T-series

Fiber laser metal tube cutting machine

High performance model

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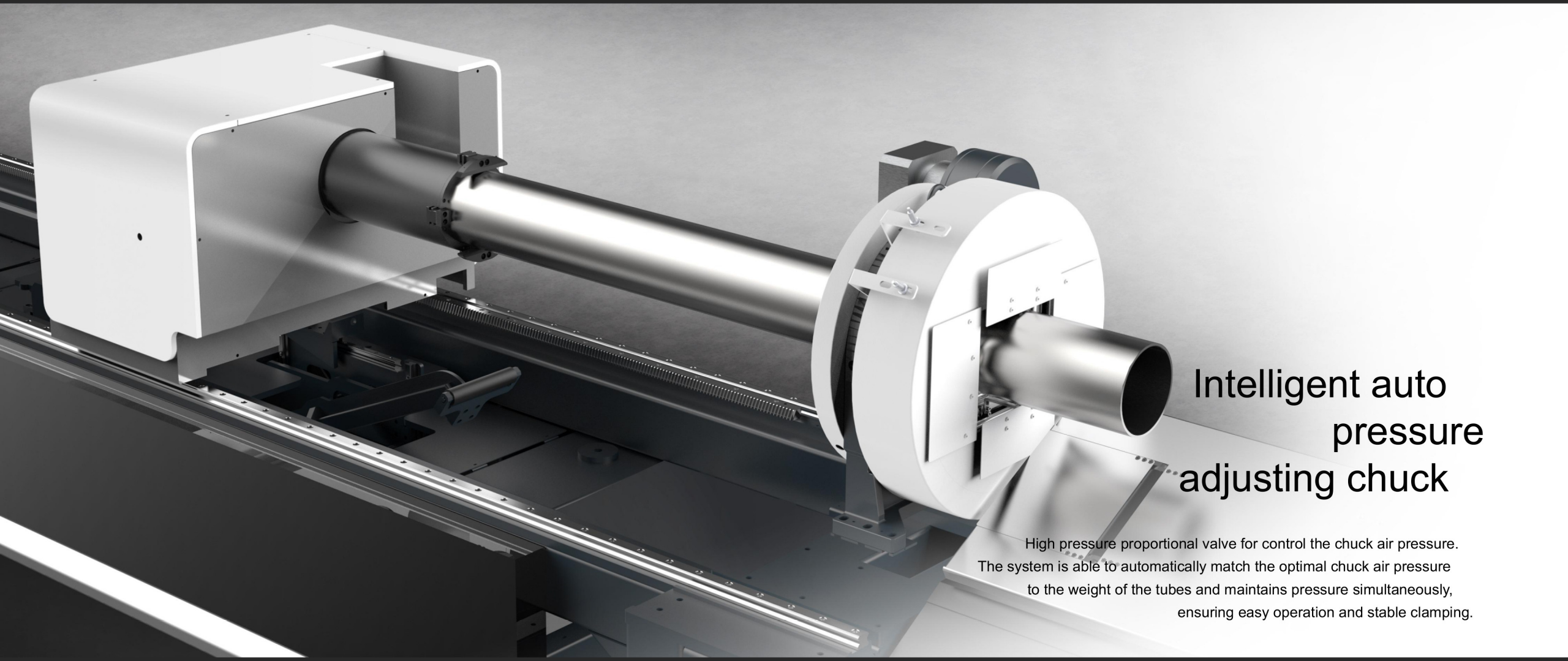
3937 in/min

Maximum feeding speed

120 r/min

Maximum chuck speed

Adopt high performance bus servo motor to achieve advanced dynamic performance and greatly improve user's processing efficiency, ensuring every second of processing time is creating value.



Intelligent auto pressure adjusting chuck

High pressure proportional valve for control the chuck air pressure.
The system is able to automatically match the optimal chuck air pressure to the weight of the tubes and maintains pressure simultaneously, ensuring easy operation and stable clamping.

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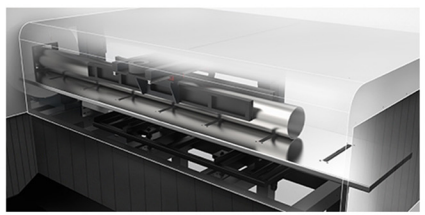
T Series

All-round fiber laser metal tube cutting machine

Adjustable Combination Roller

The follow-up rollers support tubes during cutting to guarantee tube cutting stability. The snail rollers prevent tubes from rocking from side to side, which effectively increases cutting precision.

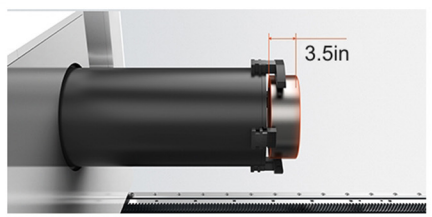


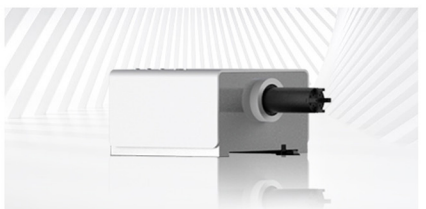
Servo Follow-up Unloading Support

The servo follow-up unloading support moves up and down according to motion of tubes and prevents them from rocking from side to side, which effectively increases cutting precision.

Minimal Tube Wastes

Thanks to the unique structure design, T230 V2.6 reduces length of tube wastes to 3.5in , greatly saving material costs for customers.





Penumatic Chuck

Cutting machine clamping becomes convenient, easy and fast, with 3 seconds at the soonest to clamp and high repeat precision.

Bodor Thinker

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

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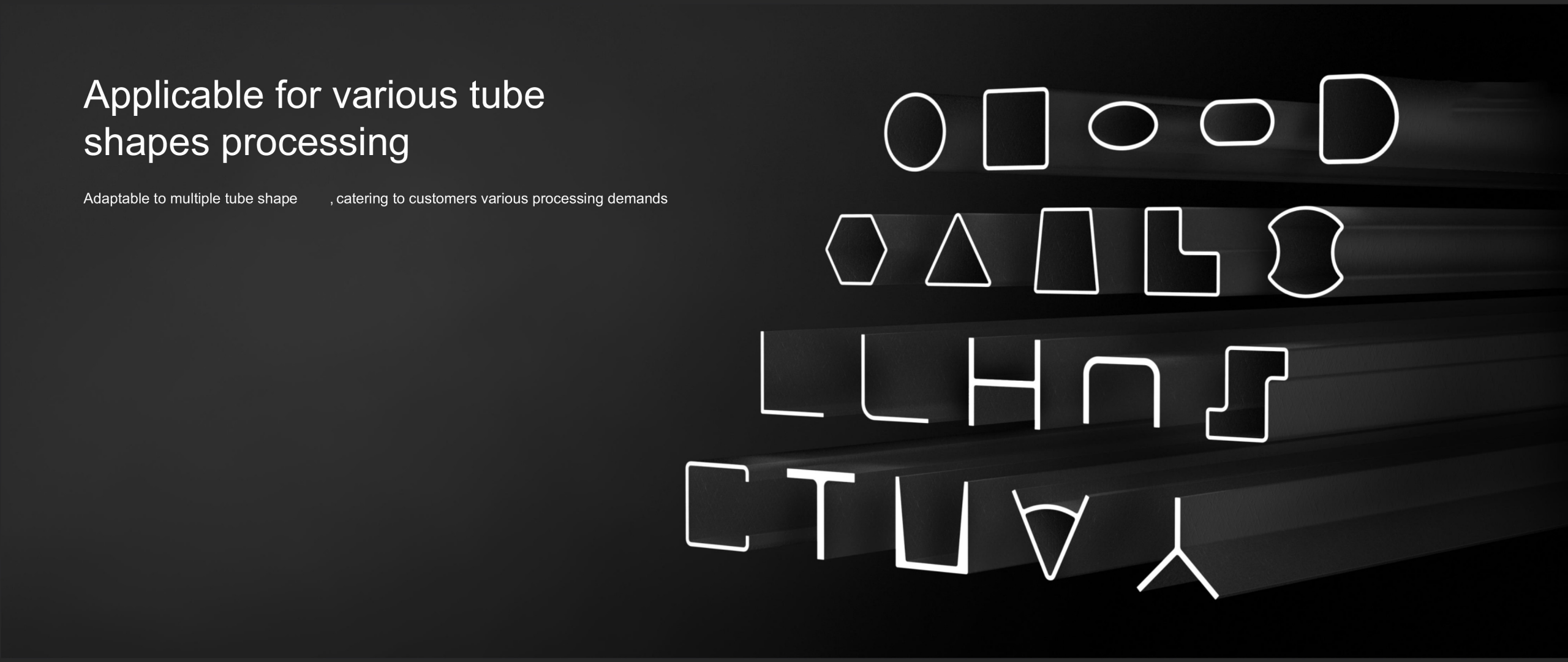
Applicable for various tube shapes processing

Adaptable to multiple tube shape , catering to customers various processing demands



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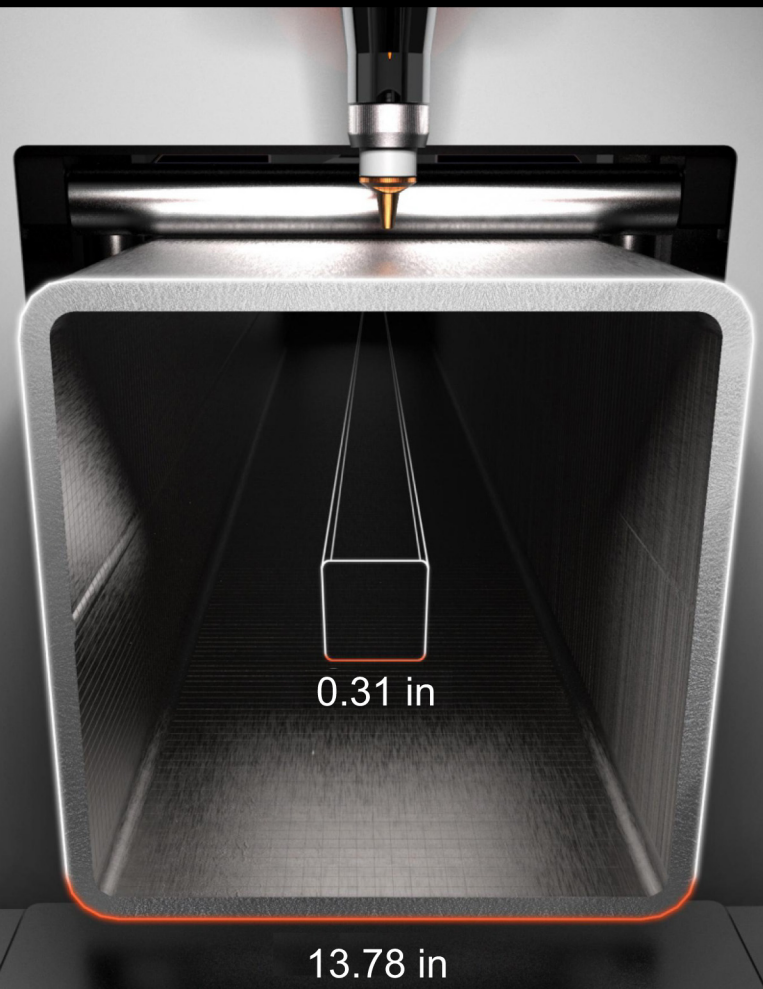
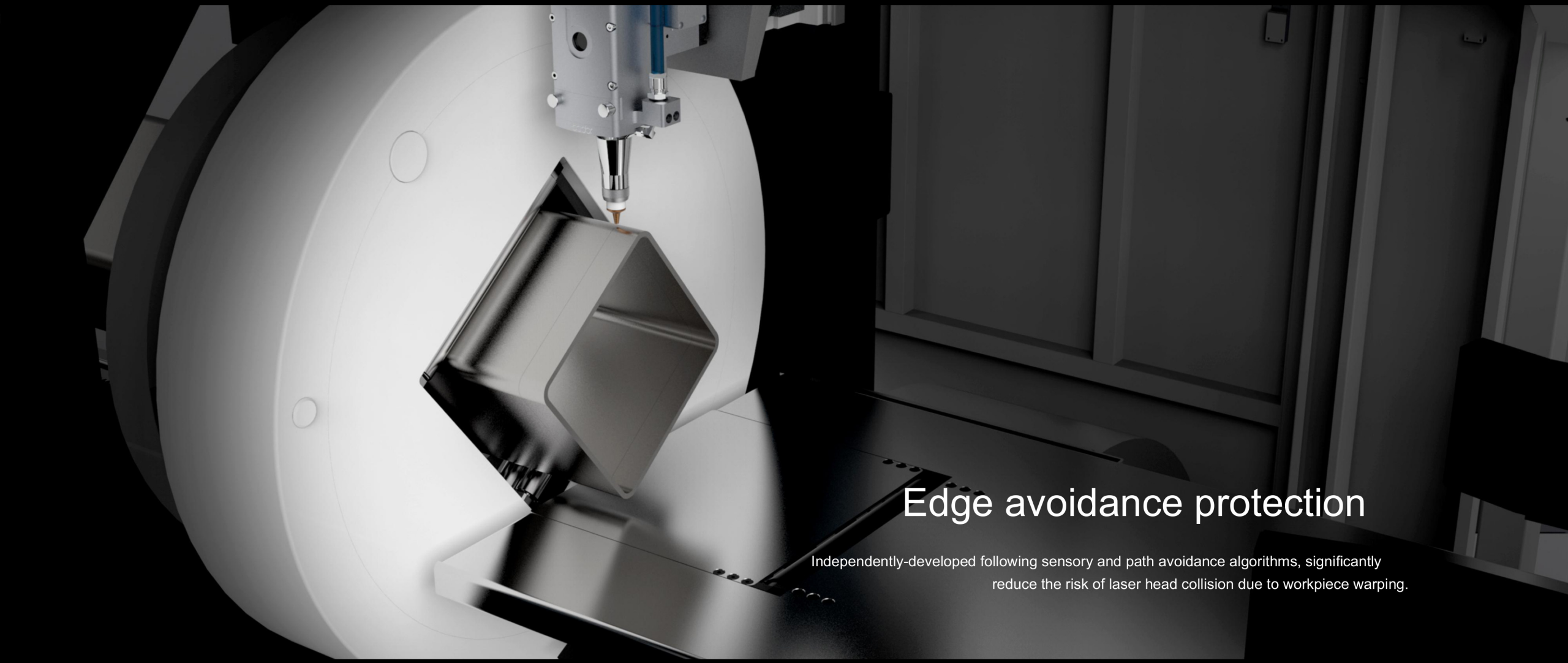
0.31-13.78 in

Ultra large cutting range

Adopting square and round structured chuck, the maximum cuttable round tube diameter is equal to the maximum square tube side length. More processing options.





Edge avoidance protection

Independently-developed following sensory and path avoidance algorithms, significantly reduce the risk of laser head collision due to workpiece warping.

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.

Automatic scraps disposal

The system is able to identify the scraps and the finished workpiece; the receiving structure is able to automatically drop the scrap and finished workpiece into seperate collection areas, saving labor cost

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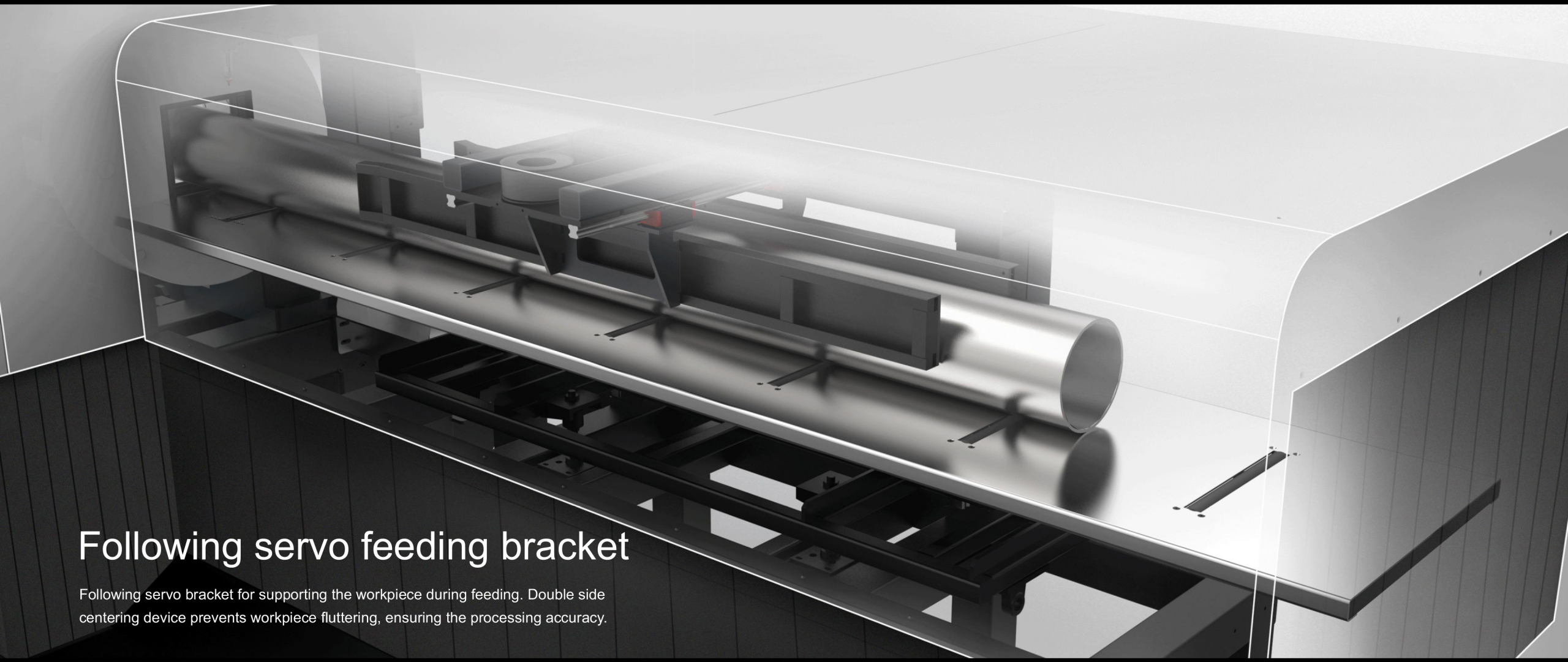
Bodor +

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



Following servo feeding bracket

Following servo bracket for supporting the workpiece during feeding. Double side centering device prevents workpiece fluttering, ensuring the processing accuracy.

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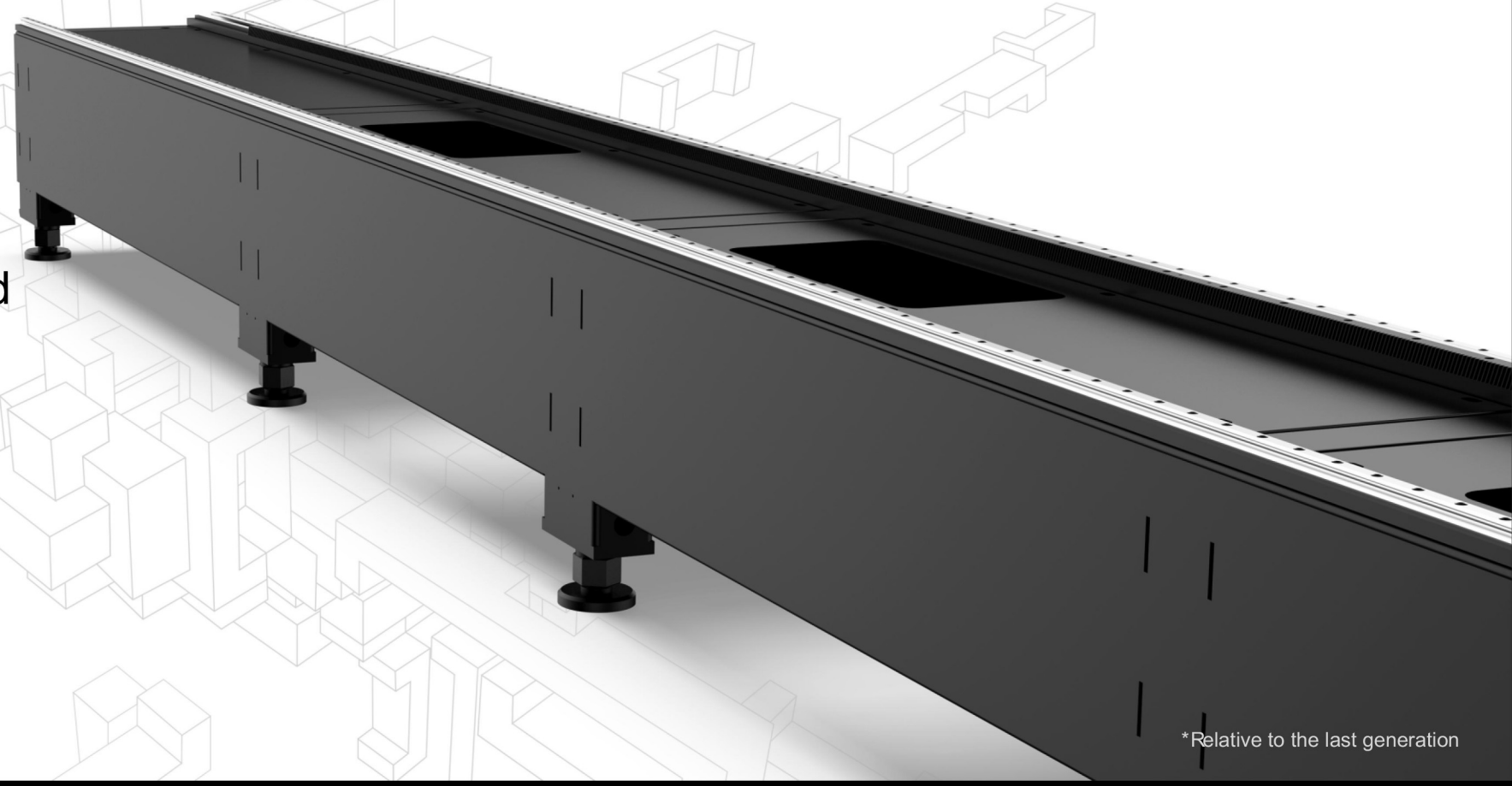
The latest 3rd generation mortise and tenon welded bed



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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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
Central control system

BodorNest
Nesting software

BodorGenius
Laser head

BodorPower
Laser source

BodorMES
Intelligent production management software

BodorDrive
Drive system

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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.

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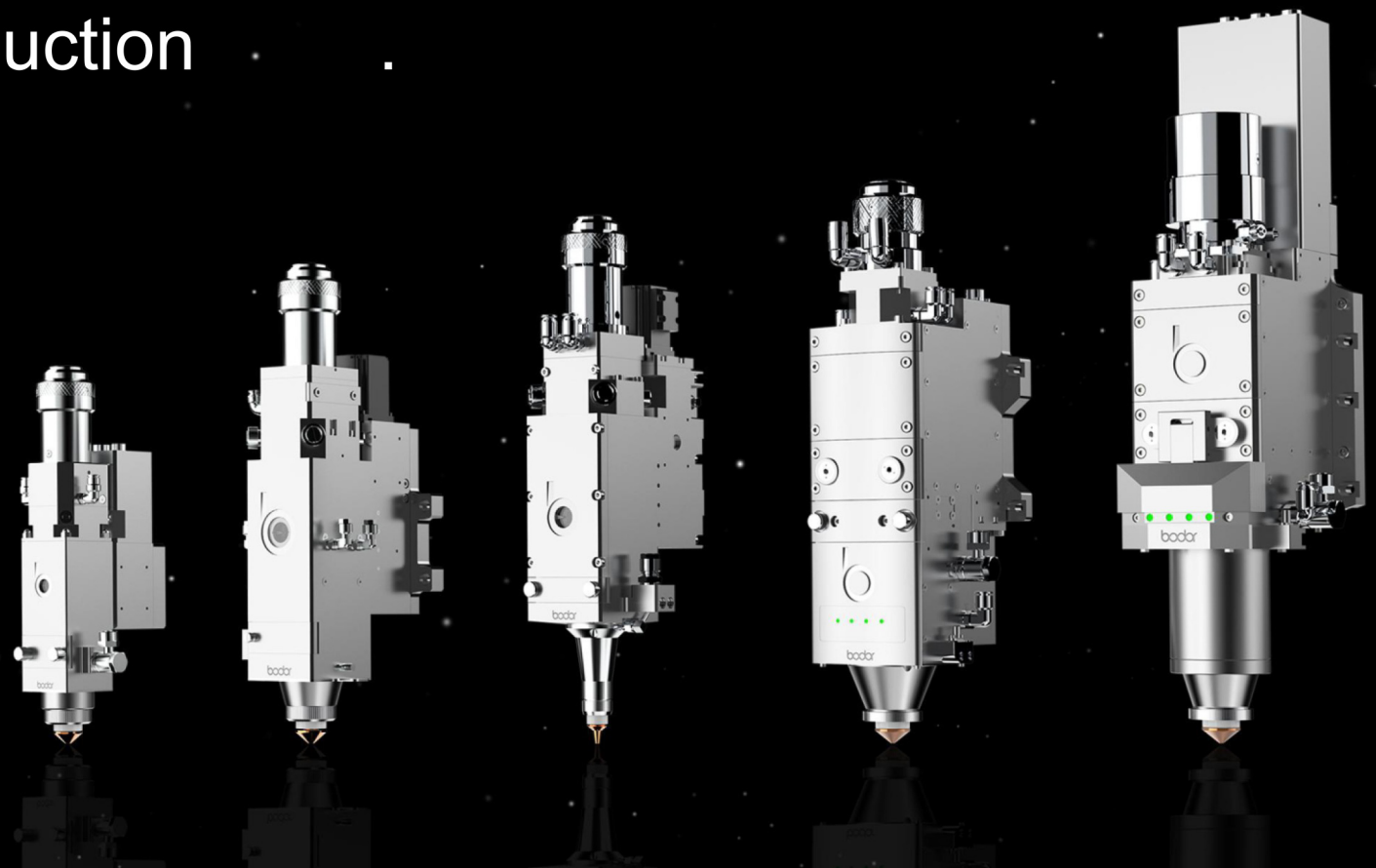
Bo dor has put self-developed laser head in mass production BodorGenius .

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.Bo dor'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."

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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 BO DOR 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.

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

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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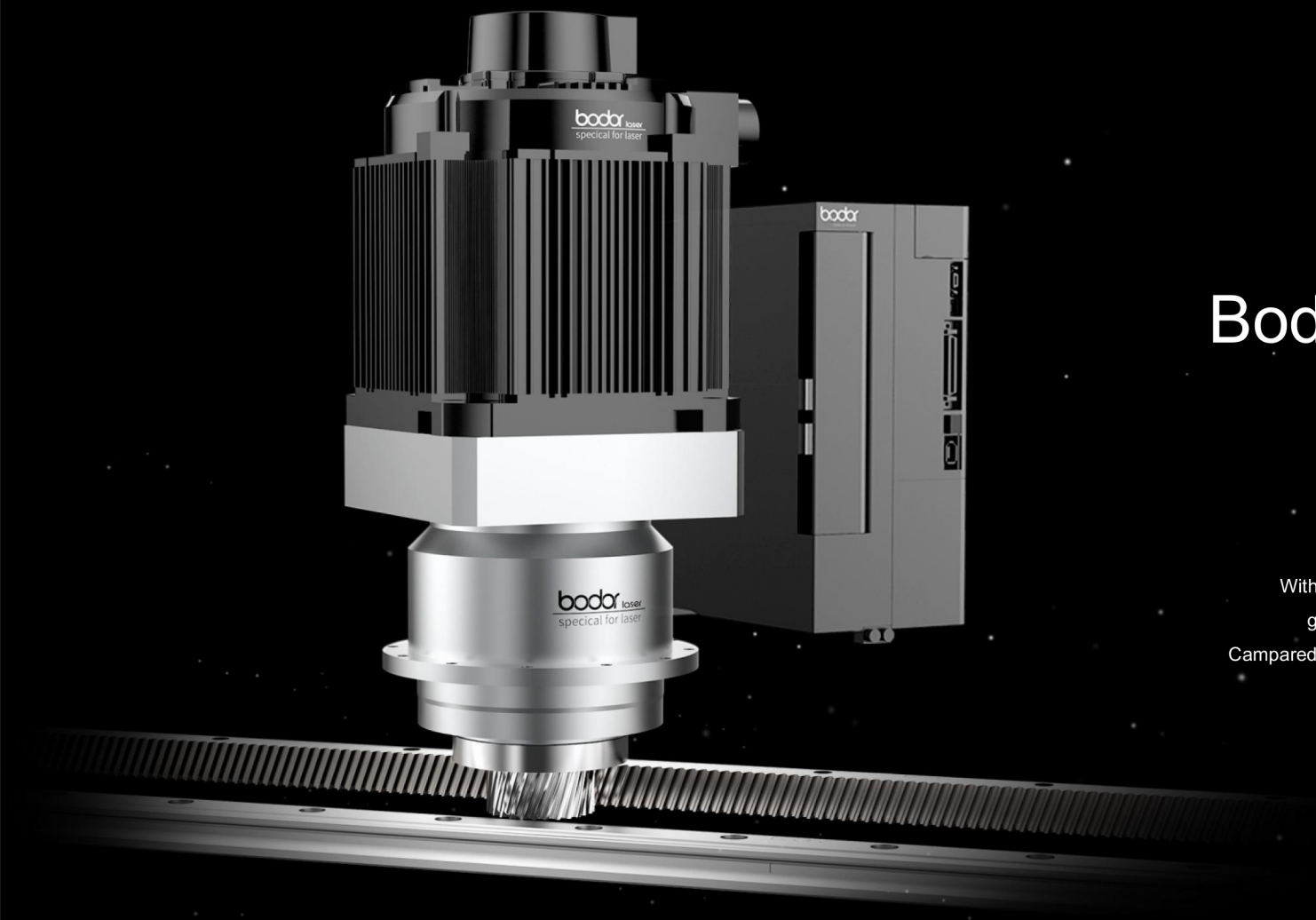

Bodor self-developed BodorDriver drive system

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.

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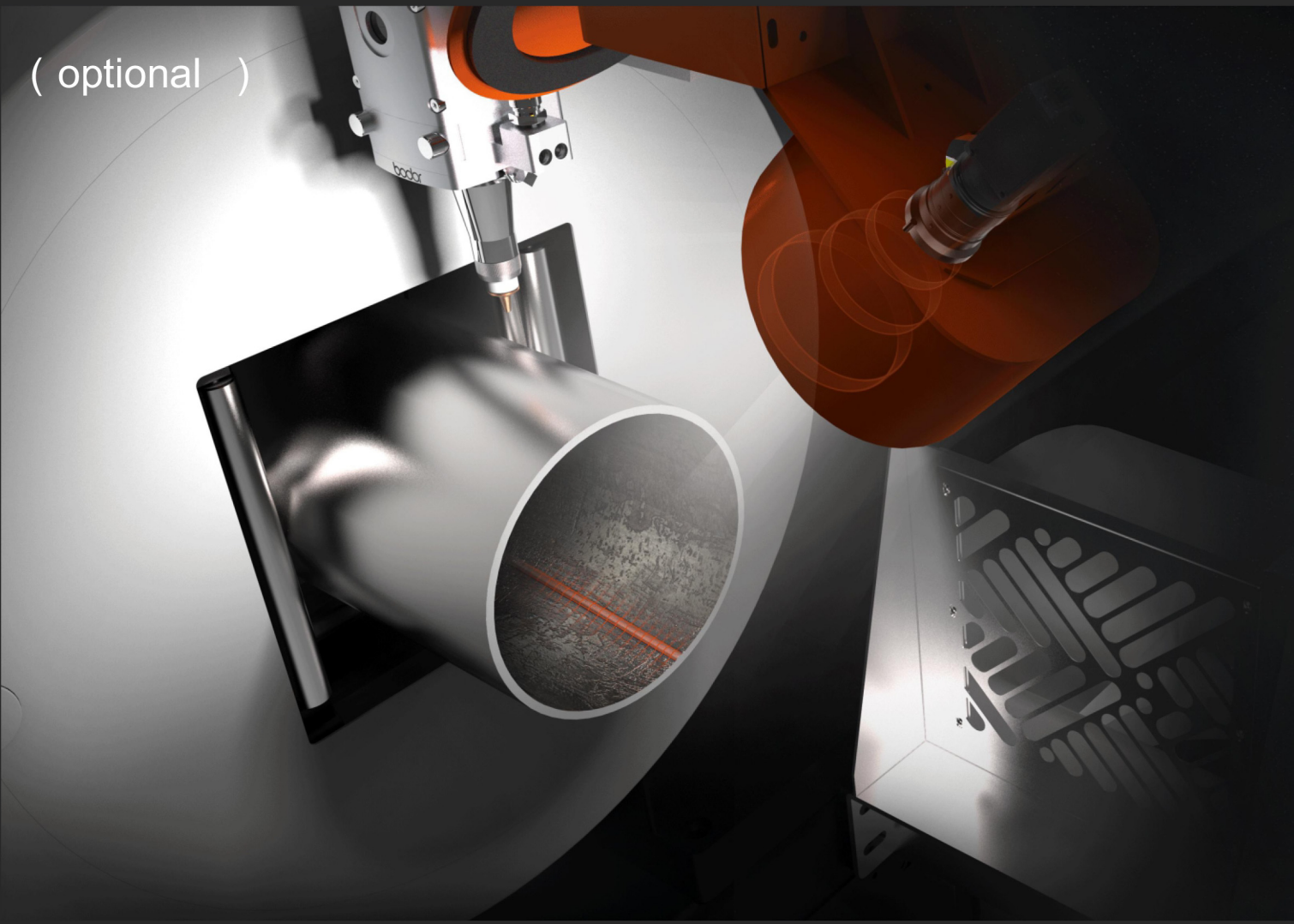
(optional)

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.

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(T230 optional)

T-Trans automatic loading module

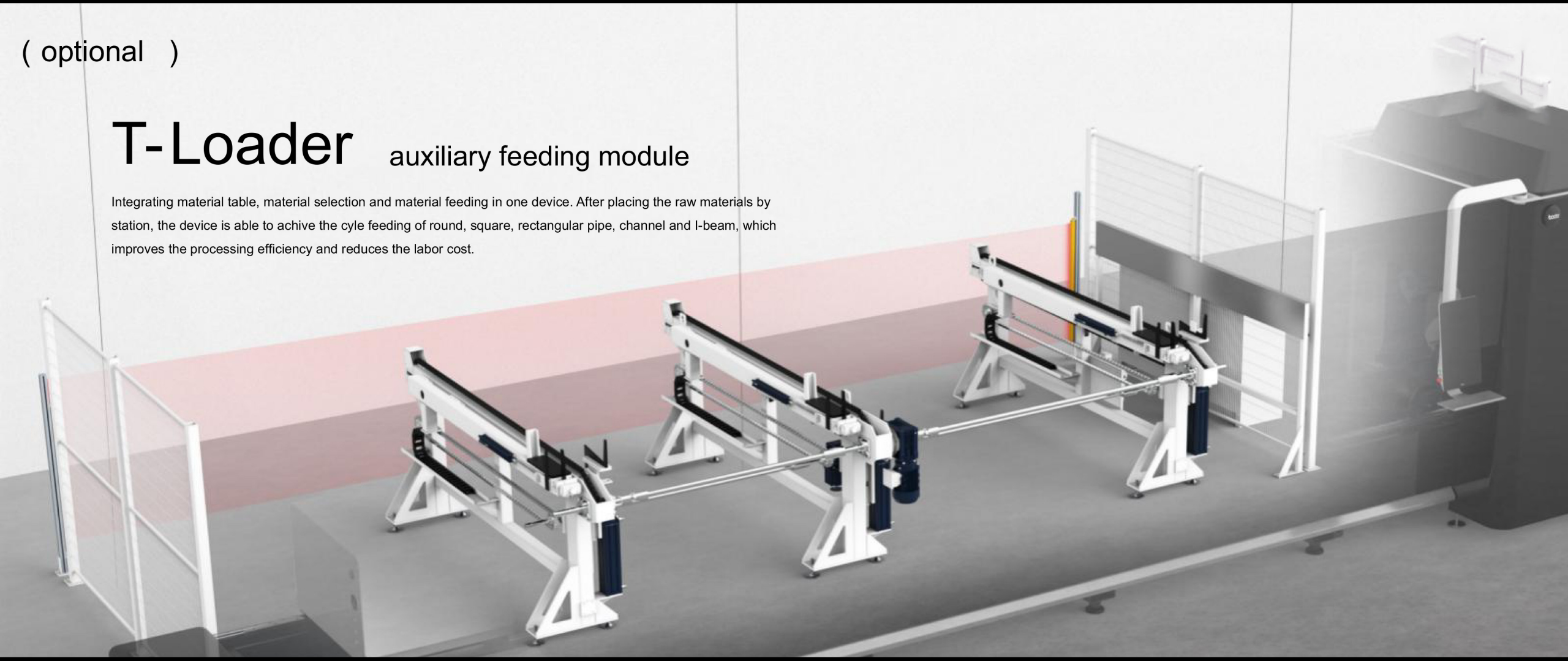
Integrating the functions of bin, dividing, selecting and feeding the material.

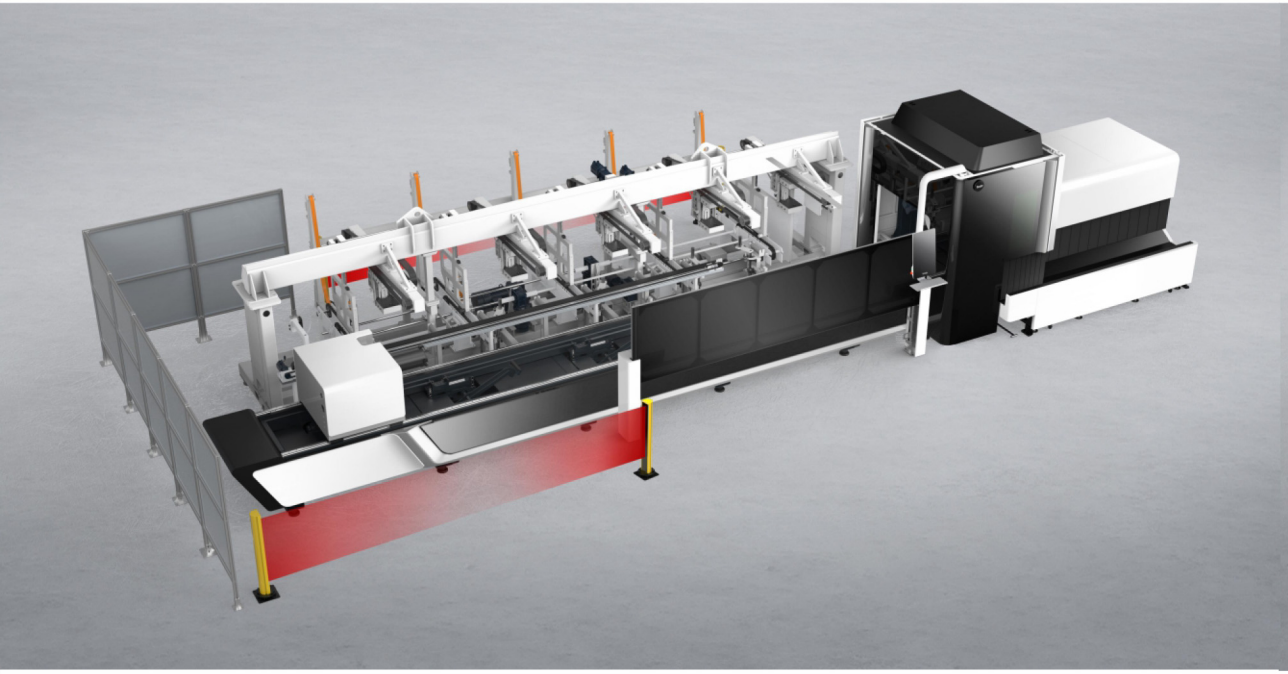
Automatically completes the cycle loading of round, square and rectangular tubes to improve users' processing efficiency and reduce labor costs.

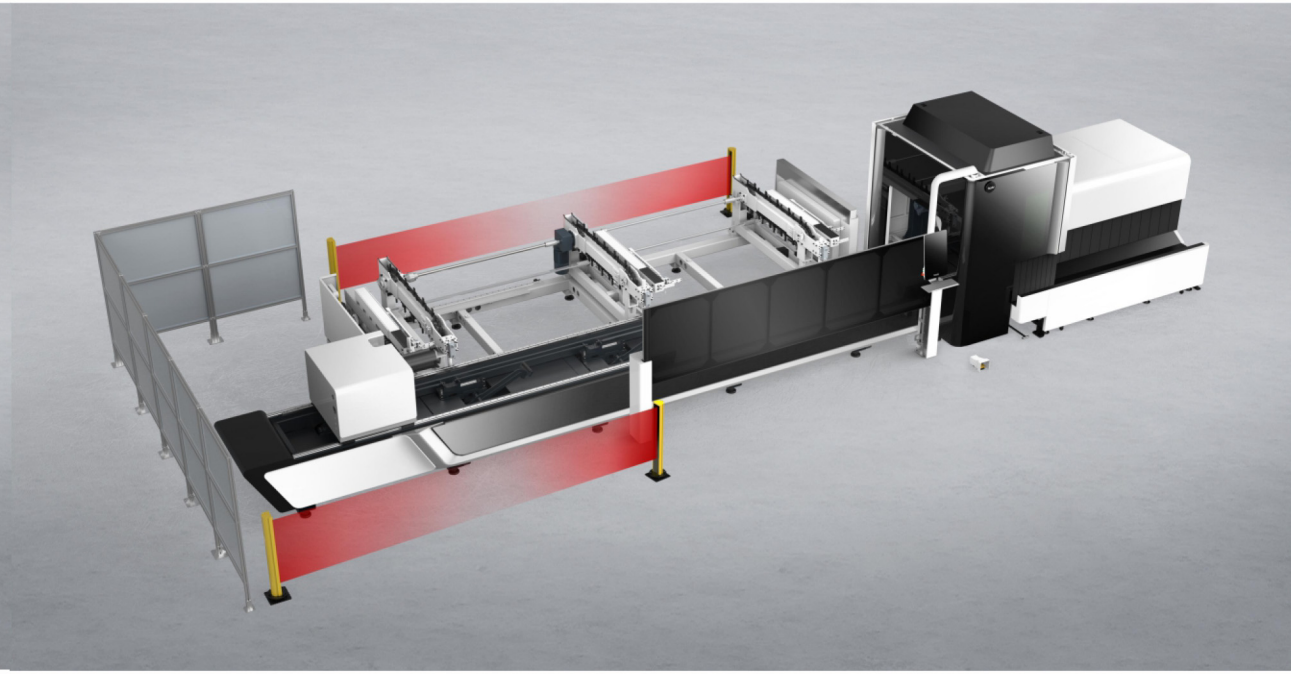
(optional)

T-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.







Up to high safety standards, double safety certified by North America

ETL and Europe CE

Optional automatic and semi-automatic modules ensuring safety and efficiency, no safety concerns.

Function&parameter List

Model	T230	T350
Requirements for tubes	Diameter<Φ 1.97in thickness≥Φ 0.05in Diameter≥Φ 1.97in Wall thickness≥2.5% of Diameters of tubes	Round tube Φ 0.78 - Φ13.78in Square tube □ 0.78 - 13.78in Rectangular tube 0.78in≤Side length≤ 13.78in I-beam 10#-22#
Tube size range	○ : Φ0.3-Φ9.0 in ▭ 9.0 in ≥Side length≥0.3 in □ : □0.3-9.0 in ⌶ : 10#-14#	○ :Φ 0.78 - Φ13.78in ▭ : 13.78in ≥Side length≥0.78in □ : □0.78 - 13.78in ⌶ : 10#-22#
Adaptive adjustment of jaw clamping forcelength	●	●
Following servo feeding bracket	●	●
Support roller with automatic diameter adjustment	●	●
Bevel cutting	○	○
Weld recognition	○	○
Maximum machinable tube length	21.3 ft / 30.2 ft	21.3 ft / 30.2 ft
Max. Chuck rotating speed	120r/min	80r/min
X axis maximum speed	3937 in/min	3937 in/min
Shortest remaining material	3.54in	<5.90in
Maximum tube length	14.76ft	14.76ft
Chuck drive types	pneumatic chuck	pneumatic chuck
Maximum tube weight	660 lb	1320 lb

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