

K-series

Tube fiber laser cutting machine
Economical model





Most sought-after model in the industry
Easy operation

130 r/min
Maximum chuck speed

100 m/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. Compared with outsourced standard counterparts, BodorDriver is more compatible with the high-speed reciprocating motion characteristic of laser cutting equipments.

*Relative to the last generation

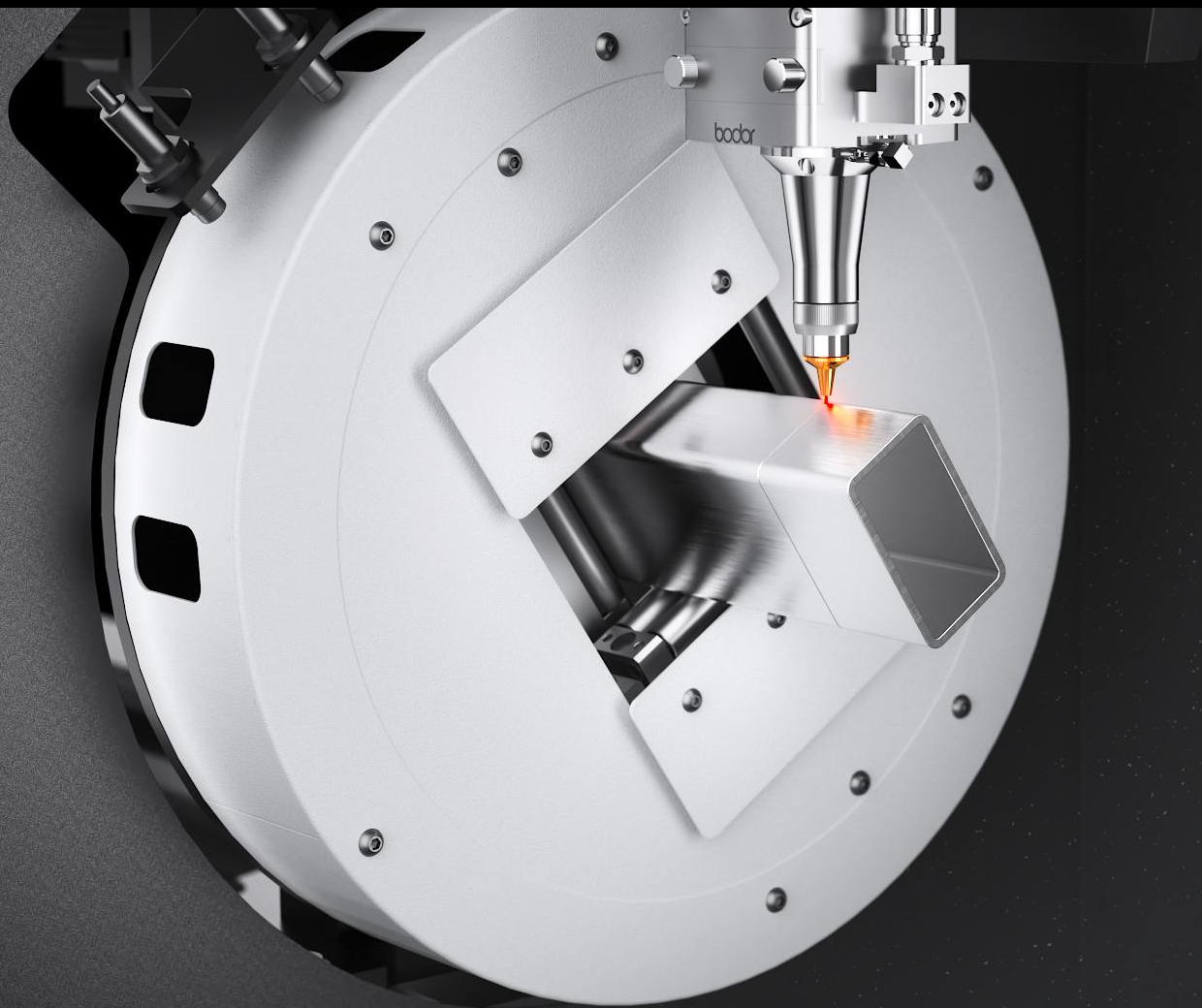


45 mm ultra short tail material

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.

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

Fast clamping response in **2S** 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



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
Central control system



BodorNest
Nesting software



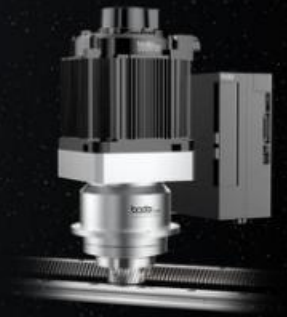
BodorGenius
Laser head



BodorPower
Laser source



BodorMES
Intelligent production
management software



BodorDrive
Drive system

Self-developed BodorPower laser



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



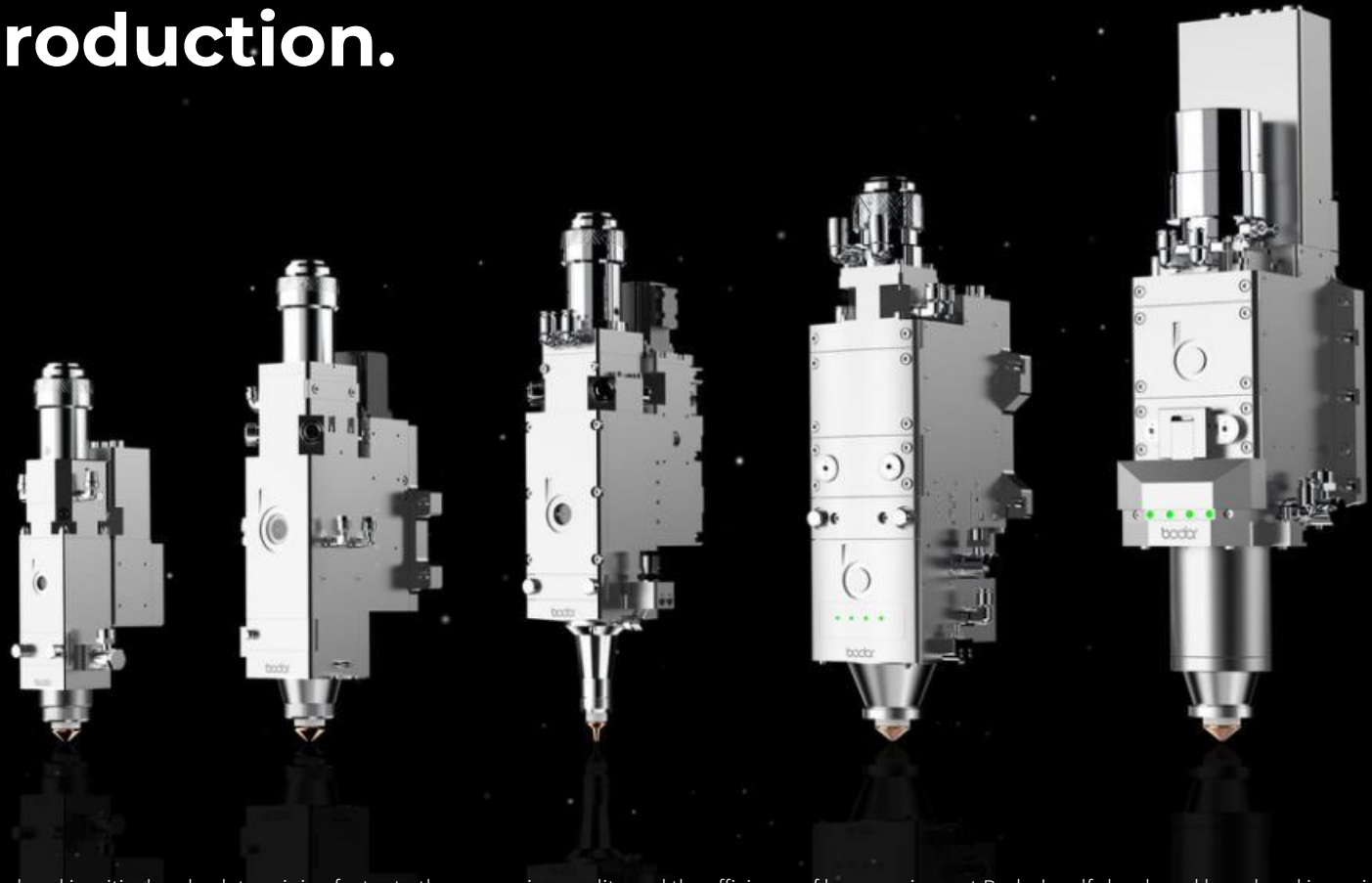
Being the core component of a laser equipment, the laser is like the engine of a car, or the CPU of a cell phone.

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.

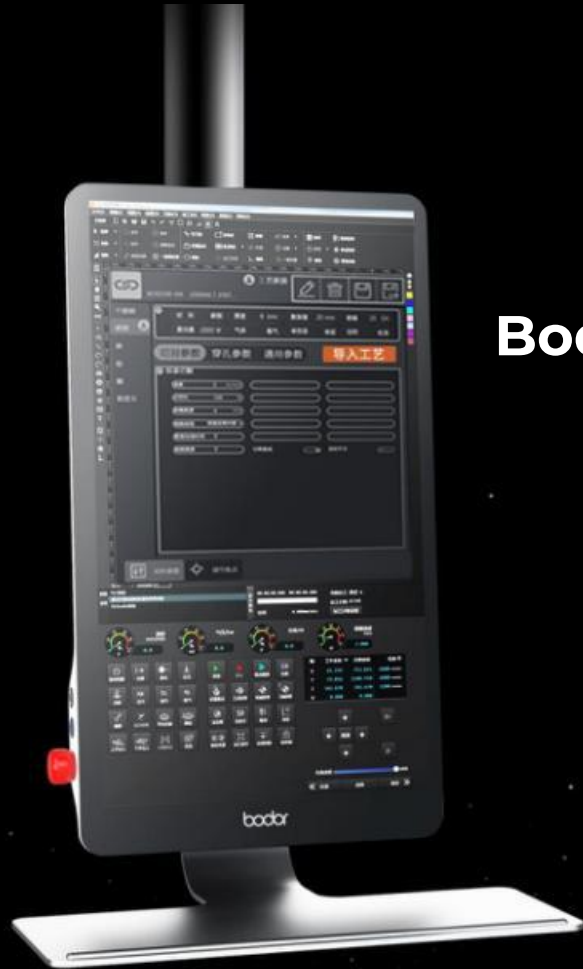
Bodor has put self-developed BodorGenius laser head in mass production.

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.

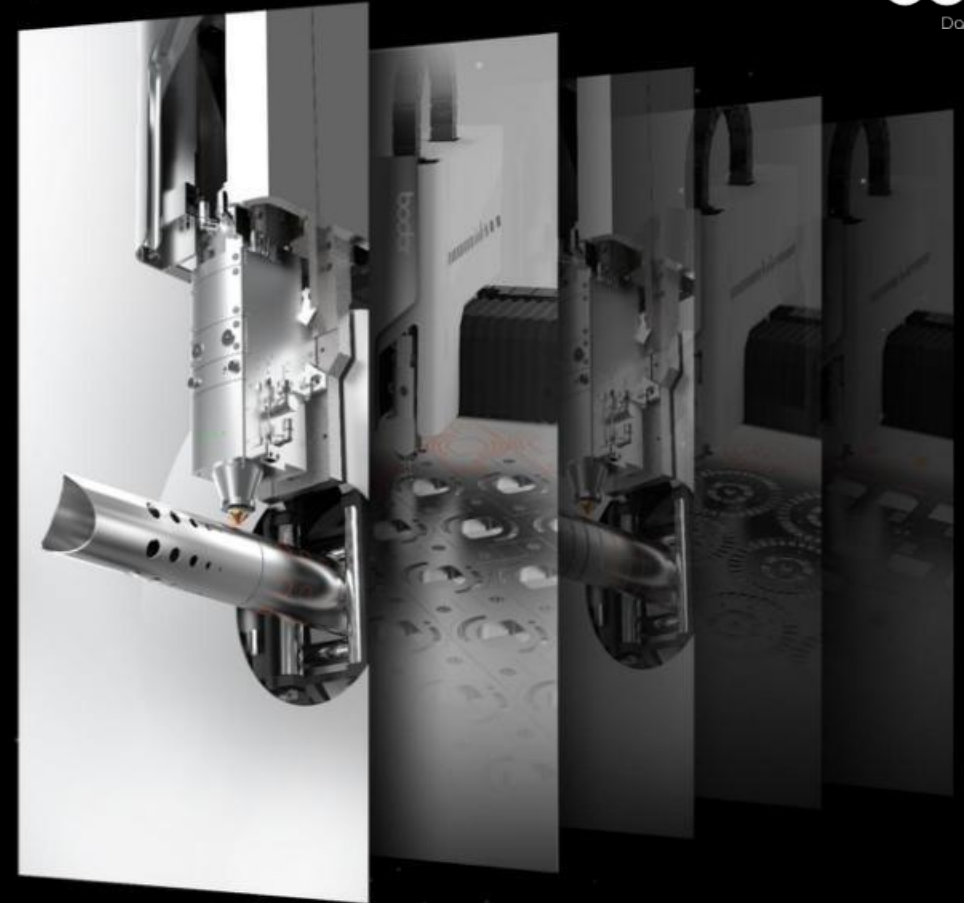
The autonomous operating software matched with self-developed hardware enables the smooth running of the equipments.

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)

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Automated feeding rack

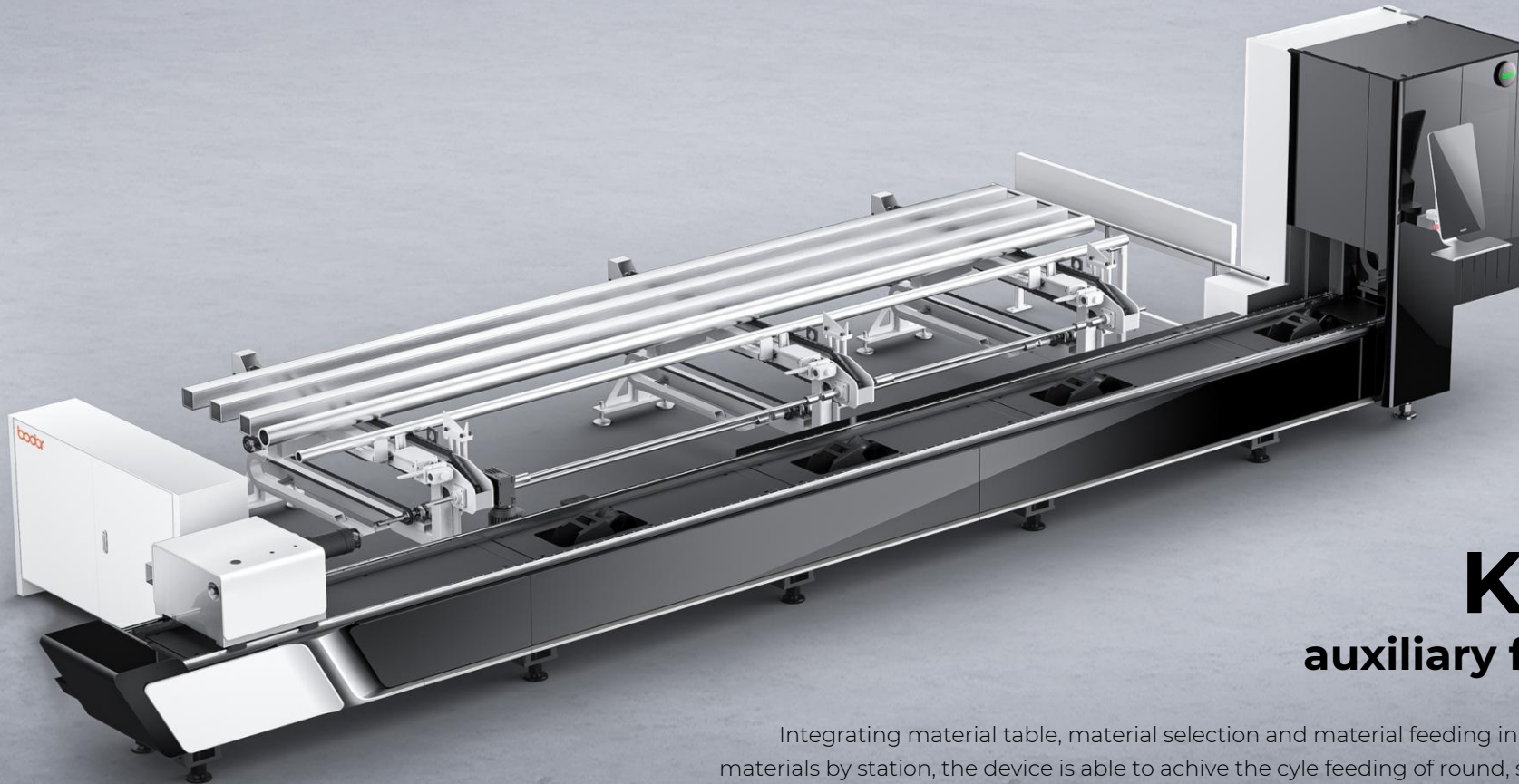
Applicable for long tube feeding

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



(optional)

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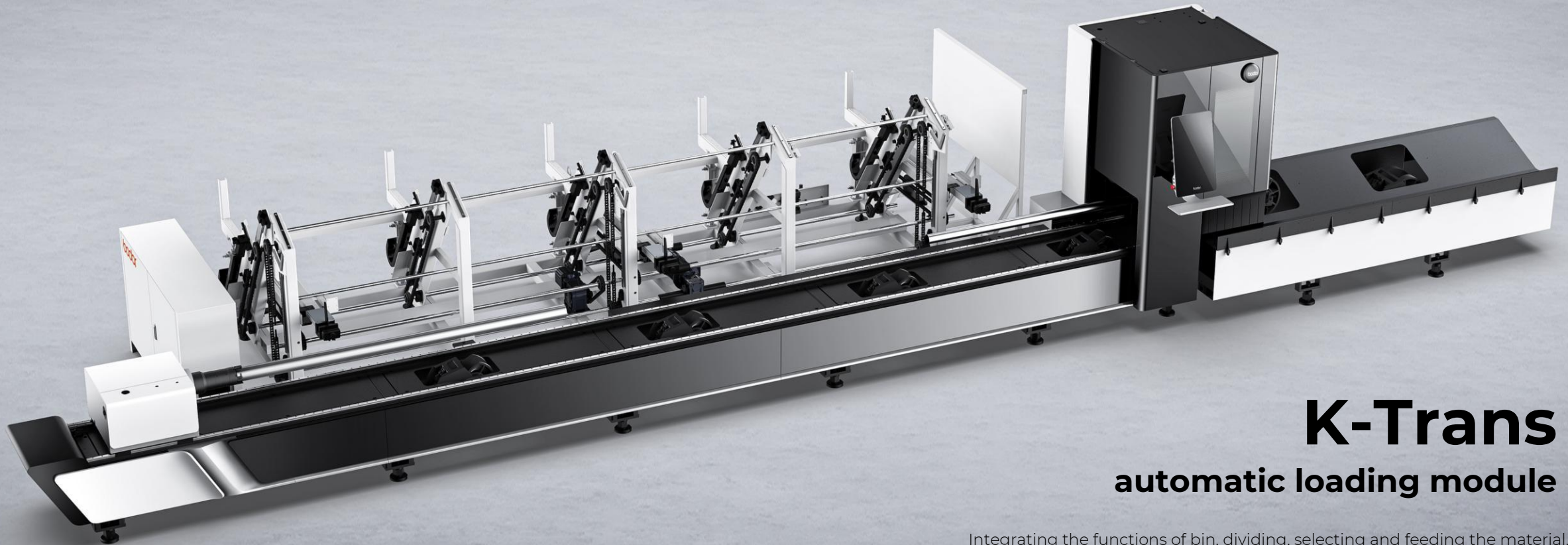


K-Loader auxiliary feeding module

Integrating material table, material selection and material feeding in one device. After placing the raw materials by station, the device is able to achieve the cycle feeding of round, square, rectangular pipe, channel and I-beam, which improves the processing efficiency and reduces the labor cost.

(optional)

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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¶meter List

Model	K350	K230	K120
Tube cross-sectional shape			
Tube size range	○ : $\phi 20$ - $\phi 350$ mm □ : $\square 20$ - $\square 250$ mm	○ : $\phi 20$ - $\phi 230$ mm □ : $\square 20$ - $\square 230$ mm	○ : $\phi 10$ - $\phi 120$ mm □ : $\square 10$ - $\square 110$ mm ▤ : $120\text{mm} \geq \text{Side length} \geq 10\text{mm}$
Maximum machinable tube length	6500mm-9200mm	6500mm-9200mm	6500mm
Maximum tube weight	500Kg 77kg/m (6.5m) 500Kg 54kg/m (9.2m)	300Kg 46kg/m(6.5m) 500Kg 32kg/m(9.2m)	80Kg 13.3Kg/m
Support roller with automatic diameter adjustment	●	●	●
Positioning accuracy	0.05mm/m	0.05mm/m	0.05mm/m
Repositioning accuracy	0.03mm	0.03mm	0.03mm
Max. Chuck rotating speed	85r/min	120r/min	130r/min
X axis maximum speed	90m/min	90m/min	100m/min
Shortest remaining material	85mm	70mm	40mm
Chuck drive types	pneumatic chuck	pneumatic chuck	pneumatic chuck

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