
K-series
Tube fiber laser cutting machine
Economical model
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Most sought-after model in the industry

Easy operation

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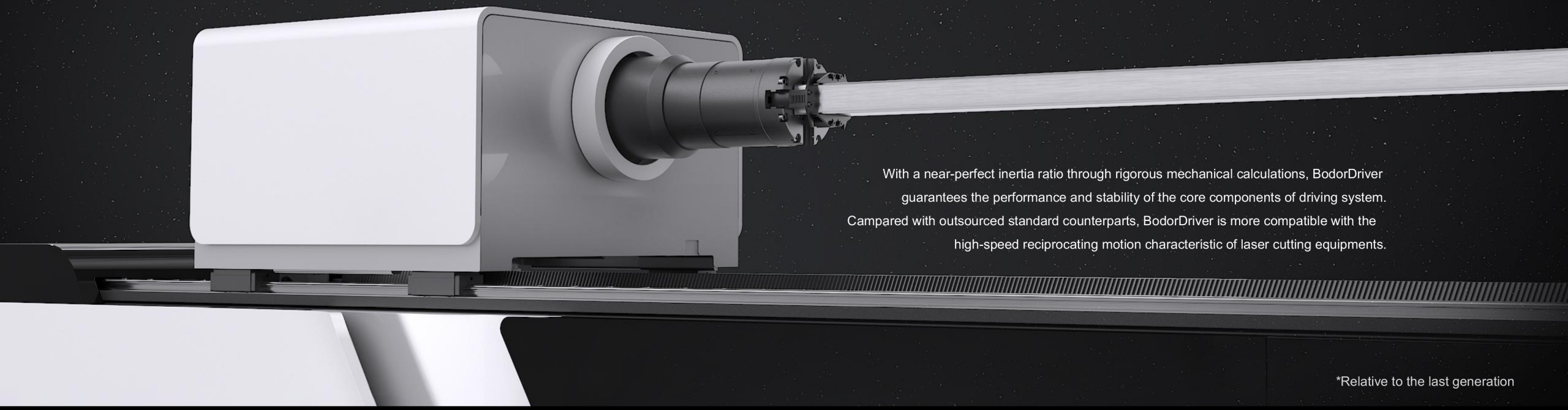
130 r/min
Maximum chuck speed

3960 in/min
Maximum feeding 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.



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.

*Relative to the last generation

K Series

Small and smart tube laser cutting machine

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Rectangular Tube Welded Bed

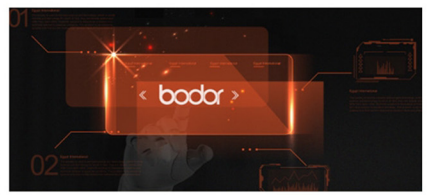
Simple structure and flexible layout.

Bodor Thinker

The dedicated control system of tube cutting machine integrated with the most advanced technology, can cut angle steel and channel steel directly without nesting and returning home.

Bodor Genius T needle nose auto-focusing laser head

Bodor Genius T needle nose auto-focusing laser head, applicable for all kinds of tubes such as angle steel, channel steel, I-beam, etc.

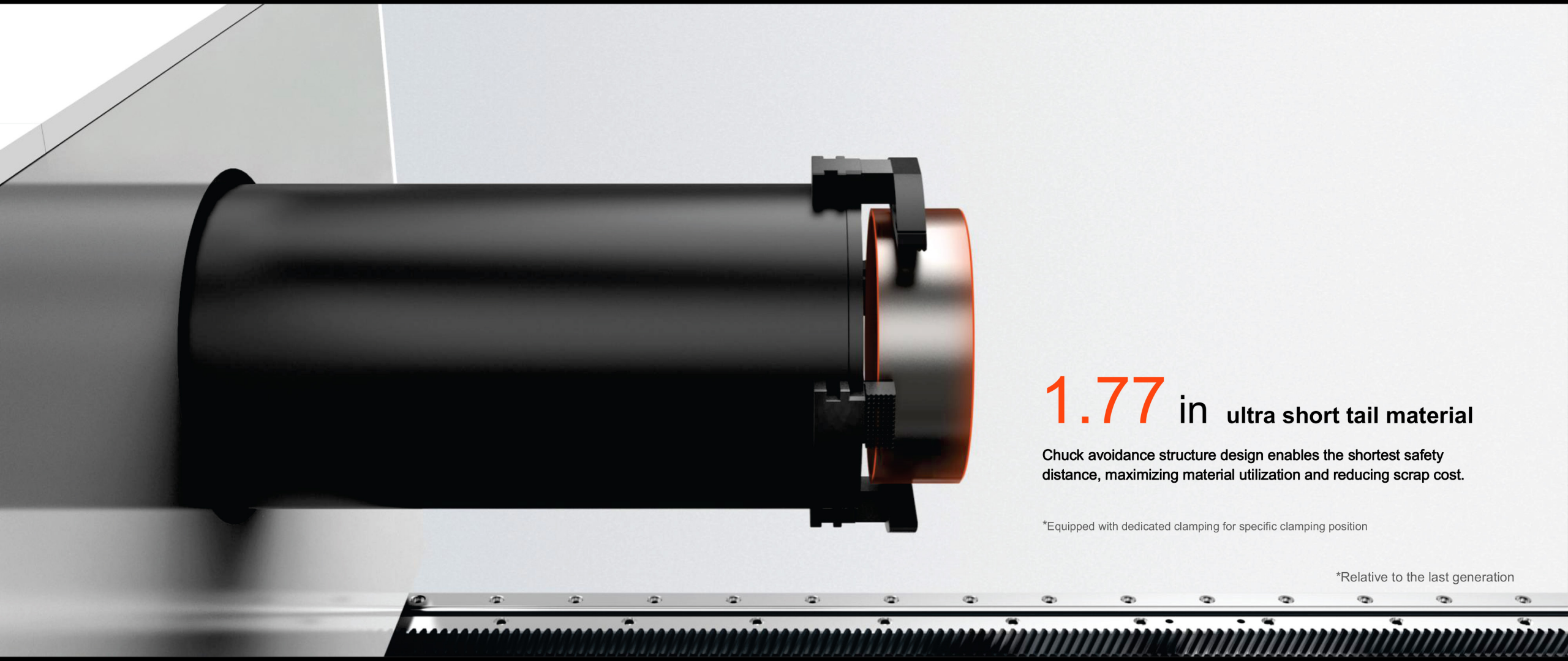


Ergonomics

Loading and operating on both sides;
and humanized interaction interface, convenient and smooth operation, and favorable user experience.

Extremely short tailings

The rear jaws can clamp the pipe to go through the front chuck, which greatly shortens the physical distance between the cutting head and the rear chuck jaws. Tail length is reduced to 70mm and the material utilization rate is increased to 99%.



1.77 in ultra short tail material

Chuck avoidance structure design enables the shortest safety distance, maximizing material utilization and reducing scrap cost.

*Equipped with dedicated clamping for specific clamping position

*Relative to the last generation

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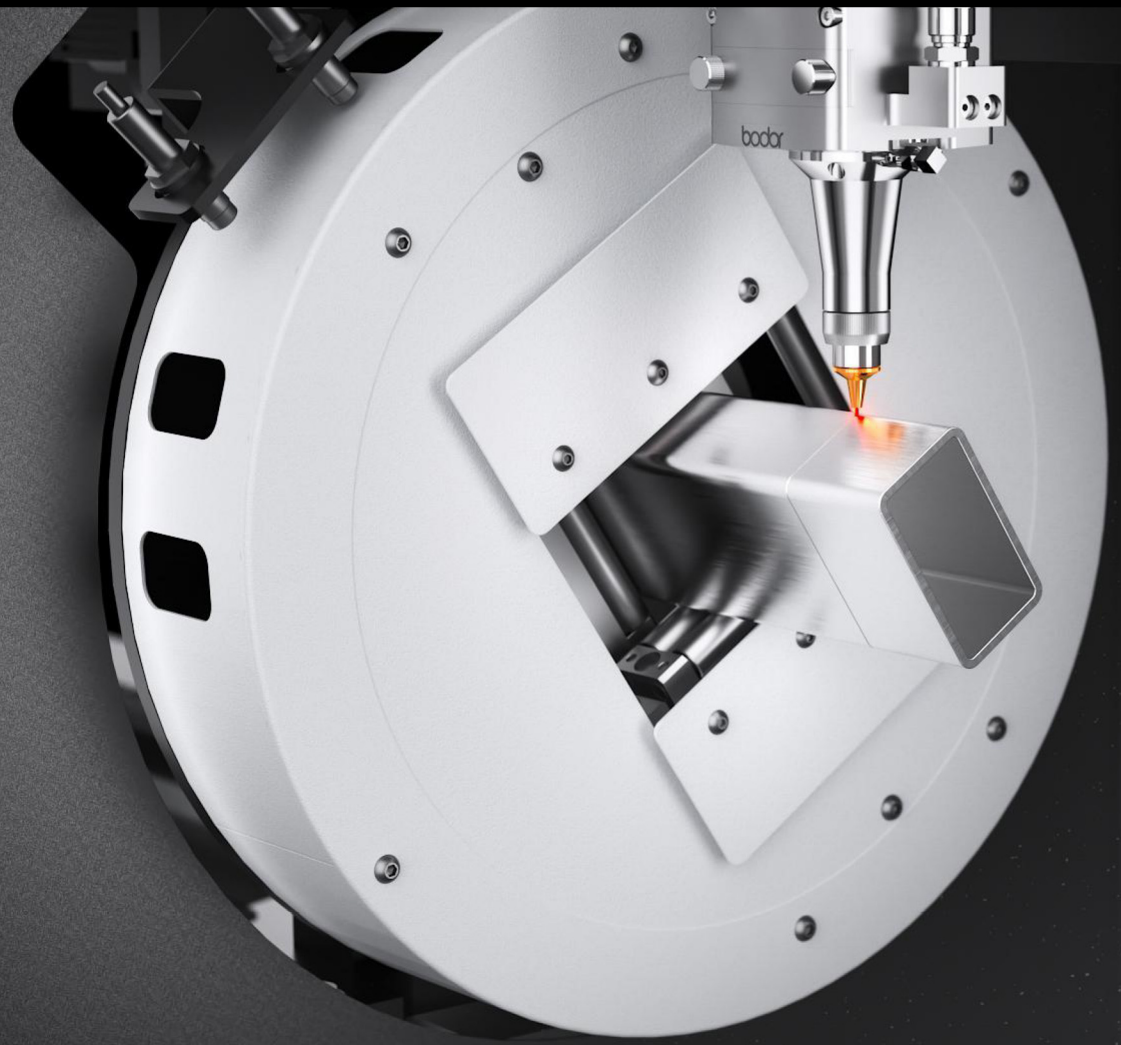

Edge avoidance protection

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

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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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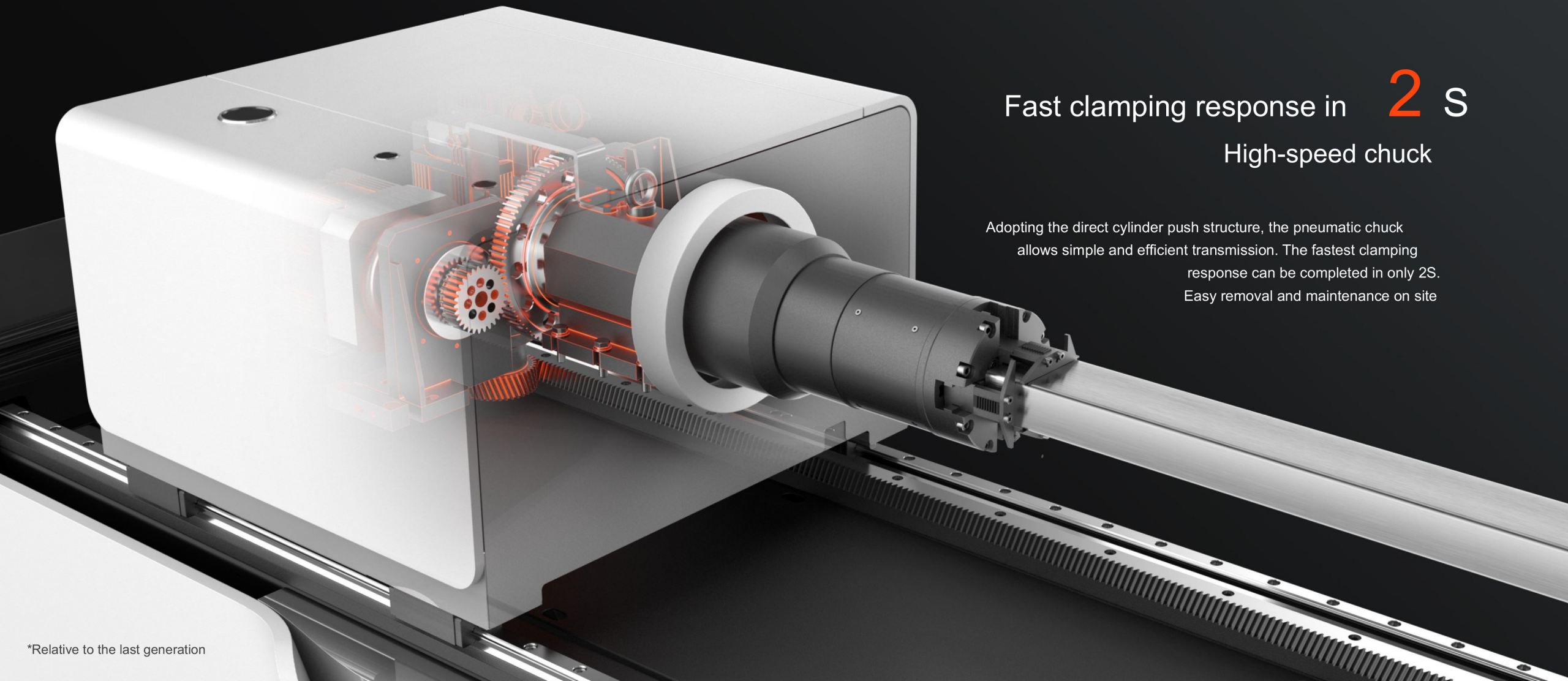

Fast clamping response in 2 S

High-speed chuck

Adopting the direct cylinder push structure, the pneumatic chuck allows simple and efficient transmission. The fastest clamping response can be completed in only 2S.
Easy removal and maintenance on site

*Relative to the last generation

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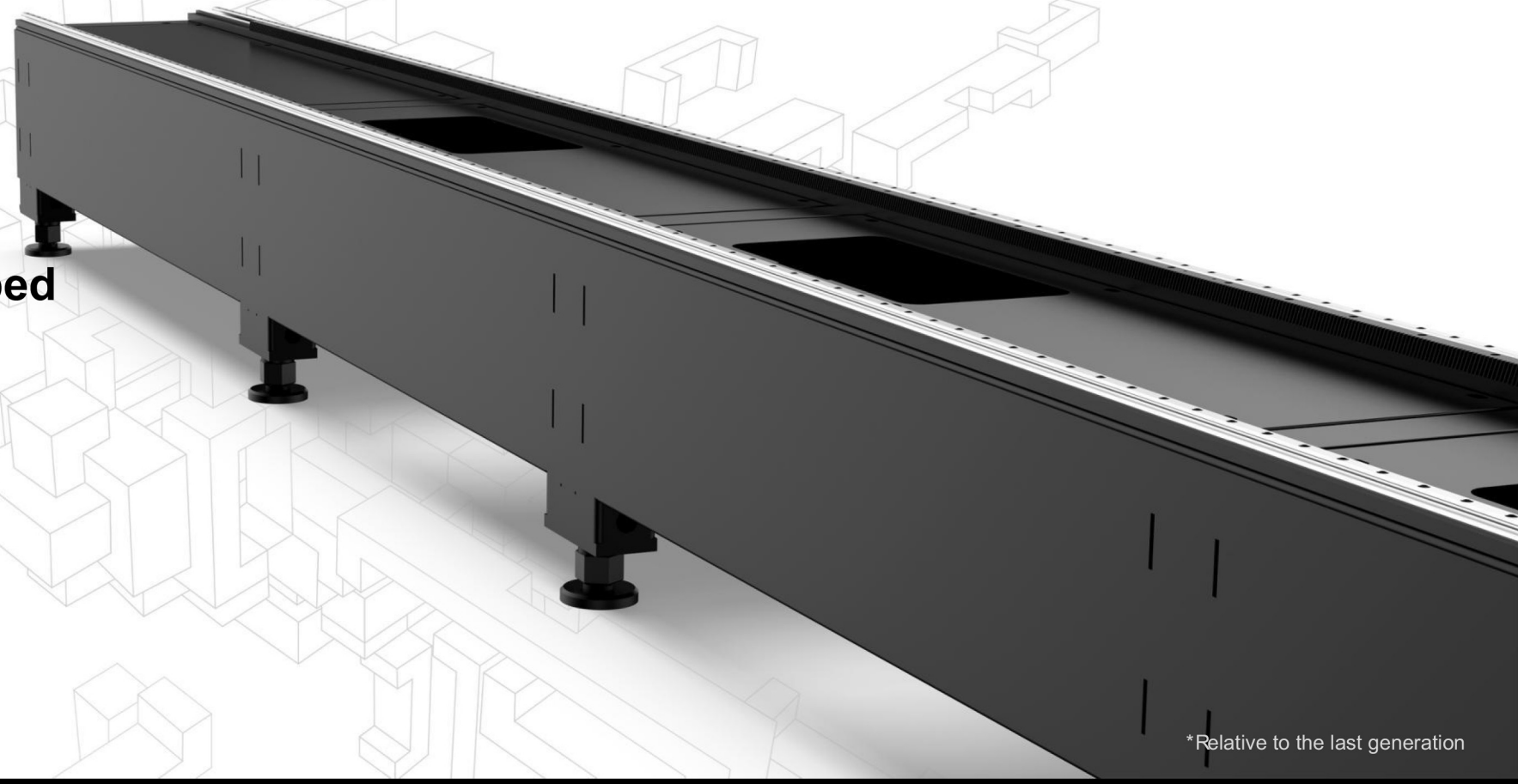
The latest 3rd generation mortise and tenon welded bed



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.

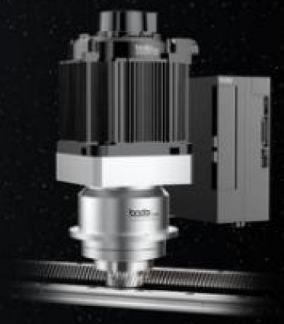
BodorThinker
Central control system

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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Bodor 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.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."

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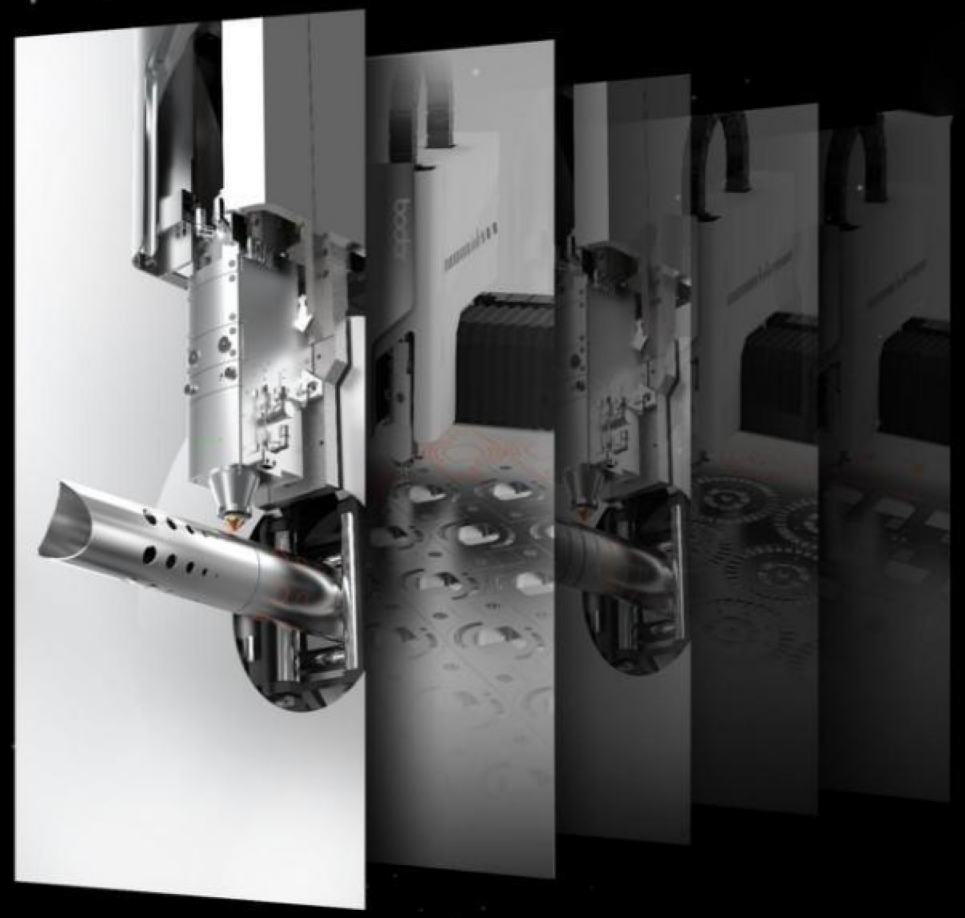
BodorNest, Bodor's self-developed nesting software has been successfully launched,

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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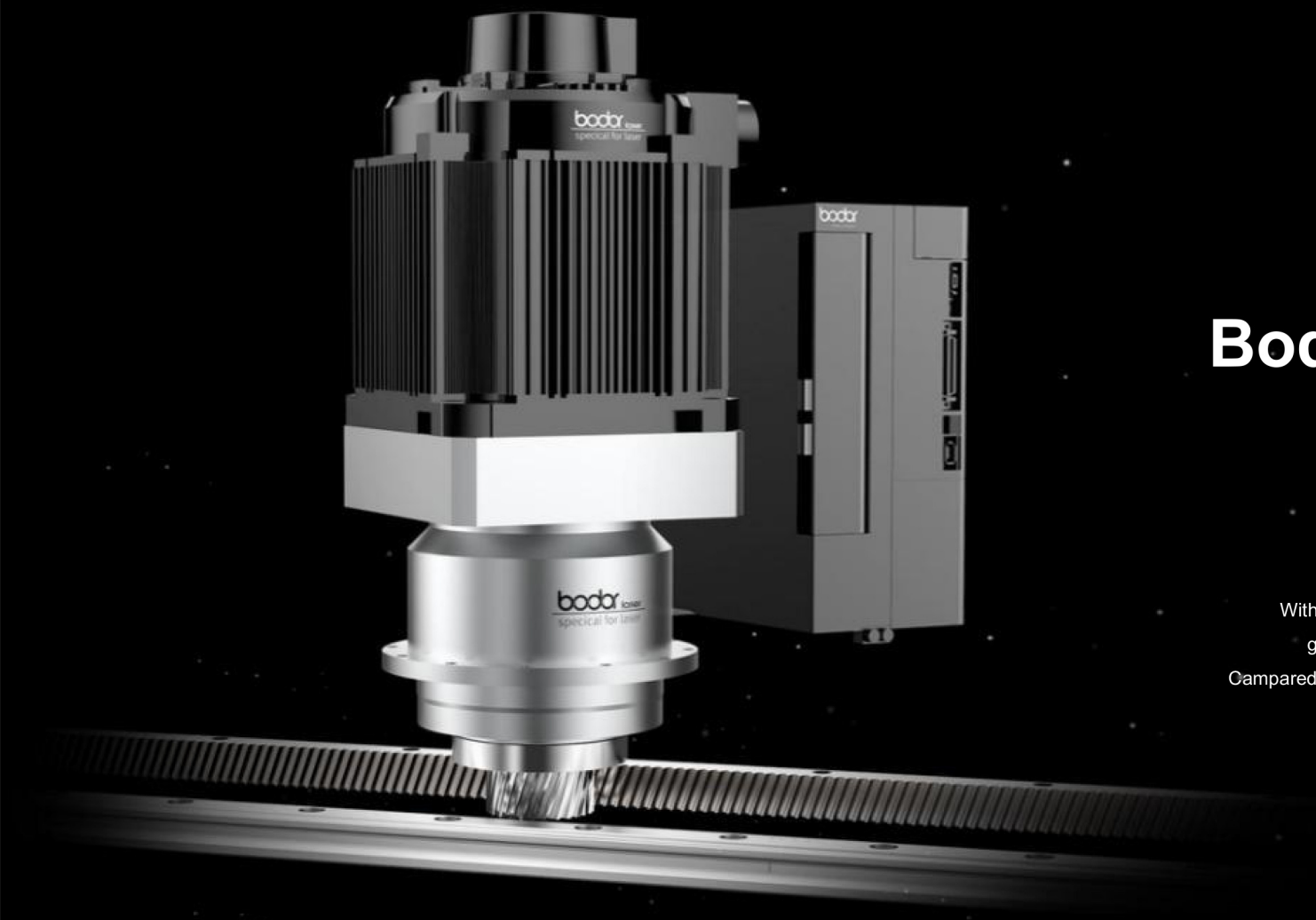


Bodor self-developed BodorDriver drive system

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.

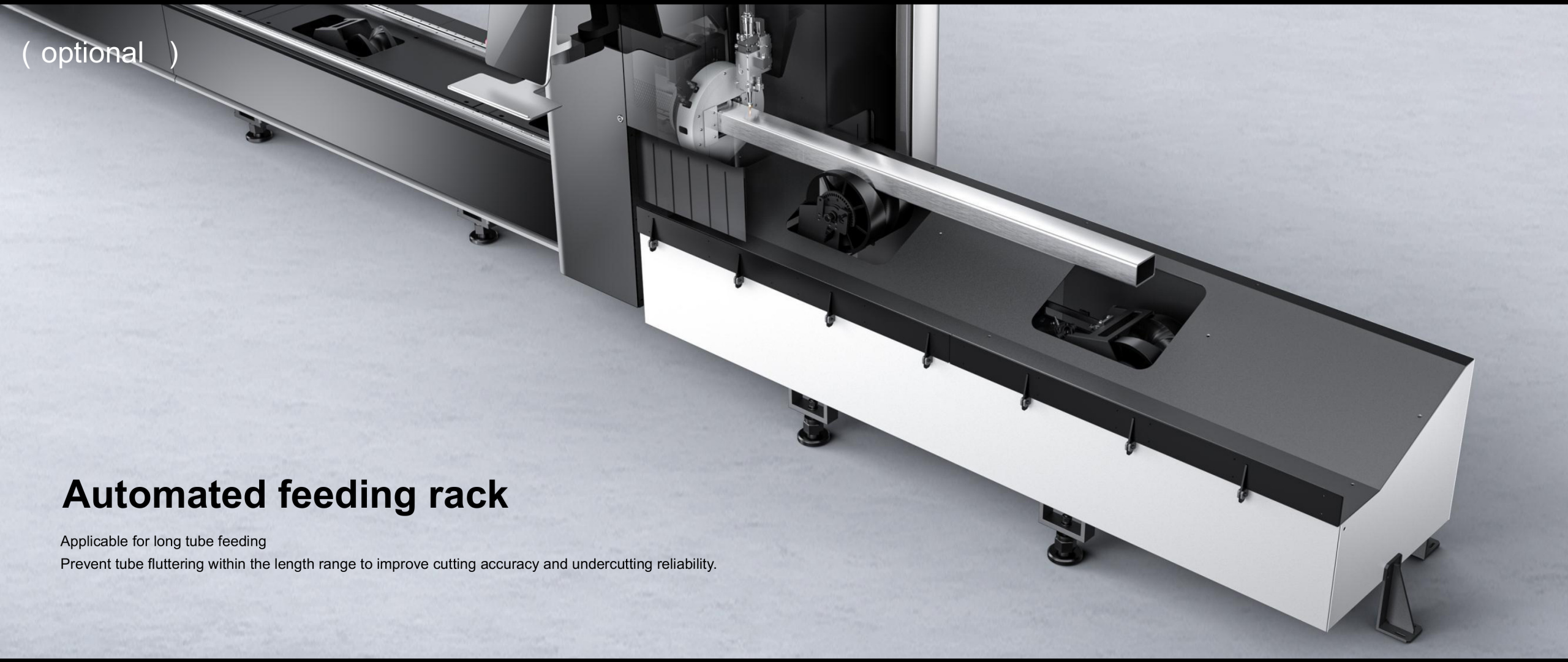
MANGO Wireless touch control handle

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)



Automated feeding rack

Applicable for long tube feeding

Prevent tube fluttering within the length range to improve cutting accuracy and undercutting reliability.

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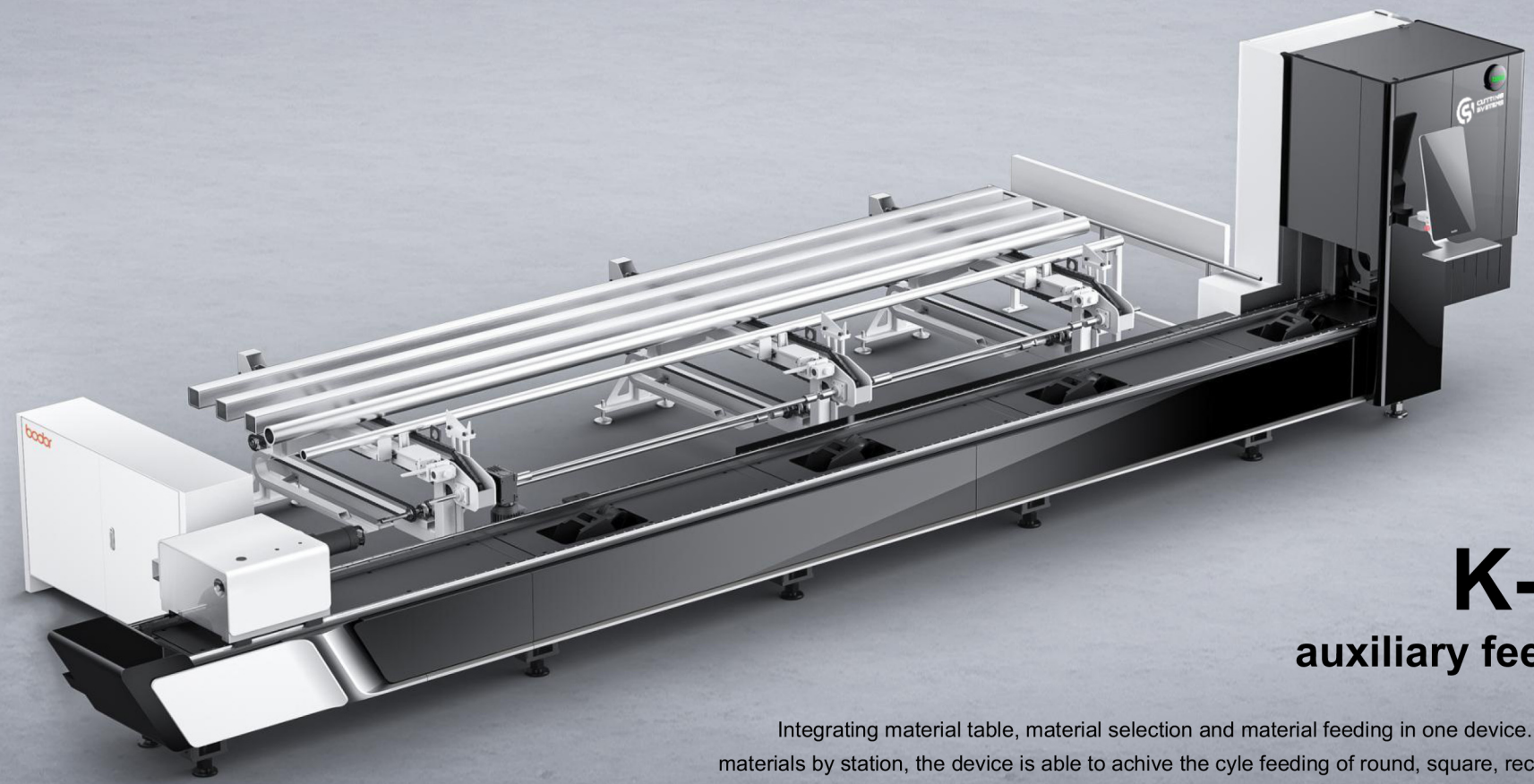
(optional)



K-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.

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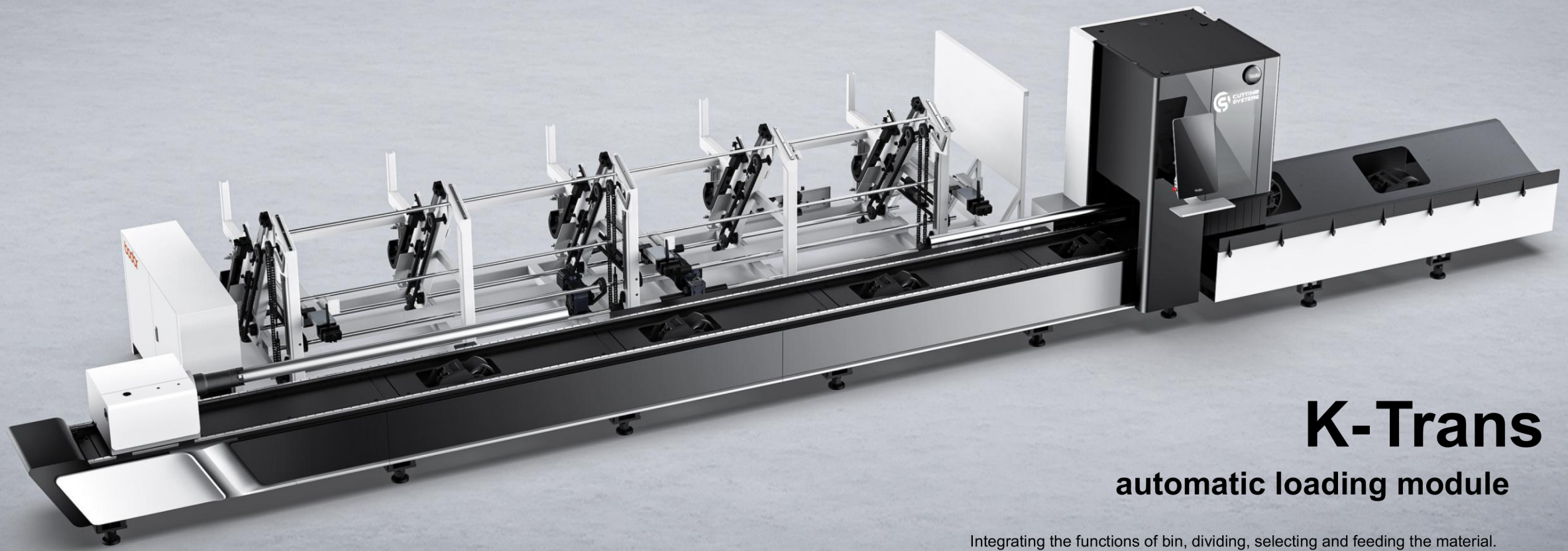
(optional)

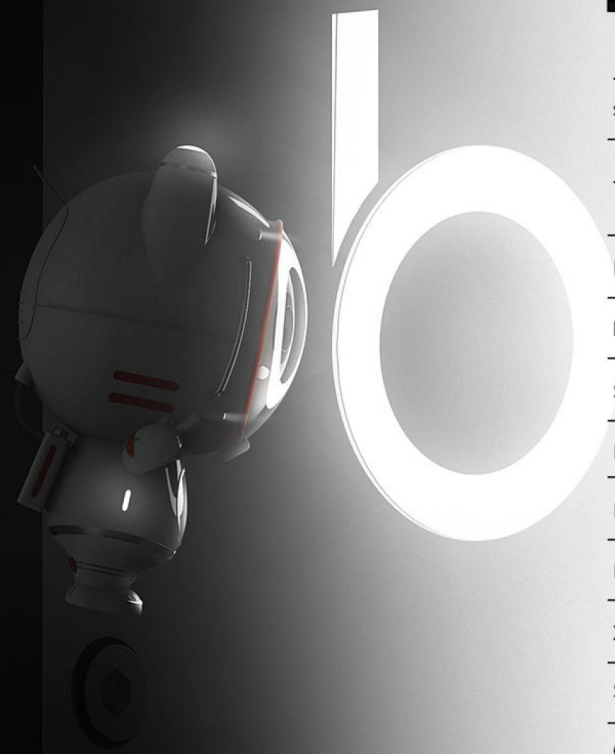


K-Trans

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.

Function&parameter List



Model	K350	K230	K120
Tube cross-sectional shape	○ □ L I ⬭ ⬭ ▭		
Tube size range	○ : Φ 0.78-13.78 in □ : 0.78-9.84 in	○ : Φ 0.78-9.05 in □ : 0.78-9.05 in	○ : Φ 0.39-4.72 in □ : 0.39-4.33 in ▭ : 4.72 in≥ Side length≥ 0.39 in
Maximum machinable tube length	21.32 - 31.18 in	21.32 - 31.18 in	21.32 in
Maximum tube weight	1100 lb 557 lb/ft (21.32) 1100 lb 390 lb/ft (30.1 ft)	661 lb 332 lb/ft (21.32) 661 lb 232 lb/ft (30.1 ft)	176 lb 96 lb/ft
Support roller with automatic diameter adjustment			
Positioning accuracy	0.0006 in/ft	0.0006 in/ft	0.0006 in/ft
Repositioning accuracy	0.001 in	0.001 in	0.001 in
Max. Chuck rotating speed	85r/min	90r/min	130r/min
X axis maximum speed	3540 in/min	3540 in/min	3937 in/min
Shortest remaining material	3.34 in	2.75 in	1.57 in
Chuck drive types	pneumatic chuck	pneumatic chuck	pneumatic chuck

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