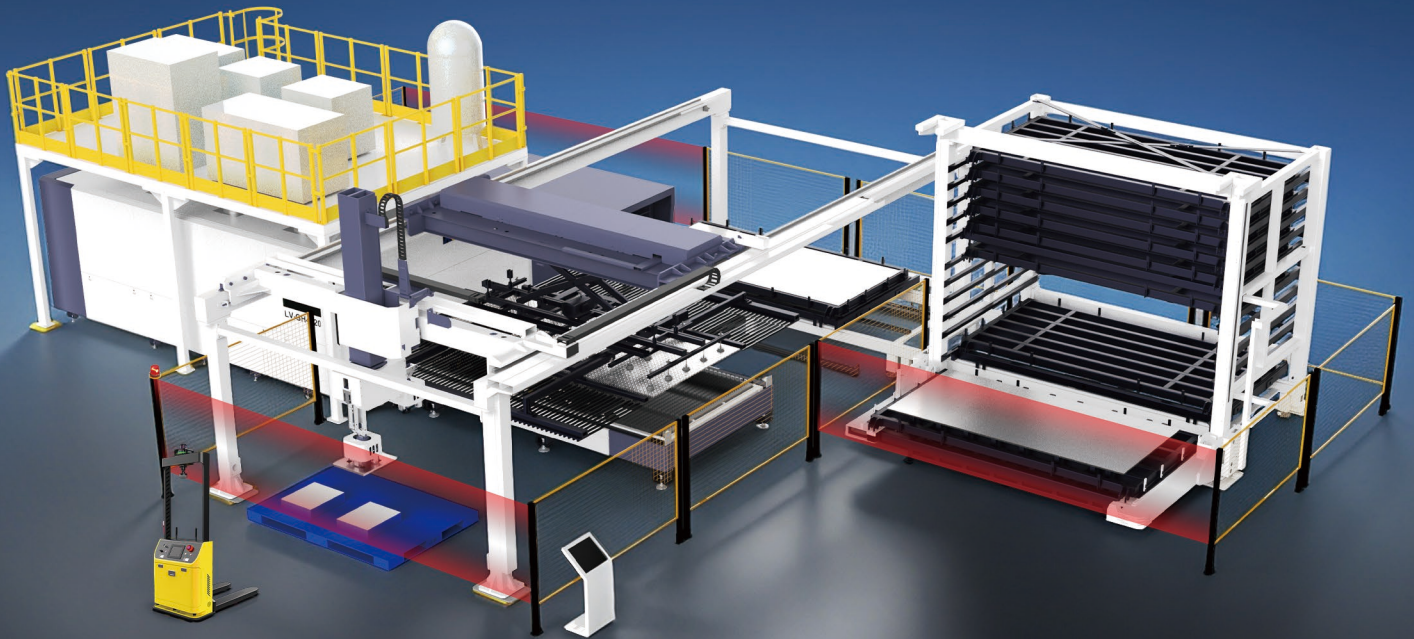




BIPOD Series

Fully Automatic Loading & Unloading Laser Cutting Production Line

FROM CUTTING TO SORTING TO PALLETIZING

COMPLETE AUTOMATION. ONE SYSTEM. ENDLESS POSSIBILITIES.



MORN BIPOD SERIES

The Last Mile of Laser Cutting Automation

Customer Value 02

System Overview 04

Why Choose BIPOD?

Bipod Sorting Unit 05

SORTware 06

STOCKware 07

Digital Closed-Loop 08

Technical Specifications 09

Layout Solutions 10

About Us 11

Industry Applications 12

After-Sales Service 13

Customer Value

What Can BIPOD Bring to Your Factory?



Reduce Labor Costs

Save 3–4 operators in the sorting process, lowering labor costs by **60–80%**.



Boost Production Efficiency

Enable 24/7 unmanned operation, improving overall equipment effectiveness (OEE) by over **60%**.



Eliminate Sorting Errors

Intelligent sorting eliminates the risks of manual sorting errors and omissions.



Reduce Labor Intensity

Eliminate heavy material handling and significantly reduce workplace injury risks.



Data-Driven Management

Automatically generate production reports to support smarter operational decisions.



Fast Return on Investment

Achieve an estimated return on investment (ROI) within **12–18** months.



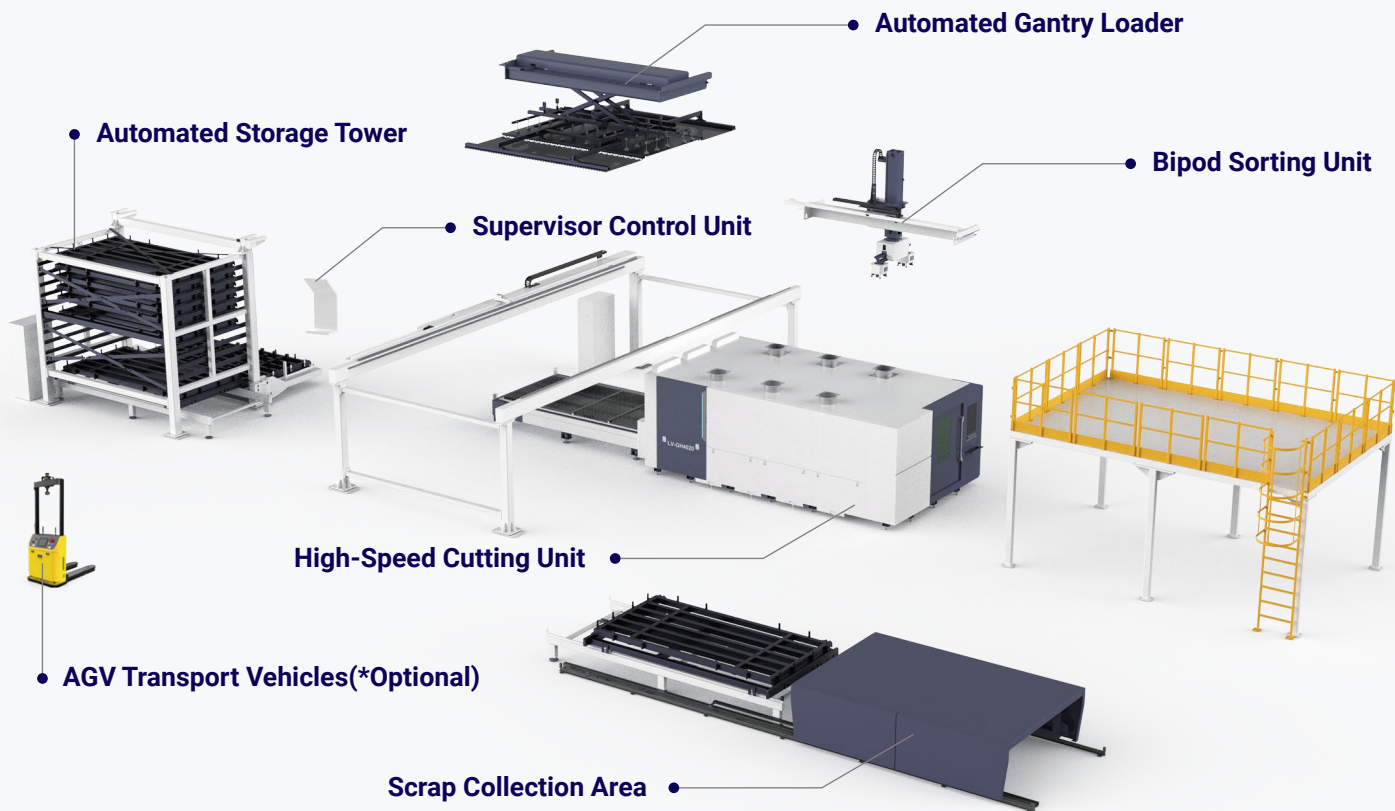
Intelligent Sorting · Redefining Laser Cutting Automation

The Perfect Fusion of Speed, Flexibility, and Intelligence

As laser cutting evolves toward higher speeds, post-cutting sorting and palletizing have become the final bottleneck in production efficiency. Manual handling methods are inefficient, labor-intensive, and prone to safety risks and sorting errors.

The MORN BIPOD Series Intelligent Sorting & Palletizing Center is engineered to overcome these production bottlenecks. By integrating cutting, sorting, and palletizing into a seamless automated workflow, it enables laser cutting lines to achieve true lights-out manufacturing.

System Overview



Endless Possibilities

The MORN BIPOD Series is a fully integrated smart cutting, sorting, and warehousing solution, redefining automation strategies for the metal processing industry.

Flexible Manufacturing

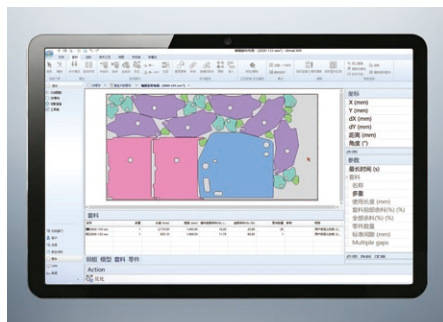
Whether handling large-scale orders or small-batch cutting tasks, the BIPOD Series quickly generates optimized processing and sorting solutions for each unique part design, delivering ultimate flexibility in production.

Minimal Human Intervention

Powered by advanced system control, the BIPOD Series enables fully automated operation within the system. The entire workflow requires only one operator to assign tasks and replenish materials, significantly reducing manual intervention.

Thick Plate Sorting

Featuring an innovative octopus-inspired multi-gripper sorting system, the BIPOD Series enables automated sorting of parts up to 25 mm thick, effectively overcoming the challenges of thick plate handling.



Why Choose BIPOD?

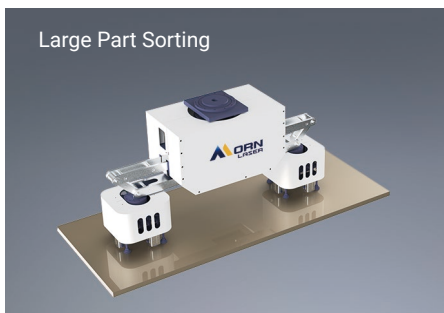


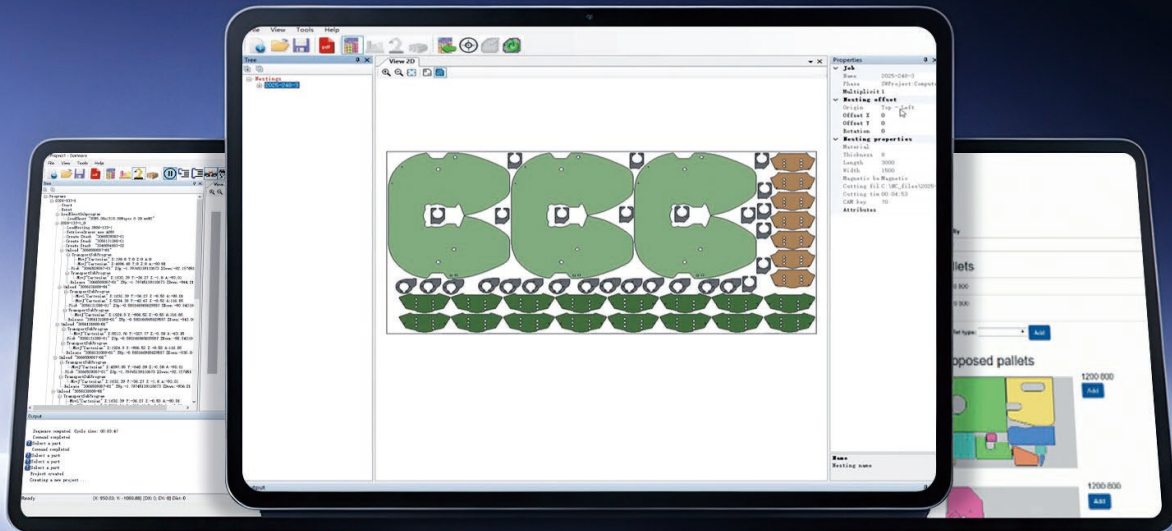
Max. Load Capacity per Gripper: 240 kg Max. Gripping Size: 2000 × 1250 mm
Min. Gripping Size: 150 × 150 mm

Innovative Gripper System · Maximum Sorting Flexibility

The BIPOD Series is equipped with an innovative octopus-style sorting system featuring two independent gripper modules. Each module can work independently or in coordination, providing outstanding flexibility for diverse production scenarios.

Compatible with both vacuum suction cups and magnetic tools, each gripper adapts to parts of various shapes and weights.

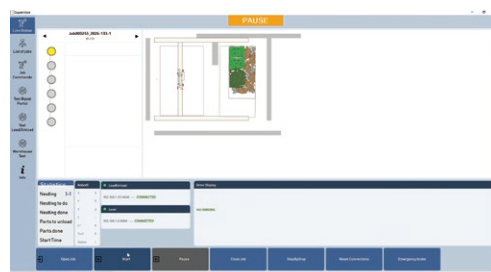
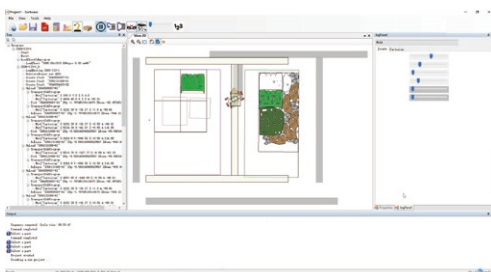




SORTware – Intelligent Sorting Software

As the core software system of the BIPOD Series, SORTware delivers true intelligent automation.

- Automatically analyzes each cutting drawing and determines the optimal gripping positions
- Automatically groups parts for pallet nesting, while supporting customized stacking rules
- Generates optimized sorting paths with multi-axis coordinated movement for efficient operation



STOCKware



Intelligent Storage Management System – STOCKware

STOCKware is an intelligent warehouse management system for automated storage and management of raw sheets and finished parts.

1. STOCKware® Scheduling Program

Loads all major programs of sheet metal cutting processes and automatically determines cutting sequences based on priority settings. Integrated with CAM nesting software, it automatically receives all nesting information for parts to be processed.

2. STOCKware® Inventory Management

Manages sheet loading and unloading operations within the material storage system. Users can view the storage information of each rack location, including stored sheet details such as ID, material type, dimensions, and thickness.

3. STOCKware® Master Control

Enables communication with the laser cutting machine and displays nesting information of sheets scheduled for processing.



Digital Closed-Loop Manufacturing

From ERP/MES order management to finished-part palletizing, the BIPOD Series creates a complete digital closed-loop workflow with one-click operation and minimal human intervention.

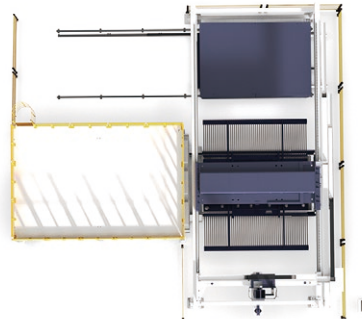
Task Acquisition → Cutting → Intelligent Sorting → Automated Palletizing → Data Feedback

- Seamless integration with customer MES/ERP systems
- Real-time visibility of equipment status and production progress

Technical Specifications



Cutting Unit + Storage System + Sorting Unit

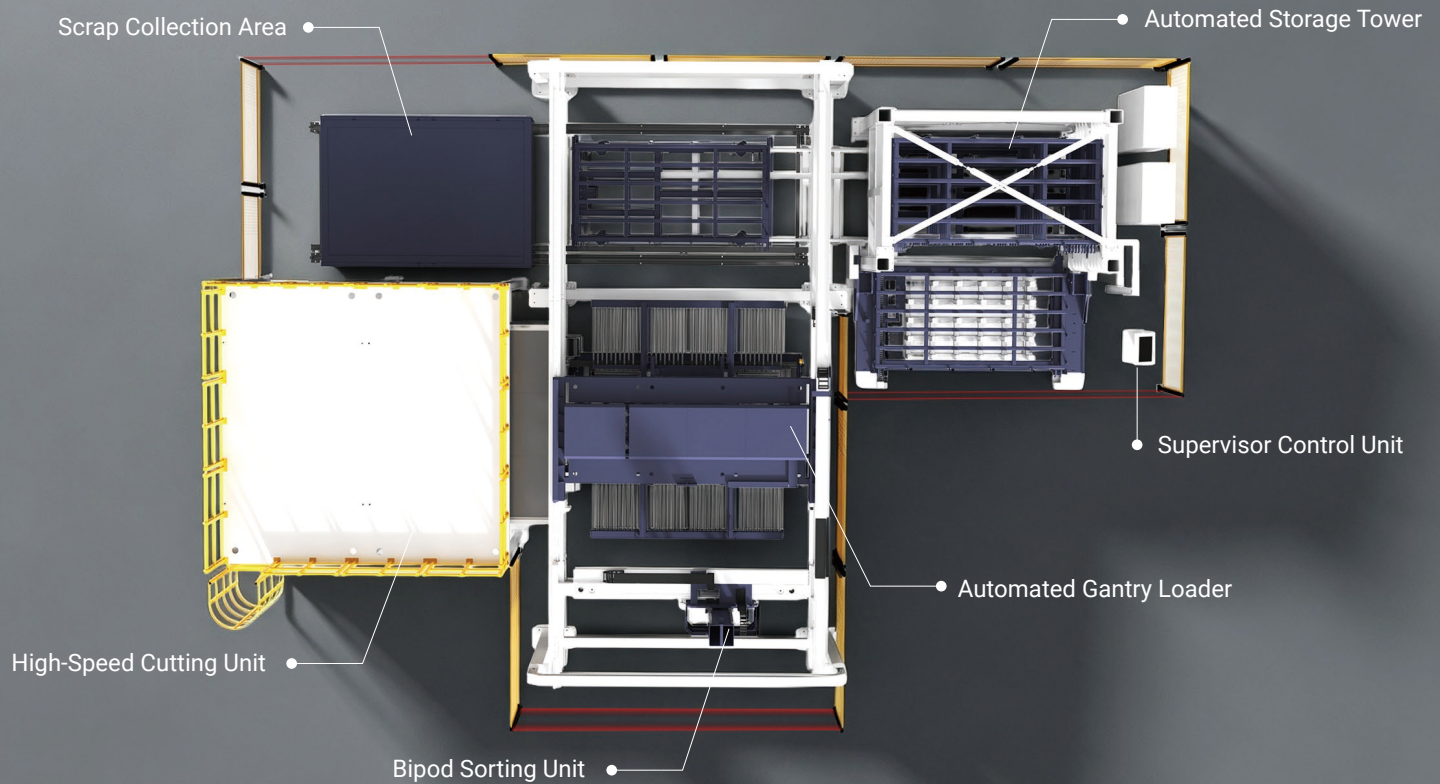


Cutting Unit + Sorting Unit

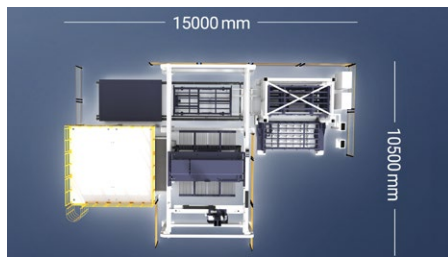
Model	GH3015	GH4020	GH6025
Applicable Sheet Thickness	1 – 14 mm	1 – 16 mm	1 – 25 mm
Max. Gripping Weight	240 kg		
Max. Gripping Size	2000 × 1250 mm		
Min. Gripping Size	150 × 150 mm		
Positioning Accuracy	±0.5 mm		
Gripper Type	Vacuum Matrix Suction Cups / Magnetic Tools (Automatic Tool Changing)		
Number of Grippers	2 Sets		
Gantry Structure	Gantry-Type Three-Axis Coordinate System		
Storage Tower Levels	4 – 15 Levels (Customizable)		
Max. Load Capacity per Level	3000kg	5000 kg	5000 kg
Applicable Sheet Size	3000 × 1500 mm	4000 × 2000 mm	6000 × 2500 mm
Software System	ALMACAM (Nesting) + SORTware (Sorting) + STOCKware (Storage) + SUPERVISOR (Master Control)		
System Integration	Seamless Integration with MES / ERP / AGV Systems (Optional)		
Safety Protection	Laser Protection / Power & Gas Failure Anti-Drop Protection / Video Monitoring / Safety Light Curtain / Safety Fence		

Layout Solutions

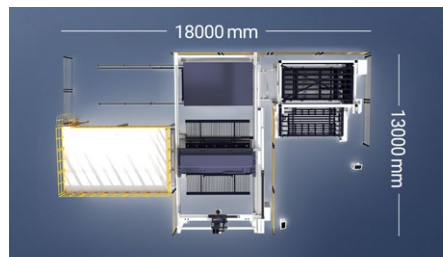
Flexible Adaptation to Every Workshop



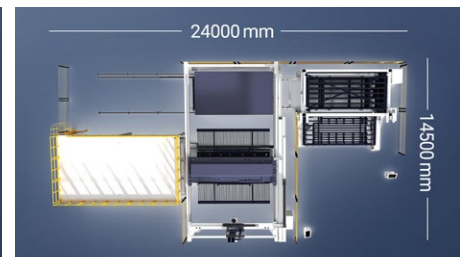
The BIPOD Series features a modular design, allowing flexible configuration based on customers' production requirements and workshop space.



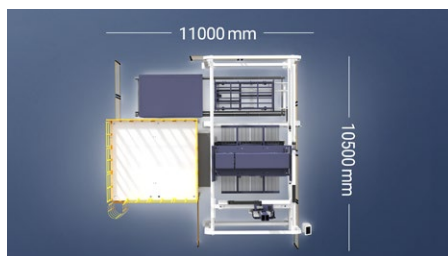
GH3015 Cutting Unit + Storage System + Sorting Unit



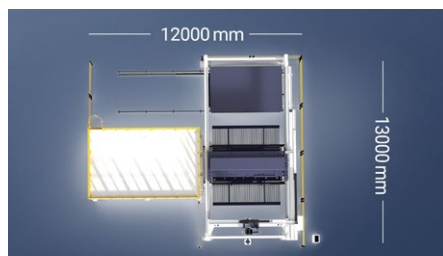
GH4020 Cutting Unit + Storage System + Sorting Unit



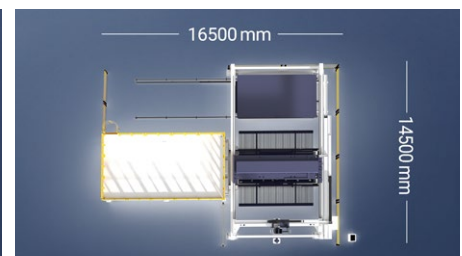
GH6025 Cutting Unit + Storage System + Sorting Unit



GH3015 Cutting Unit + Sorting Unit



GH4020 Cutting Unit + Sorting Unit



GH6025 Cutting Unit + Sorting Unit

Your Trusted Partner for Intelligent Manufacturing



Morn Laser embraces the ever-changing fabrication demand with a strong commitment to excellent quality and reliable service.

Since our establishment in 2008, we have provided state-of-the-art laser manufacturing solutions to over 100,000 customers in more than 155 countries. The 80,000 square-meter factory equips us with a powerful capacity to maximize your productivity.

Morn Laser strives to help those who believe in us succeed. The focus is on the automation and digitalization of the metal cutting, welding, marking, and cleaning process chains. With 18 years of experience dedicated to the laser industry, our laser equipment is not only certified by the FDA, CE, UL, and ASME but also widely recognized by fabricators and distributors worldwide.

60+

Overseas service agencies

156

Export countries & regions

8

Global service centers

80,000M²

Global top machining and assembly center

100,000+

Satisfied customers worldwide



Industry Applications

Versatile Solutions for Various Manufacturing Industries

BIPOD Series delivers intelligent sorting and palletizing solutions for high-volume, multi-variety production environments across diverse industries.

Construction Machinery Manufacturing



Steel Structure Fabrication



Shipbuilding & Offshore Engineering



Power Transmission Towers



Automotive Components Manufacturing



Sheet Metal Fabrication



High-Mix, High-Volume Production



After-Sales Service

Global Support · Reliable Service · Lasting Partnership

A dedicated online service group is established for every customer after purchase, with response times within 24 hours. Lifetime maintenance support is provided after warranty period, along with ongoing software & hardware support and free software upgrades.



Exclusive online service group

Exclusive WeChat or WhatsApp group with designated service engineer and sales person will be set up for customers instant service requirement.



Lifetime maintenance

When the equipment warranty expires, maintenance services will be provided for life.



24h online

Our customer service staff are on duty for 24/7 throughout the year. They are fully prepared to serve every customer anytime and anywhere.



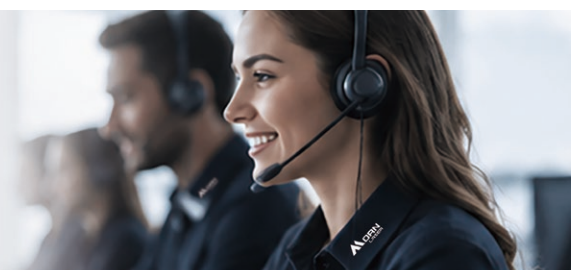
Lifetime free upgrade

Extensive software and hardware support is still provided after the warranty expires, and free upgrades are enjoyed for life



RELIABLE SUPPORT LONG-TERM PARTNERSHIP

Always by your side with professional service and continuous support throughout the equipment lifecycle





morn laser

MORN BIPOD SERIES

The Last Mile of Laser Cutting Automation

Morn Laser Technology Co., Ltd.



www.mornlaser.com



info@mornlaser.com



+86 151 6916 6350



www.mornlaser.com