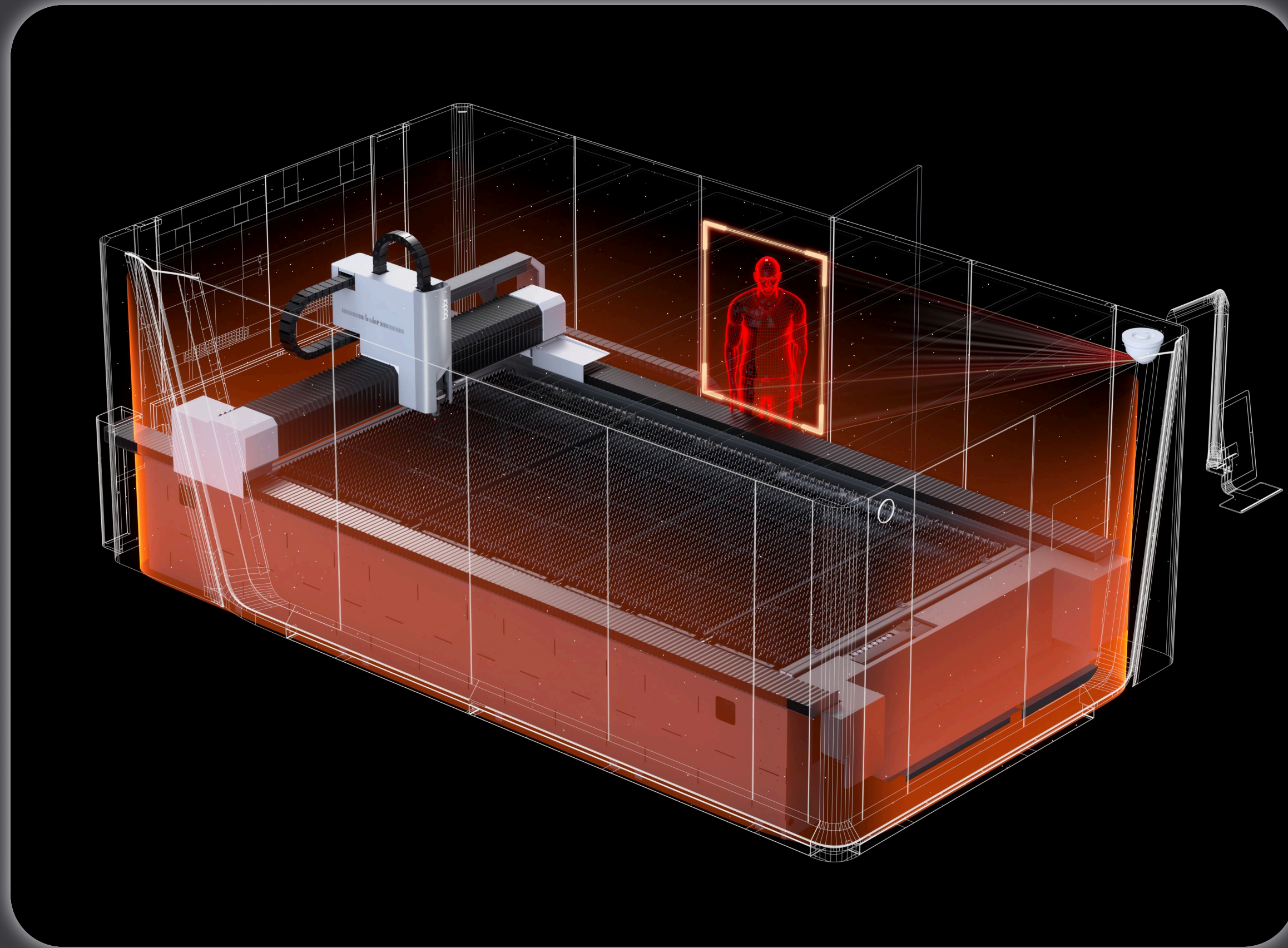
One-Click Edge Detection 5× Efficiency

Powered by high-definition wide-angle camera recognition and intelligent system algorithms, the SC Series quickly identifies the sheet's edge-detection starting point, type, and size. Compared with manual edge finding, efficiency is increased by up to 500%, eliminating complexity and inefficiency.



Visual Anti-Collision 24/7 Protection

Equipped with an omnidirectional vision perception camera, the system monitors the internal workspace in real time. If personnel enter the operating area, the machine automatically stops, providing continuous protection to ensure operator safety at all times.



*Optional

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Automated Loading and Unloading for Production Line Optimization

The SC Series can be flexibly integrated with automation systems such as iLoader, iTrans, and iTower, providing efficient support to form a fully automated production line covering loading, processing, and unloading. Delivering a professional, efficient, and intelligent sheet processing solution, it achieves industry-leading overall processing efficiency.



iLoader



iTrans



iTower



Applicable Industries

Widely applied in thin-sheet processing industries such as doors and windows, automotive parts, sheet metal fabrication, and advertising.





SC Series Parameters

	SC3	SC3 Plus	SC4
Working Area	3048mm×1524mm	3250mm×1650mm	4000mm×2000mm
Max. Linkage Speed	180m/min	180m/min	180m/min
Max. Acceleration	2.5 G	2.5 G	2.5 G
Cutting Parameter Auto-Match	<input type="radio"/> not available when bevel cutting option is selected.	<input type="radio"/> not available when bevel cutting option is selected.	<input type="radio"/> not available when bevel cutting option is selected.
One-Click Fully Automated Processing	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>
Remnants Layout	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>
Active Obstacle Avoidance	<input type="radio"/> not available when bevel cutting option is selected.	<input type="radio"/> not available when bevel cutting option is selected.	<input type="radio"/> not available when bevel cutting option is selected.
Sheet Edge Anti-Vibrating	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>
Sheet Vision Edge Finding	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>

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Dare to dream