

# P series

Sheet fiber laser cutting machine  
High performance model



Ultimate high speed and  
intelligent operation





# P Series

csi | bodor  
CNC PLASMA CUTTERS & LASER CUTTING

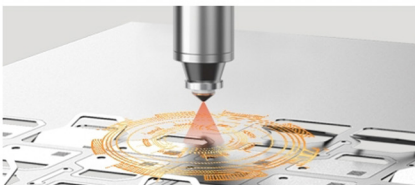
General best performance enclosed exchange platform laser cutting machine



## Space Eye

Edge seek in 3s;

Simple and easy principal focus recognition without manual interference, requiring just one click to set to achieve automatic cutting, recognition, and compensation.



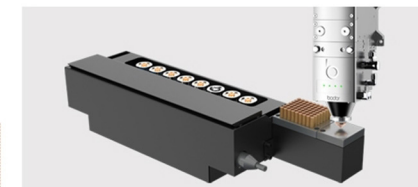
## Vision-sensing Anti-collision

Multi-dimension alert to guarantee safe processing;

Dual protection methods in a real sense, Reducing injury rates for customers.

## Active Anti-collision Function

Fiber laser heads are able to detect jutting obstacles to effectively reduce the damage rate and save the maintenance cost of a laser cutter.



## Automatic Nozzle Changer

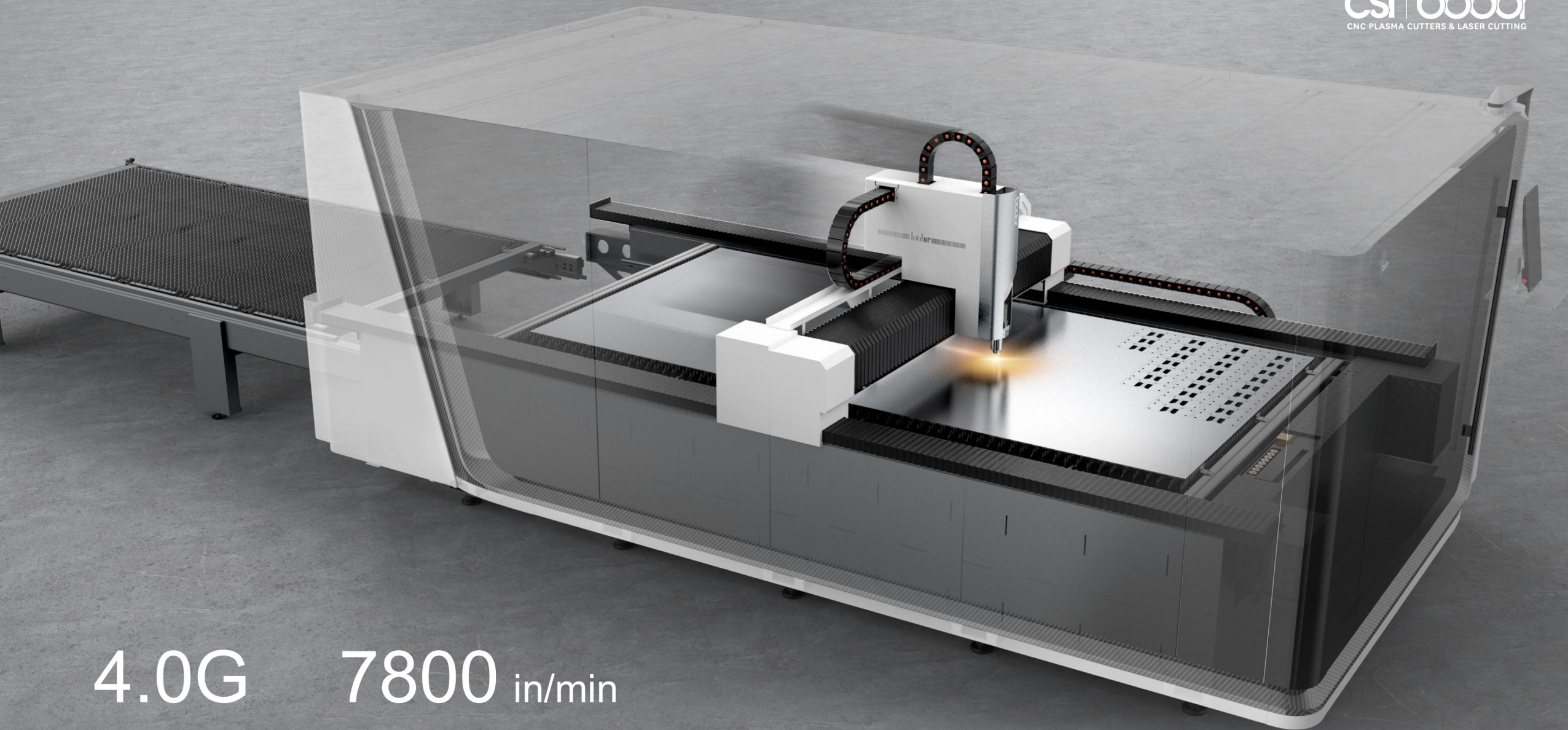
Accurate control system is used to automatically replace nozzles based on material and thickness. Sophisticated transmission system provides reliable replacement precision and stability.

## BodorThinker

Robust compatibility and processing ability with user-friendly system interface keep reliable and stable cutting performance.







4.0G

Maximum acceleration

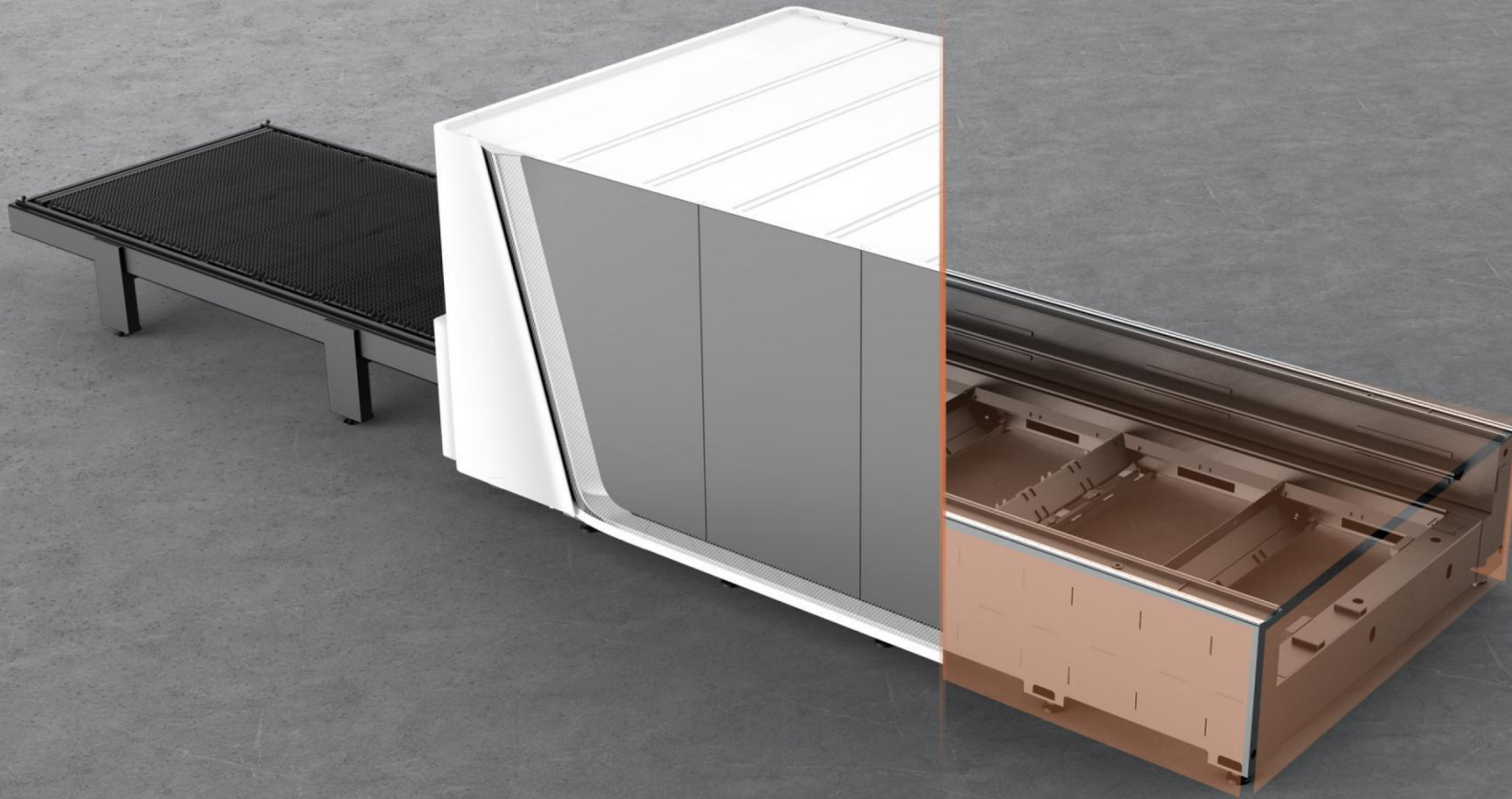
7800 in/min

Maximum drive speed



# The latest 2nd generation mortise and tenon welded bed

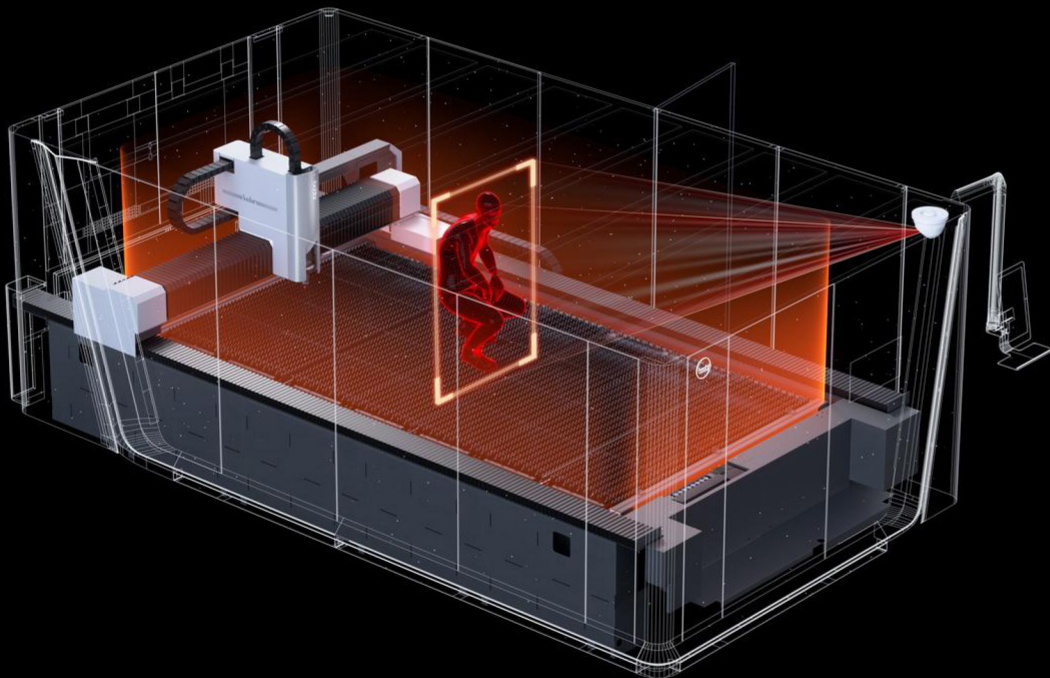
Newly upgraded second-generation mortise and tenon welded bed, the optimal stress point and support structure are achieved by finite element analysis. The deformation during loading is significantly reduced, compared with the first-generation mortise and tenon welded bed, ensuring long-term stable machine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



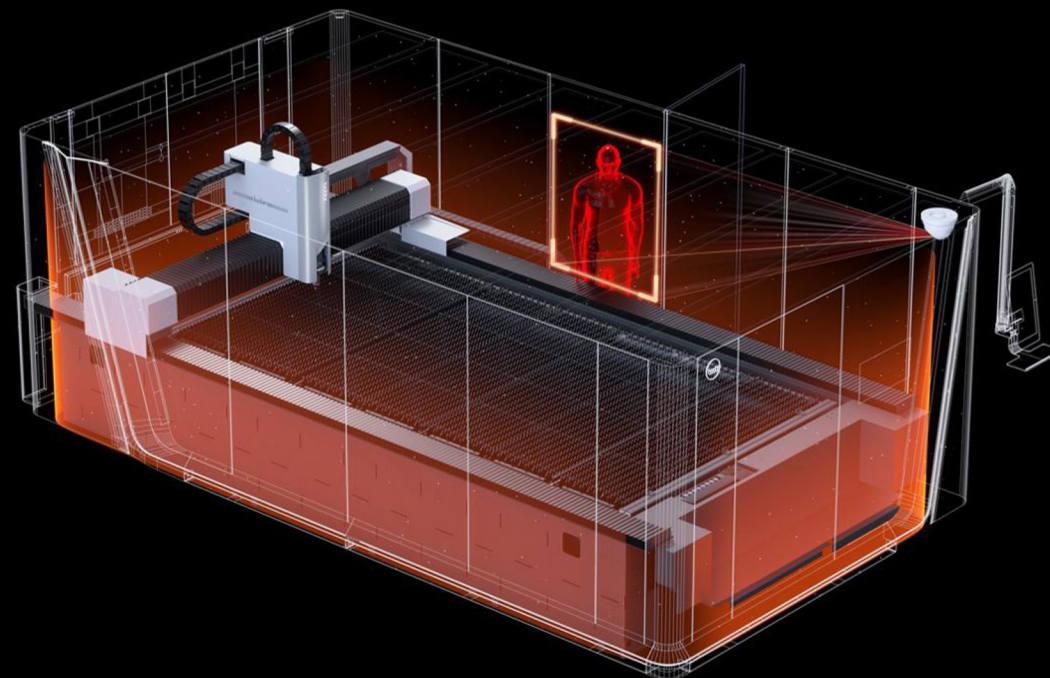
Available for all P-Series models



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.

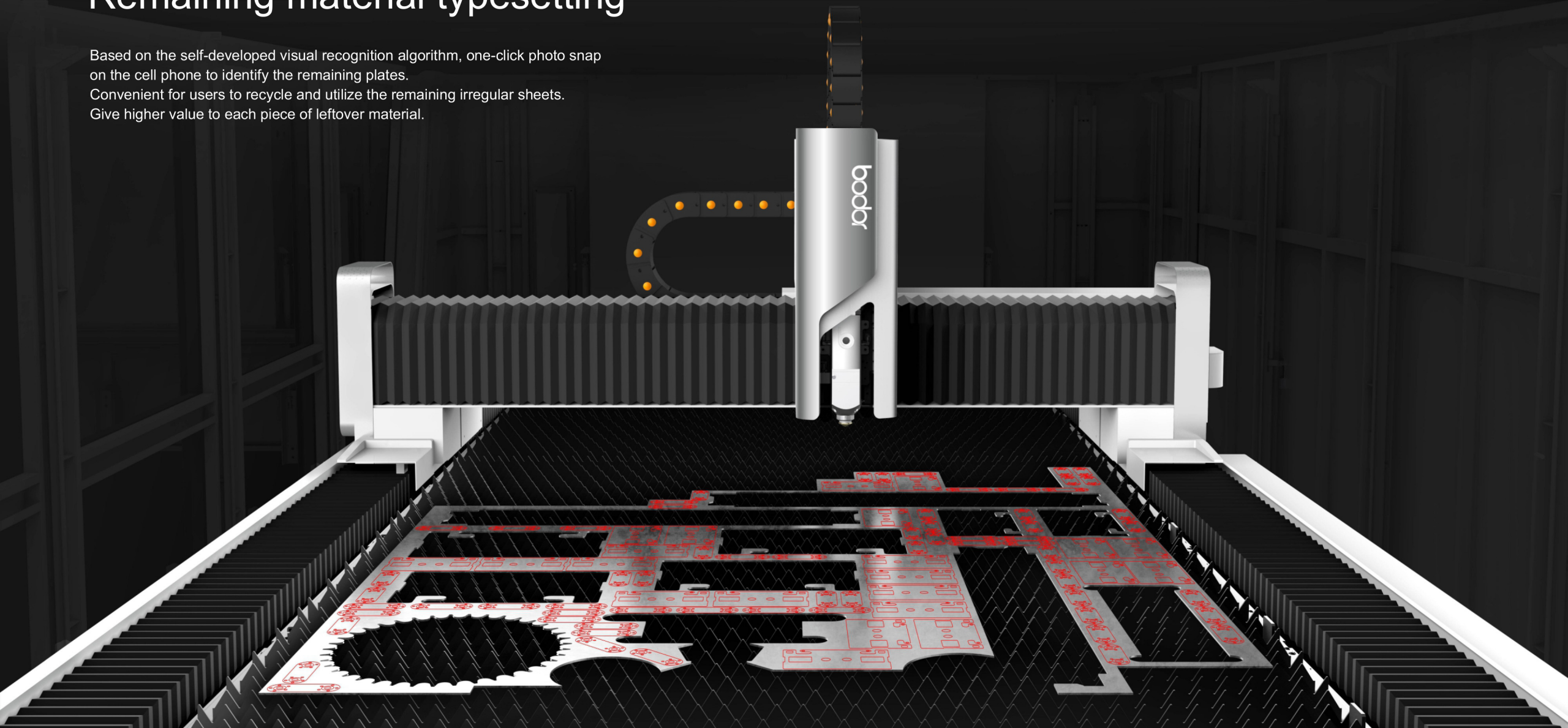


Visual anti-collision function ensures safe operation of the equipment and worry-free production.



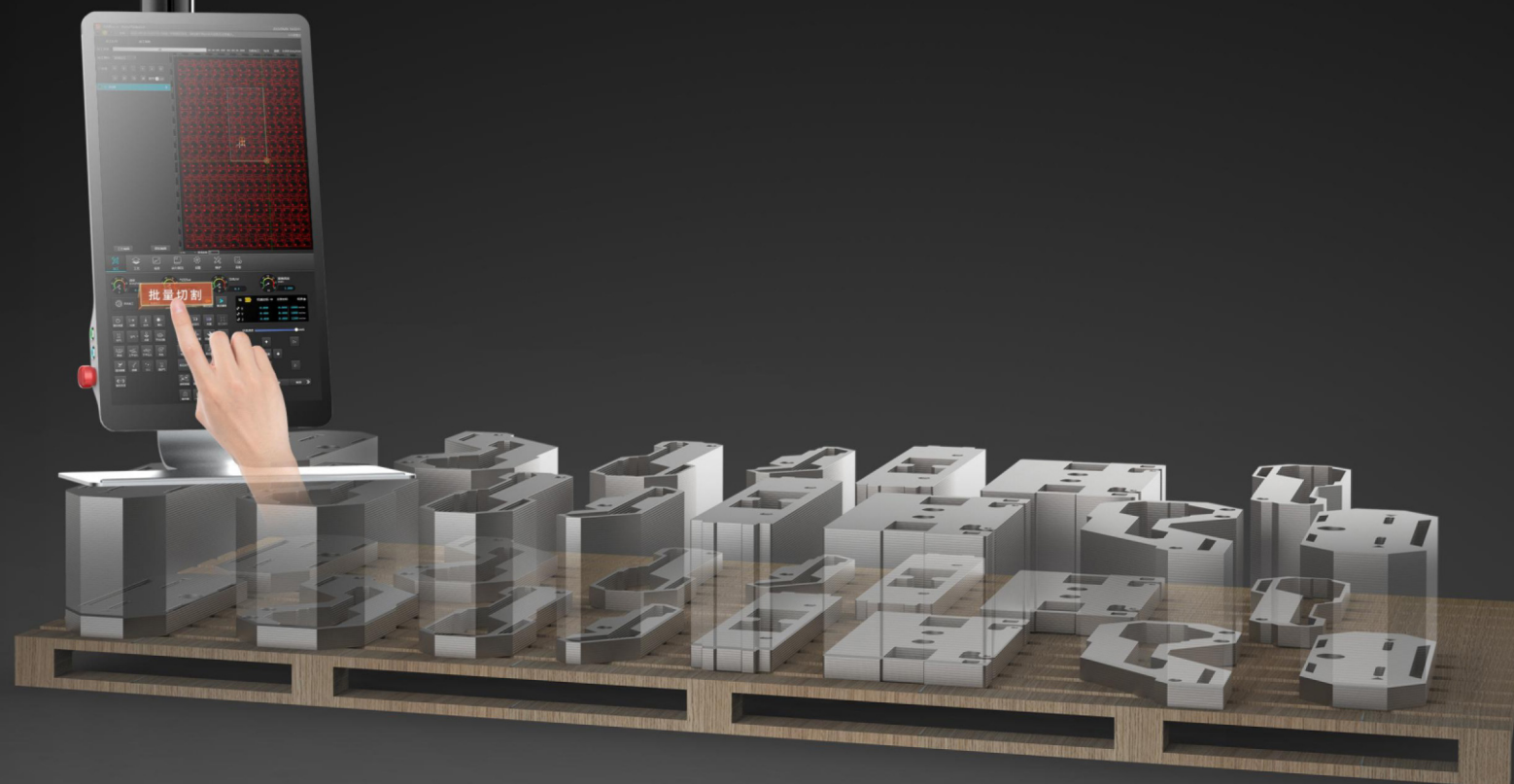
# Remaining material typesetting

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.



# 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 manual labor during batch cutting and improving the machine processing efficiency.



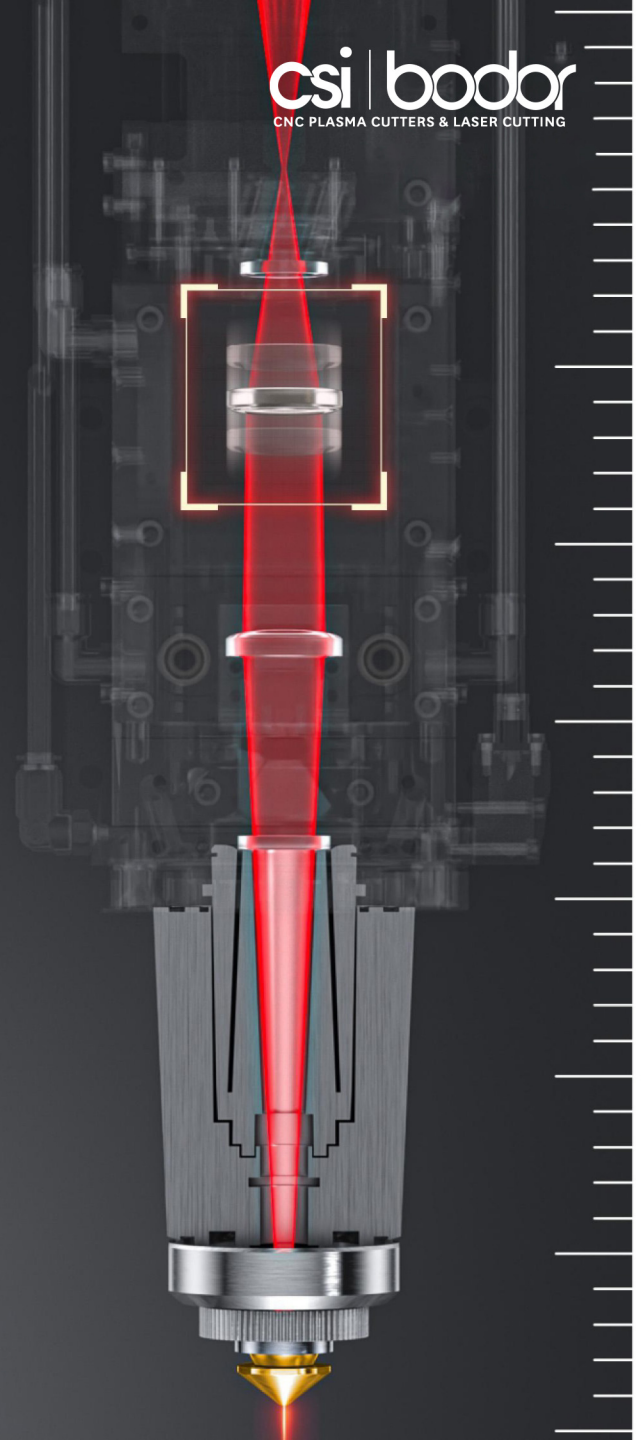




## Thick plate over-heat compensation

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

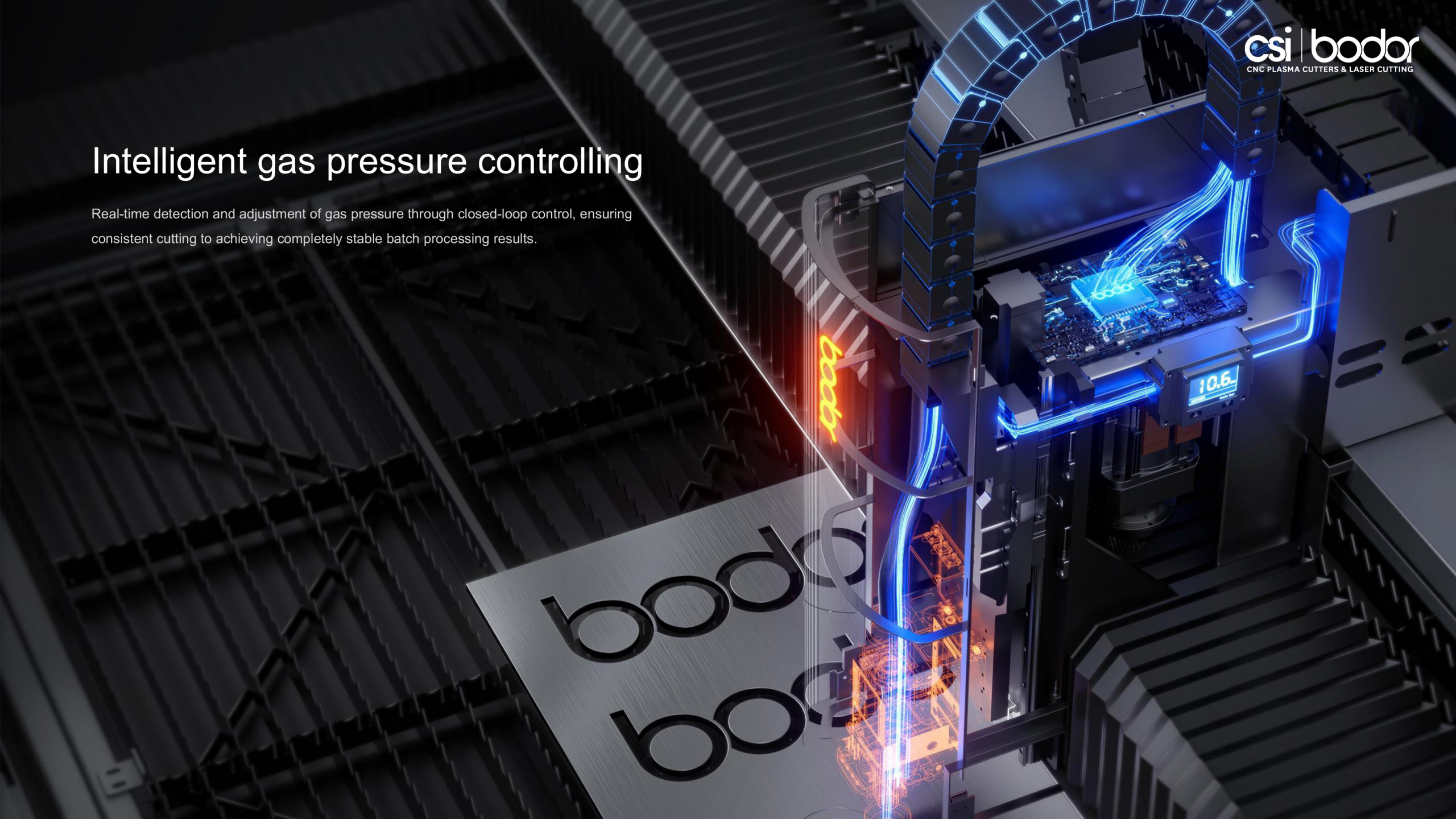
Ensures long and stable cutting of medium and thick plates without the need for manual intervention



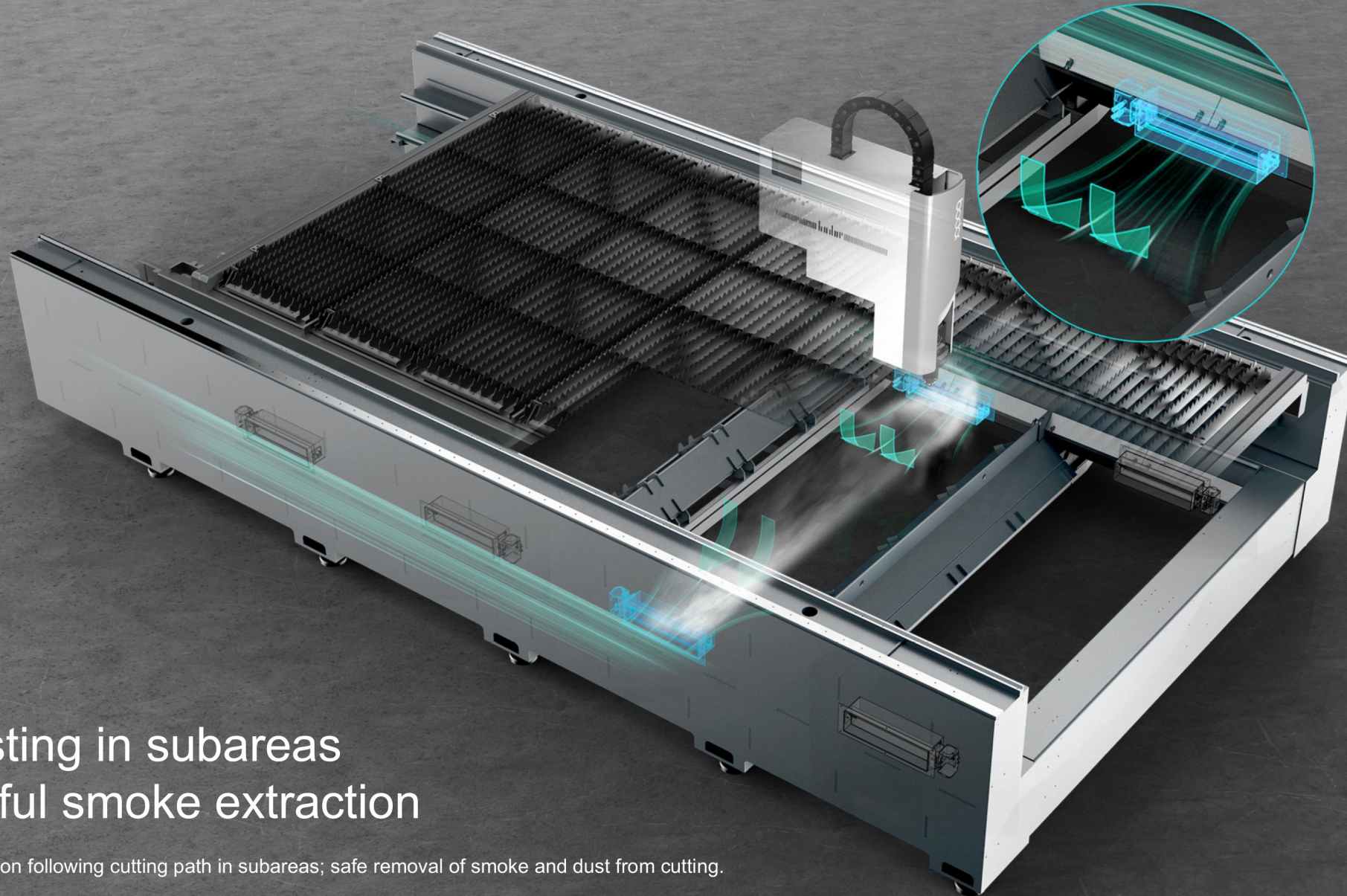


# Intelligent gas pressure controlling

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.



## Laser head **active obstacle avoidance**

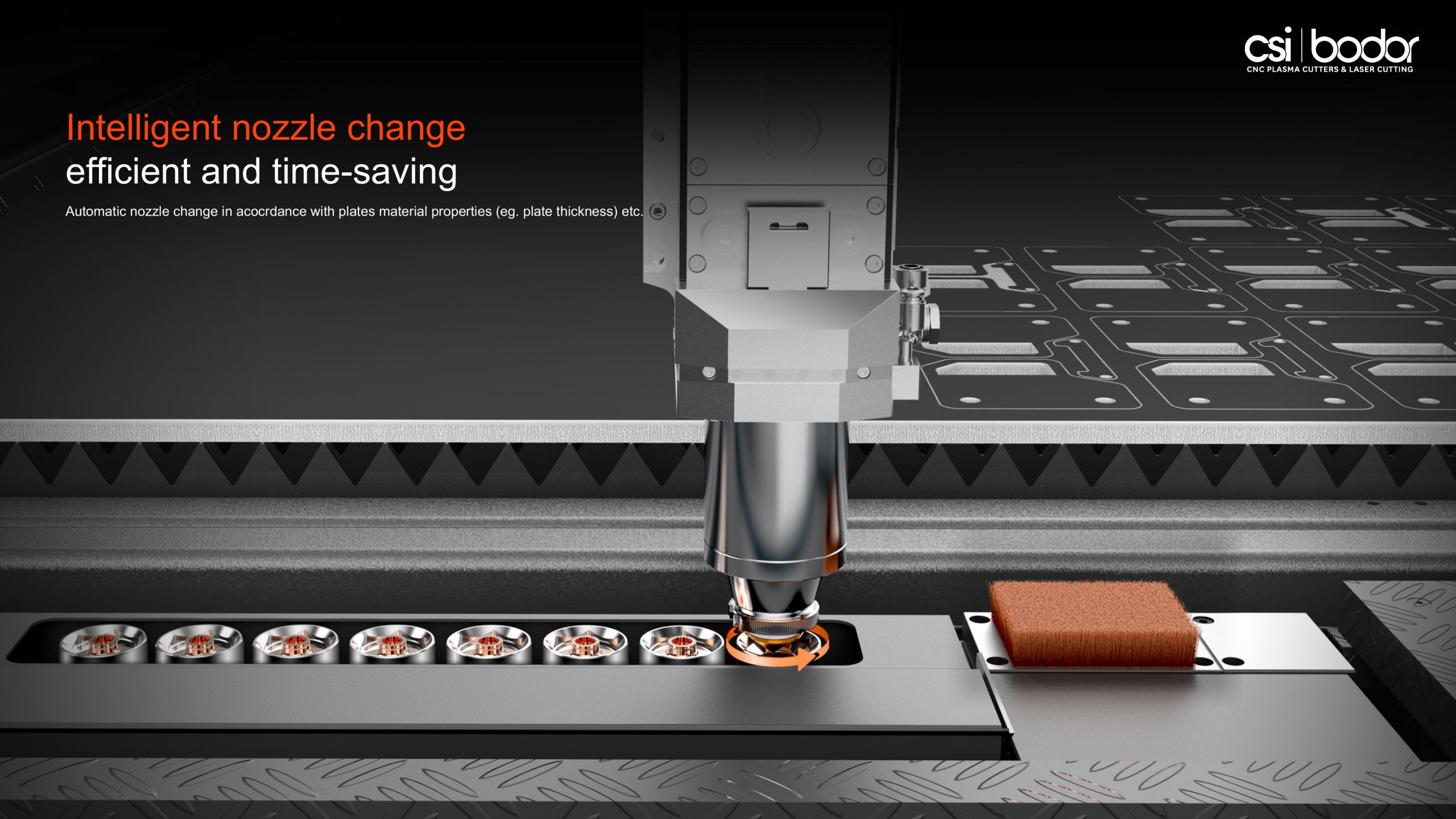
Self-developed servo-following sensing and paths avoidance algorithm, significantly  
reduce the risk of laser head collision caused by workpiece warping



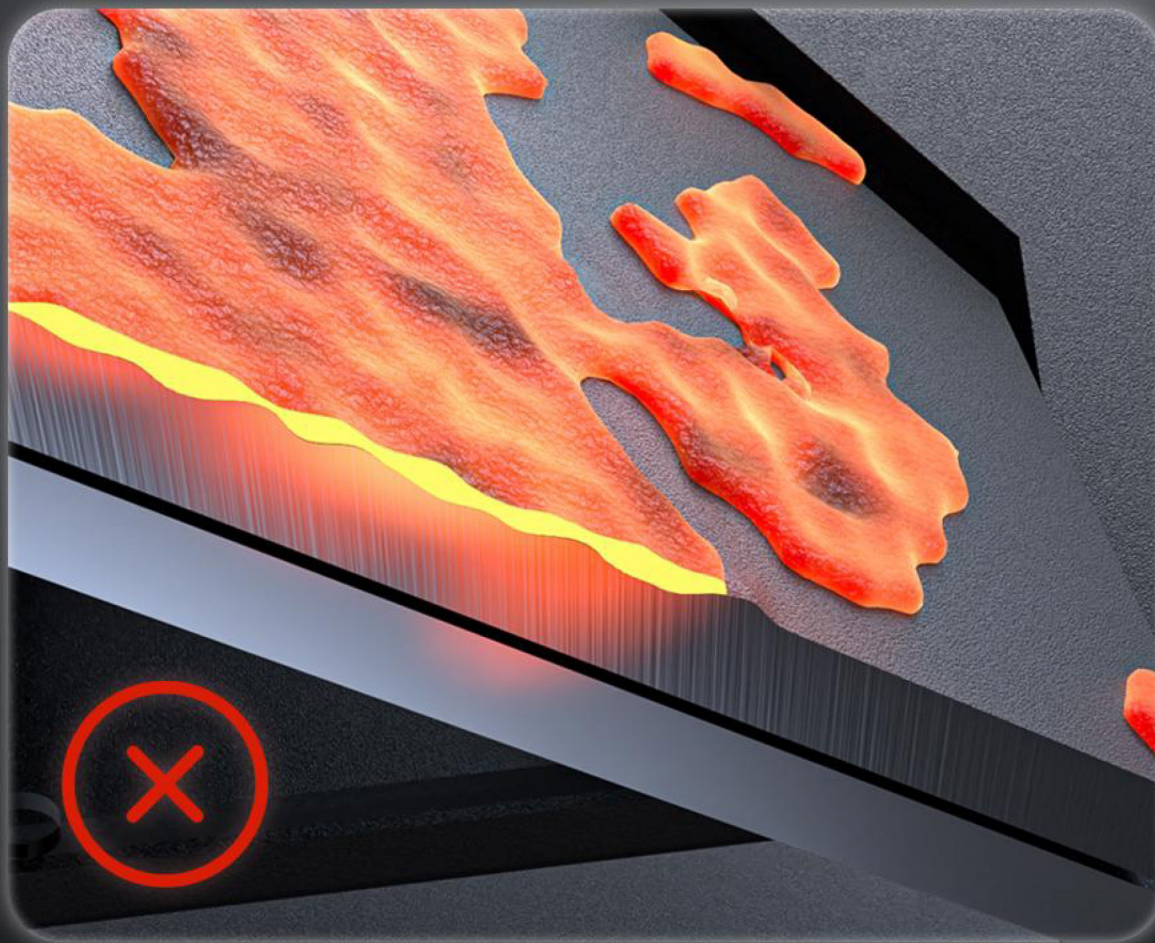


## Intelligent nozzle change efficient and time-saving

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







## 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.



# 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





## Modular table

Pioneering innovation of module structured table, reducing maintenance costs.



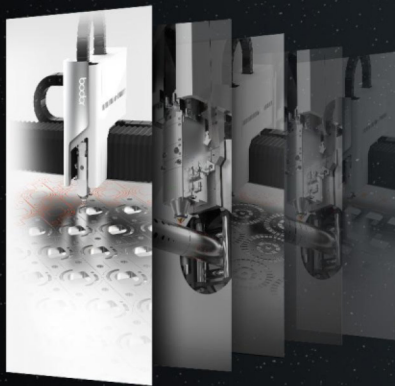
Bodor

# Six-in-one laser technology full ecology

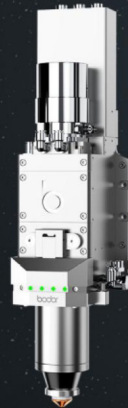
Fully self-developed BodorThinker control system, BodorNest nesting software, BodorGenius laser head and BodorPower laser source matched with MES system and Bodordrive drive system, enabling stable operation of the machine, with premium quality cuts and incredible working efficiency.



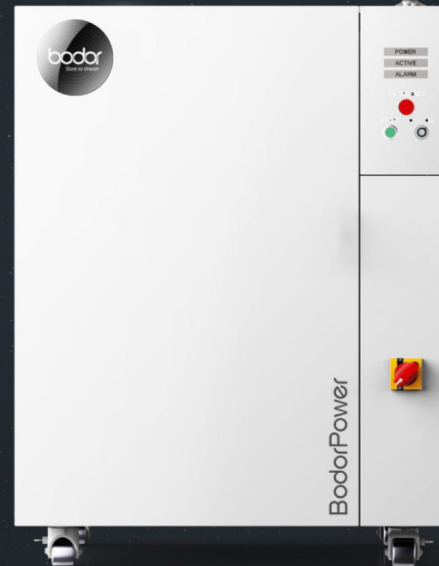
BodorThinker



BodorNest



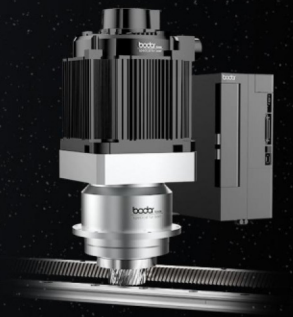
BodorGenius



BodorPower



BodorMES



BodorDrive



# 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 rang ing 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.

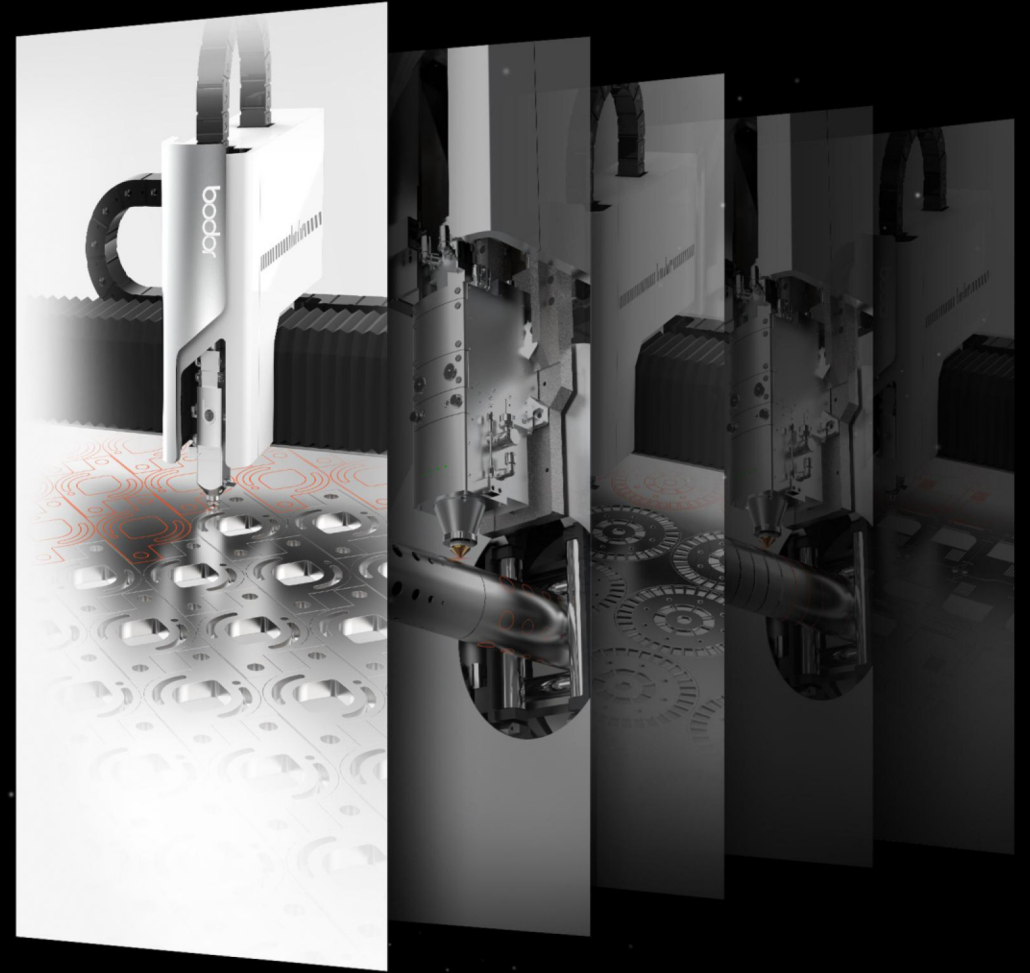
The autonomous operating software matched with self-developed hardware enables the smooth running of the equipments.



## 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 BO DORCAM 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-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.

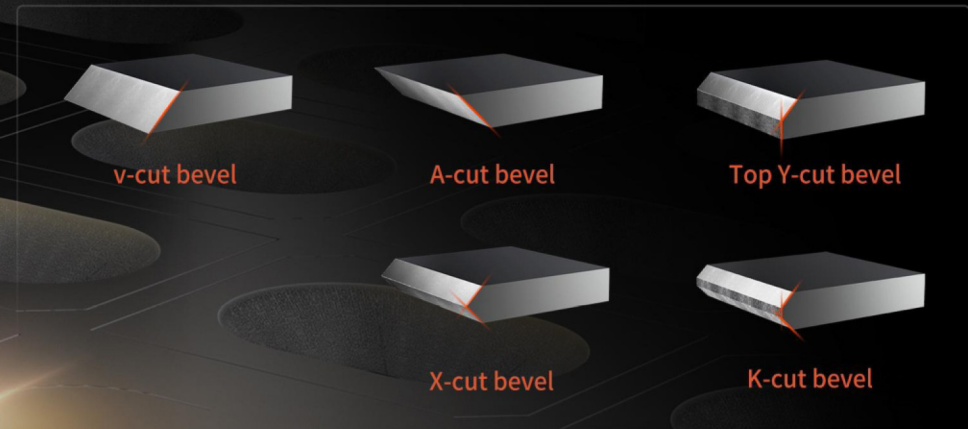
Reset the aesthetic standard in the era of intelligence and IOT.



(optional)

## Bevel cutting of various shapes

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





(optional)

# Bodor laser scanning cutting machine pioneers a new category in the industry

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

## What is scanning cutting?

Overturns the conventional 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.

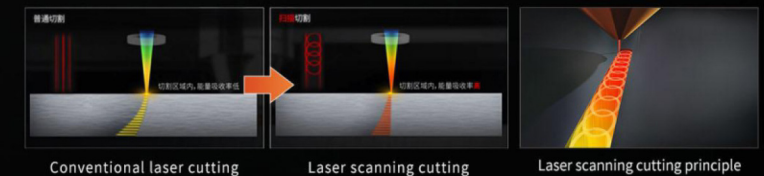
### 3 innovative features of Scanning cutting

**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.

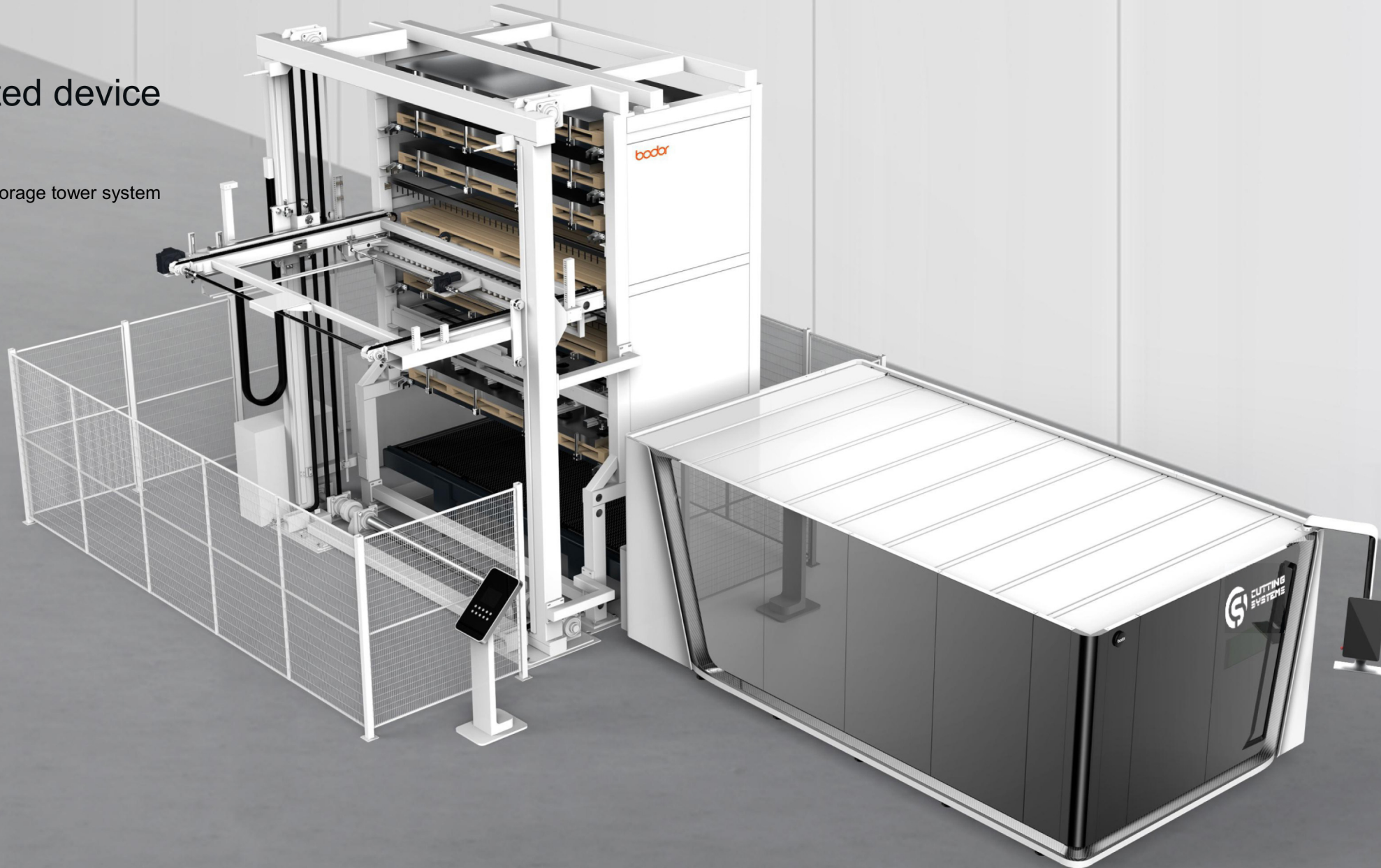


(optional)

## Automated device

iTower

Single module storage tower system





(optional)

## Automated device

iTrans

Automated loading and unloading system





(optional)

## Automated device

iTransTower  
Storage tower system



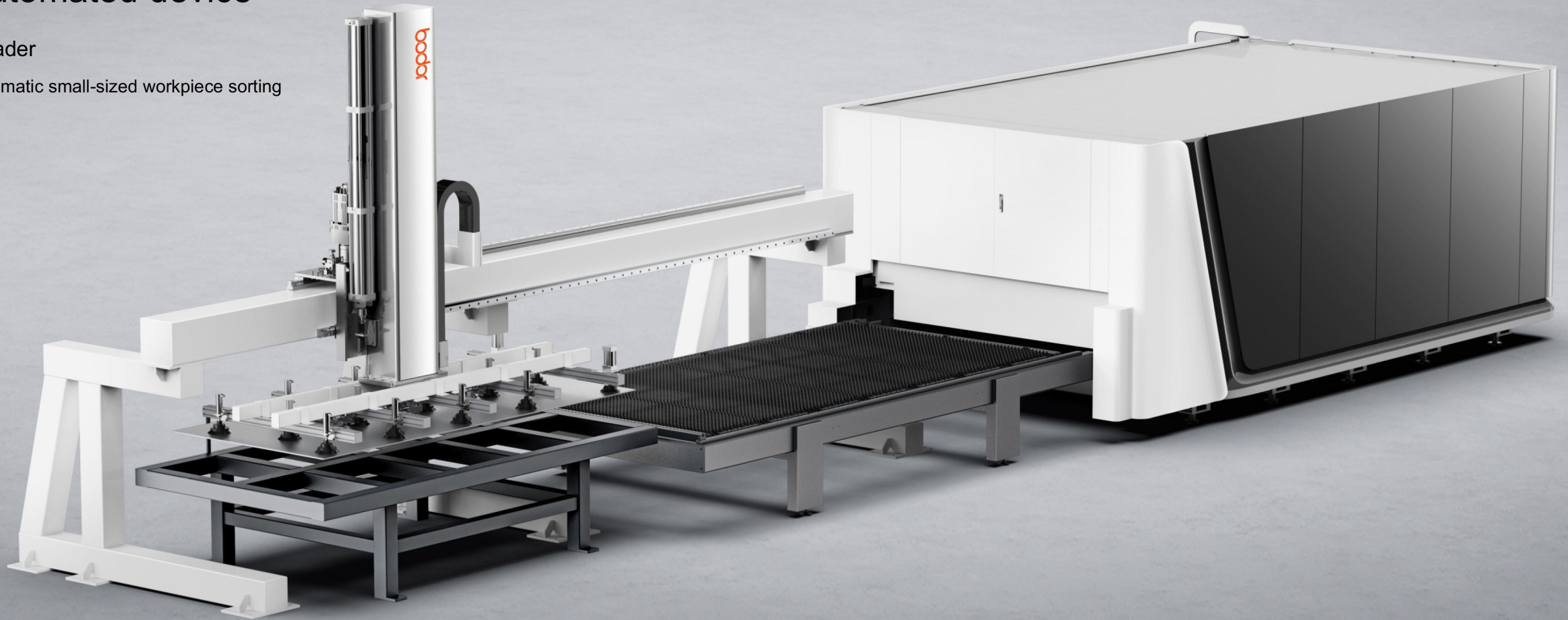


(optional)

## Automated device

iLoader

Automatic small-sized workpiece sorting



(optional)

## Automated device

iLift

Beck bed top loading device



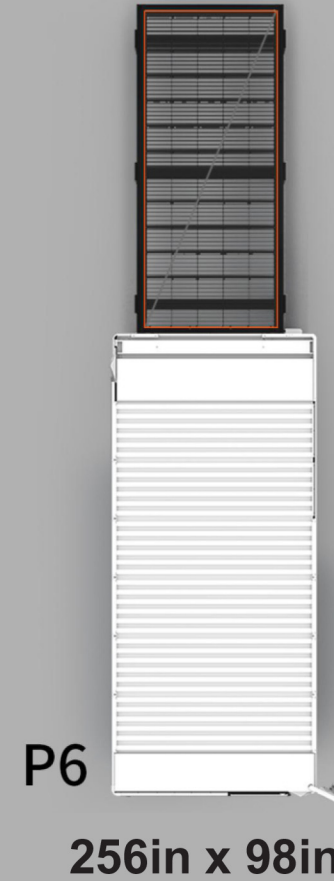
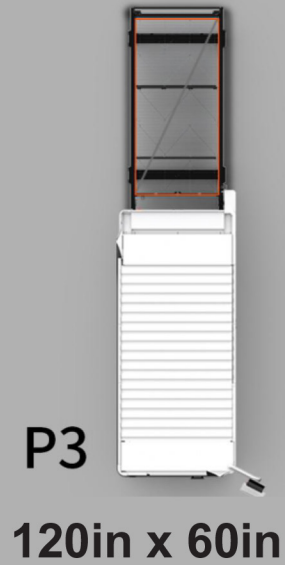


(optional)

Automated device

iLoader eco





A wide range of machinable sheets format for your selection





## P series Function&parameter List

	P3	P4	P6	P12
Working area	120in x 60in	157in x 78in	256in x 98in	492in x 102in
Max. linkage speed	7800 in/min	7800 in/min	7800 in/min	7800 in/min
Max. acceleration	4.0 G	4.0 G	2.8 G	2.8 G
One-click processing	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Remnant Typesetting	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
SpaceEye	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Visual collision detection	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Automatic nozzle changer	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Air pressure intelligent control	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Automatic adjustment of cutting gas pressure	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>



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