

H Series, Ultra-large Format Sheet Metal Laser Cutting Machine

Experience superior speed, safety, and cleanliness with the Bodor H series for effortless large format metal cutting.



The best choice for large format laser cutting

ULTRA-LARGE FORMAT CUTTING

The 12m+N modular bed of the Bodor H Series features a completely separated worktable and bed design. This enables you to cut ultra-large sheets of 12m, 16m, 20m or longer, with high efficiency and precision.

ENHANCED PROTECTION

The protective cover covering the crossbeam makes operation and the equipment safe. Thanks to the lightweight design, its stable inside mechanical structure guarantees speed in the mean time. *Non-standard versions with crossbeams of 4/5/6 meters do not have the protective cover.

SUPERIOR DURABILITY

The H series has a triangular ultra-high-pressure honeycomb design for the aluminum crossbeam, which combines light weight, strong rigidity, fast response, and low deformation. The crossbeam also has a protective cover for safety and stability.

Cutting Parameter AutoMatch

This function makes every user a "cutting master" by guiding you through parameter adjustments with ease.

Follow-up dust removal

Divides cutting area & uses fans to remove fumes in real-time for a cleaner workspace.

Active obstacle avoidance system

BodorGenius uses sensors and algorithms to detect potential obstacles like tilting parts and automatically avoids a potential collision.

Excellent bevel cuts

The bevel cutting option enables the production of +/- 45 degree bevel cuts, optimizing assembly procedures and subsequent welding.

Remnant layout

With uploaded pictures, the machine can automatically finish positioning and nesting, achieving material utilization rate at maximum.

Overheating offset

To stabilize laser beam focal point during the cutting process, this function counteracts the adverse effects of overheating by adjusting time and temperature. It is especially applicable to cutting thick sheet metal.

Intelligent pressure control

Based on the air pressure deviation feedback, X series automatically adjusts pressure without manual intervention.

Nesting software compatible with Tekla

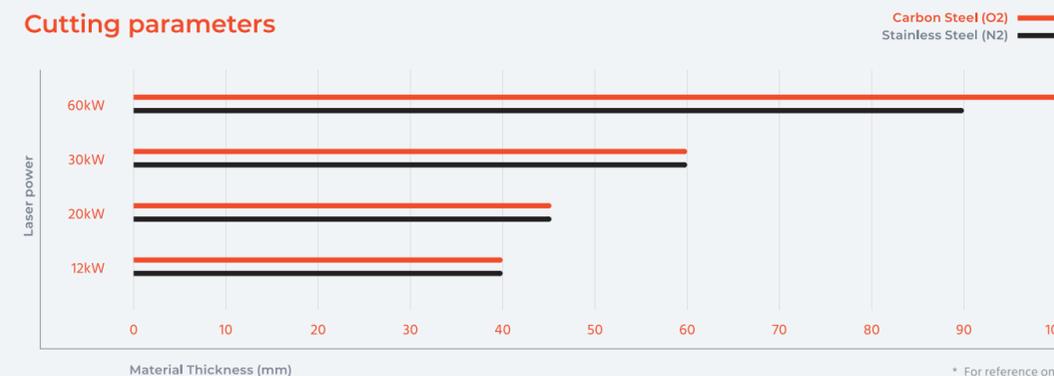
Bodor's nesting software is compatible with Tekla. This combo together simplifies cutting processes with intelligent material utilization.

Technical specifications

	H3000-24/20/16/12	H4000-24/20/16/12	H5000-32
WORKING AREA (mm)	24500/20500/16500/12500x3200	24500/20500/16500/12500x4200	32500x5150
LASER POWER	12/20/30/60kW	12/20/30kW	12kW
POSITIONING ACCURACY (mm/m)	±0.05	±0.05	±0.05
RE-POSITIONING ACCURACY (mm)	±0.03	±0.03	±0.03
MAX. ACCELERATION	0.8G	0.8G	0.8G
MAX. LINKAGE SPEED (m/min)	80	80	80

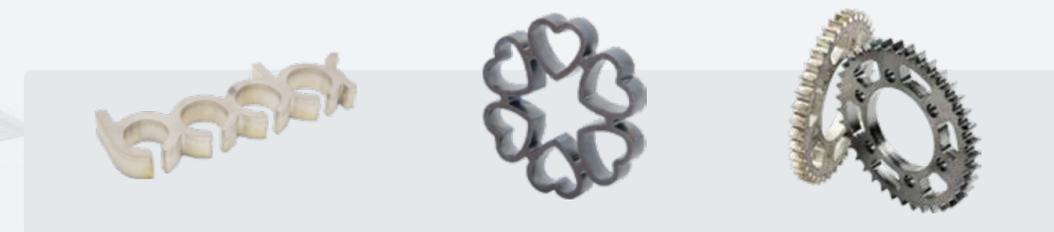
* For complete details, please reach out to our sales team at sales@bodor.com.

Cutting parameters



* For reference only.

Cutting samples



* Certain functions or components mentioned in this document are optional and may not be included in the standard version of the product.



Global No.1 in Sales Volume for 6 Years

2019 – 2024

Bodor has consistently held the top position in global sales volume of laser cutting machines with 1000W and above power for six consecutive years. In 2025, we are poised to continue our upward trajectory, solidifying our position as a market leader and surpassing our previous achievements.



5 Years of Premium Warranty

For three Bodor core components

Bodor's integrated approach reduces failure rates, ensuring quality in transportation, delivery, and maintenance of three Bodor core laser components. Simplified operation, adjustment, and maintenance streamline processes, while expert machine setup and training facilitate smooth equipment adaptation for customers.

BodorThinker Control System

BodorPower Laser Source

BodorGenius Laser Head



Streamline your integration and quality assurance.

INTEGRATED PRODUCTION

Unified origin for stable and efficient quality

INTEGRATED DESIGN

High industrial integration, perfect system compatibility

INTEGRATED TESTING

Rigorously tested for ultimate performance

INTEGRATED DELIVERY

Package and shipped as a whole for enhanced quality

bodor

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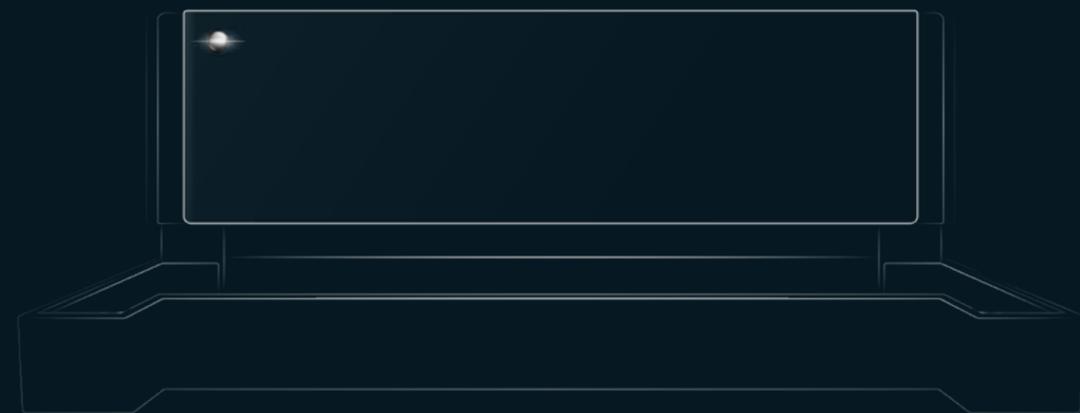
SALES@BODOR.COM BODOR.COM

H Series

Ultra-large format sheet metal laser cutting machine

Global No.1

FOR 6 YEARS IN A ROW



bodor | No.1

5 Years of Warranty