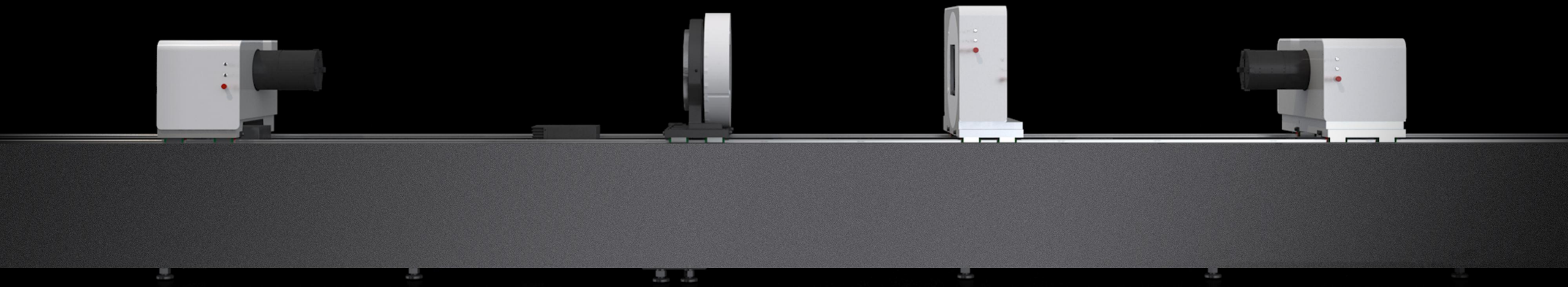

M-series
Flagship product
4-chuck tube laser cutting machine

Transitioning to 4-chuck era!



Zero tail material

zero tail material | zero safty hazard | concurrent feeding and processing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Zero safety hazard

zero tail material | zero safty hazard | concurrent feeding and processing


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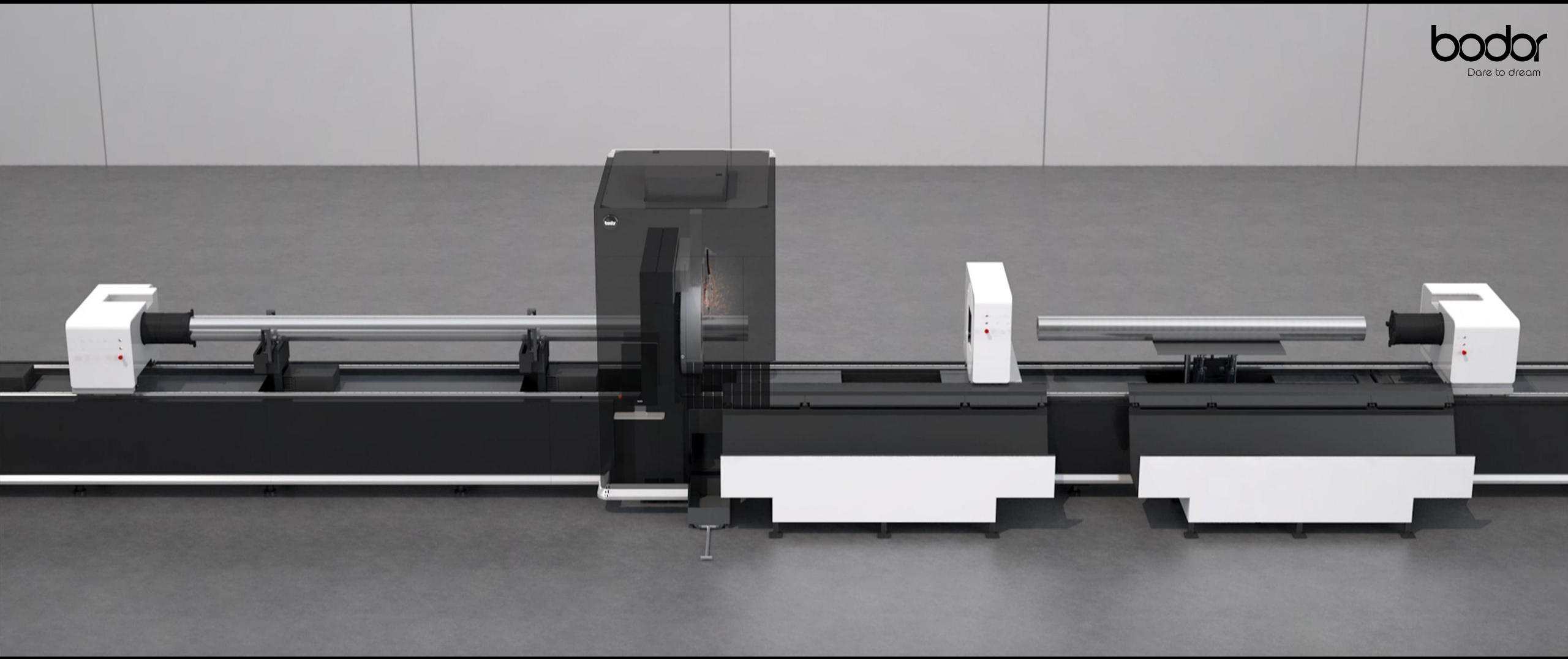
Concurrent processing and feeding

zero tail material | zero safty hazard | concurrent feeding and processing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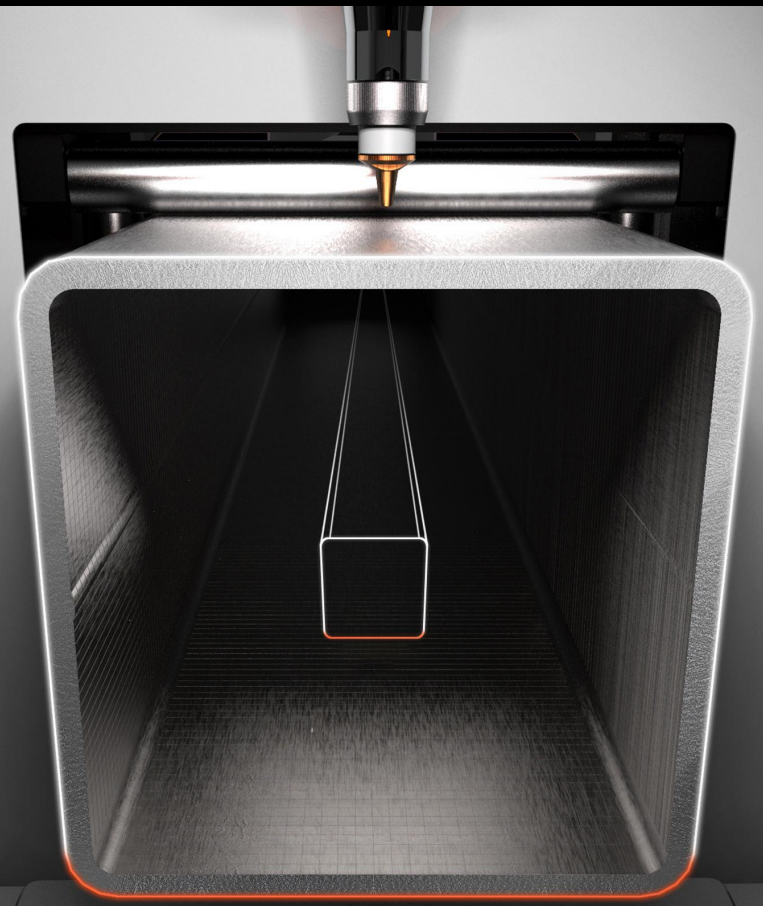
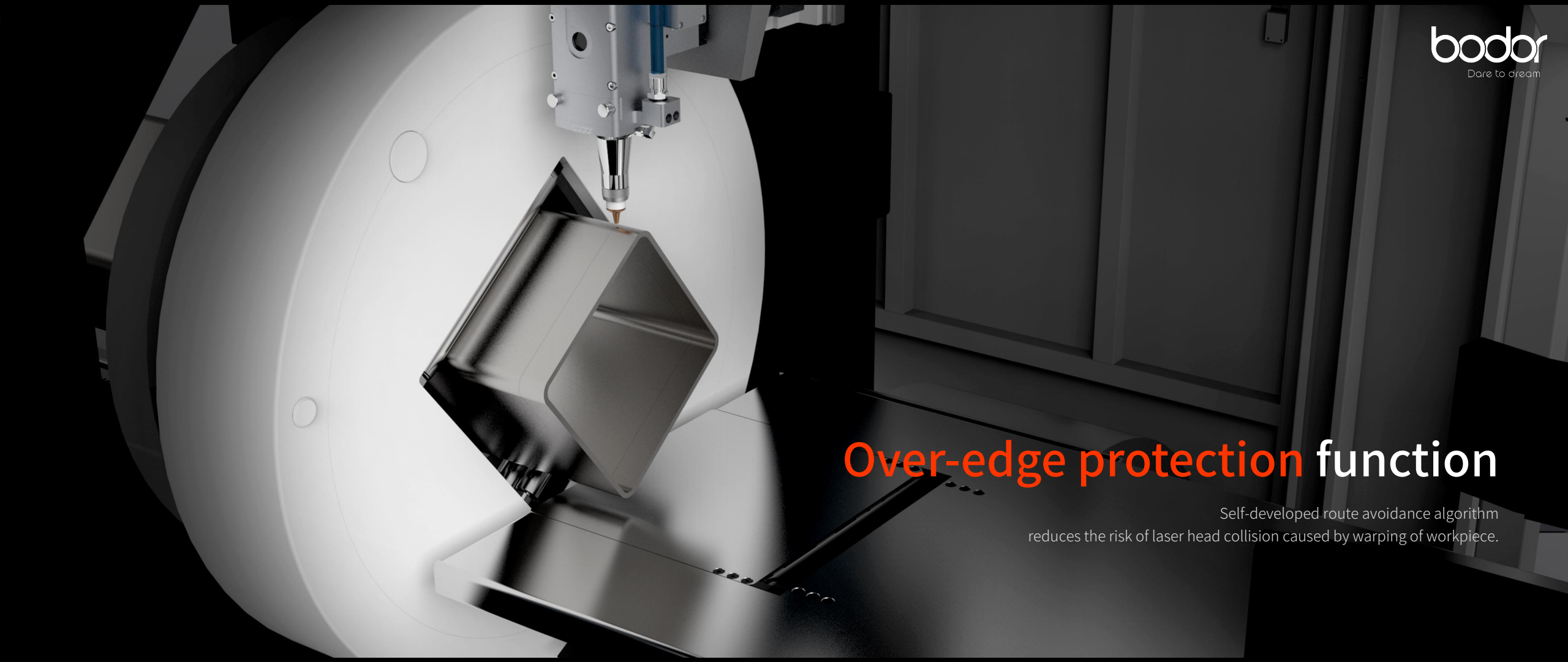
Ultra-large cutting range

With square and round structure chucks, the maximum round tube diameter can be cut in the same length as the maximum square tube edge, allowing more processing options for users.





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Over-edge protection function

Self-developed route avoidance algorithm
reduces the risk of laser head collision caused by warping of workpiece.

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Automatic waste scrap handling

The system is able to identify and distinguish waste scrap and finished workpieces.
The receiving structure automatically drops scrap and finished workpieces into different collection section, saving labor costs.

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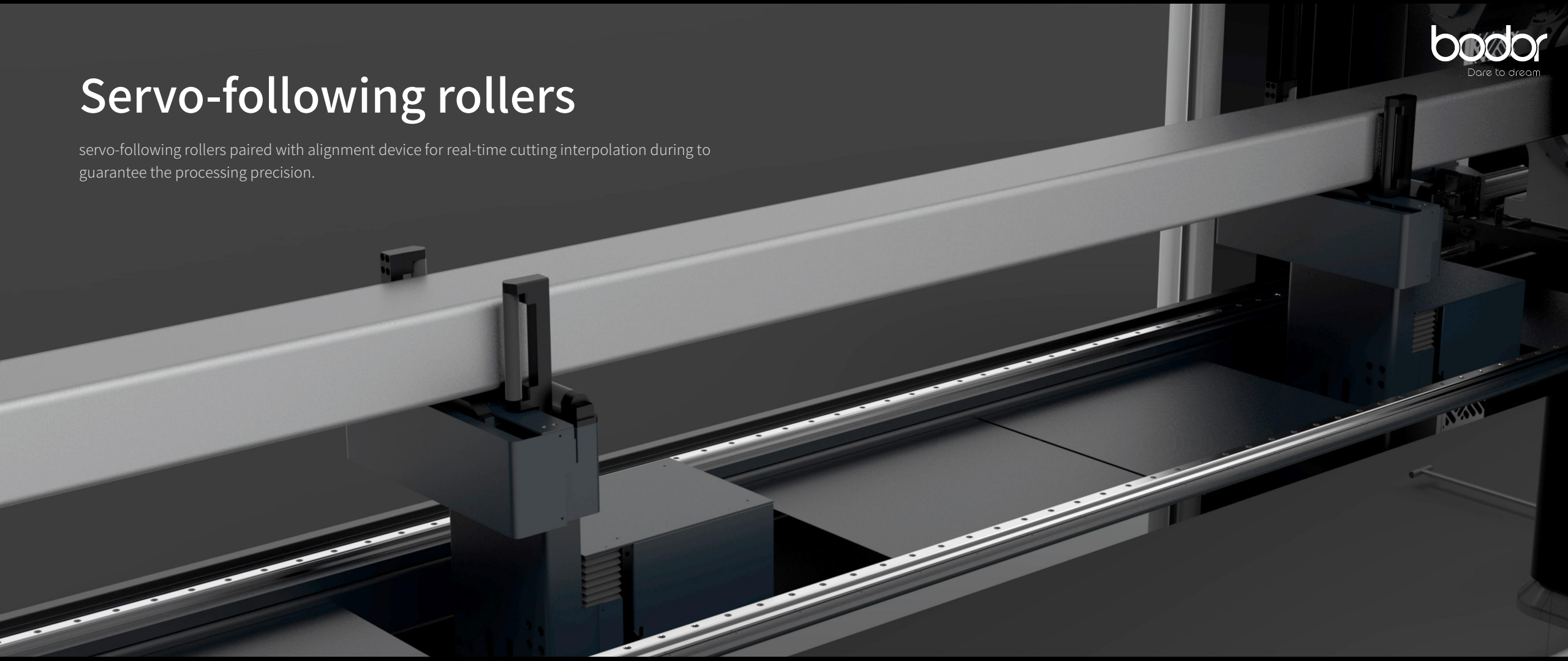
A new interactive platform for the industrial lasr technology and the IoT (Internet of Things)

Integrating functions such as sharing, auxiliary operation, real-time monitoring of equipment, regular maintenance reminder, parts online purchase, and one-click failure reporting create a new ecology of full-service laser processing technology

Servo-following rollers

servo-following rollers paired with alignment device for real-time cutting interpolation during to guarantee the processing precision.



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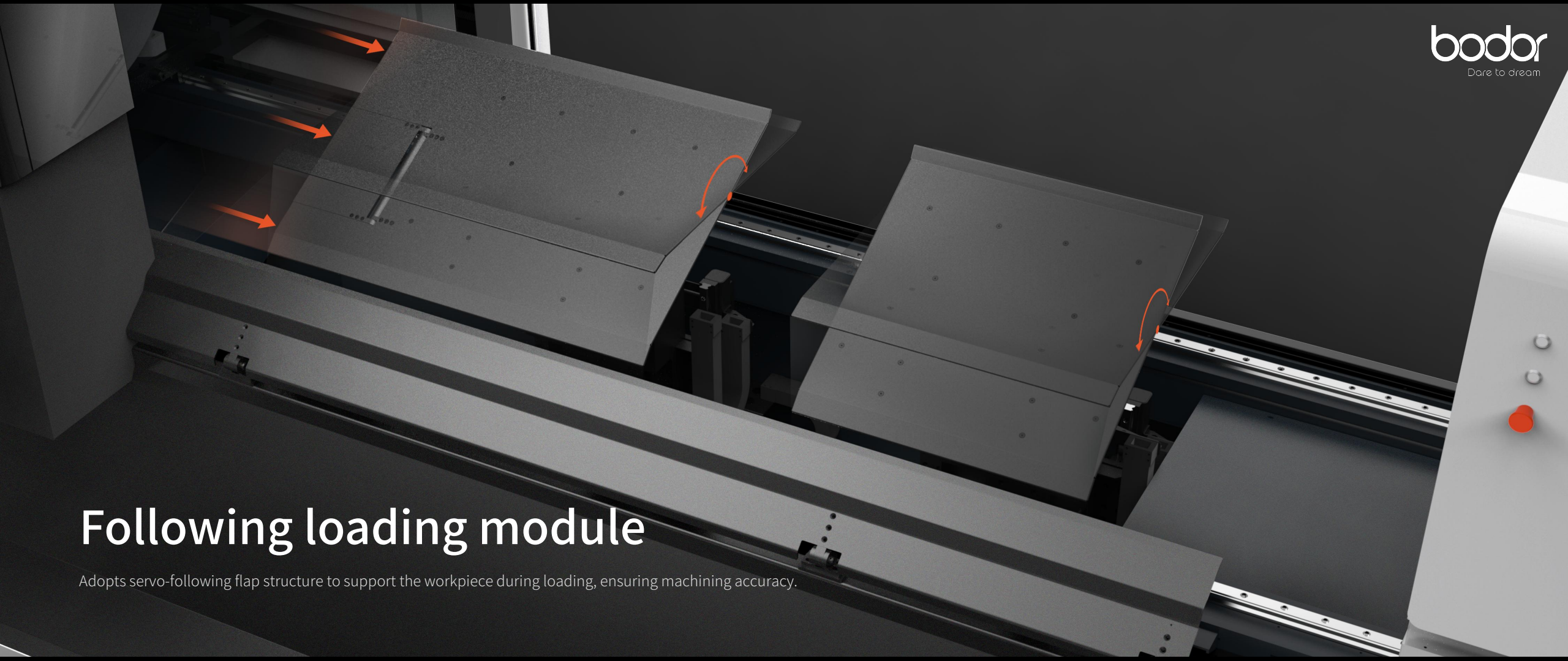
Servo-following support

With high-precision servo-controlled support structure, the system controls the servo for interpolation when cutting workpieces such as square tube to ensure precise cutting.



Following loading module

Adopts servo-following flap structure to support the workpiece during loading, ensuring machining accuracy.

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The latest 3rd generation mortise and tenon welded bed

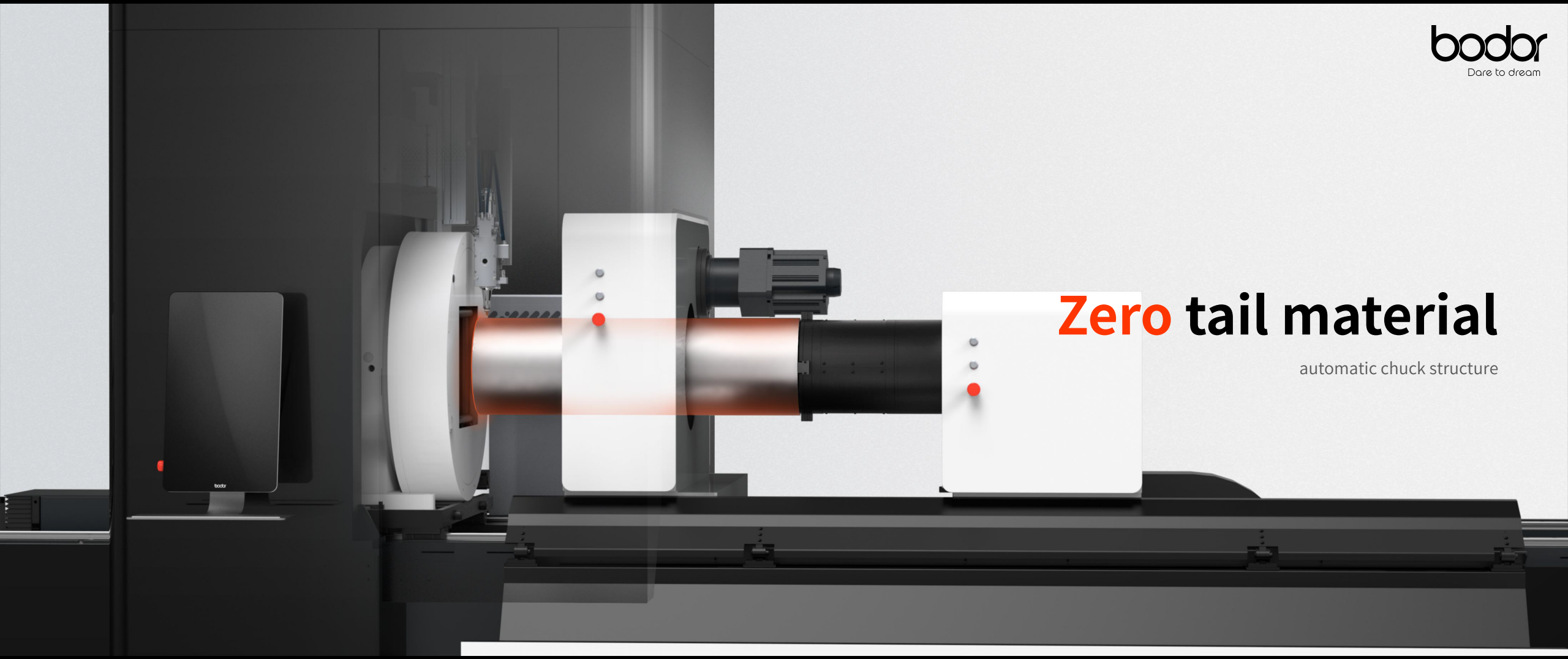
28 %

Structural strength enhanced by
(compared with the last generation)

22 %

Rigidity enhanced by
(compared with the last generation)

*Relative to the last generation



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Zero tail material

automatic chuck structure

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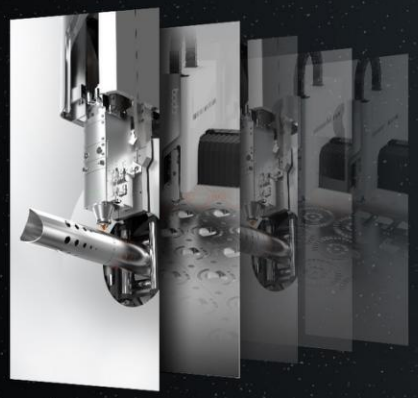
Six-in-one laser technology full ecology

Fully self-devloped BodorThinker control system, BodorNest nesting software, BodorGenius laser head and BodorPower laser source matched with MES system and Bodordrive drive system, enabling stable operation of the machine, with premium quaility cuts and incredible working efficiency.

BodorThinker
Central control system

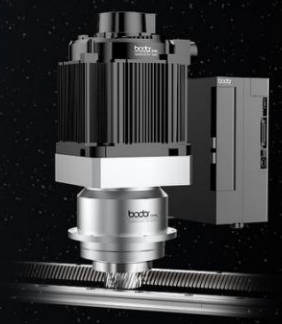


BodorNest
Nesting software

BodorGenius
Laser head

BodorPower
Laser source

BodorMES
Intelligent production management software



BodorDrive
Drive system

Self-devloped BodorPower laser

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marks we have achieved the complete autonomy of developing the core components of laser equipments.

Being the core component of a laser equipment, the laser is like the engine of a car or the CPU of a cell phone.
Over the years, laser manufacturing has been monopolized by overseas and a few domestic top-tier device manufacturers. With domestic laser enterprises only outsourcing lasers, core components quality is highly restricted and cannot be guaranteed. Bodor dares to be the poineer to tackle the challenges of devloping our own lasers, and significantly improves the efficiency of devices, bringing better processing experience for customers. own lasers, and significantly improves the efficiency of devices, bringing better processing experience for customers.

Bodor has put self-developed BodorGenius laser head in mass production.

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The power ranging from **1500W to 50000W**

At the final stage of laser output, laser head is critical and a determining factor to the processing quality and the efficiency of laser equipment.Bodor's self-developed laser head is equipped with multiple intelligent functions. and allow us the great confidence in "bringing our products with premium using expereinces to the customers across the globe."

Bodor self-devloped BodorThinker operating system

brings intelligent human-machine interactive expereinces to our users.

Typcially, complete machine manufacturers tend to install outsourced operating systems on their machine tools, which is akin to "installing someone else's head on their own body" - the poor compatability between software and the hardware inevitably results in frequent machanical failure .....

Software development is a bumpy journey. However, Bodor has been determined to devlop our own operating system, starting from writting the "source code". It takes 5 years of reletless dedication for BodorThinker operating system to be successfully developed. The autonomous operating software matched with self-developed hardware enables the smooth ruuning of the equipments.

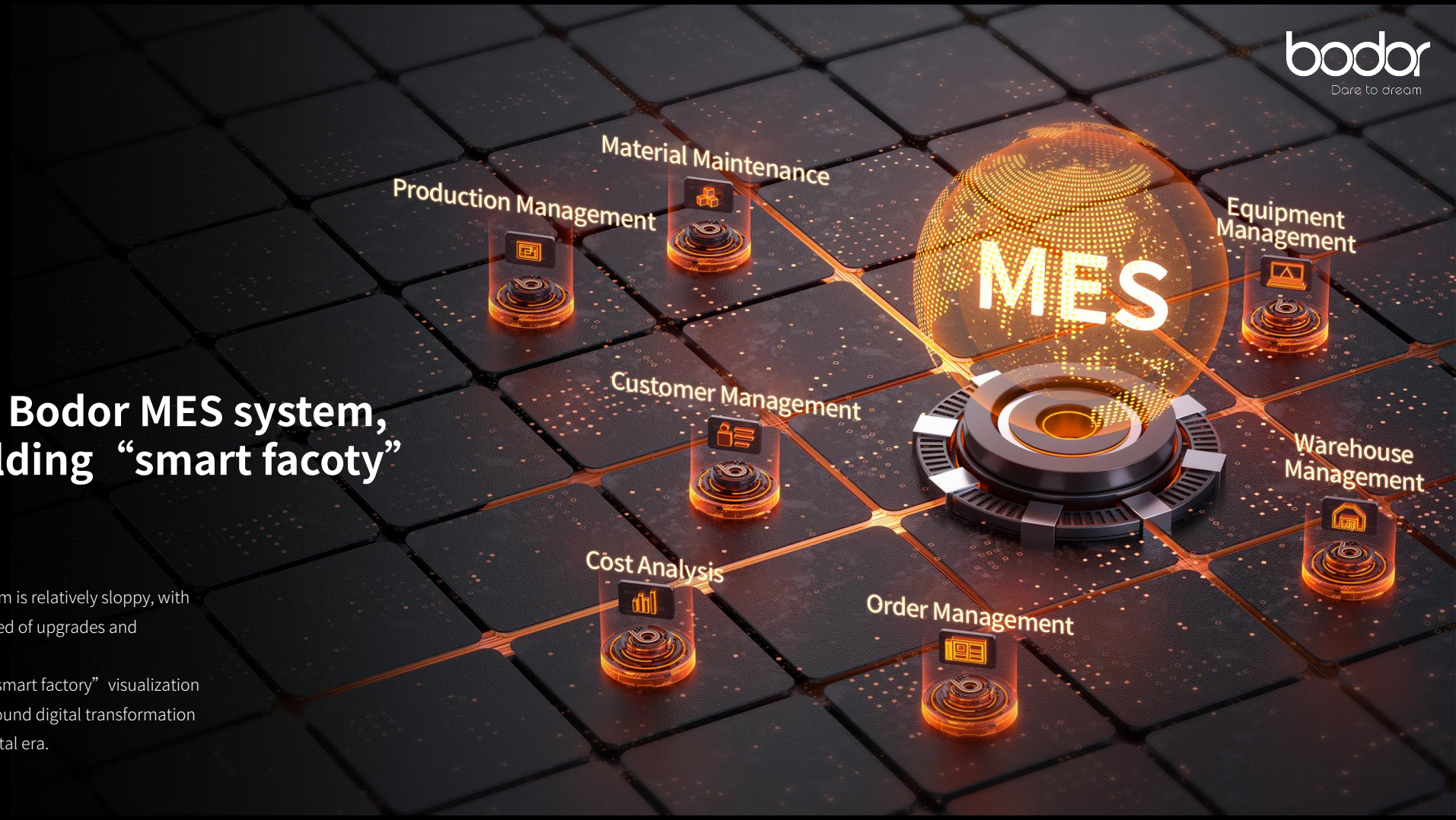
BodorNest, Bodor's self-developed nesting software has been successfully launched,

which achieves a perfet loop of nesting, system control and cutting optical path.

BodorNest nesting software is devloped by BODOR CAM software team with rich industry experience and 8 years of dedication. BodorNest brings the efficiency of nesting operation to the next level and maximizes the utilization of plates and tubes.

Bodor self-devloped Bodor MES system, a great helper in building “smart facoty”

In recent years, Chinese manufacutring has grown fast
Yet, the coventional factory management method system is relatively sloppy, with high labor cost and low efficiency, which is in urgent need of upgrades and transformation.
Bodor self-devloped MES system is able to provide a “smart factory” visualization management platform, whcih furtther promote an all-round digital transformation of factory, bringing the conventional workshop into digital era.



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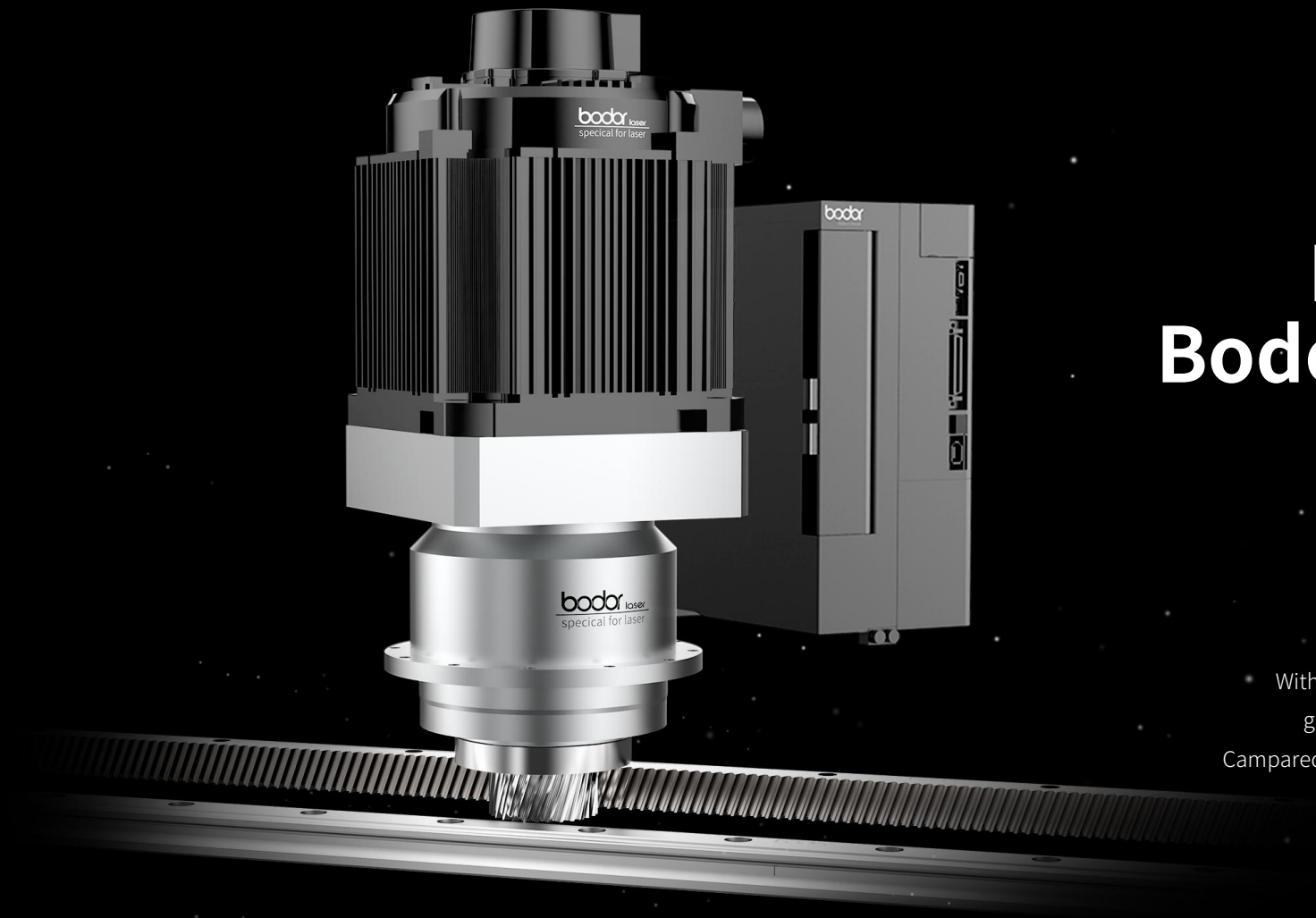

Bodor self-developed BodorDriver drive system

With a near-perfect inertia ratio through rigorous mechanical calculations, BodorDriver guarantees the performance and stability of the core components of driving system. Campared with outsourced standard counterparts, BodorDriver is more compatible with the high-speed reciprocating motion characteristic of laser cutting equipments.

MANGO Wireless touch control handle

Supports one-handed operation and comfortable grip

It can be attached to any sheet metal, and detachable at your disaposal.

Reset the aesthetic standard in the era of intelligence and IOT.

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(optional)

Bevel cutting module

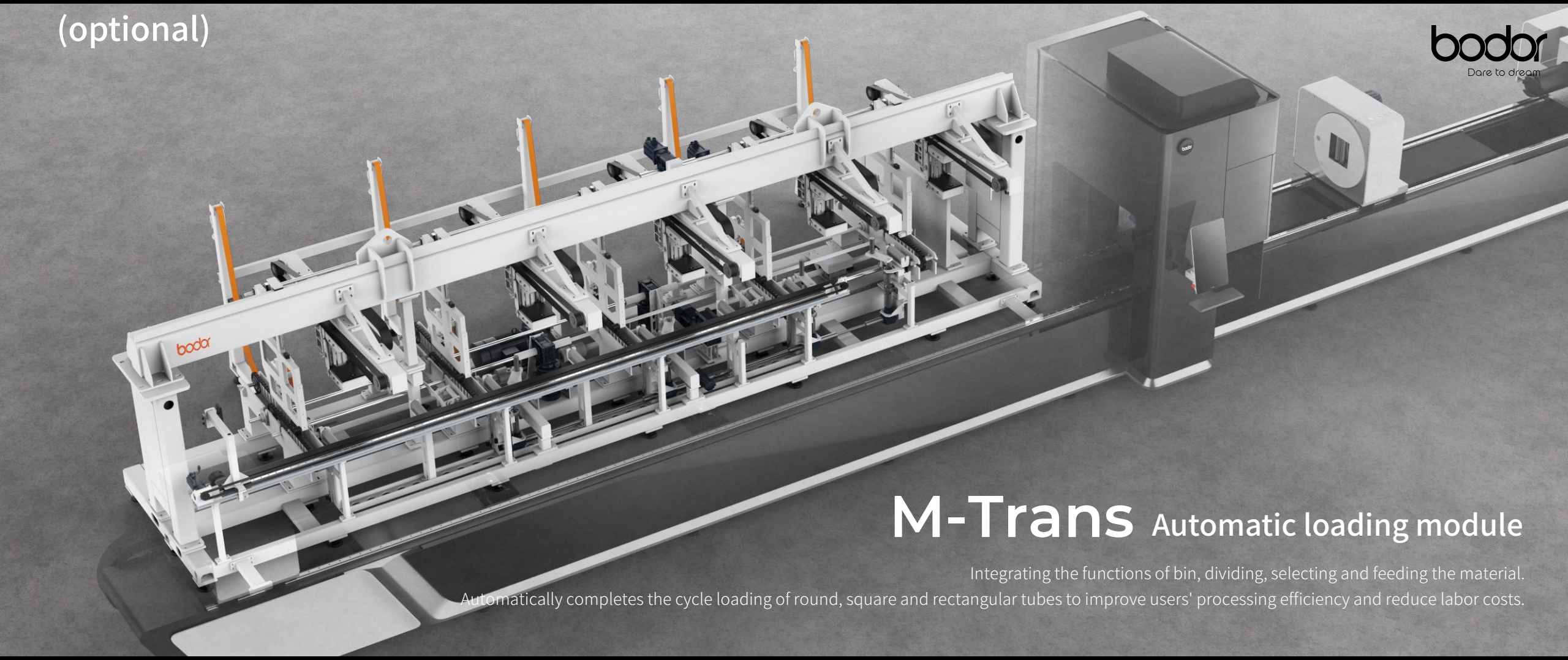
Self-developed ±45° pipe machine bevel cutting, the system can edit a variety of bevel types to reduce the user's processing procedures and reduce labor costs.

(optional)

Welding seam indentification module

With the function of camera phto uploading, the system is able to identifies the position of the weld seam by comparing the uploaded photos to make the seam in the intended position.

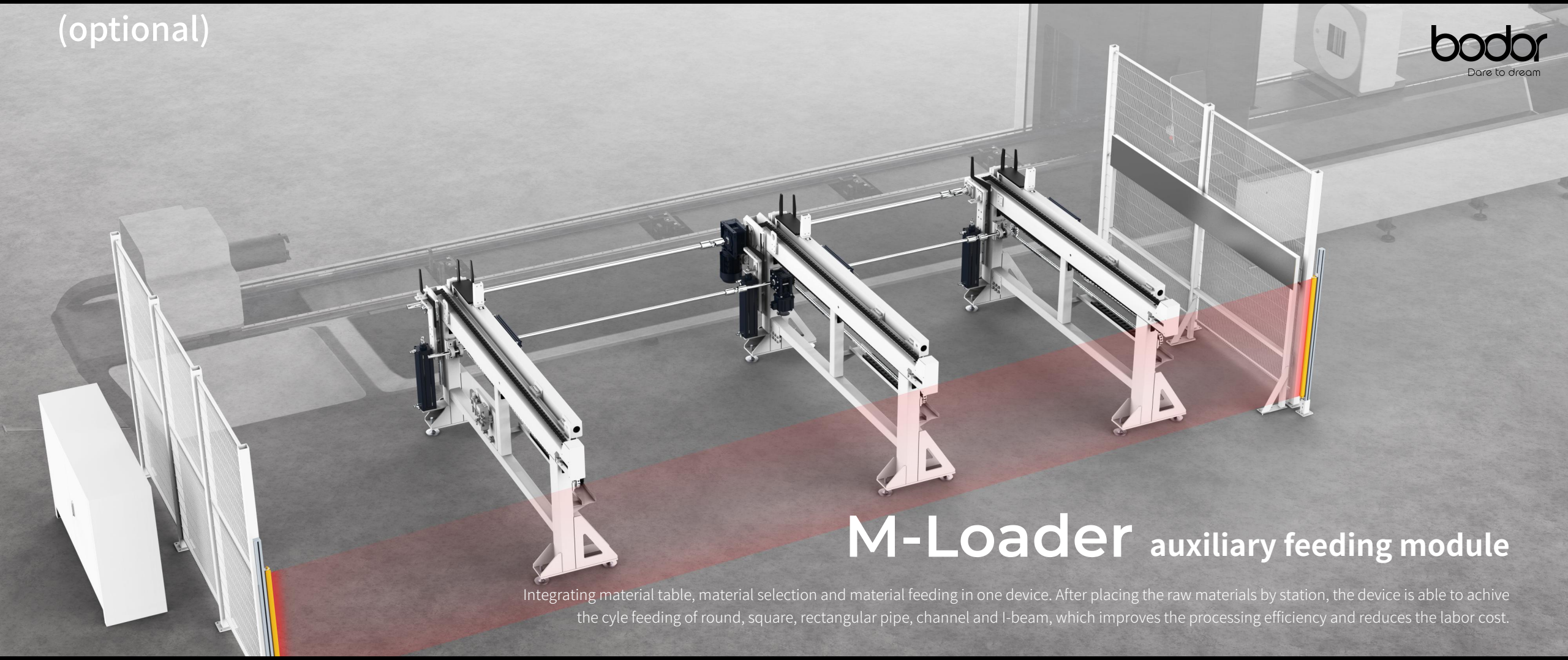
(optional)



M-Trans Automatic loading module

Integrating the functions of bin, dividing, selecting and feeding the material.
Automatically completes the cycle loading of round, square and rectangular tubes to improve users' processing efficiency and reduce labor costs.

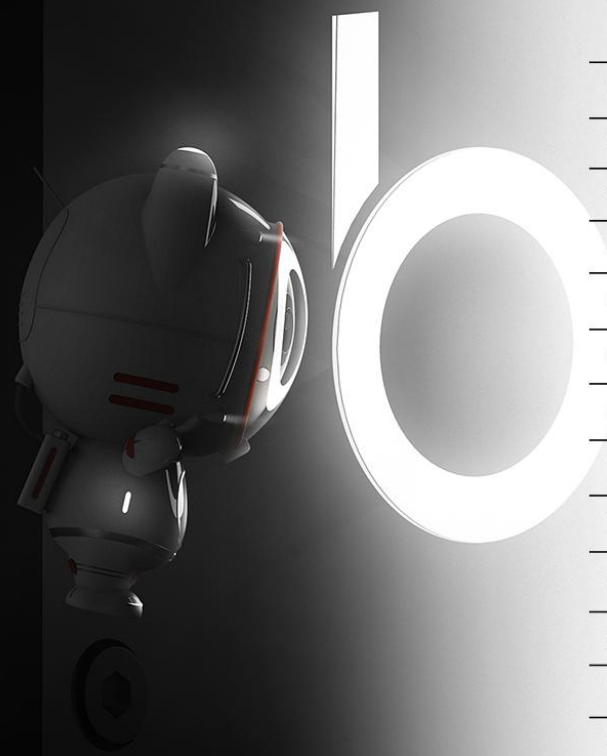
(optional)



M-Loader auxiliary feeding module

Integrating material table, material selection and material feeding in one device. After placing the raw materials by station, the device is able to achive the cyle feeding of round, square, rectangular pipe, channel and I-beam, which improves the processing efficiency and reduces the labor cost.

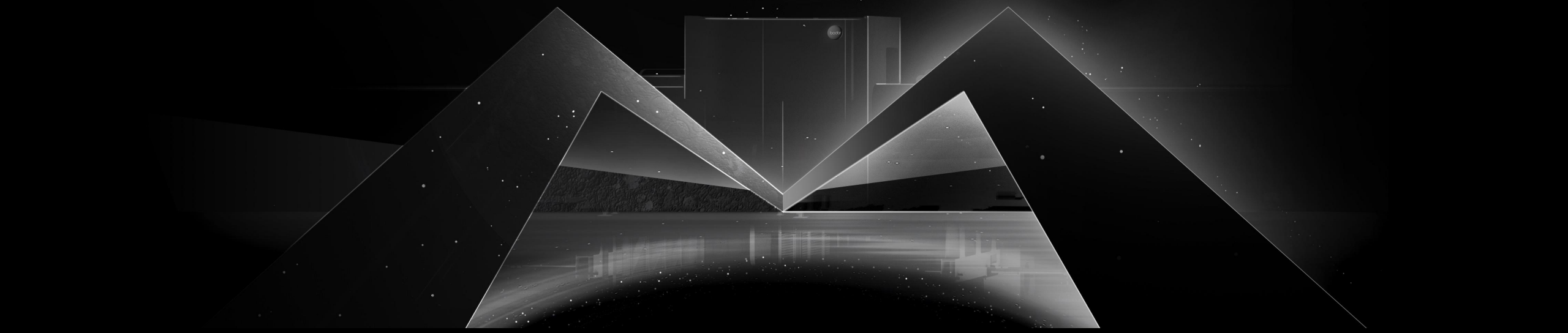
Function&parameter List



型号	M500	M350	M230
Tube size range	○ : Φ60-Φ500mm □ : □60 - □350mm ▭ : 500mm≥Side length≥60mm	○ : Φ20-Φ350mm □ : □20 - □350mm ▭ : 350mm≥Side length≥20mm	○ : Φ20-Φ230mm □ : □20 - □230mm ▭ : 230mm≥Side length≥20mm
Maximum machinable tube length	12000mm	9200mm	6500mm
Maximum tube weight	1600Kg	800kg/1200kg (Optional Configuration)	300Kg
Servo roller	●	●	●
Following servo feeding bracket	×	●	●
Bevel cutting	○	○	○
Cutting Angle Steel and Channel Steel	●	●	●
Positioning accuracy	±0.05mm/m	0.06mm/m	0.06mm/m
Repositioning accuracy	±0.03mm/m	0.04mm	0.04mm
Max. Chuck rotating speed	40r/min	75r/min	110r/min
X axis maximum speed	35m/min	80m/min	110m/min
Shortest remaining material	No waste of materials	No waste of materials	No waste of materials
Maximum tube length	12000mm	9200mm	6500mm
Chuck	pneumatic chuck	pneumatic chuck	pneumatic chuck
Number of chucks	4	4	4

Flaship Product Tube laser cutting machine M series

Transitioning to 4-chuck era!



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