P series

Sheet fiber laser cutting machine

High performance model

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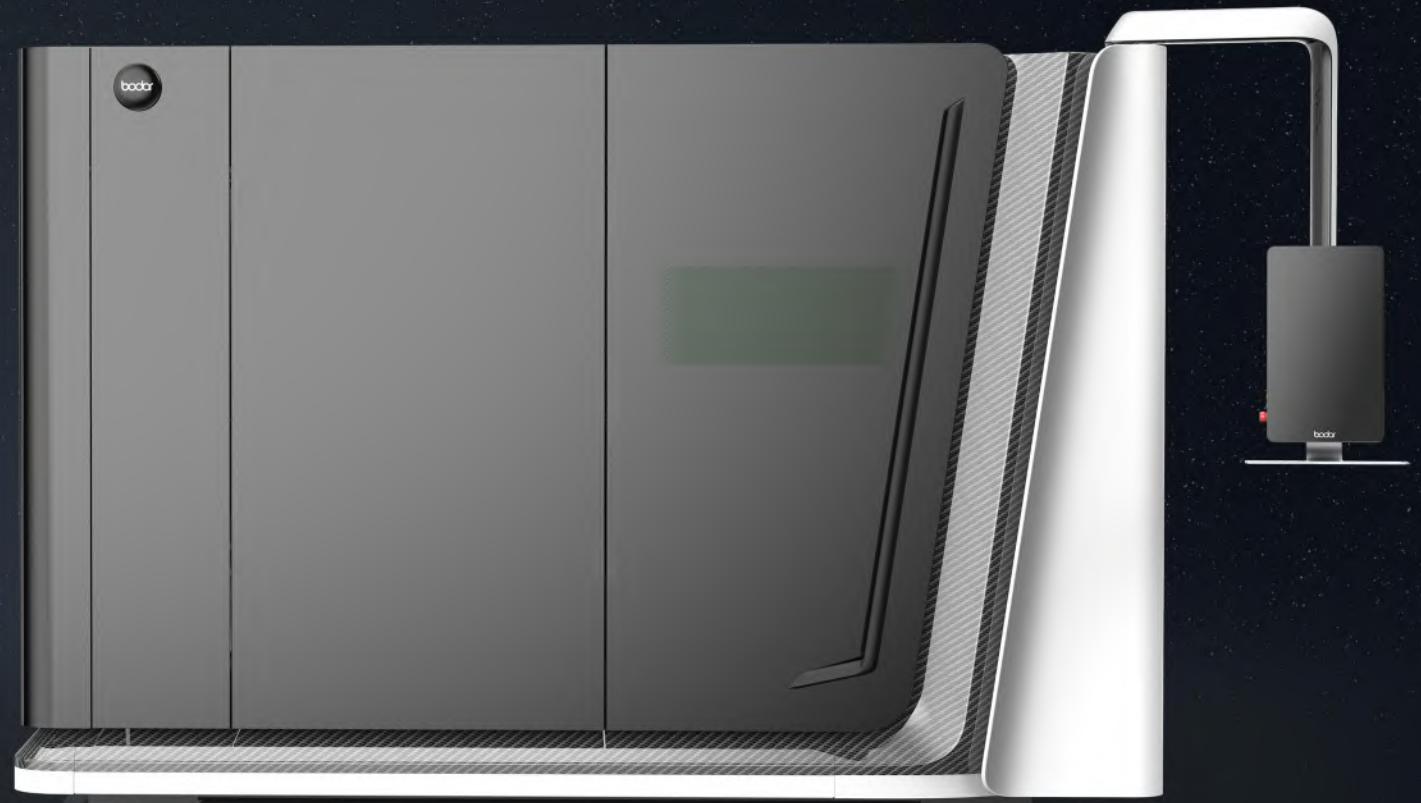
Ultimate high speed and intelligent operation



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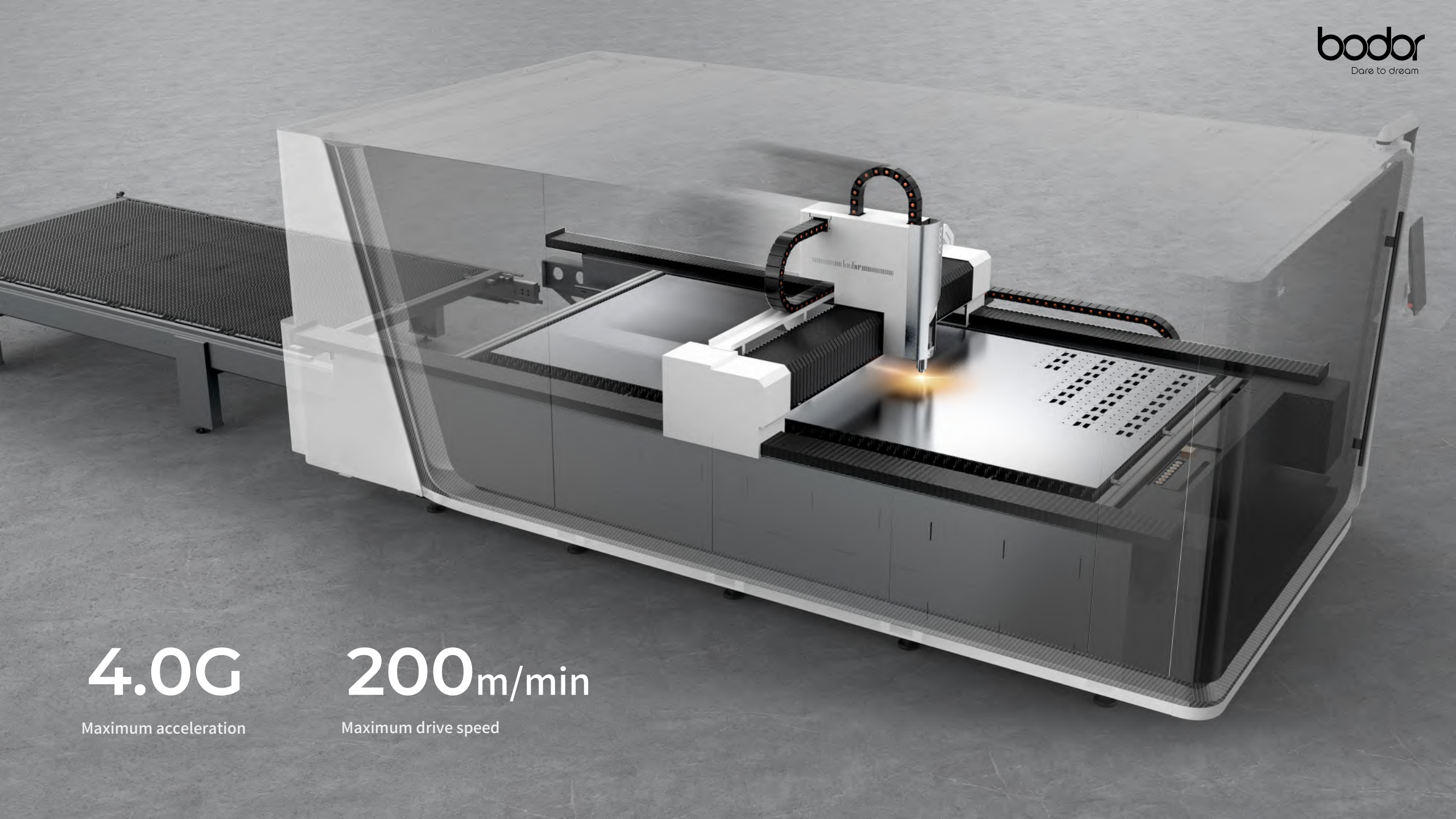

4.0G

Maximum acceleration

200m/min

Maximum drive speed

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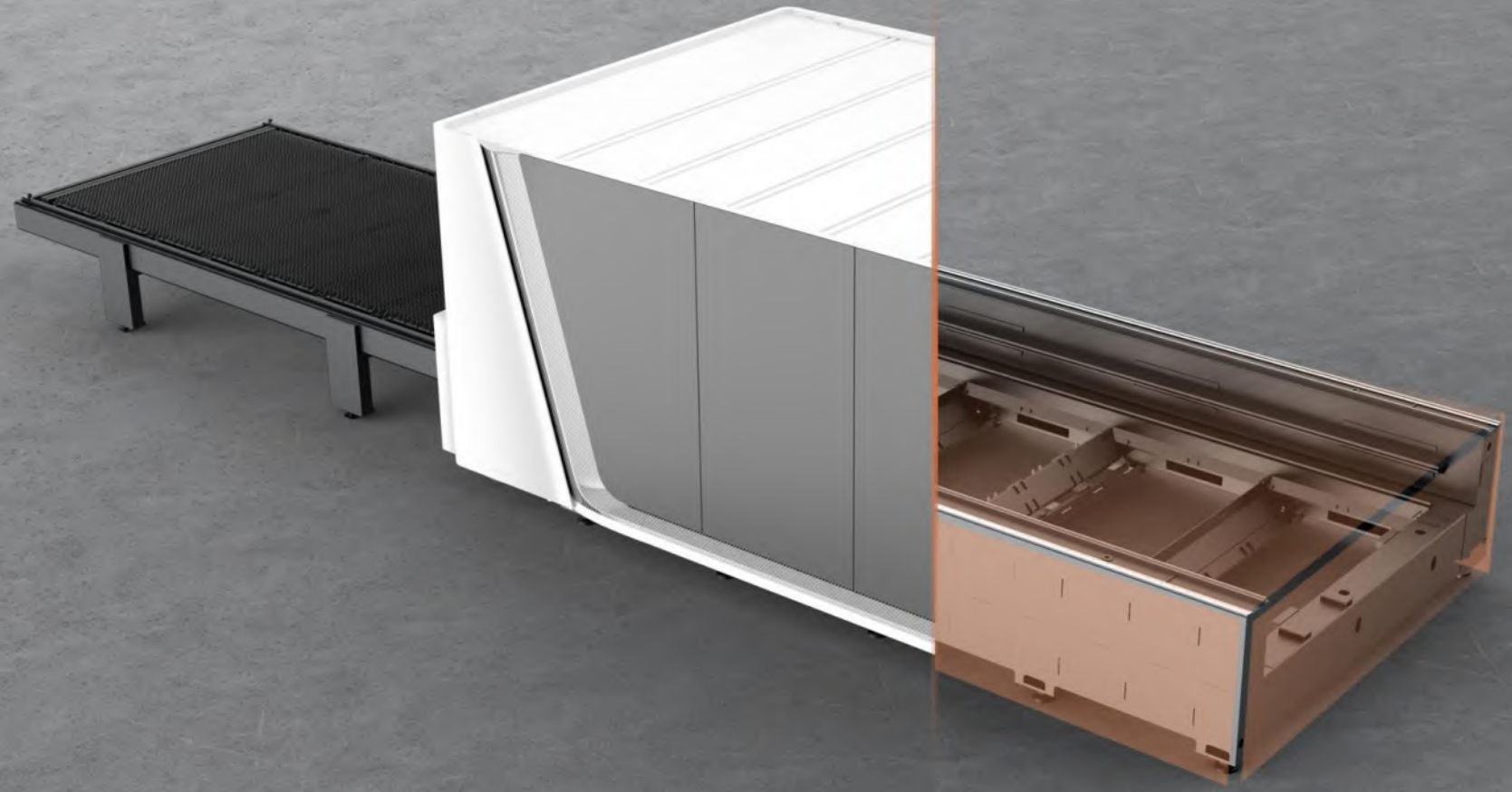
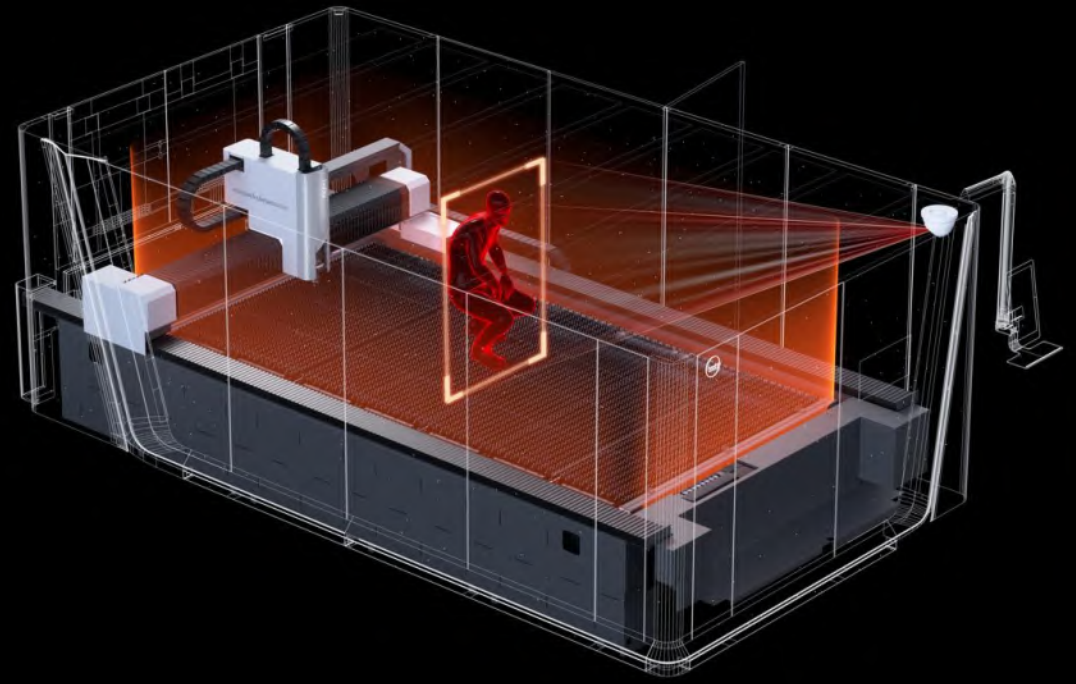
The latest 2nd generation mortise and tenon welded bed

Newly upgraded second-generation mortise and tenon welded bed, the optimal stress point and support structure are achieved by finite element analysis.The deformation during loading is significantly reduced, compared with the first-generation mortise and tenon welded bed, ensuring long-term stable machine operation.

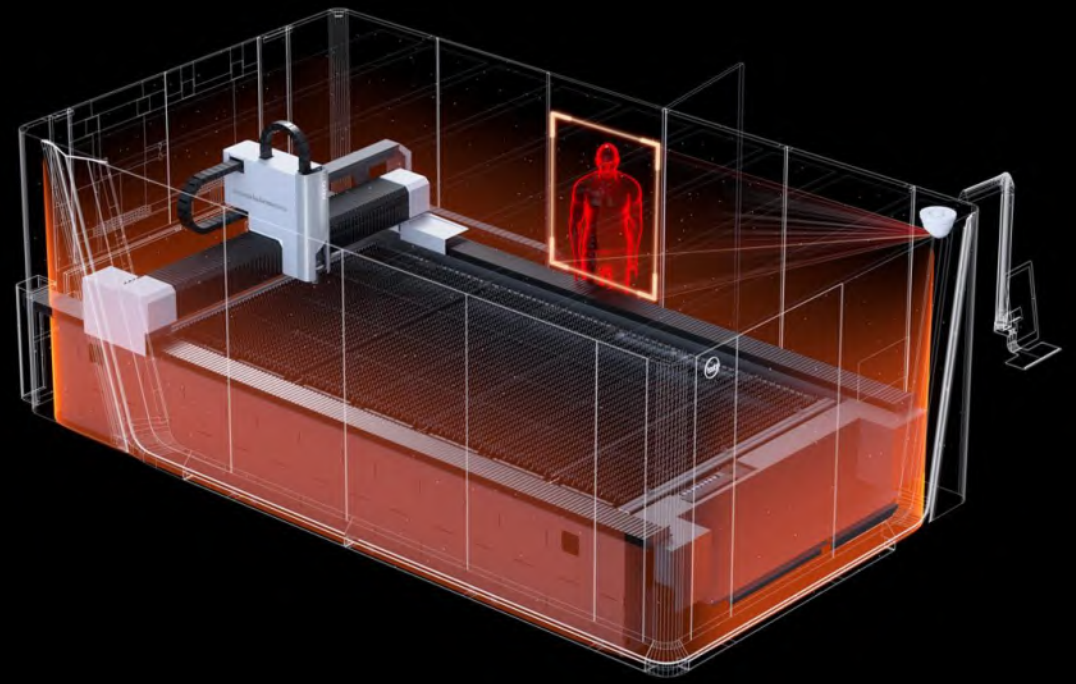


Available for all P-Series models

Equipment immediately stops running when camera detects the presence of people on the table;



Equipment immediately stops running when the camera detects people entering through the side door.



Visual anti-collision function ensures safe operation of the equipment and worry-free production.

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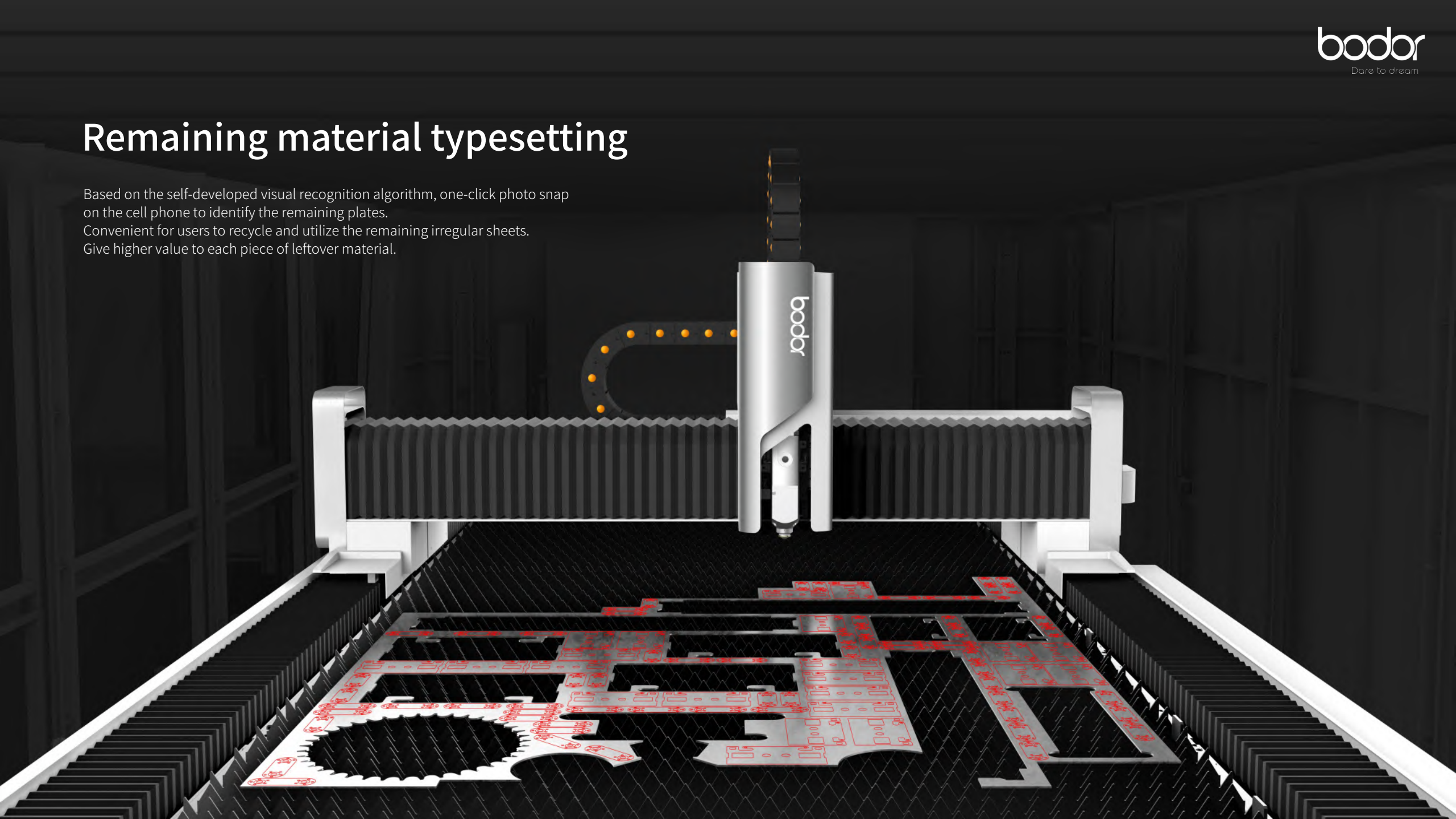
Remaining material typesetting

Based on the self-developed visual recognition algorithm, one-click photo snap on the cell phone to identify the remaining plates.
Convenient for users to recycle and utilize the remaining irregular sheets.
Give higher value to each piece of leftover material.



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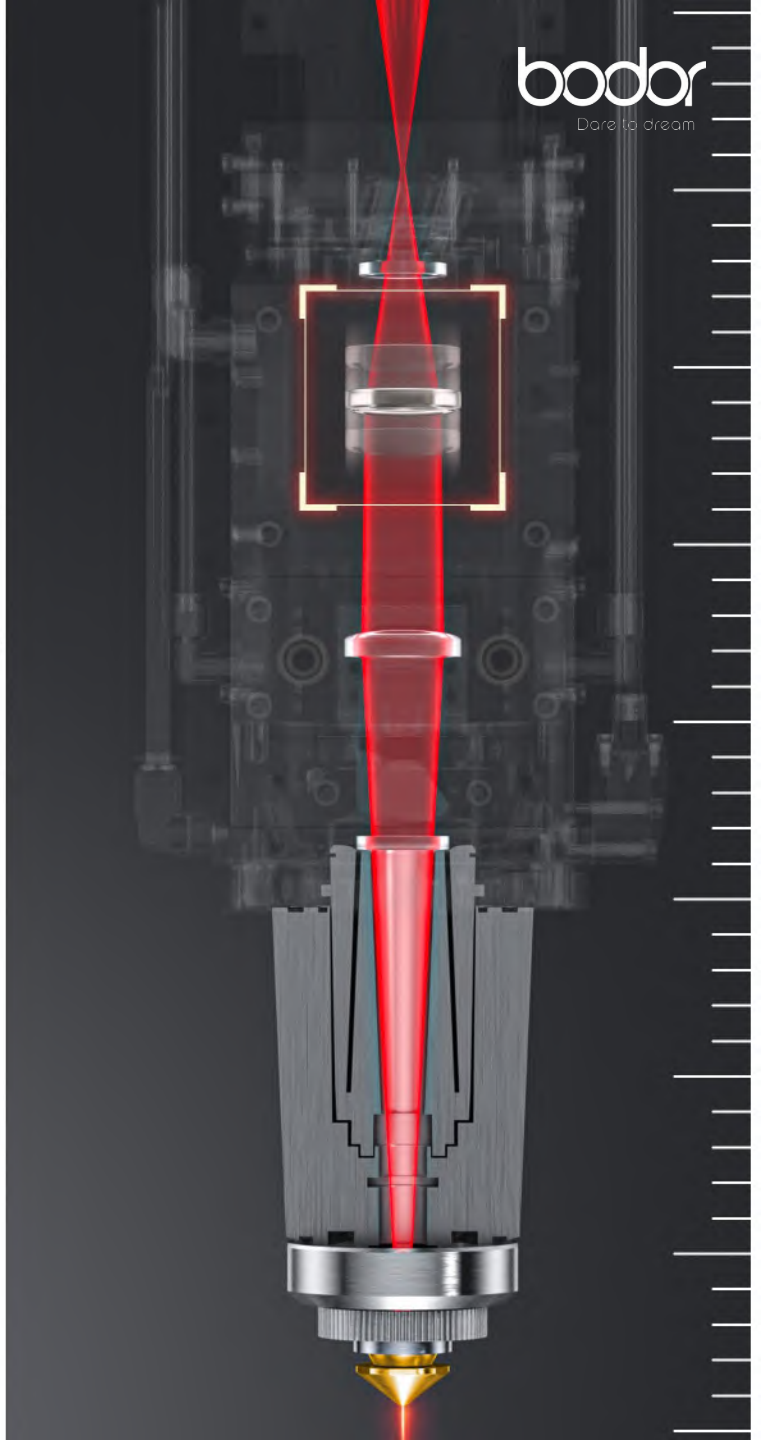
One click processing

One click to set up and start the processing task, to complete automatic exchange, automatic edge seeking and automatic cutting, effectively reducing repeated manul labor during batch cutting and improving the machine processing efficiency.

Thick plate over-heat conpensation

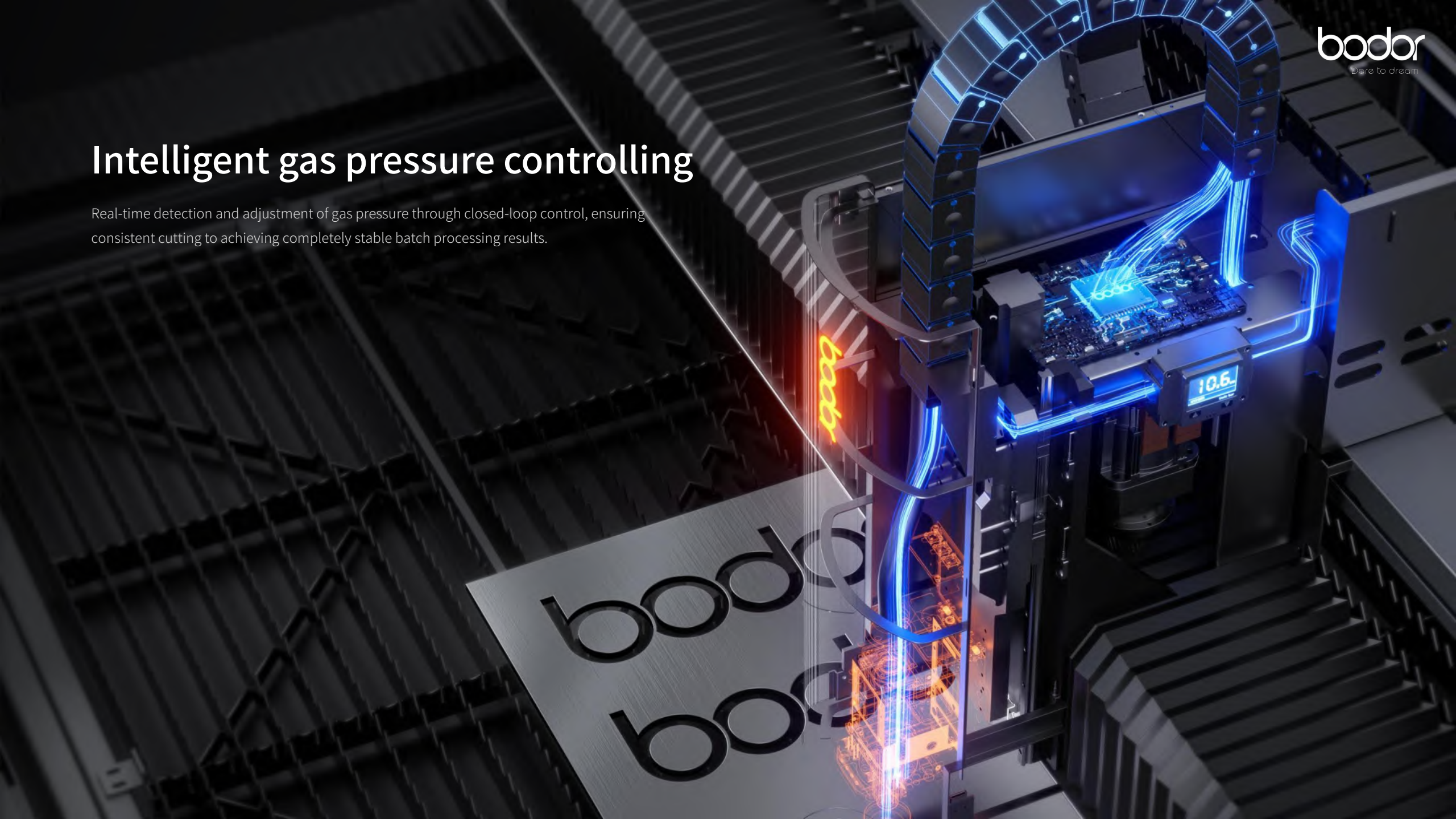
Automatically calculates and compensates for the "drift" of the cutting head focus from multiple dimensions, such as time and temperature.

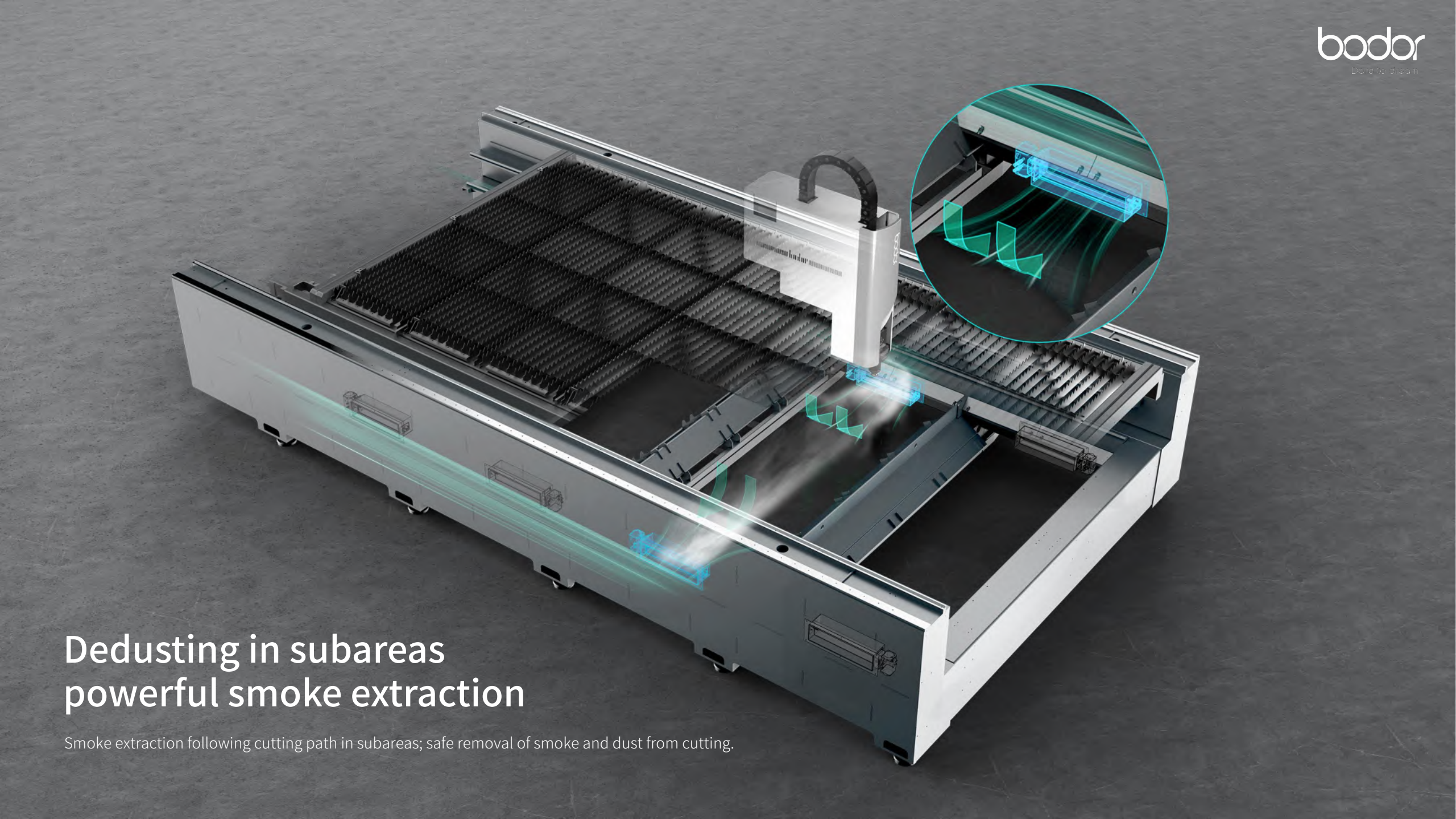
Ensures long and stable cutting of medium and thick plates without the need for manual intervention



Intelligent gas pressure controlling

Real-time detection and adjustment of gas pressure through closed-loop control, ensuring consistent cutting to achieving completely stable batch processing results.





Dedusting in subareas powerful smoke extraction

Smoke extraction following cutting path in subareas; safe removal of smoke and dust from cutting.

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Laser head active obstacle avoidance

Self-developed servo-following sensing and paths avoidance algorithm, significantly reduce the risk of laser head collision caused by workpiece warping

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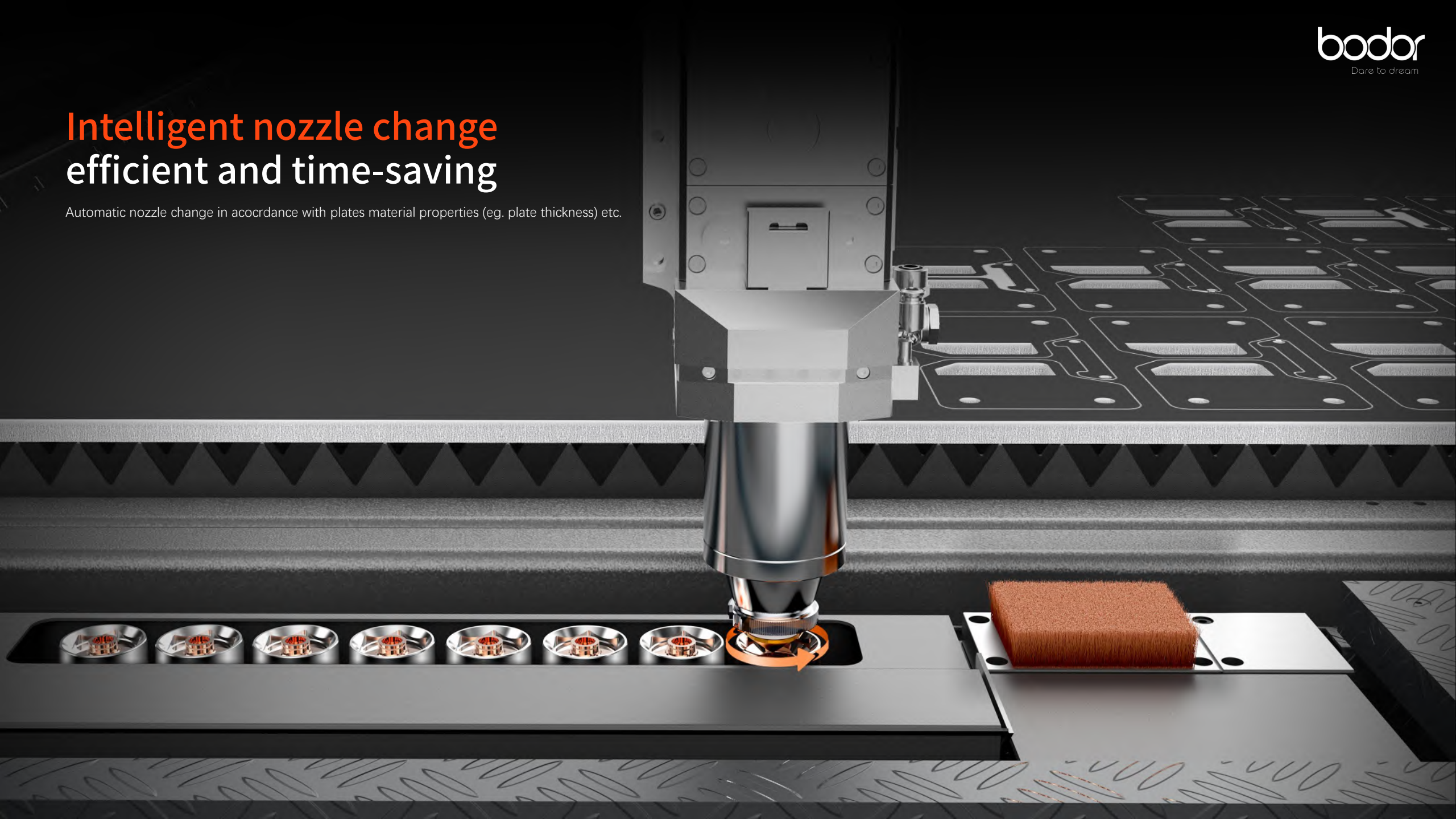
Intelligent nozzle change
efficient and time-saving

Automatic nozzle change in acocrdance with plates material properties (eg. plate thickness) etc.



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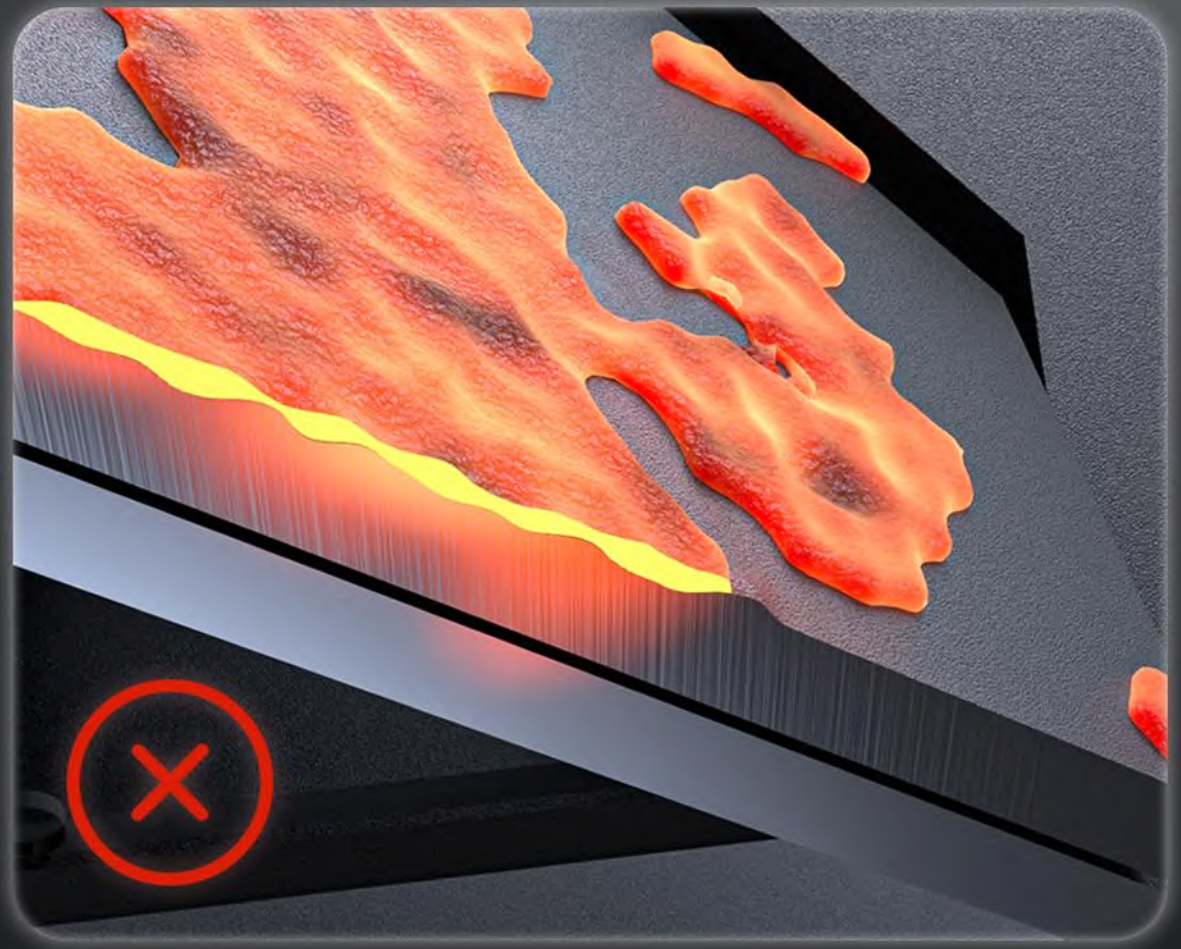

Mineral casting anti-burning plate

Easy slag clean-up, long service life: compared with anti-burning cast iron and anti-burning steel plate, it is less prone to deformation, flexible in size, and can perfectly protect the whole body of the machine.

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Bodor +

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

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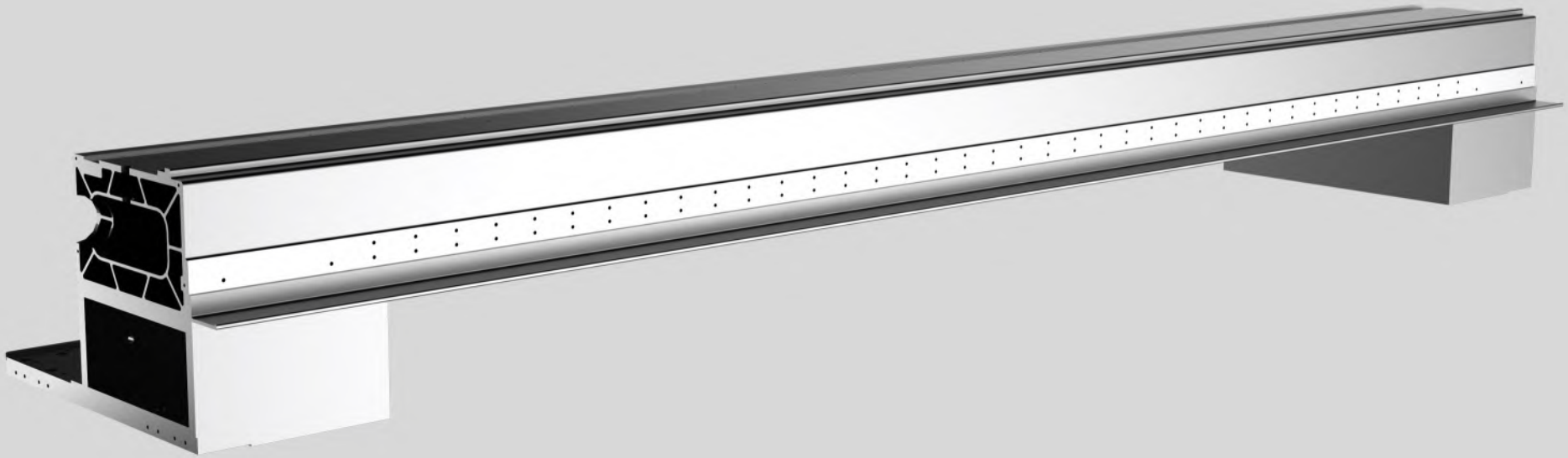
Aircraft-grade aluminum crossbeam



25%
Structural strength enhanced by

30%
Weight reduced by

(compared with the last generation)

bodor
Dare to dream

Modular table

Pioneering innovation of module structured table, reducing maintenance costs.

bodor
Dare to dream

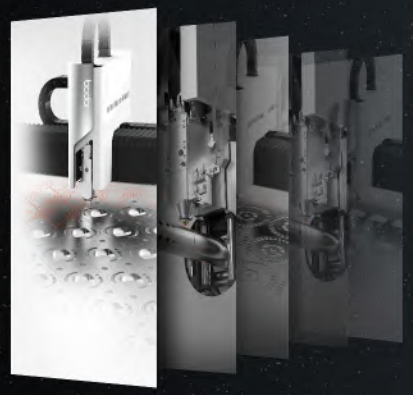
Bodor

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.

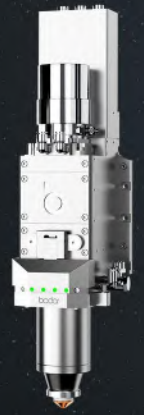
BodorThinker

总线系统



BodorNest

套料软件



BodorGenius

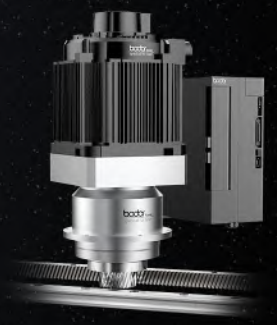
激光头

BodorPower

激光器

BodorMES

智能制造生产管理软件



BodorDrive

传动系统

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Self-devloped 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 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
Dare to dream

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 expereinces to the customers across the globe."

bodor
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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.

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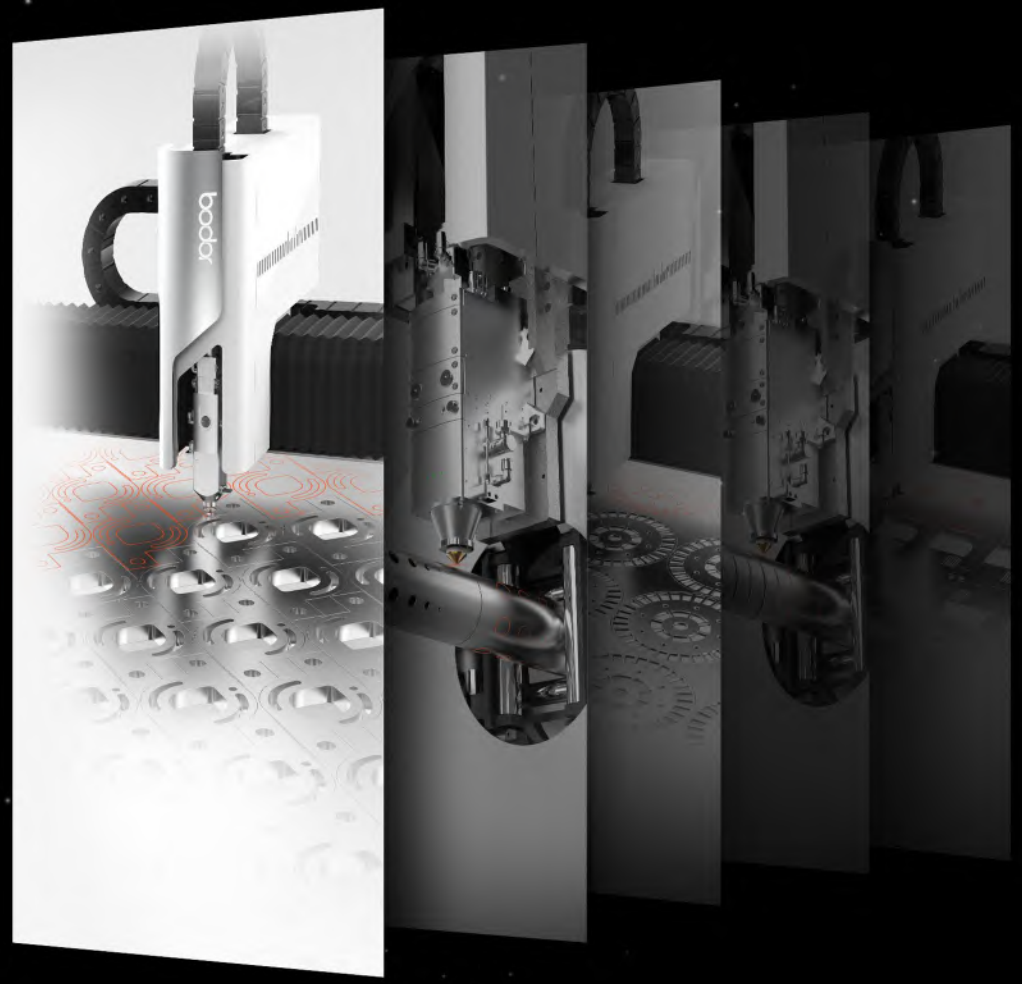
BodorNest, Bodor's self-developed nesting software has been successfully launched,

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.



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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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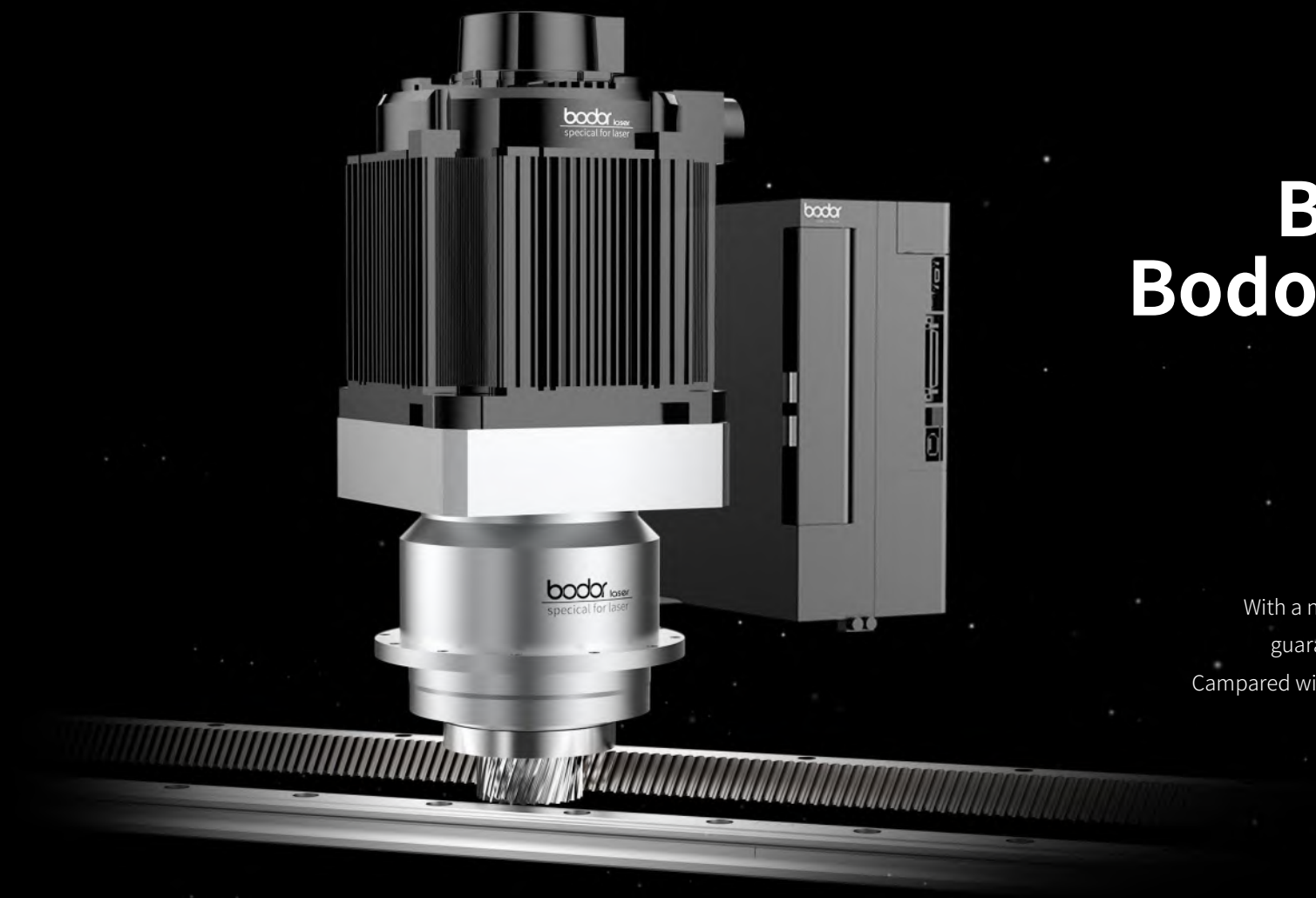

Bodor self-developed BodorDriver drive system

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.

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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.

(optional)

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Bevel cutting of various shapes

With bevel cutting module, bevel cutting can be completed during feeding, saving processing procedures and rudcing cost.

(optional)

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Bodor laser scanning cutting machine poineers
a new catagory in the industry

dare to be the fist to break the rules
transform and upgrade Chinese industry as a pathfinder.

What is scanning cutting?

Overturns the coventional processing method of laser cutting since its inception, upgrading static spot cutting to dynamic spot cutting, with the spot traveling 30 meters for every 1 meter cut, tremendously improving the efficiency of laser energy absorption by the processed material.

3 innovative features of Scanning cutting

Faster: cutting speed up to 200% increase

Thicker: cutting thickness up to 150% increase

No fear of high reflection: During scanning cutting, the laser beam comes at tilted angle, which significantly reduces back reflection for highly reflective materials batch cutting

This is another technological breakthrough in the history of human metal cutting tools since the application of laser cutting for decades.

Conventional laser cutting | Laser scanning cutting | Laser scanning cutting principle

(optional)

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Automated device

iTower

Single module torage tower system

(optional)

Automated device

iTrans

Autmated loading and unloading system

(optional)

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Automated device

iTransTower

Storage tower system

(optional)

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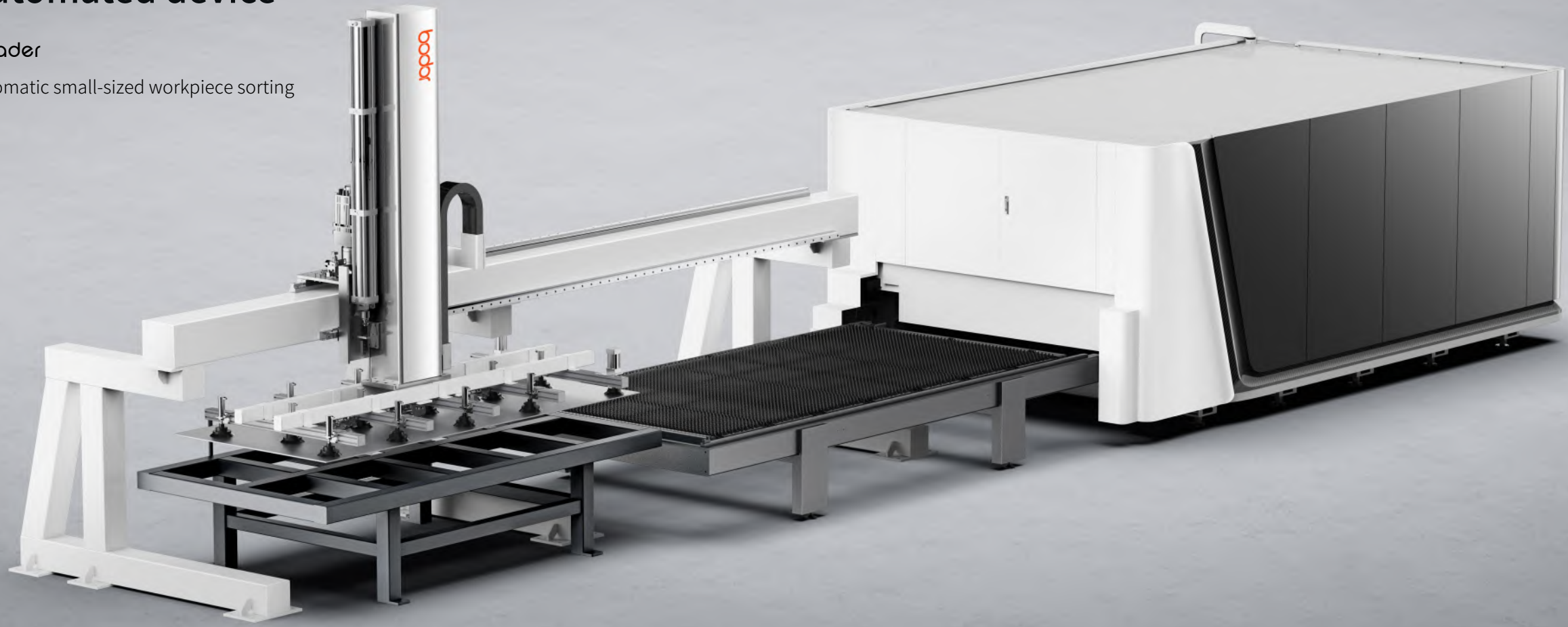
Automated device

iLoader

Automatic small-sized workpiece sorting



(optional)

Automated device

iLift

Beck bed top loading device

(optional)

Automated device

iLoader eco

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P3

3048mm*1524mm

P4

4000mm*2000mm

P6

6500mm*2500mm

P12

12500mm*2600mm

A wide range of machinable sheets format for your selection

bodor
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P series Function&parameter List

	P3	P4	P6	P12
Working area	3048mm*1524mm	4000mm*2000mm	6500mm*2500mm	12500*2600mm
Max. linkage speed	200m/min	200m/min	200m/min	200m/min
Max. acceleration	4.0 G	4.0 G	2.8 G	2.8 G
One-click processing	☑	☑	☑	☑
Remnant Typesetting	☑	☑	☑	☑
SpaceEye	☑	☑	☑	☑
Visual collision detection	☑	☑	☑	☑
Automatic nozzle changer	☑	☑	☑	☑
Air pressure intelligent control	☑	☑	☑	☑
Automatic adjustment of cutting gas pressure	☑	☑	☑	☑

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Ultimate high speed and intelligent operation

bodor

Dare to dream