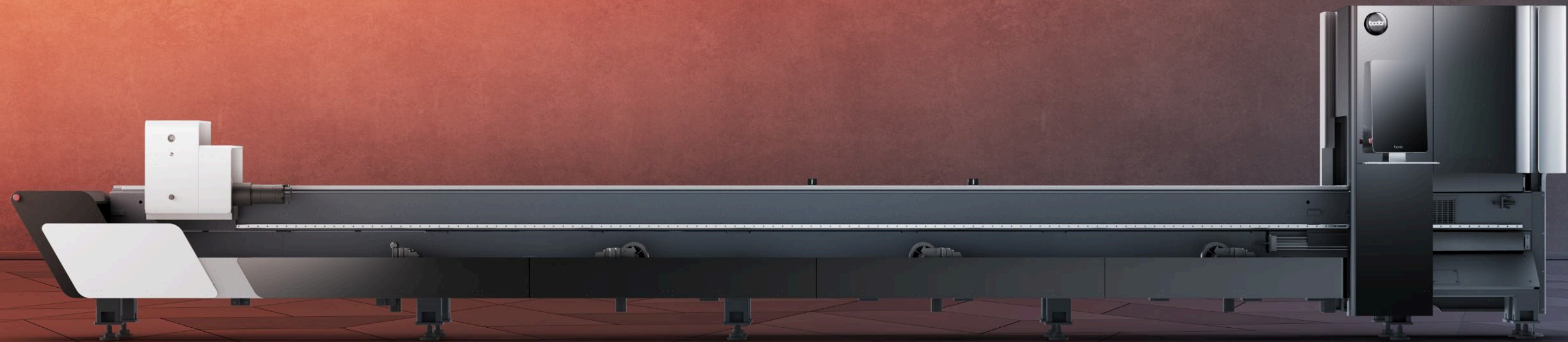


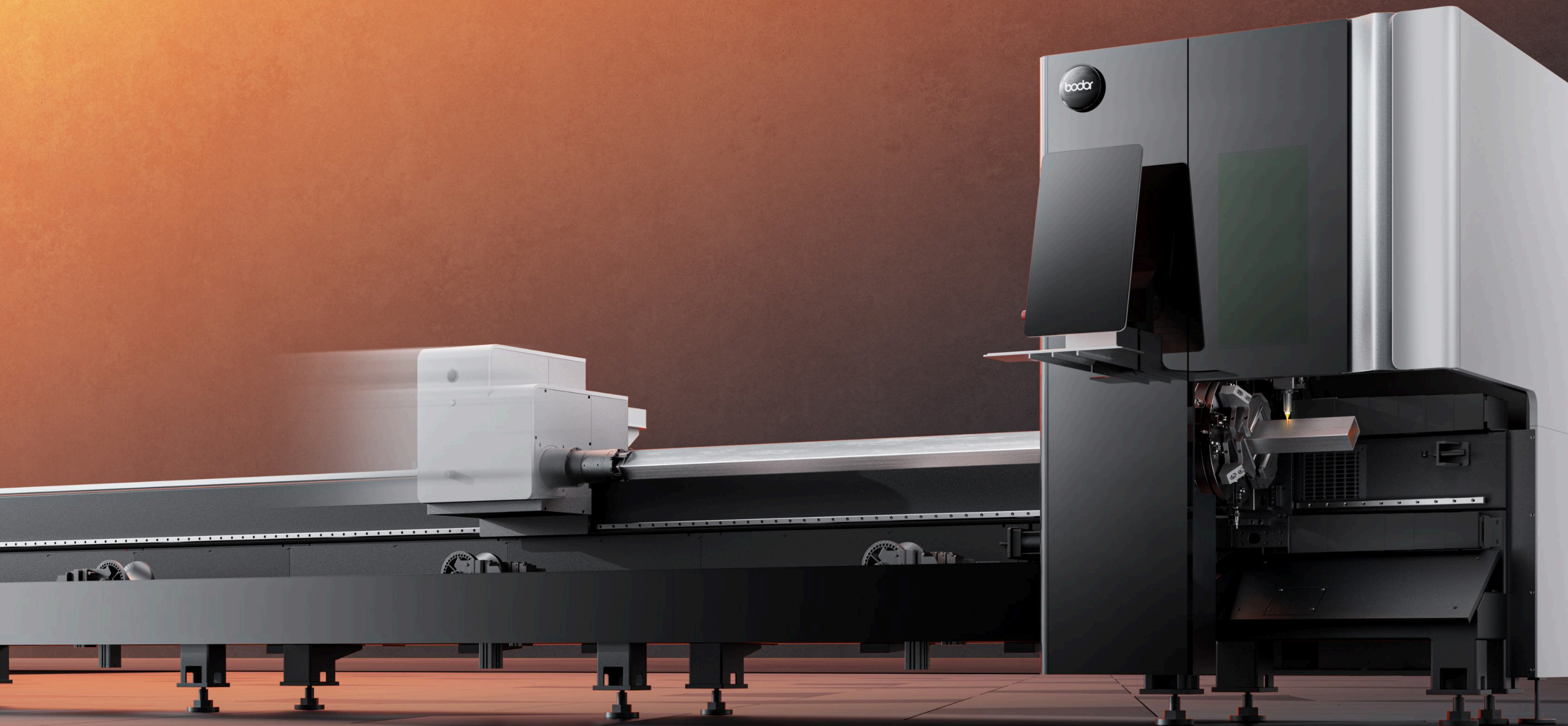
Bodor SK SERIES

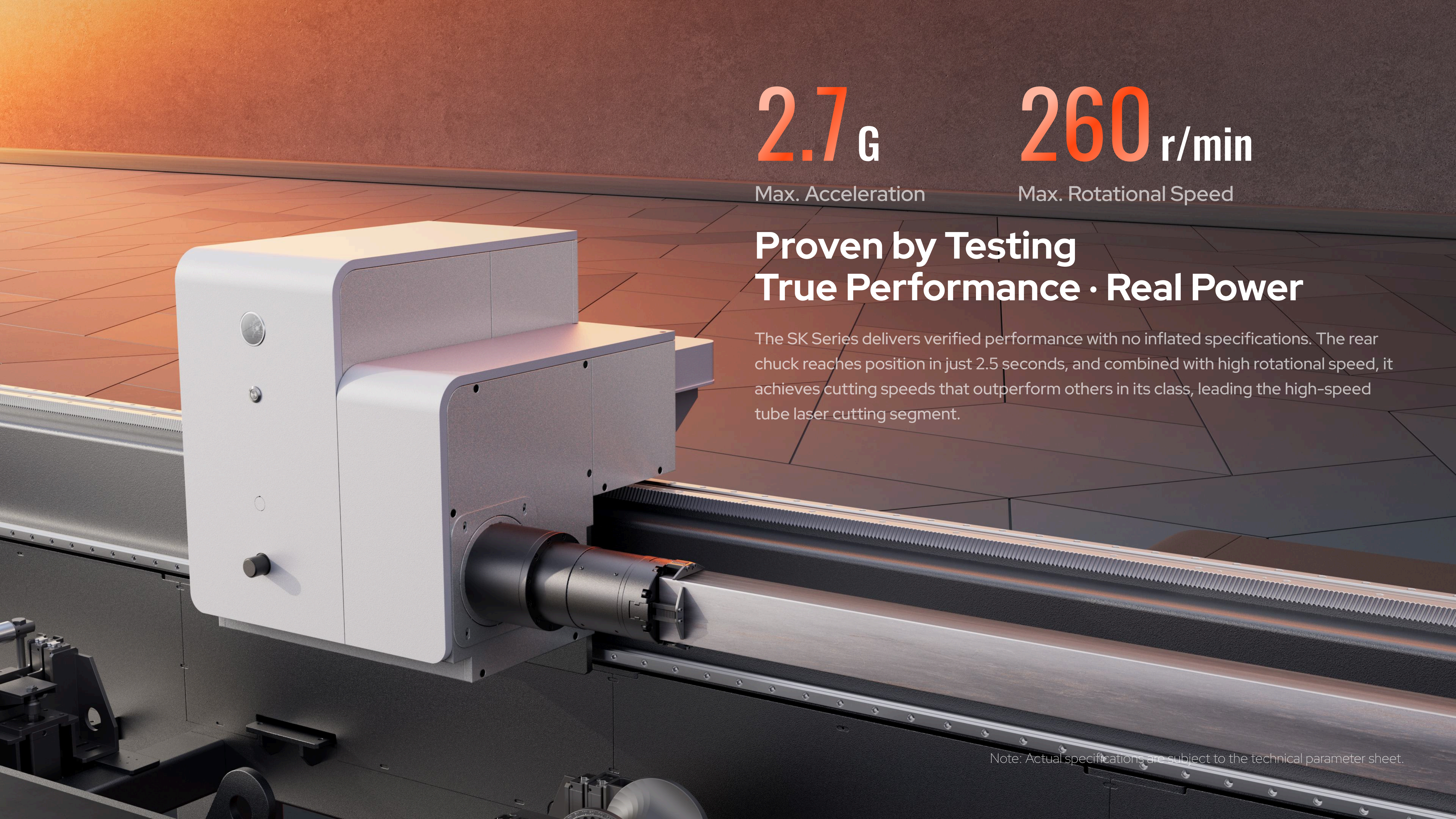
Tube Laser Cutting Machine
HIGH-SPEED MODEL



Lead Speed with Ultimate Velocity

The SK Series delivers a full-speed upgrade across the entire tube processing workflow, setting a new industry benchmark with its high-speed performance. It redefines efficiency and leads the future.





2.7 G

Max. Acceleration

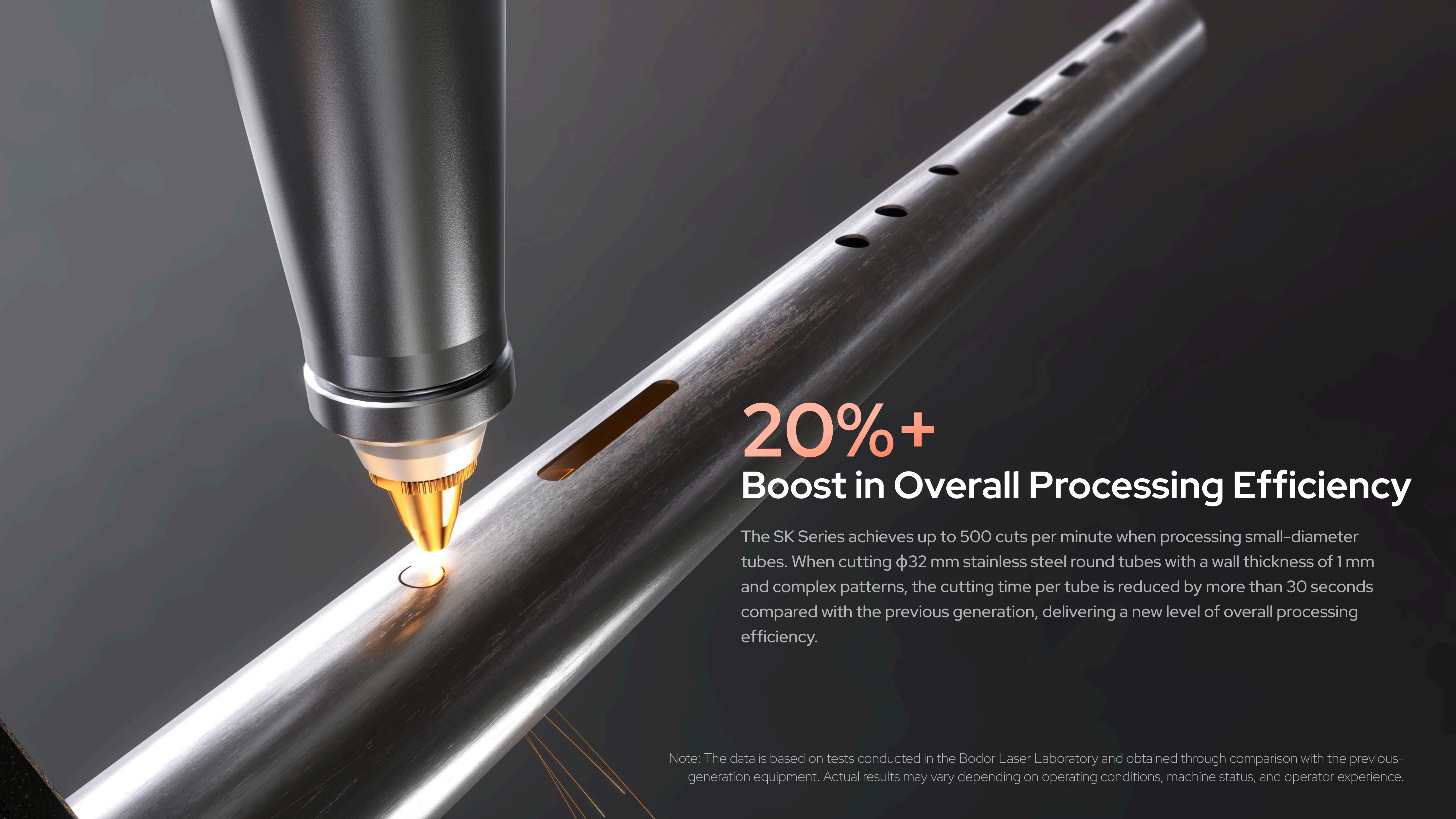
260 r/min

Max. Rotational Speed

Proven by Testing True Performance · Real Power

The SK Series delivers verified performance with no inflated specifications. The rear chuck reaches position in just 2.5 seconds, and combined with high rotational speed, it achieves cutting speeds that outperform others in its class, leading the high-speed tube laser cutting segment.

Note: Actual specifications are subject to the technical parameter sheet.



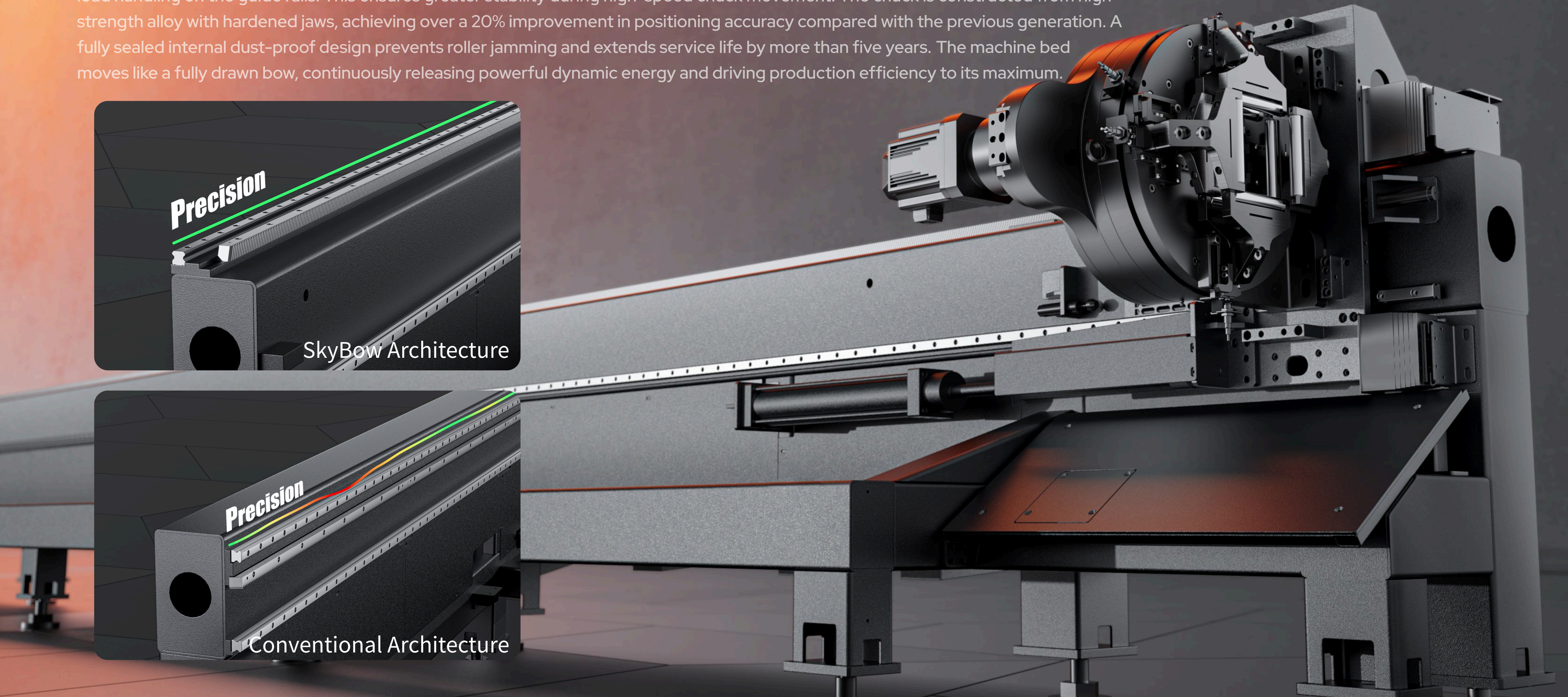
20%+ Boost in Overall Processing Efficiency

The SK Series achieves up to 500 cuts per minute when processing small-diameter tubes. When cutting $\phi 32$ mm stainless steel round tubes with a wall thickness of 1 mm and complex patterns, the cutting time per tube is reduced by more than 30 seconds compared with the previous generation, delivering a new level of overall processing efficiency.

Note: The data is based on tests conducted in the Bodor Laser Laboratory and obtained through comparison with the previous-generation equipment. Actual results may vary depending on operating conditions, machine status, and operator experience.

SkyBow Architecture Bed Powerful Dynamic Performance

The SK transmission system features a triangular three-dimensional structure, delivering balanced torque distribution and more rational load handling on the guide rails. This ensures greater stability during high-speed chuck movement. The chuck is constructed from high-strength alloy with hardened jaws, achieving over a 20% improvement in positioning accuracy compared with the previous generation. A fully sealed internal dust-proof design prevents roller jamming and extends service life by more than five years. The machine bed moves like a fully drawn bow, continuously releasing powerful dynamic energy and driving production efficiency to its maximum.



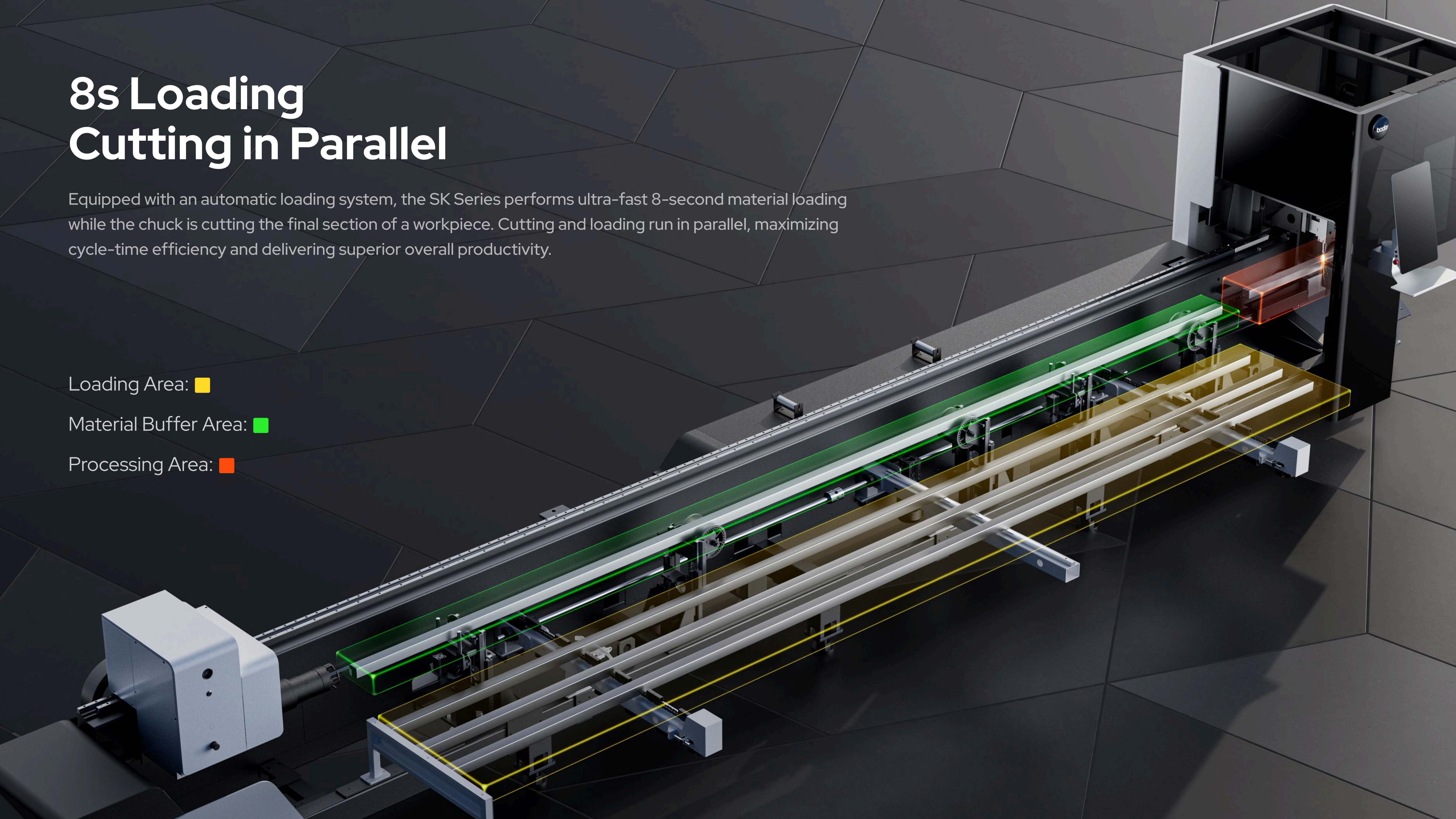
8s Loading Cutting in Parallel

Equipped with an automatic loading system, the SK Series performs ultra-fast 8-second material loading while the chuck is cutting the final section of a workpiece. Cutting and loading run in parallel, maximizing cycle-time efficiency and delivering superior overall productivity.

Loading Area: 

Material Buffer Area: 

Processing Area: 



25% Faster Rapid Traverse Speed

With an upgraded adaptive control algorithm, the laser head Z-axis reaches a speed of 60 m/min, representing a 25% improvement over the previous generation.



3 Steps to Draw Easy and Efficient

The SK Series does not require professional manual drafting. Processing drawings can be automatically generated in three steps, enabling simpler and more efficient machining. It effectively supports large-batch processing for applications such as stair handrails, stainless steel security windows, and guardrails.

Tube Param

Tube Type: ☒ Rectangular ☐ Circular tube

Width: 500

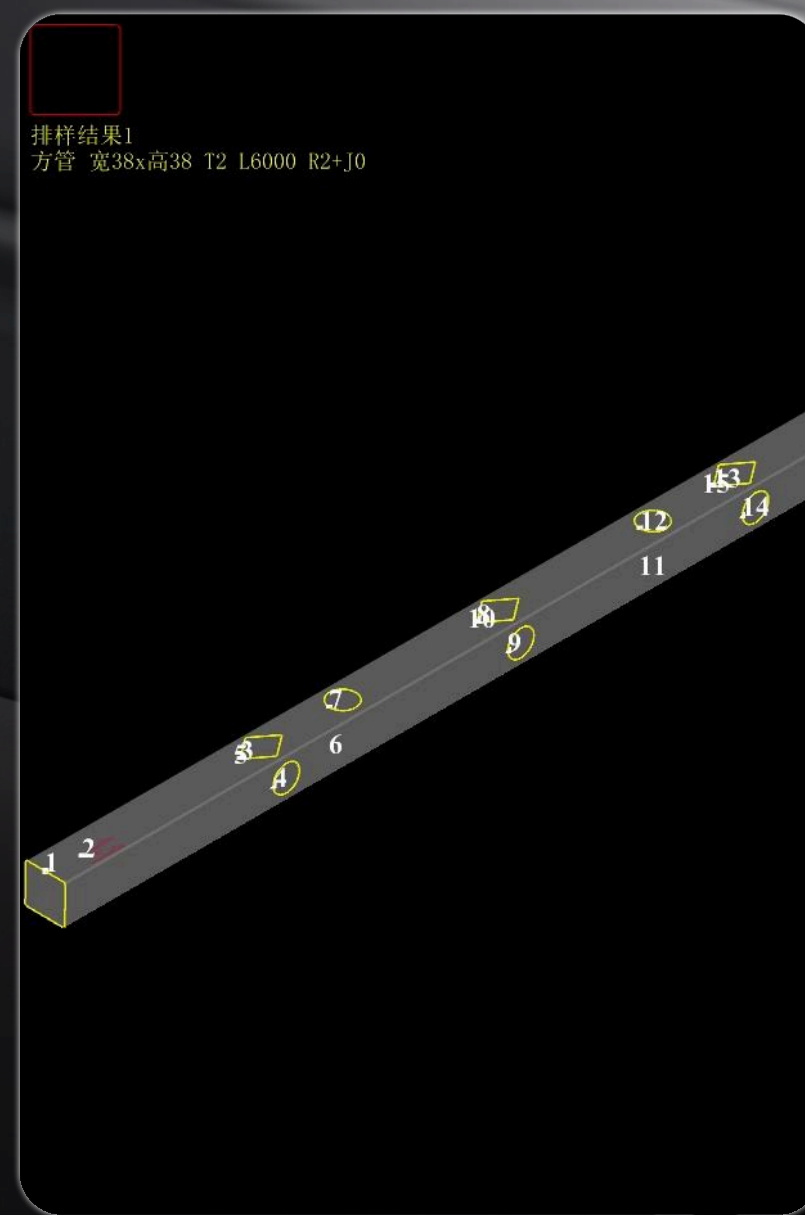
Tube Length: 600

Tube code:

Part Parameters

Parts1#	Parts2#	Parts3#
Base Length: 100		
Left Transverse: Concave Arc		
Right Transverse: Concave Do		
Hole Parameters		
+ Add Row	Hole Type	

1. Select the tube type



2. Generate drawings based on parameters



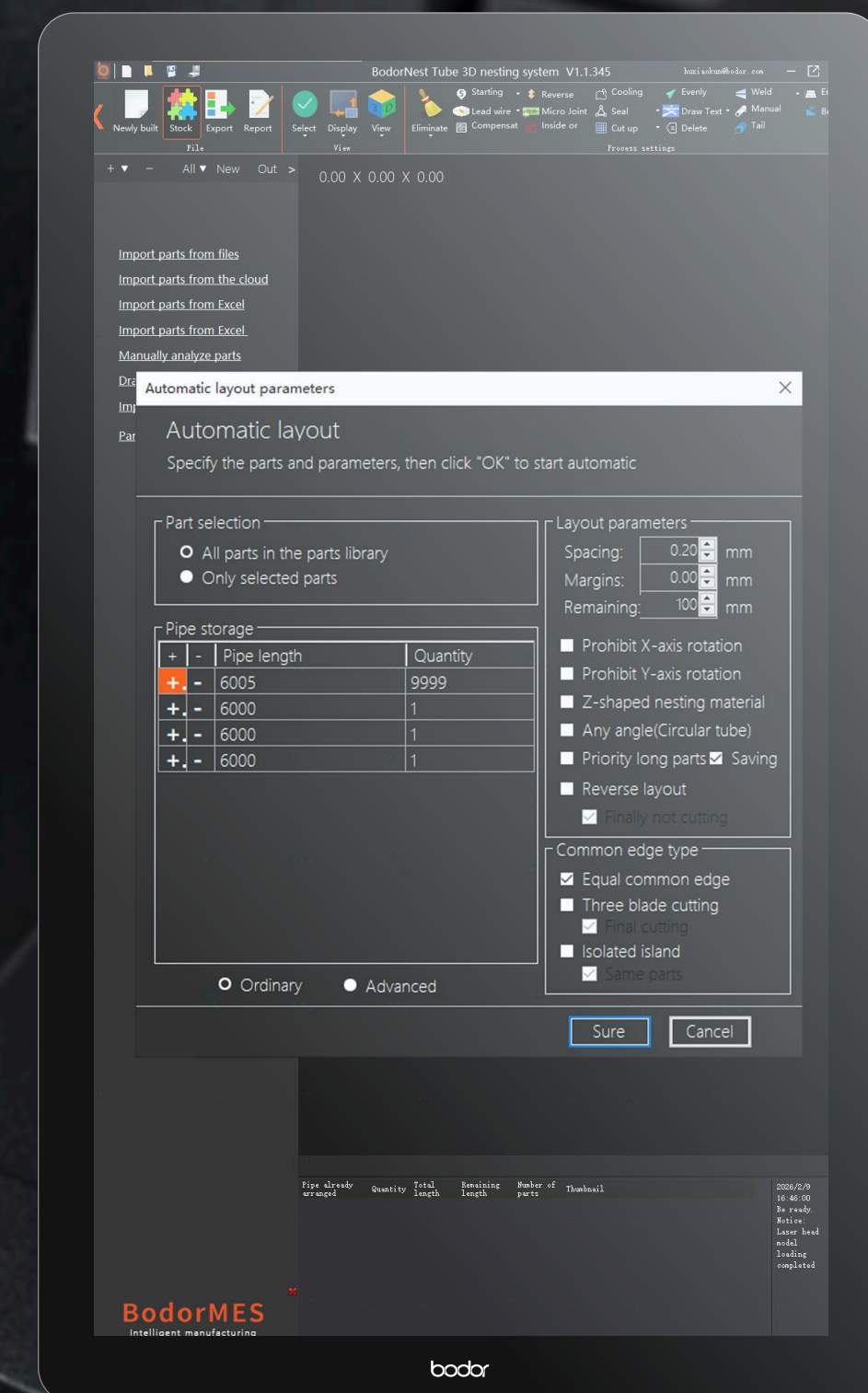
3. Start processing with one click

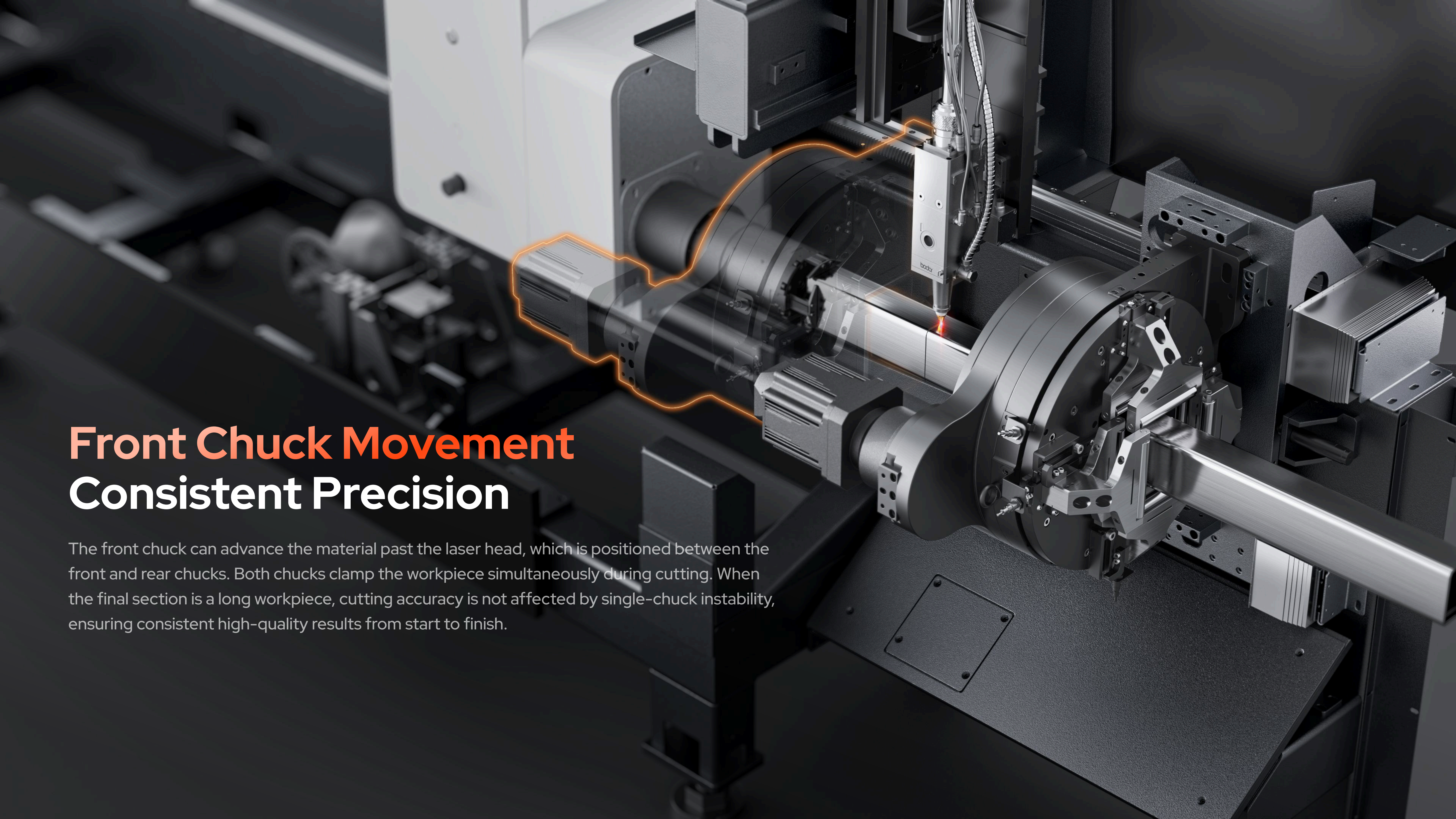


AI-Driven Nesting

Optimized Material Utilization

The SK Series handles complex patterns with ease. With an upgraded nesting strategy, it intelligently plans the optimal cutting path, improving cutting efficiency by 30% compared with traditional nesting. At the same time, it maximizes tube utilization, saving more than 1,000 tubes per year on a comprehensive basis.



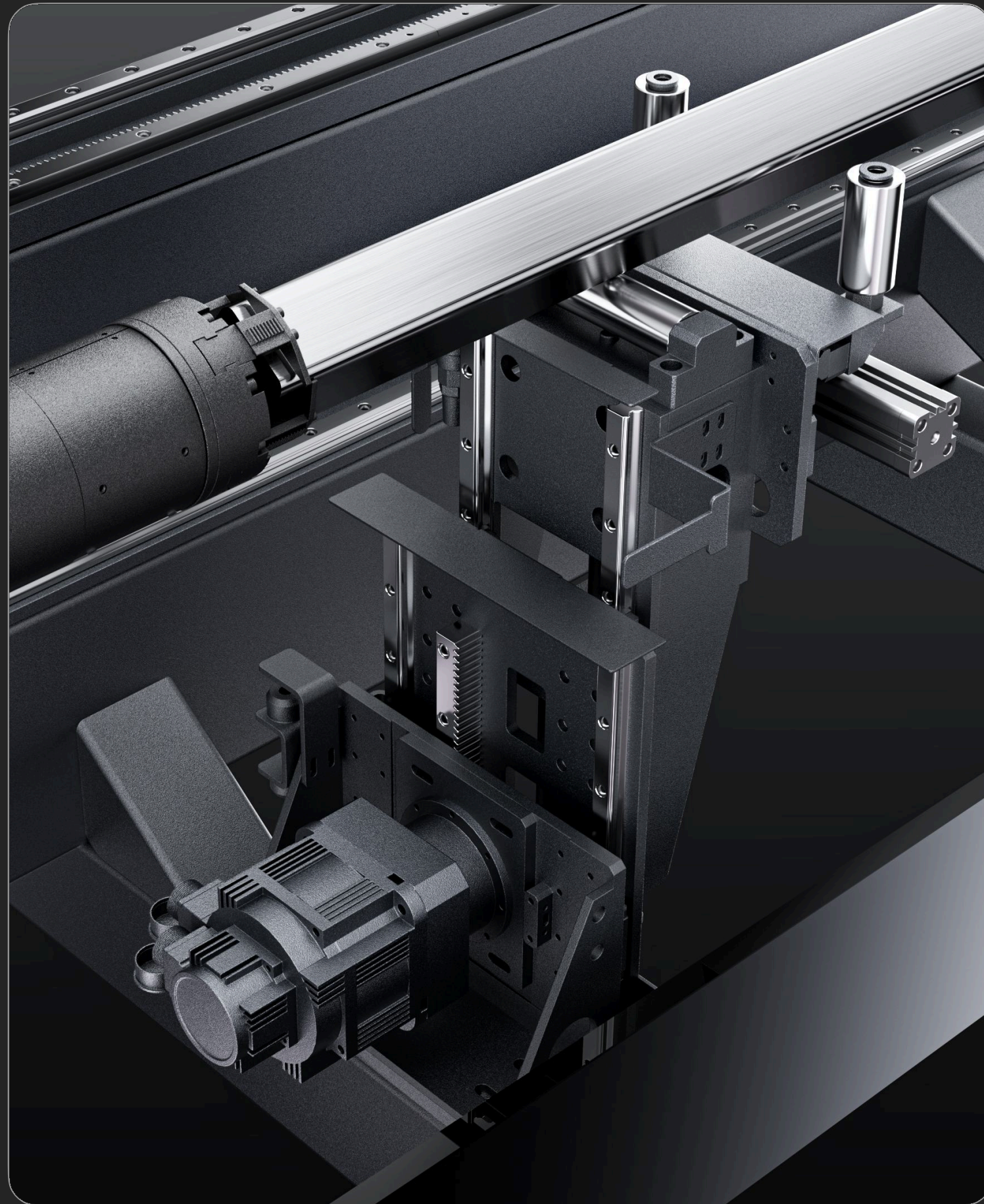


Front Chuck Movement Consistent Precision

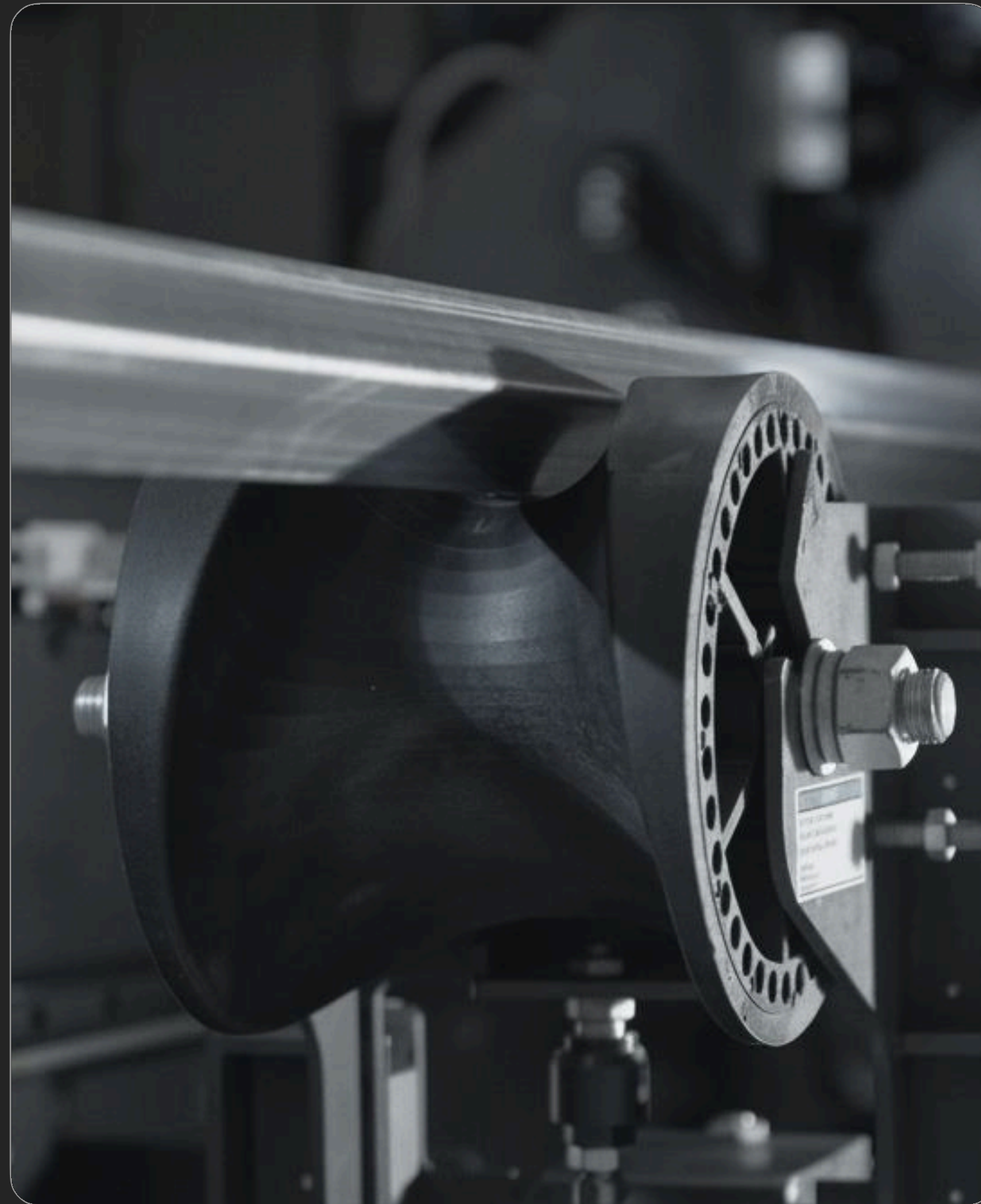
The front chuck can advance the material past the laser head, which is positioned between the front and rear chucks. Both chucks clamp the workpiece simultaneously during cutting. When the final section is a long workpiece, cutting accuracy is not affected by single-chuck instability, ensuring consistent high-quality results from start to finish.

Dual-Zone Follow up Precision Optimized

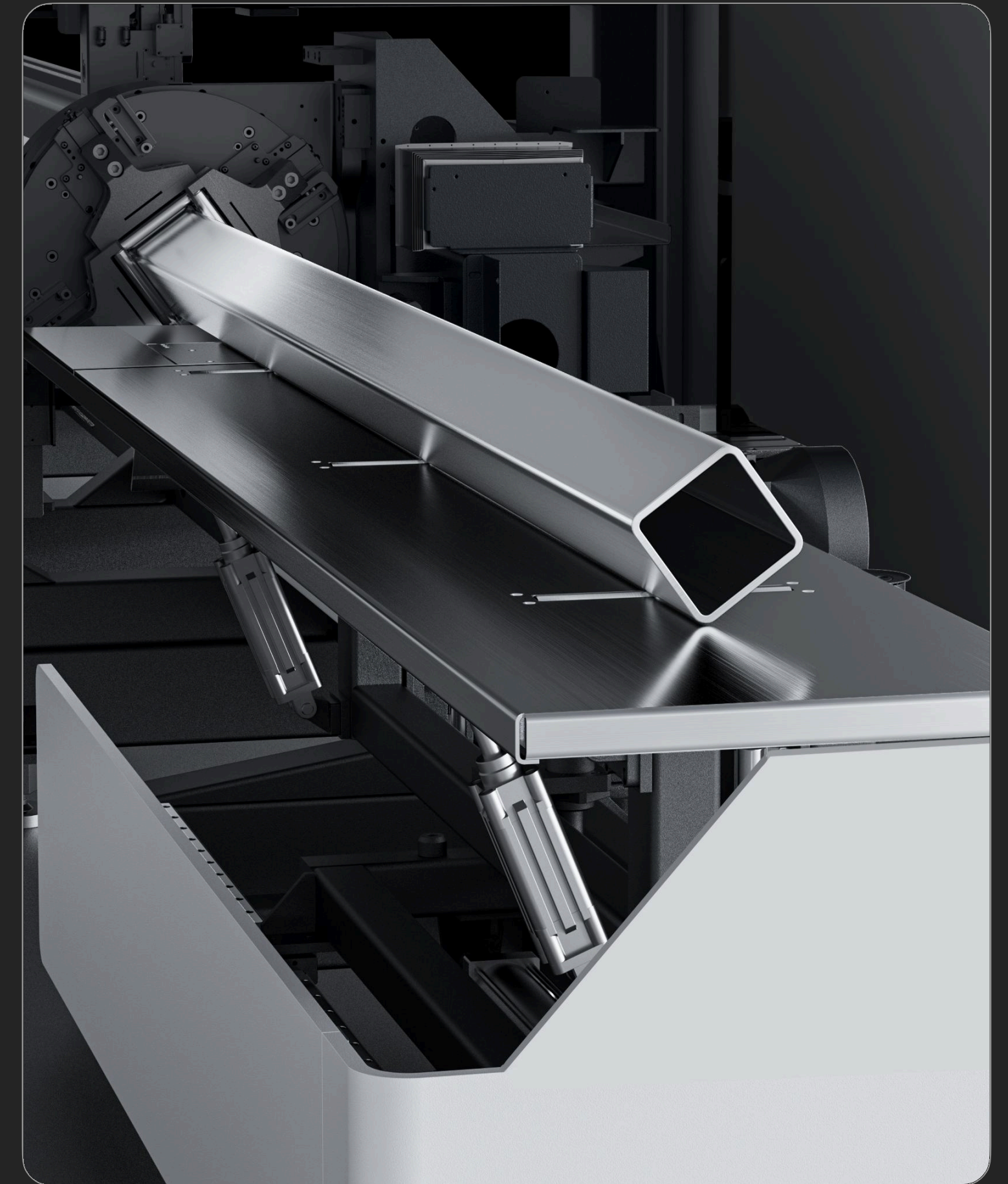
The loading area is equipped with follow-up rollers and deep U-shaped bionic rollers that provide full-wrap support for the tube.
The unloading area uses adaptive flip-plate support, ensuring consistent accuracy during high-speed processing.



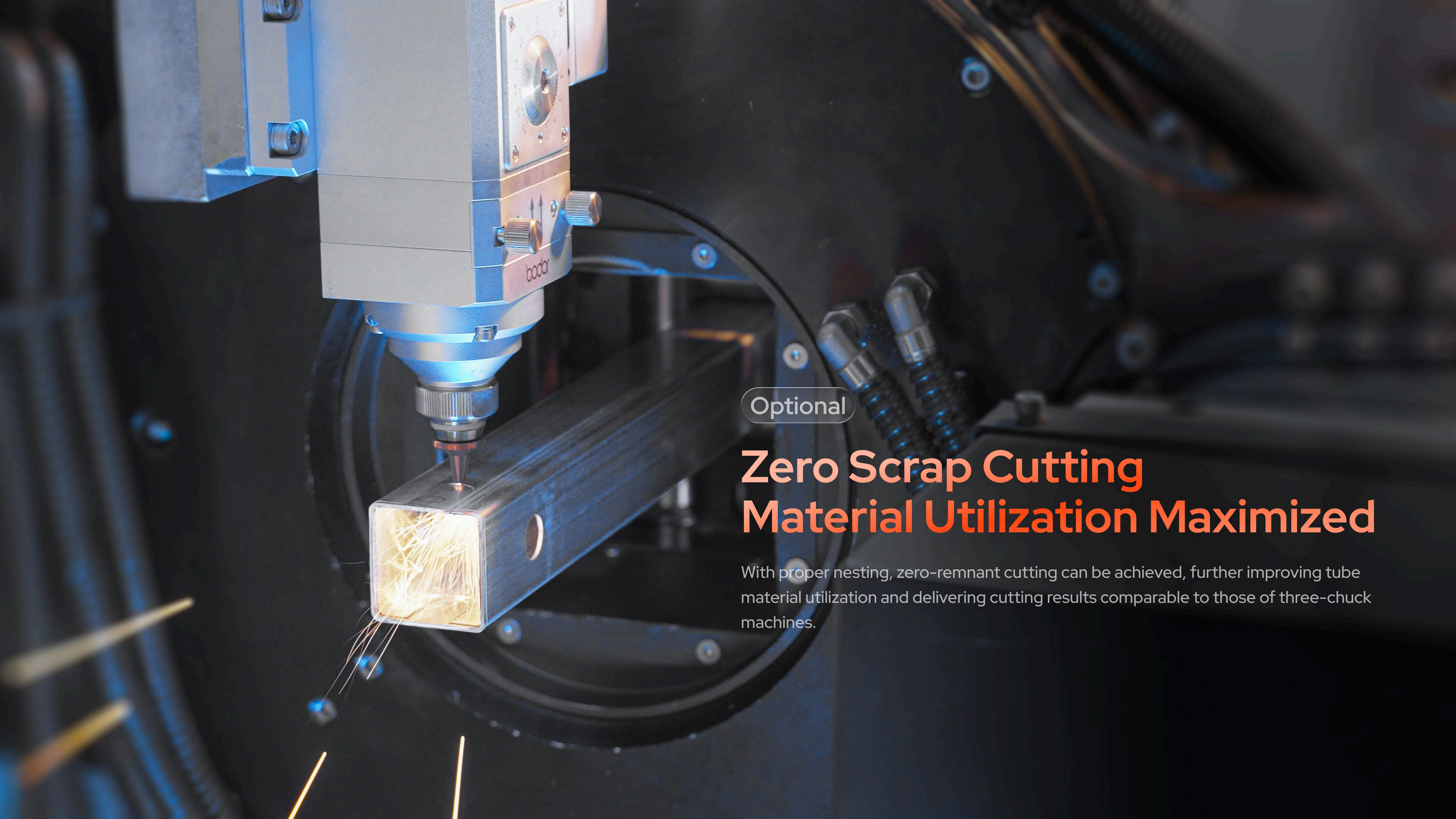
Follow-Up Rollers (Optional)



Deep U-Shaped Bionic Rollers



Adaptive Unloading Support Plate (Optional)



Optional

Zero Scrap Cutting Material Utilization Maximized

With proper nesting, zero-remnant cutting can be achieved, further improving tube material utilization and delivering cutting results comparable to those of three-chuck machines.



Optional

Bevel Cutting One-Step Forming

The SK Series adopts a zero-swing-length structure, reducing tube travel paths and minimizing laser head movement, which significantly improves cutting accuracy. After cutting, gap-free fit-up can be achieved for welding, producing high-quality finished parts without secondary grinding or filler material, greatly reducing labor, material, and time costs.

Champion Quality

5-year Warranty for Bodor Self-developed Three Core Laser Components

With our perfect integration technology for the self-developed BodorThinker control system, BodorPower laser source, and BodorGenius laser head, we can extend the service warranty for these three core components to five years!

The three core components are designed, produced, tested, and delivered in an integrated manner, working perfectly together to make the equipment run more stably and efficiently. At the same time, it greatly reduces the risk of component contamination and failure rate, extends the lifespan, and lowers maintenance costs by avoiding repeated assembly.



PARAMETERS

SK0

SK1

SK2

Tube Size Range

Round Tube:Φ6~Φ90mm; Square Tube:□6~□90mm
Rectangular Tube:6mm≤Side Length≤90mm
Angle Steel And Channel Steel Longest Side≤60mm

Round Tube:Φ6~Φ120mm; Square Tube:□6~□110mm
Rectangular Tube:6mm≤Side Length≤120mm
Angle Steel And Channel Steel Longest Side≤80mm

Round Tube:Φ8~Φ230mm; Square Tube:□8~□230mm
Rectangular Tube:8mm≤Side Length≤230mm
Angle Steel:2#~14# ; Channel Steel:5#~14#

Max. Tube Length

6500mm

6500mm

6500mm/9200mm

Max. Tube Weight

30kg

50kg

300kg

Min. Remnants

40mm

40mm

70mm

Max. Rotating Speed

260r/min

260r/min

125r/min

Max. Moving Speed

180m/min

150m/min

120m/min

Max. Acceleration

2.4G

2.7G

1G

Front Chuck Advances



Composite Rollers



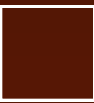
No Manual Drawing



Cutting Parameter Auto-Match



Tube Cross-Sectional Shape



Bodor SK SERIES

Lead Speed with Ultimate Velocity