

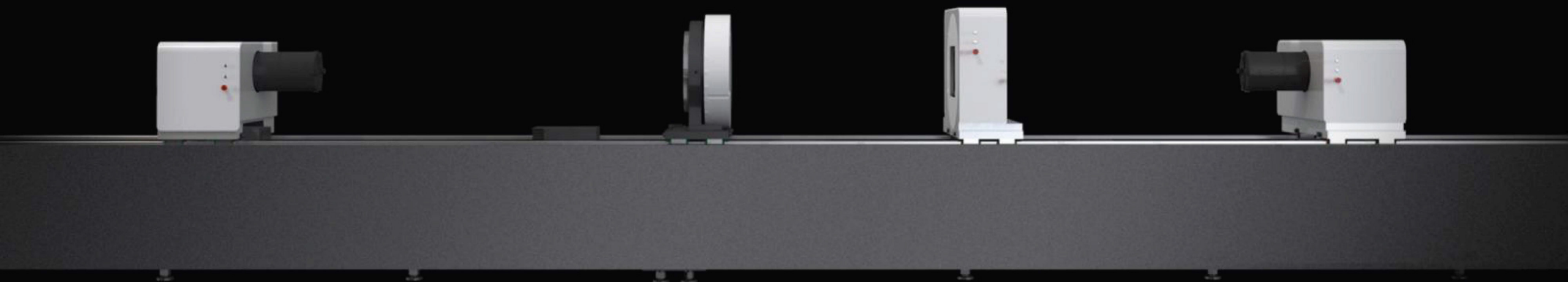
# M-series

Flagship product

4-chuck tube laser cutting machine



# *Transitioning to 4-chuck era!*



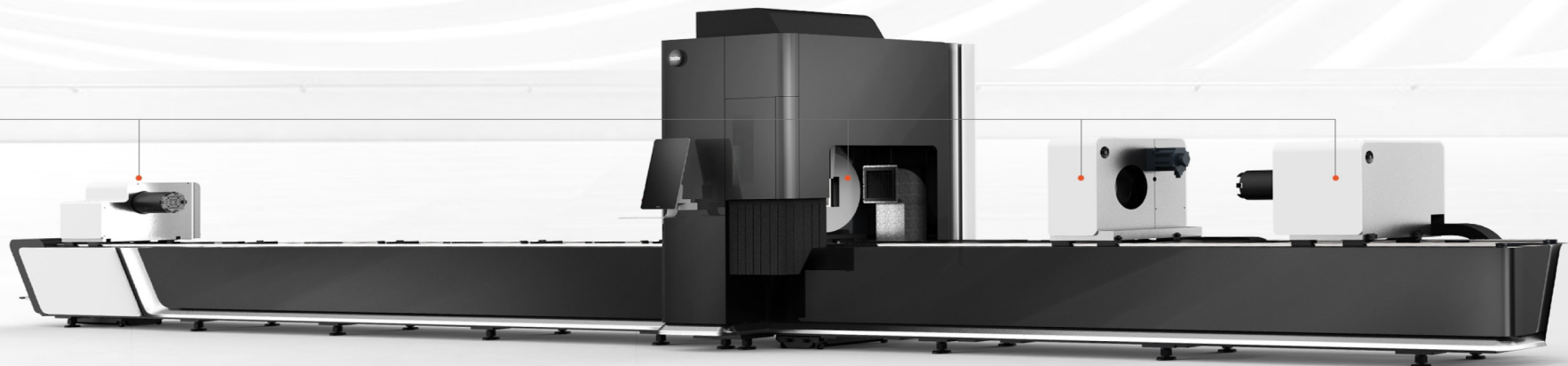
# Zero tail material

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

# M SERIES

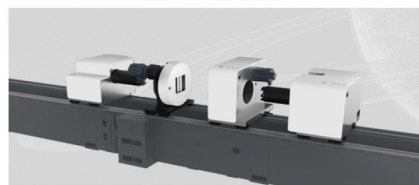
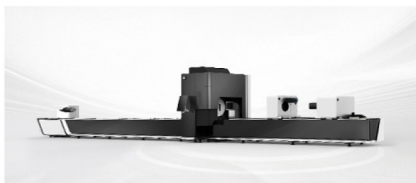
## Multi-chuck Laser Tube Cutting Machine

Mx4



### Heavy Tube Laser Cutting Machine

Maximum loading capacity up to **1100 lb**  
Maximum tube length up to **39ft**; Maximum tube diameter up to **13.77in**.



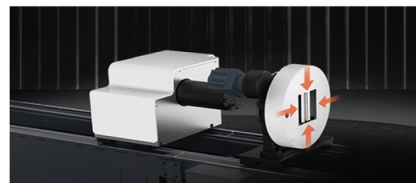
### Intelligent NC Pneumatic Chuck

Two pairs of light curtains on the crossbeam detect automatically movements of the crossbeam and cutting parts to guarantee safe operation.



### Welded Bed with Tenon-and-mortise Joint

Each frame of bed is welded after mortise-and-tenon joint to achieve better stability and firmness.



### No Waste of Material

Equipped with four chucks, the cutting cost is saved without tube cutting scraps.

### Bodor Thinker

EtherCAT bus control system boosts the response speed of M Series to 6 times faster.



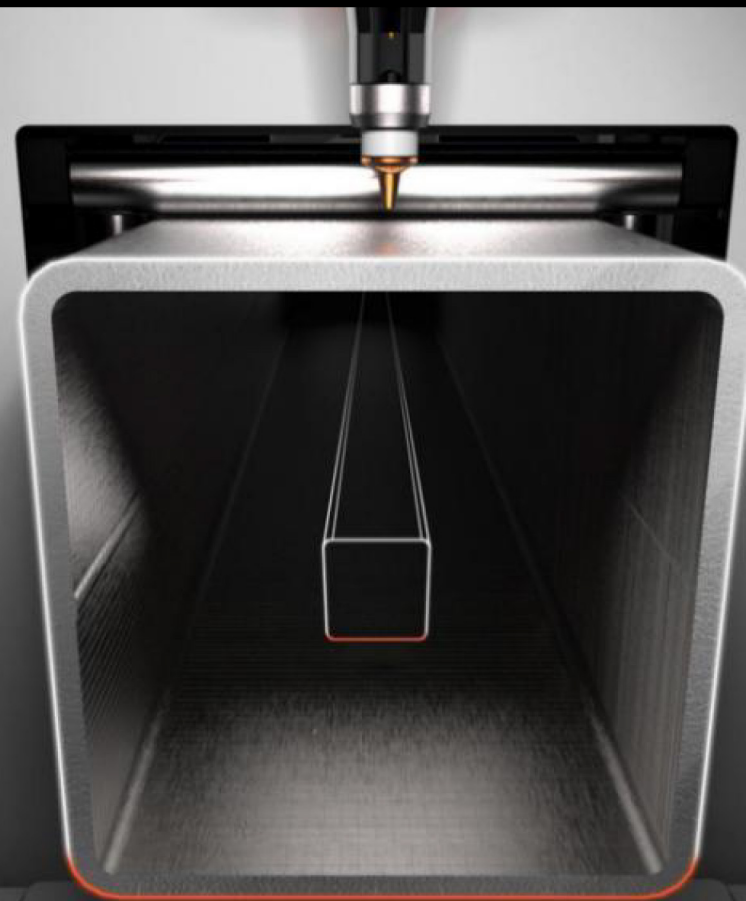




# Zero safety hazard

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





## 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.



## Over-edge protection function

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

## 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.



# Bodor +

A new interactive platform for the industrial laser 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

Technical processing sharing

Accessories online store

Auxiliary operation

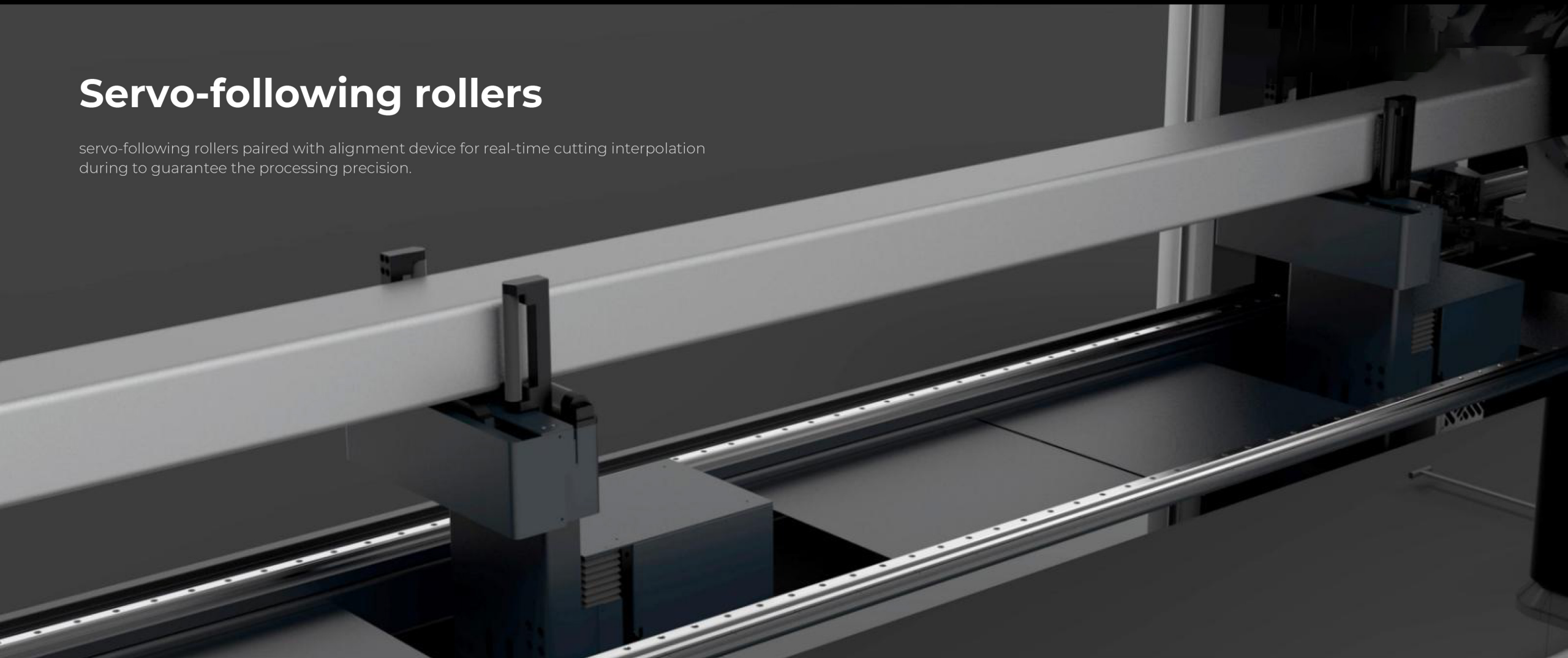
Equipment real time monitoring

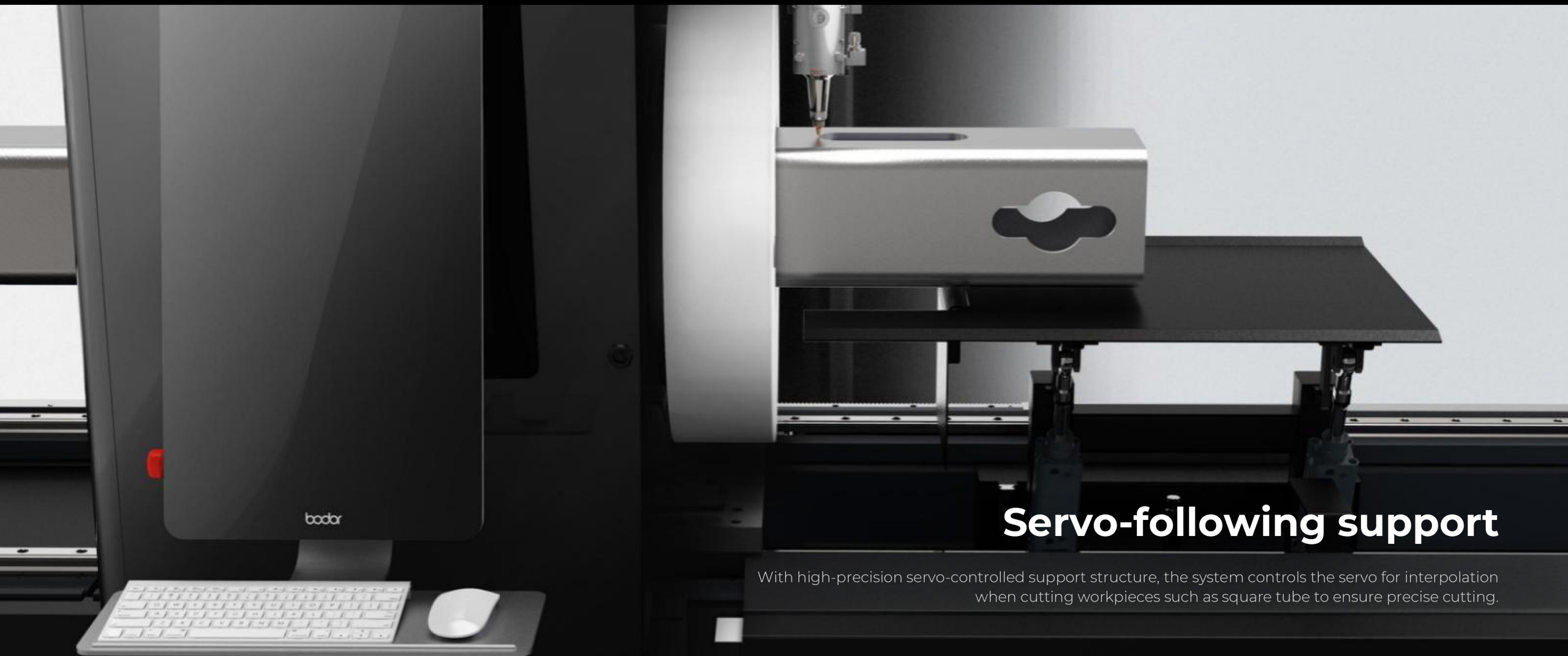
Regular maintenance reminder

One click malfunction report

# Servo-following rollers

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

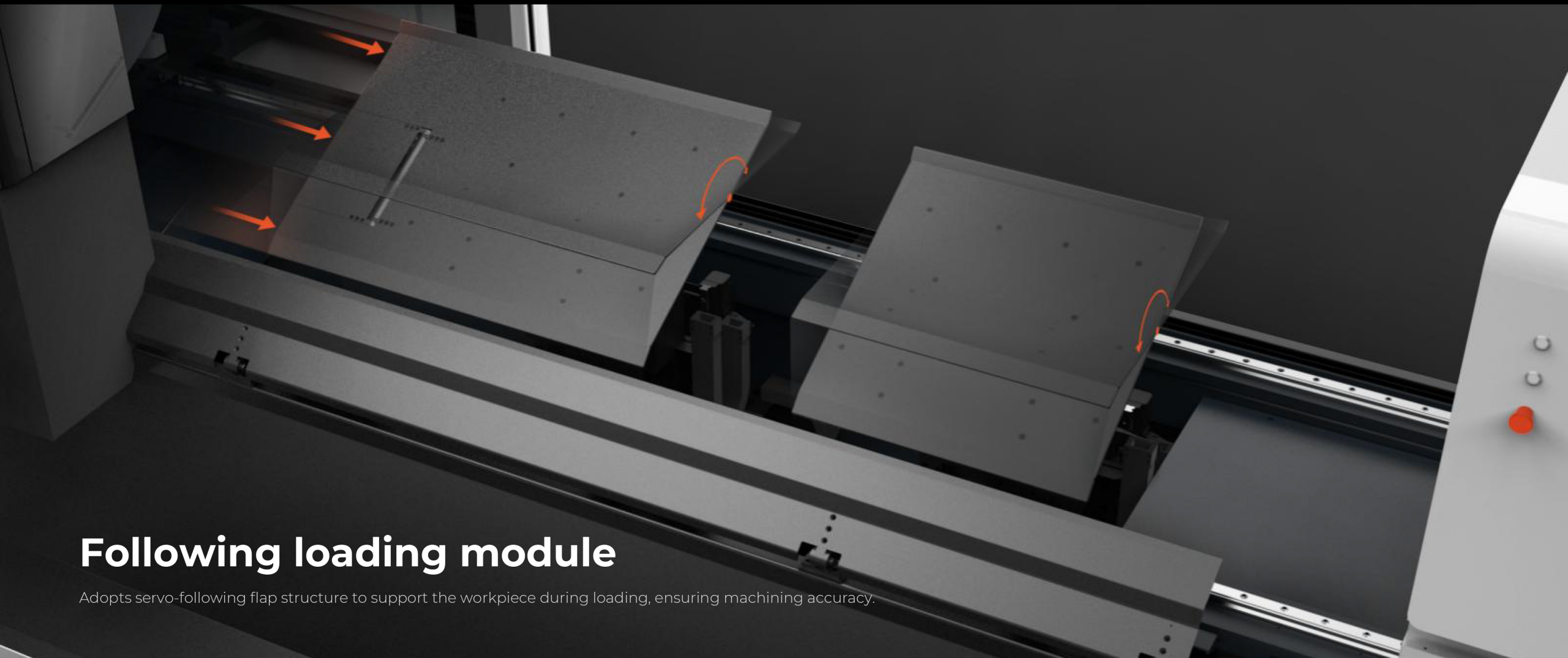




## Servo-following support

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.



## 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



# Zero tail material

automatic chuck structure



Bodor

# Six-in-one laser technology full ecology

Fully self-developed 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 quality cuts and incredible working efficiency.



**BodorThinker**  
Central control system



**BodorNest**  
Nesting software



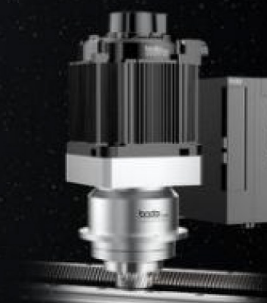
**BodorGenius**  
Laser head



**BodorPower**  
Laser source



**BodorMES**  
Intelligent production  
management software



**BodorDrive**  
Drive system

# Self-developed BodorPower laser

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

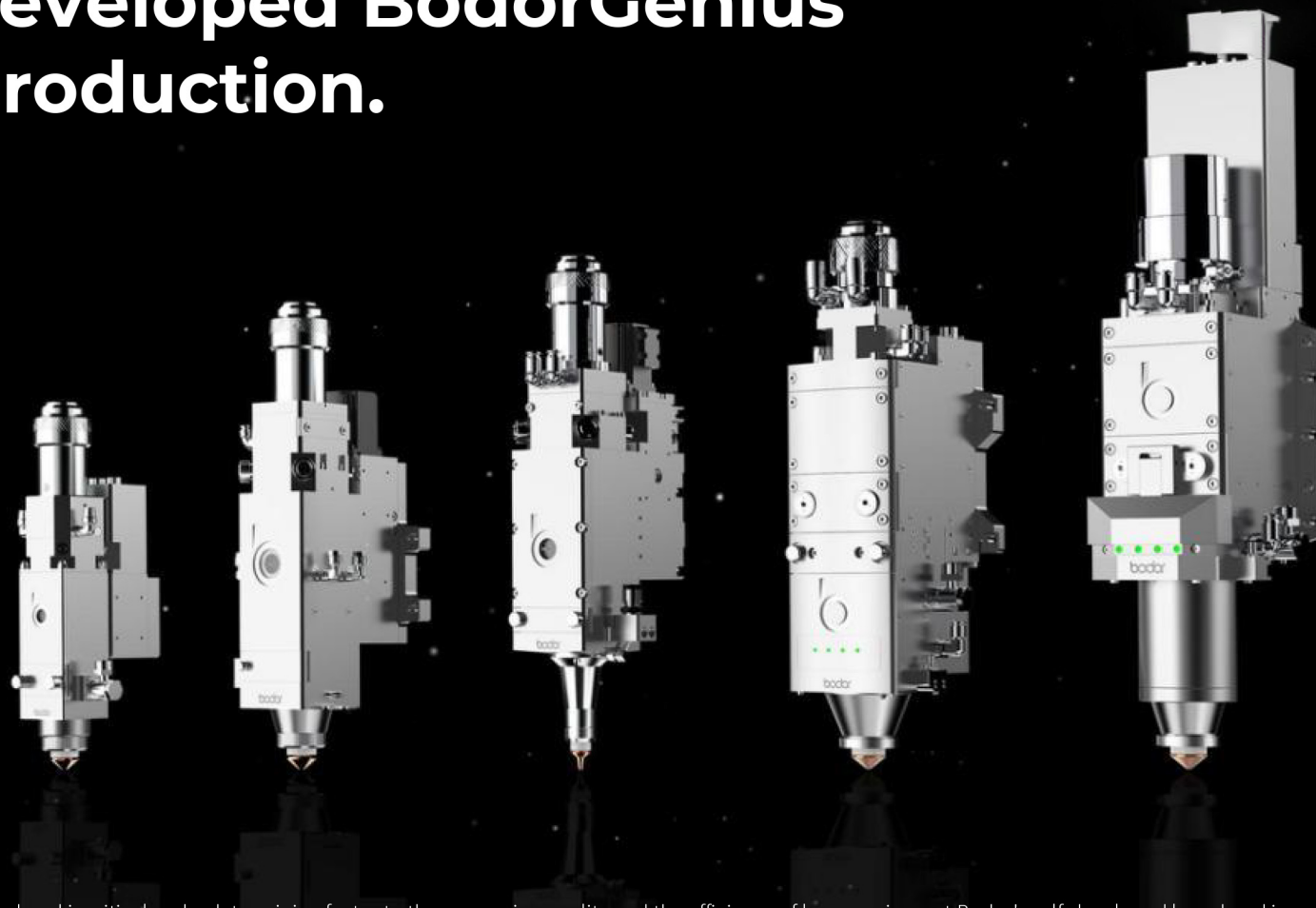


Being the core component of a laser equipment, the laser is like the engine of a car, or the CPU of a cell phone.

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 pioneer to tackle the challenges of developing 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.

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 experiences to the customers across the globe."



## Bodor self-developed BodorThinker operating system

brings intelligent human-machine interactive experiences to our users.

Typically, 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 compatibility between software and the hardware inevitably results in frequent mechanical failure .....

Software development is a bumpy journey. However, Bodor has been determined to develop our own operating system, starting from writing the "source code". It takes 5 years of relentless dedication for BodorThinker operating system to be successfully developed.

The autonomous operating software matched with self-developed hardware enables the smooth running of the equipments.

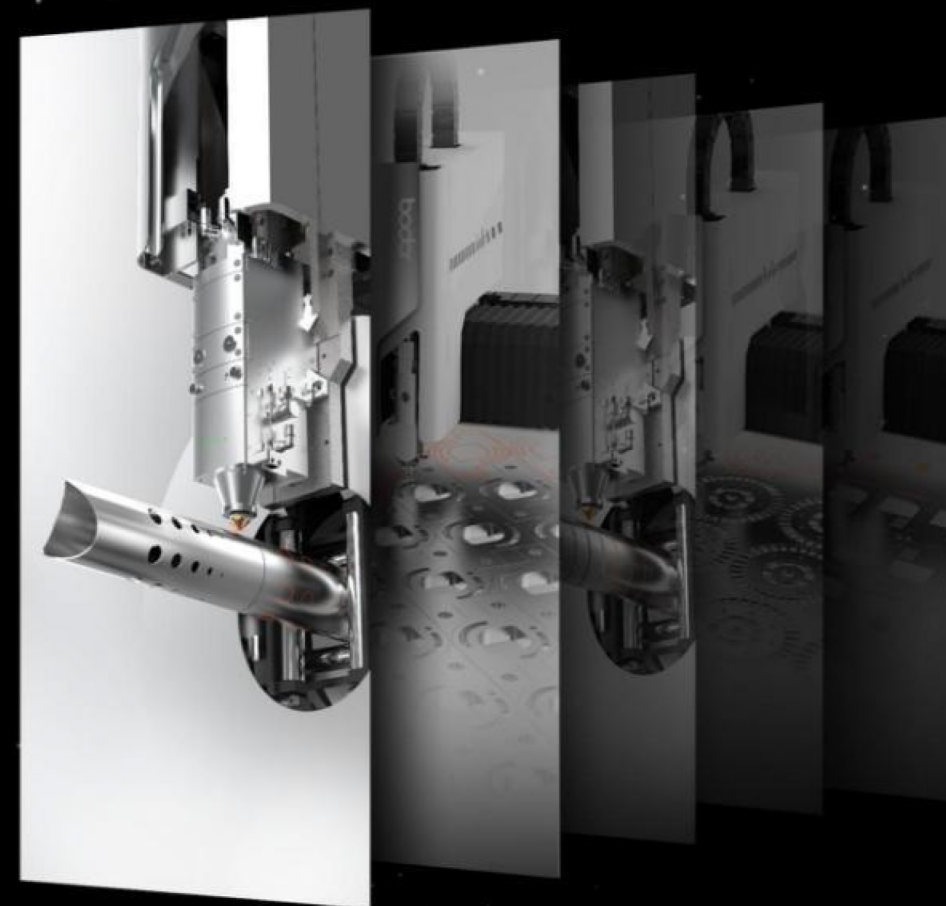


## **BodorNest, Bodor's self-developed nesting software has been successfully launched,**

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

BodorNest nesting software is developed by BODOR CAMsoftware 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-developed Bodor MES system, a great helper in building “smart factory”

In recent years, Chinese manufacturing has grown fast

Yet, the conventional 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-developed MES system is able to provide a “smart factory” visualization management platform, which further promotes an all-round digital transformation of factory, bringing the conventional workshop into digital era.







# 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. Compared 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 disposal.

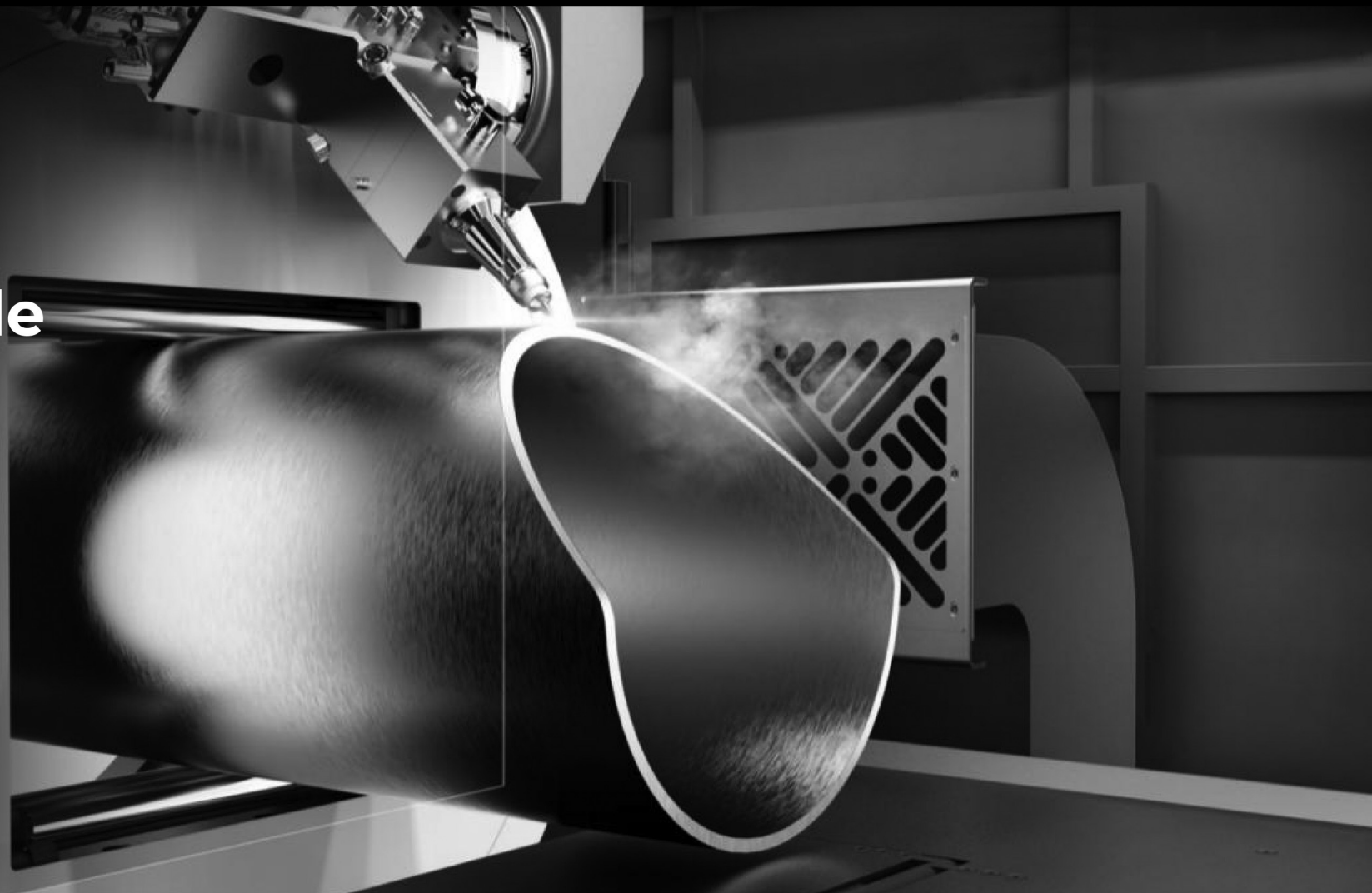
Reset the aesthetic standard in the era of intelligence and IOT.



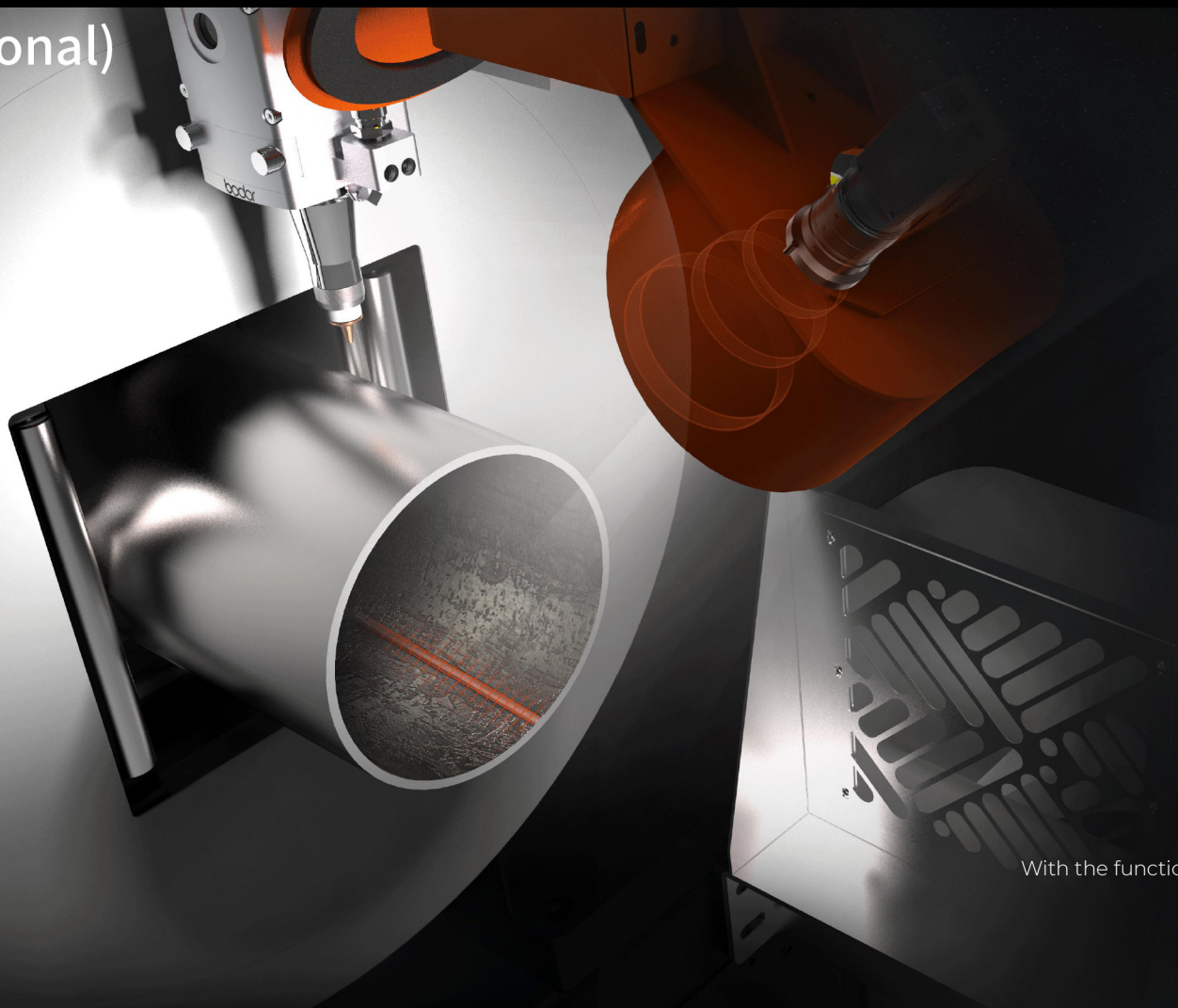
(optional)

## Bevel cutting module

Self-developed  $\pm 45^\circ$  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 photo 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 achieve the cycle feeding of round, square, rectangular pipe, channel and I-beam, which improves the processing efficiency and reduces the labor cost.



## Function&parameter List

Model	M500	M350	M230
Tube size range	○ : $\Phi 2.36'' - \Phi 519.69''$ □ : $2.36'' - 19.69''$ □ : $19.69'' \geq \text{Side length} \geq 2.36''$	○ : $\Phi 0.79'' - \Phi 13.78''$ □ : $0.79'' - 13.78''$ □ : $13.78'' \geq \text{Side length} \geq 0.79''$	○ : $\Phi 0.79'' - \Phi 9.06''$ □ : $0.79'' - 9.06''$ □ : $9.06'' \geq \text{Side length} \geq 0.79''$
Maximum machinable tube length	39.37'	30.18'/39.37'	21.32'
Maximum tube weight	6613 lb	1763 lb	661 lb
Servo roller	●	●	●
Following servo feeding bracket	×	●	●
Bevel cutting	●	○	○
Cutting Angle Steel and Channel Steel	●	●	●
Positioning accuracy	$\pm 0.0019$ in/ft	0.0023 in/ft	0.0023 in/ft
Repositioning accuracy	$\pm 0.0011$ in/ft	0.0015 in/ft	0.0015 in/ft
Max. Chuck rotating speed	40r/min	75r/min	110r/min
X axis maximum speed	1377 in/min	3149in/min	4330 in/min
Shortest remaining material	No waste of materials	No waste of materials	No waste of materials
Maximum tube length	39.37'	30.18'/39.37'	11.4'/21.32'
Chuck	pneumatic chuck	pneumatic chuck	pneumatic chuck
Number of chucks	4	4	4



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