

T-series

Fiber laser metal tube cutting machine
High performance model



Combination of ultimately high performance and intelligent operation





100 m/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.

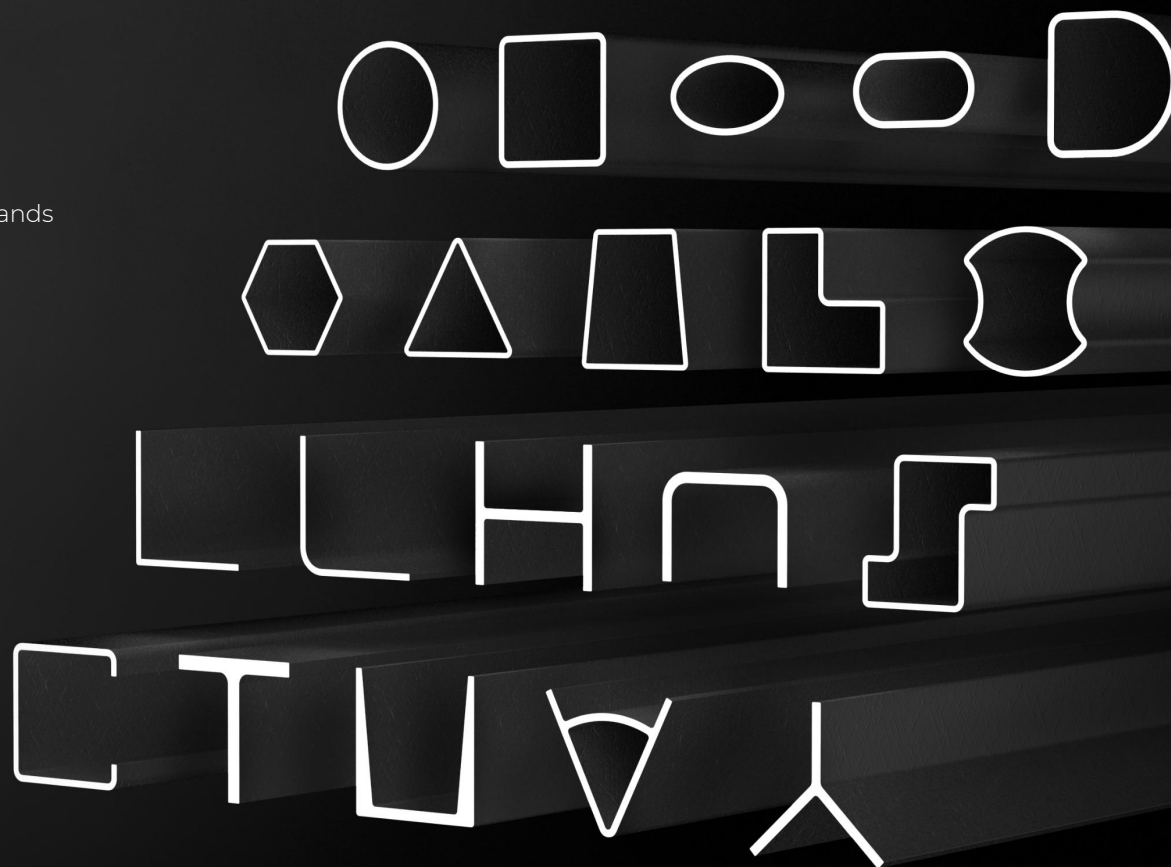
Intelligent auto pressure adjusting chuck

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.

Applicable for various tube shapes processing

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

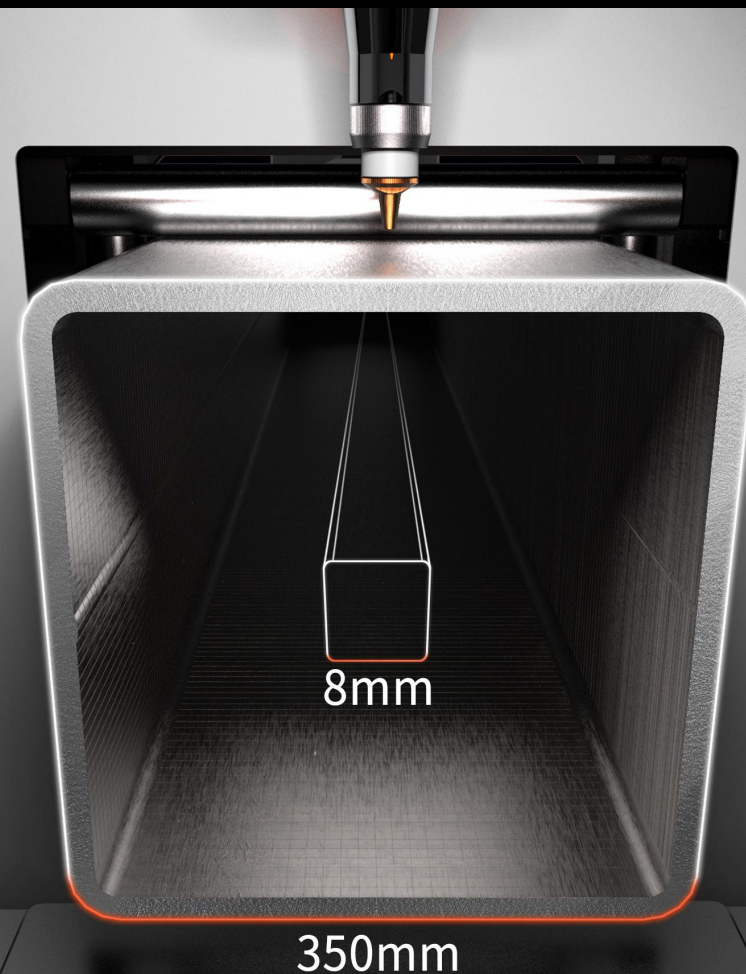
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8—350mm

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 separate collection areas, saving labor cost

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

Following servo feeding bracket

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

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Six-in-one laser technology full ecology

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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

总线系统



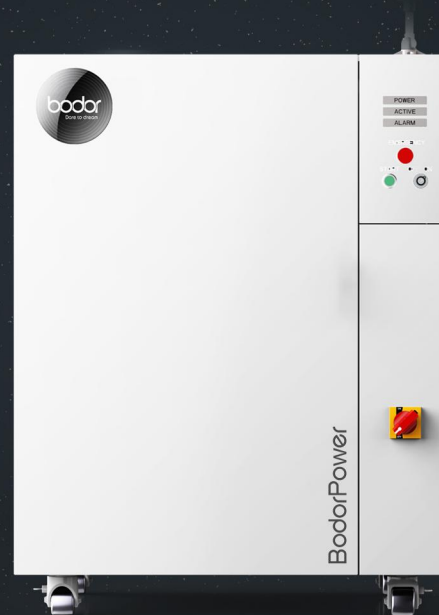
BodorNest

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

Self-developed BodorPower laser



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



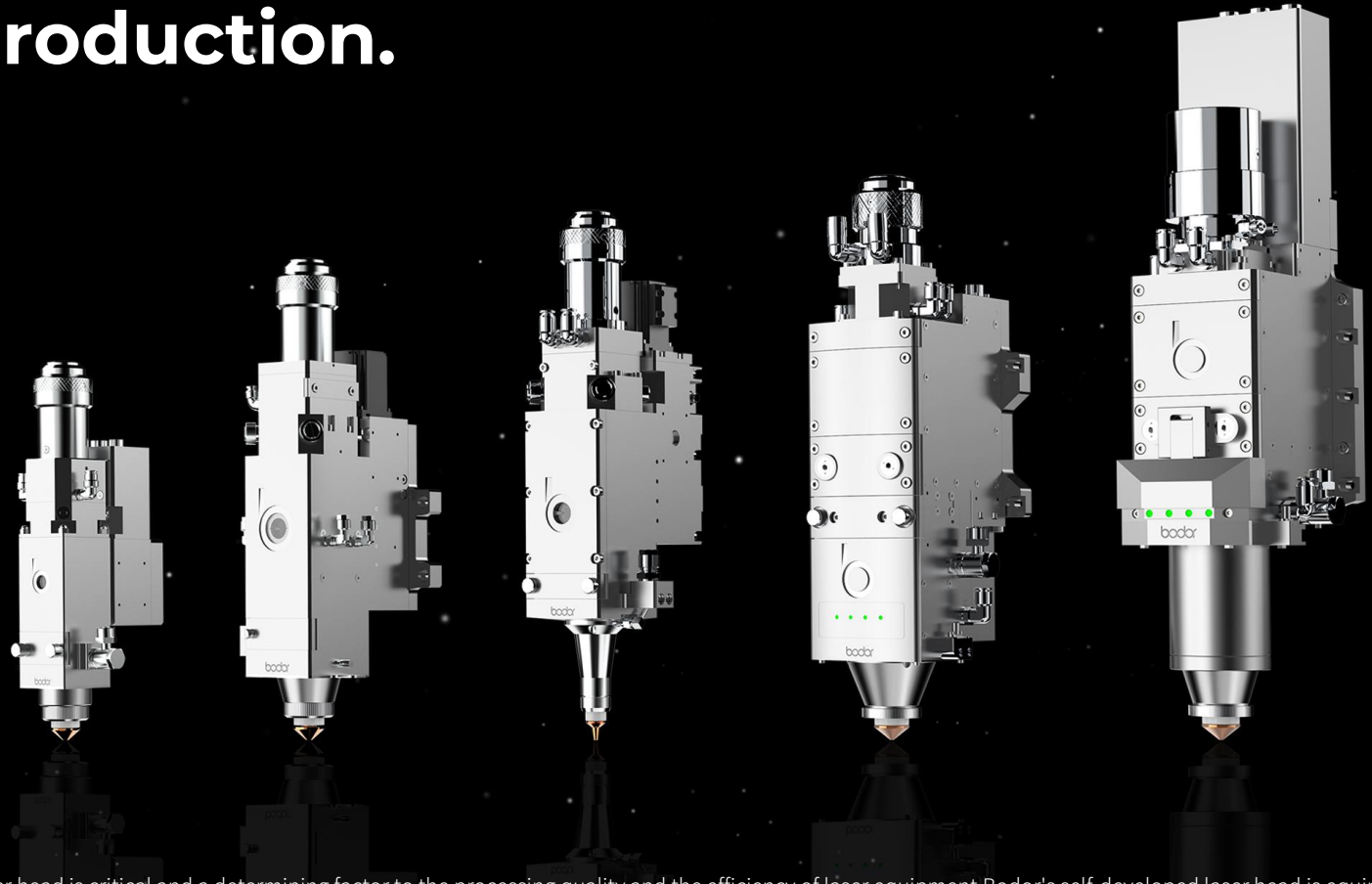
Being the core component of a laser equipment, the laser is like the engine of a car, or the CPU of a cell phone.

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

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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.

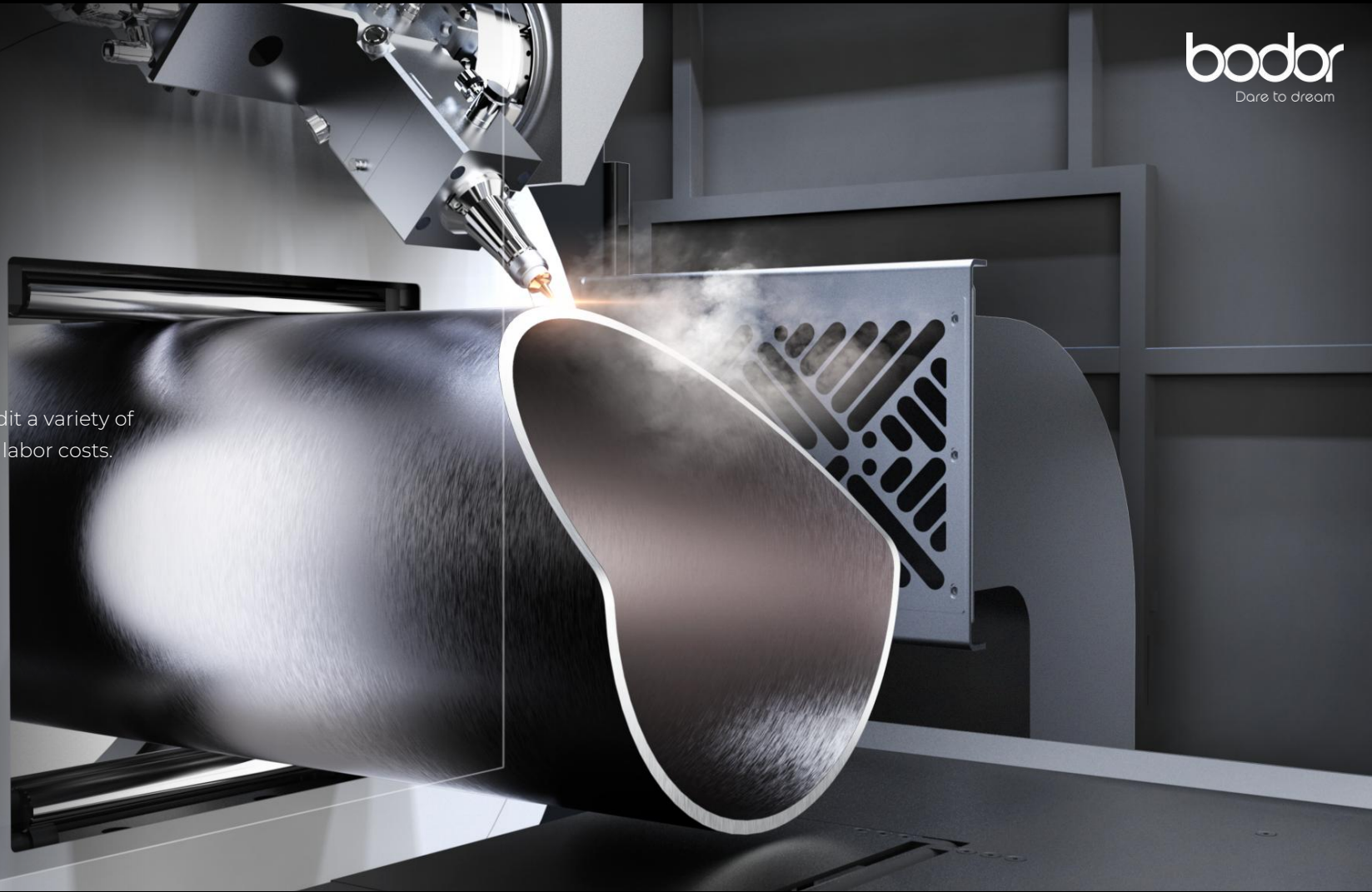
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(optional)

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)

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Welding seam identification module

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

(T230 optional)



T-Trans automatic loading module

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

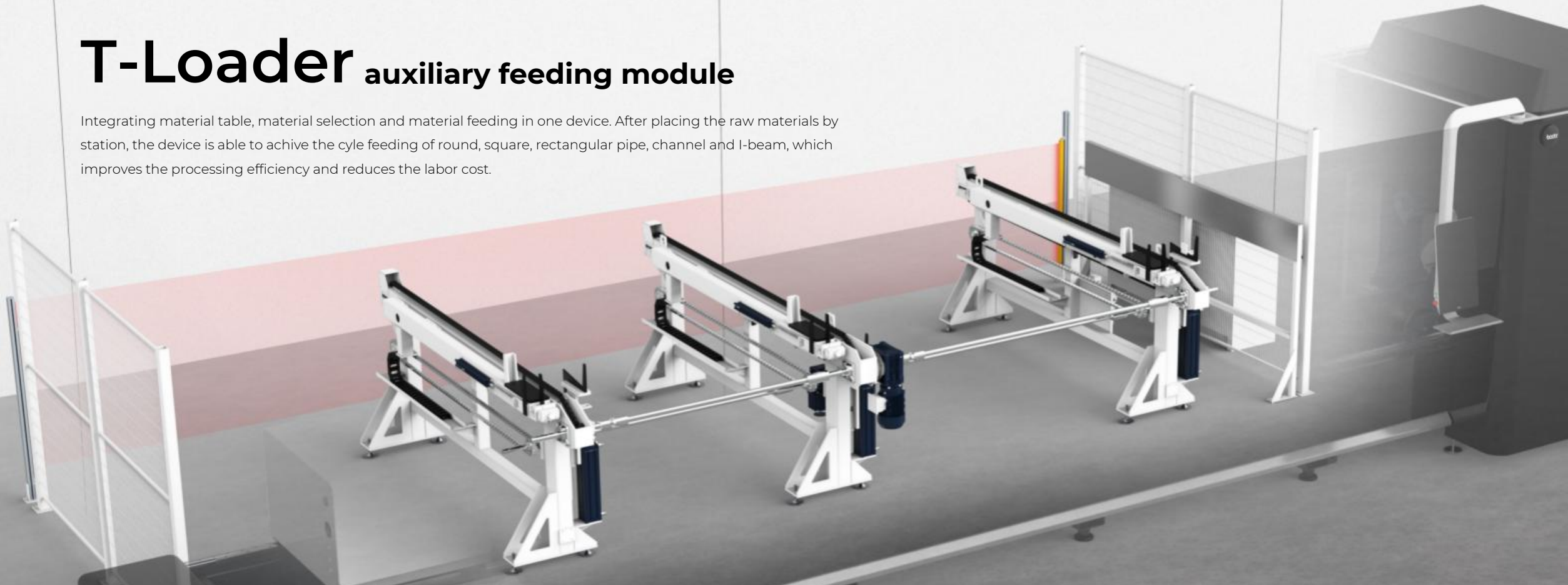
Automatically completes the cycle loading of round, square and rectangular tubes to improve users' processing efficiency and reduce labor costs.

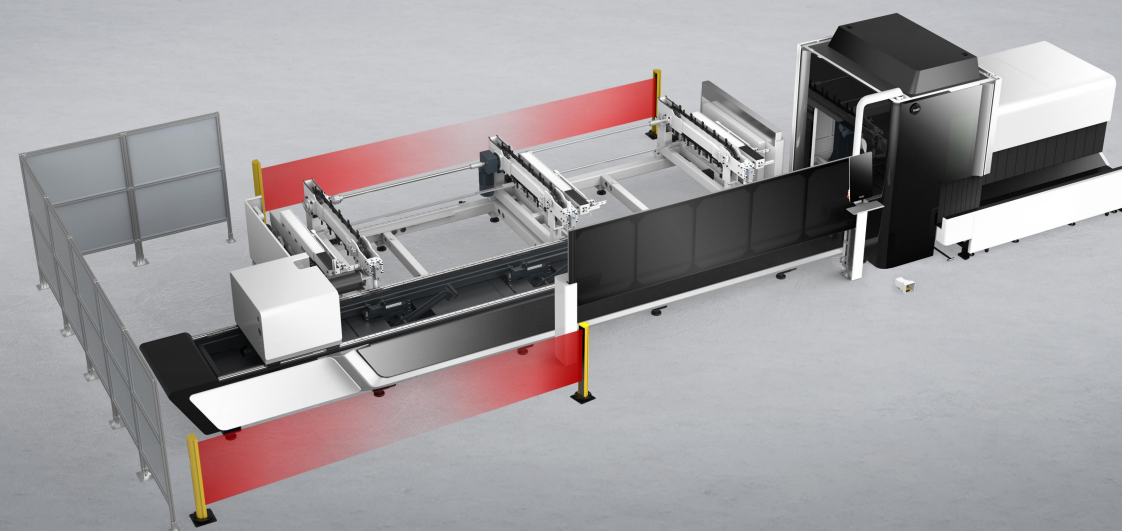
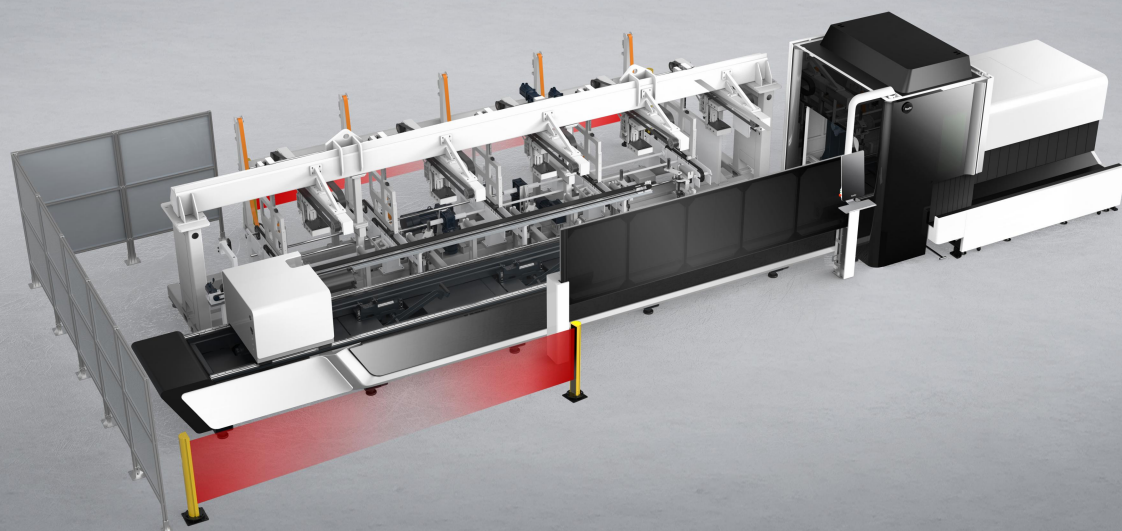
(optional)

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 achieve the cycle feeding of round, square, rectangular pipe, channel and I-beam, which improves the processing efficiency and reduces the labor cost.

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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.





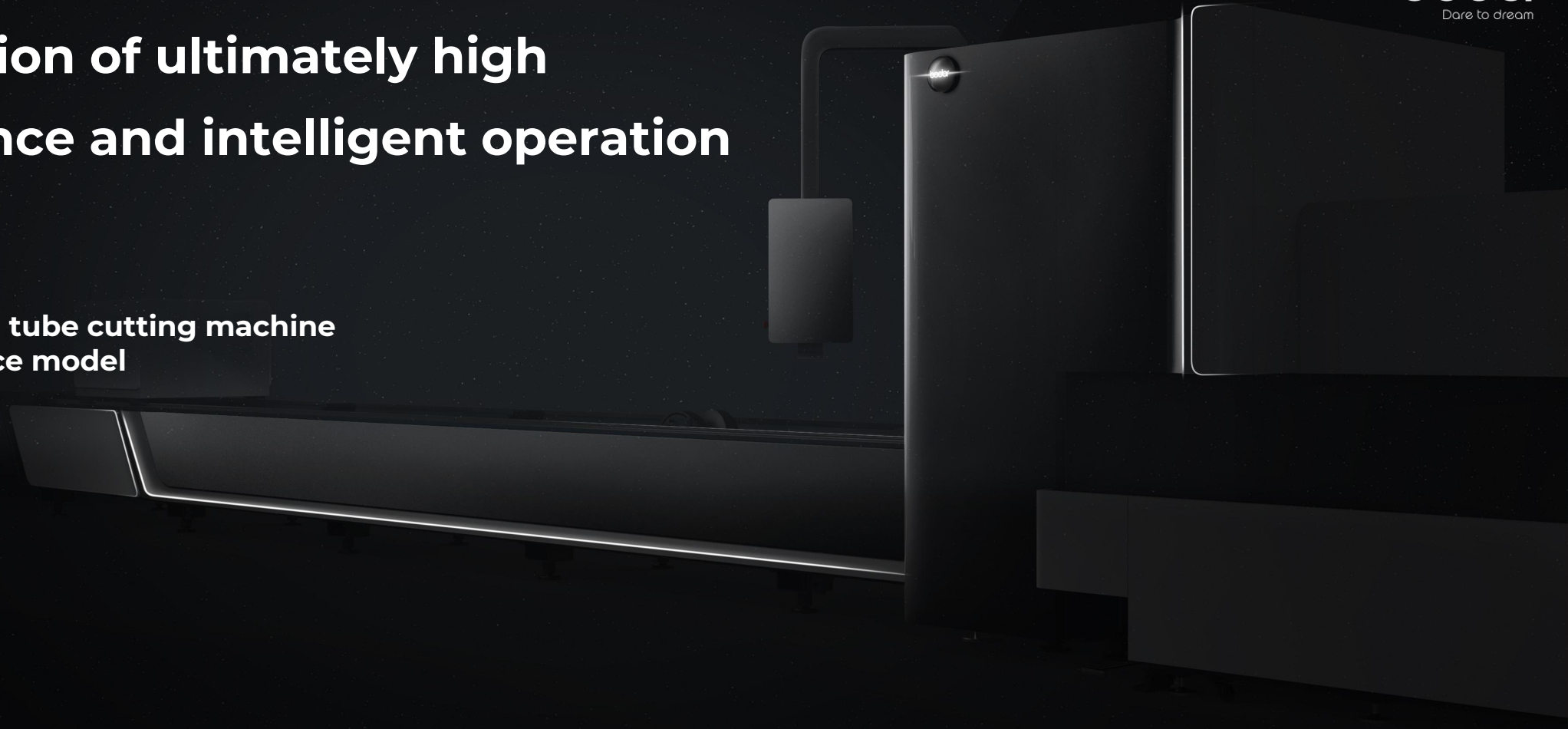
Function¶meter List

Model	T230	T350
Requirements for tubes	Diameter<φ50mm thickness≥1.2mm; Diameter≥φ50mm Wall thickness≥2.5% of Diameters of tubes	Round tube φ20-φ350mm Square tube □20 - □350mm Rectangular tube 20mm≤Side length≤350mm I-beam 10#-22#
Tube size range	○ : φ8-φ230mm □ : 230mm≥Side length≥8mm □ : □8-□230mm 工 : 10#-14#	○ : φ20-φ350mm □ : 350mm≥Side length≥20mm □ : □20-□350mm 工 : 10#-22#
Adaptive adjustment of jaw clamping force length	●	●
Following servo feeding bracket	●	●
Support roller with automatic diameter adjustment	●	●
Bevel cutting	○	○
Weld recognition	○	○
Maximum machinable tube length	6500mm/9200mm	6500mm/9200mm
Max. Chuck rotating speed	120r/min	80r/min
X axis maximum speed	100m/min	100m/min
Shortest remaining material	90mm	<150mm
Maximum tube length	4500mm	4500mm
Chuck drive types	pneumatic chuck	pneumatic chuck
Maximum tube weight	300Kg	600Kg

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