

VESD

WeFiber Series Catalog



**PRECISION
THROUGH
INNOVATION**

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ABOUT US

Milestone

1999

10

Established WESO; began specializing in the overhaul of laser cutting machines

2022

04

Started development of Korean-made fiber laser cutting machines

2023

05

Established R&D center

2024

01

Acquired ISO 9001 & ISO 14001



Registered patent for sheet material detection system for laser cutting machines



WeFiber 3015T certified with S-Mark by the Korea Occupational Safety and Health Agency



Registered patent for laser cutting system technology



ABOUT US

Greeting

**At WESO, we are not simply a manufacturer of machine.
We are a company built on trust.**

From the very beginning, trust has been at the heart of everything we do. We have remained committed to earning and keeping that trust through consistent quality and reliable service.

“The Company that Repays Trust with Consistency.”

This slogan captures the essence of our identity and our approach to business.

Since our establishment in 1999, WESO has built its reputation through the overhaul of laser cutting machines, offering reliable equipment and systematic service backed by practical field experience and engineering know-how. This foundation has been instrumental in driving our sustained growth.

We have always listened closely to our customers, understood the realities they face in the field, and developed practical solutions to meet their needs. This dedication has shaped who we are today.

We’ve grown with our customers, and we will continue moving forward together.

Today, we are fully focused on the development and production of Korean-made fiber laser cutting machines, continually pushing boundaries to deliver optimal solutions that combine high performance with cost efficiency.

With industry-leading technology and service, we remain dedicated to delivering exceptional value to our customers while strengthening our position as a global leader in laser cutting, built on Korea’s strong manufacturing foundation.

Kwang-Wook Kim

Chief Executive Officer, WESO

WeControl™

WeControl™

WeControl™: A User-Friendly Interface Designed and Developed by WESO

Simple and intuitive design that users can quickly grasp

Provide access to a wide range of operational data—including job status, progress, and maintenance alert

Operator-centered interface focused on productivity and ease of use



Operating System



Monitor angles can be easily adjusted to the left or right according to operator system

Reliable panel structure designed for longevity and low maintenance

Dual operating monitors positioned at the front and side of the machine maximize productivity

Touchscreens: 18.5" front / 10" side

WeControl™



01 AutoPlan™ Automated Production Planning and Control

AutoPlan™ simplifies production with a single cutting program, automatically stopping when the target quantity is reached. Cut quantities are tracked in real time, and with a tap of the “Confirm” button, the system swaps pallets instantly so the next sheet begins without delay.

By automating repetitive tasks, AutoPlan™ helps maximize productivity and ensures continuous, and efficient workflow.

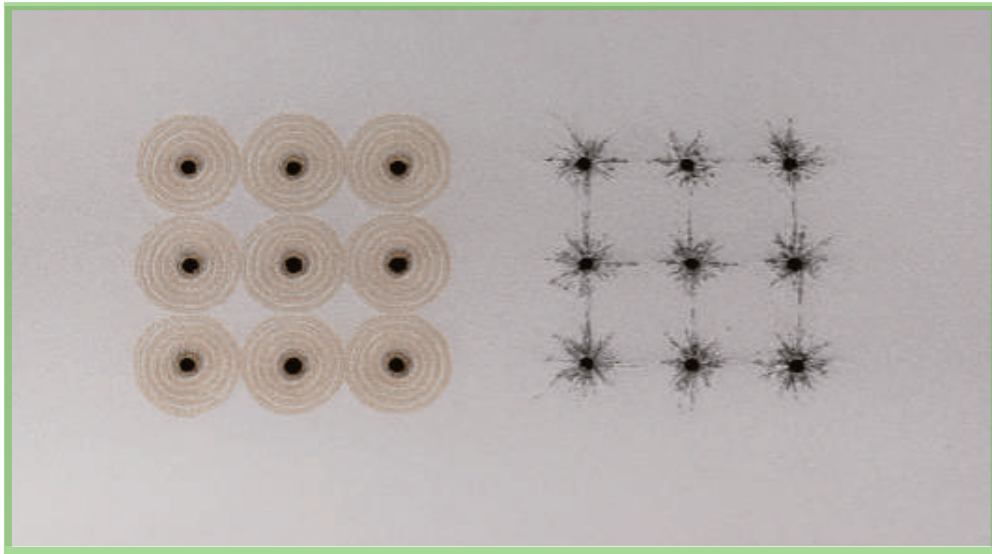


02 QuickTrim™ Practical Scrap Trimming Function

QuickTrim™ is a practical feature that allows operators to quickly cut leftover scrap into straight or polygonal shapes after the main cutting process is complete.

Irregularly shaped scrap can cause issues such as sharp edges, handling difficulty, and wasted space.

With QuickTrim™, operators can divide or cleanly reshape remnants for easier handling and better material management.



03 CleanPierce™ Precision Post-Piercing Spatter Removal

CleanPierce™ is a dedicated post-processing function that removes spatter—molten metal particles generated during laser piercing—from the area around the piercing point.

Using preset power and duty cycles under consistent frequency, the system cleans spatter by tracing circular paths of increasing diameter (e.g., 1mm → 2mm → 3mm), similar to a marking motion.

CleanPierce™ ensures a clean start for the cut and improves overall cutting quality.

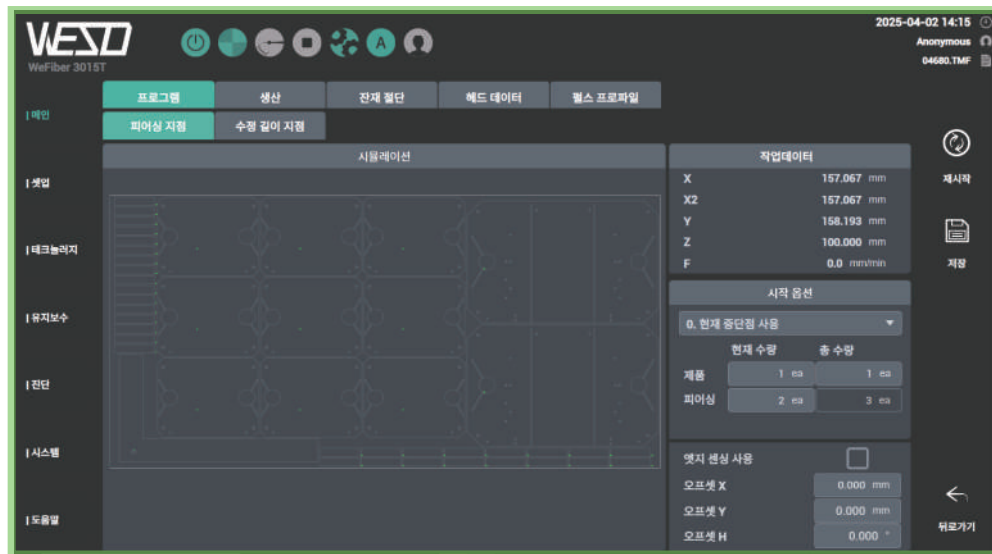


04 PierceProfile™ Precision Piercing Control Based on Power Profiling

PierceProfile™ enables high-precision control during piercing by applying segmented power settings over time instead of relying on a single fixed output.

Each power profile maintains a consistent frequency while gradually increasing power at predefined time intervals. **This allows the system to optimize piercing conditions based on material characteristics, resulting in cleaner and more stable piercing performance.**

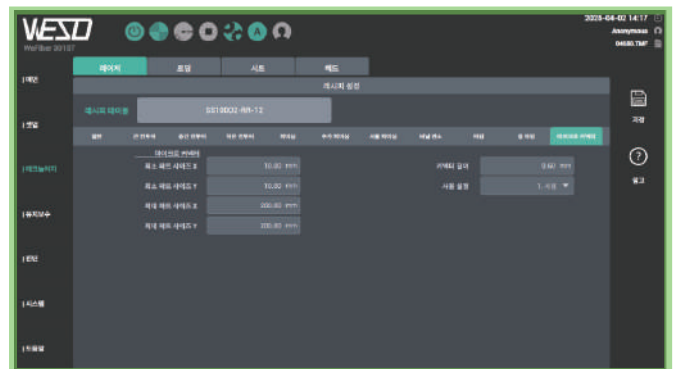
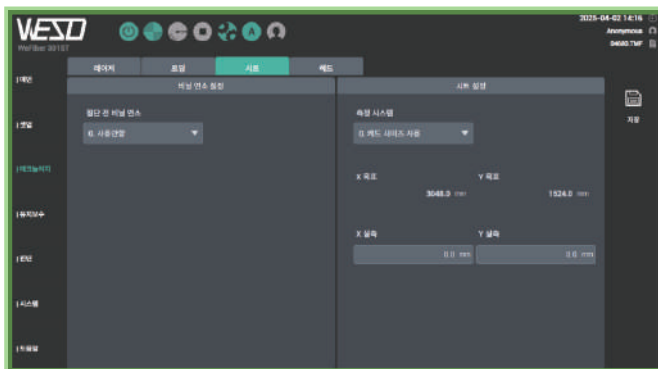
WeControl™



05 ReEntryPoint™ Resume Cutting Precisely Where You Left Off

ReEntryPoint™ lets operators resume cutting exactly where the previous operation was interrupted—whether at a piercing point or along a cut path—without needing to modify the CAM file.

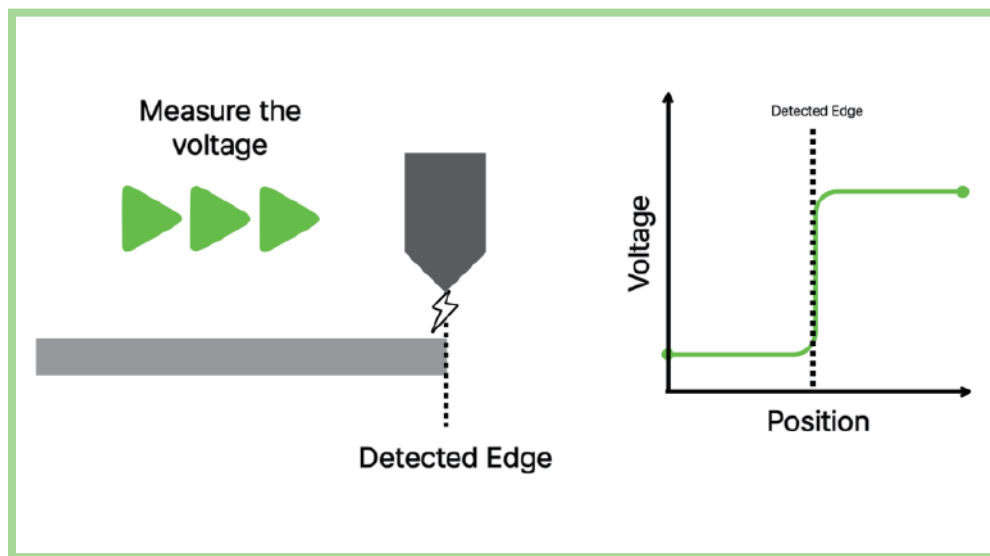
This feature is especially useful for recovering from errors, continuing after a test cut, or restarting after an emergency stop. **With simple, in-machine controls, ReEntryPoint™ helps ensure smooth recovery and uninterrupted workflow in real-world conditions.**



06 FieldAssist™ Specialized Support Function for Immediate On-Site Use

FieldAssist™ allows operators to apply micro-connector or film-burning functions directly from the machine's HMI—no CAM editing required.

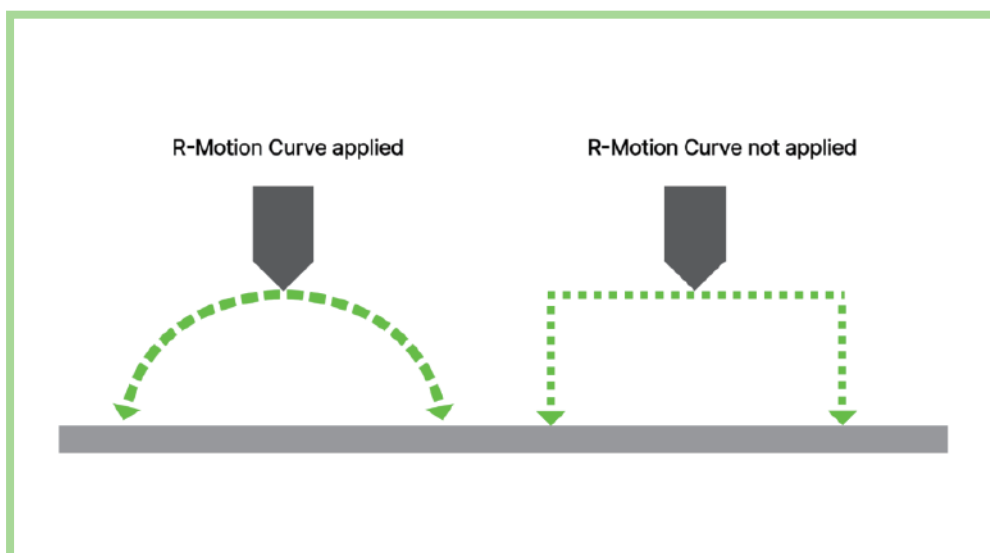
Operators can simply select and activate these functions before cutting, **which allows for quick and flexible operation in high-mix, low-volume production environments.**



07 EdgeSensing™ Automatic Edge Detection for Accurate Cutting Start

EdgeSensing™ detects the edge of the material by monitoring voltage changes between the cutting head and the sheet. A sudden spike in voltage indicates the sheet boundary, allowing the machine to automatically set an accurate starting point for cutting.

This function can be activated as needed in the technology settings page, **reducing operator workload during setup while maintaining cut accuracy and improving overall productivity.**



08 R-Motion Curve™ Fast and Safe Parabolic Head Movement

R-Motion Curve™ enables the cutting head to move along a smooth parabolic path between operations, reducing travel time and enhancing processing efficiency. In areas with potential collision risk, the system automatically shifts to vertical movement to ensure safety. Once R-Motion function is enabled in the CAM program, operators can easily turn it on or off through the machine interface. **This smart motion control is designed to balance high-speed processing with operator safety.**

WeControl™

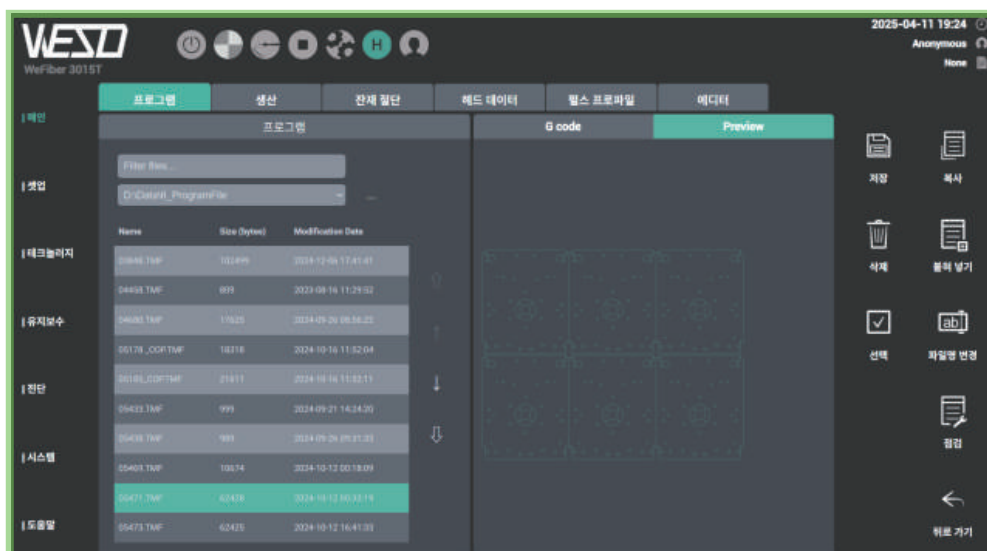


09 MaintLog™ Smart Maintenance Alerts and History Tracking

MaintLog™ manages recommended maintenance intervals for each component. When a scheduled task is due, an alert icon appears on the HMI screen.

Upon task completion, pressing the reset button on the right automatically logs the service time, which allows accurate maintenance history tracking.

MainLog function enables operators to proactively manage routine maintenance, ensuring long-term reliability and safety of the machine.



10 DirectSelect™ One-Touch Program Loading with Cutting Parameters

DirectSelect™ automatically loads the appropriate cutting parameters when a job file is selected. Operators can access job files via the machine's designated network folder, USB drive, or server. Once selected, the program instantly applies the optimal settings, **improving both usability and operational efficiency.**

WePackage™

WePackage™

“WePackage™ is WESO’s all-in-one smart solution platform, purpose-built to integrate and optimize every aspect of machine operation.”

It provides full support for machine status monitoring, software optimization, safety management, and production tracking.

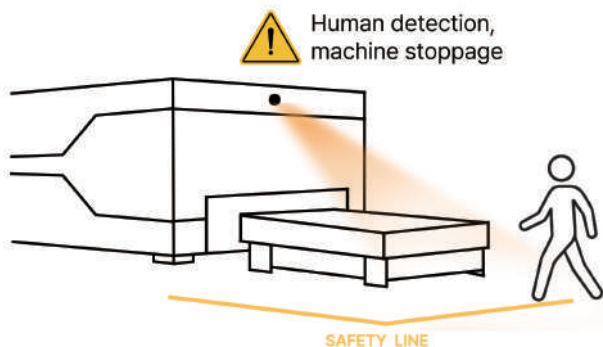
01 WeGuardianPro™



02 WeOTA™



03 WeSense™



04 WeReport™



01 End & Cross Conveyor System

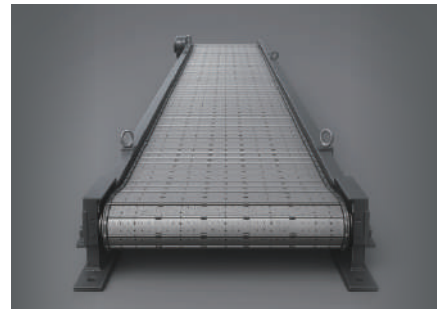
Optimized Scrap Handling for a Cleaner Workspace

Engineered for efficient scrap management during cutting, the system includes a standard end conveyor that directs falling material into a chip box for automatic discharge.

A cross conveyor can be added as an option, redirecting scrap sideways into a user-designated collection bin.

By optimizing the scrap removal path, this system improves workplace cleanliness and enhances maintenance efficiency.

Applicable to 3015/4020 models



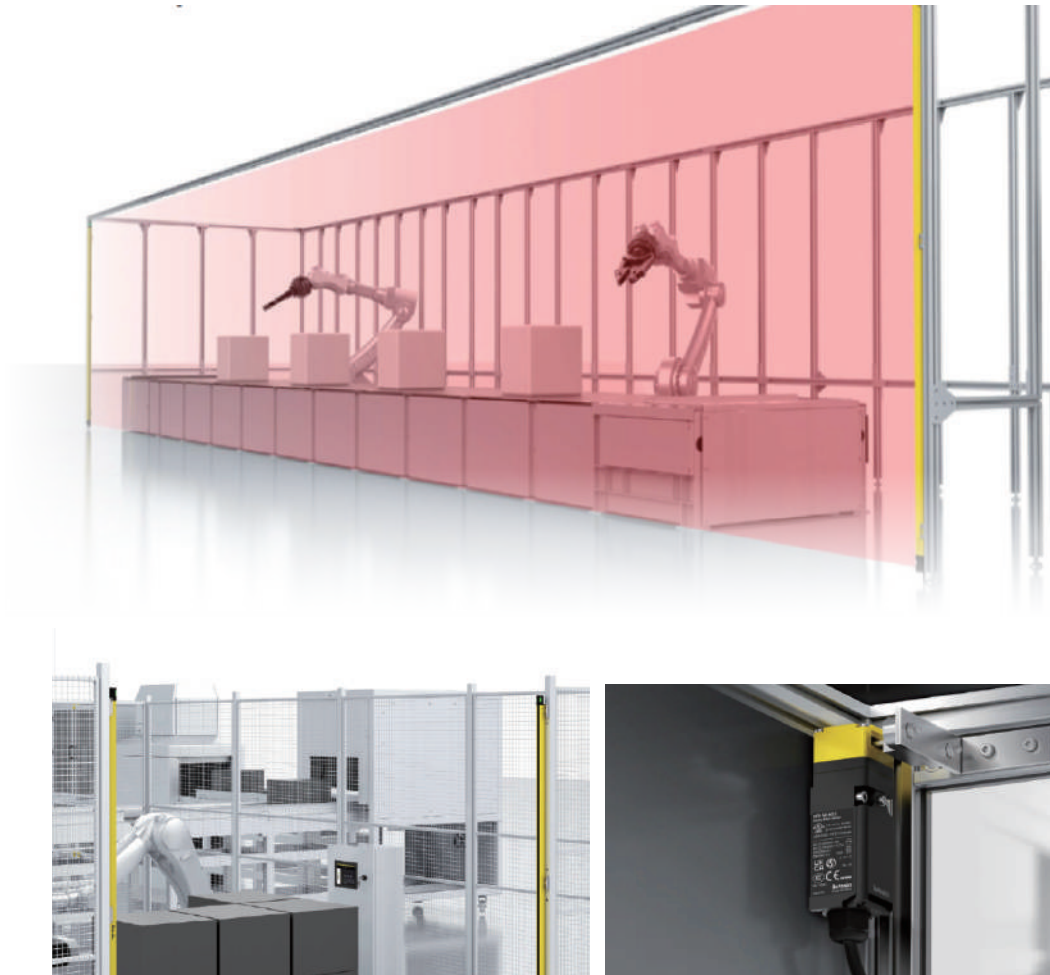
02 WeLoader

Automated Material Loading for Higher Productivity

WeLoader is an automated loading system designed to improve the efficiency of laser cutting operations. It reduces setup time and optimizes material flow by automatically supplying metal sheets to the cutting table. By minimizing repetitive handling, WeLoader helps create a more productive and streamlined work environment.



WeSafeGuard™



01 Light Curtain & Safety Door Switch

Built-In Safety Features

This system comes standard with a light curtain and safety door switch to immediately halt operation in the event of unauthorized access or door opening.

- **Light Curtain:** Stops the machine when a person enters the hazardous zone
- **Safety Door Switch:** Stops the machine when the door is opened

These features are designed to protect both the operator and the machine during operation.

WeFiber Series

WeFiber S Series



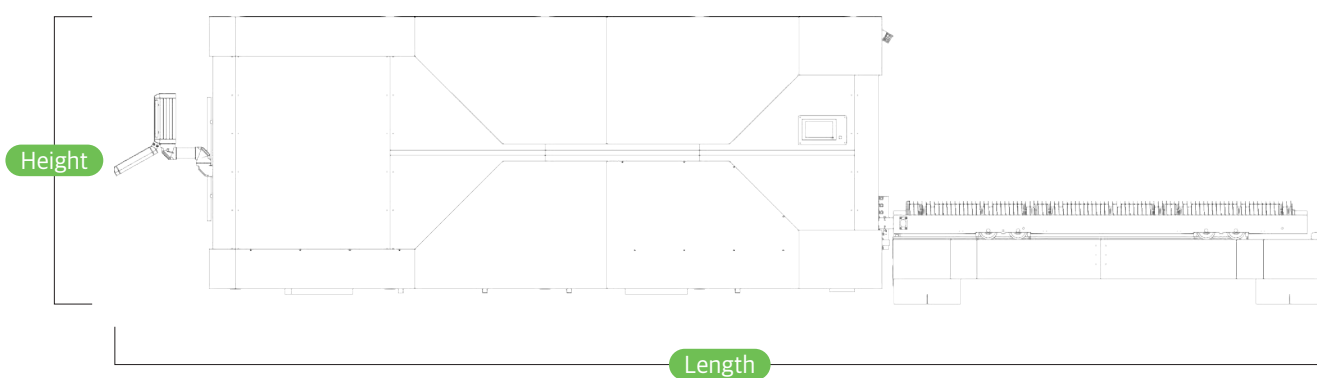
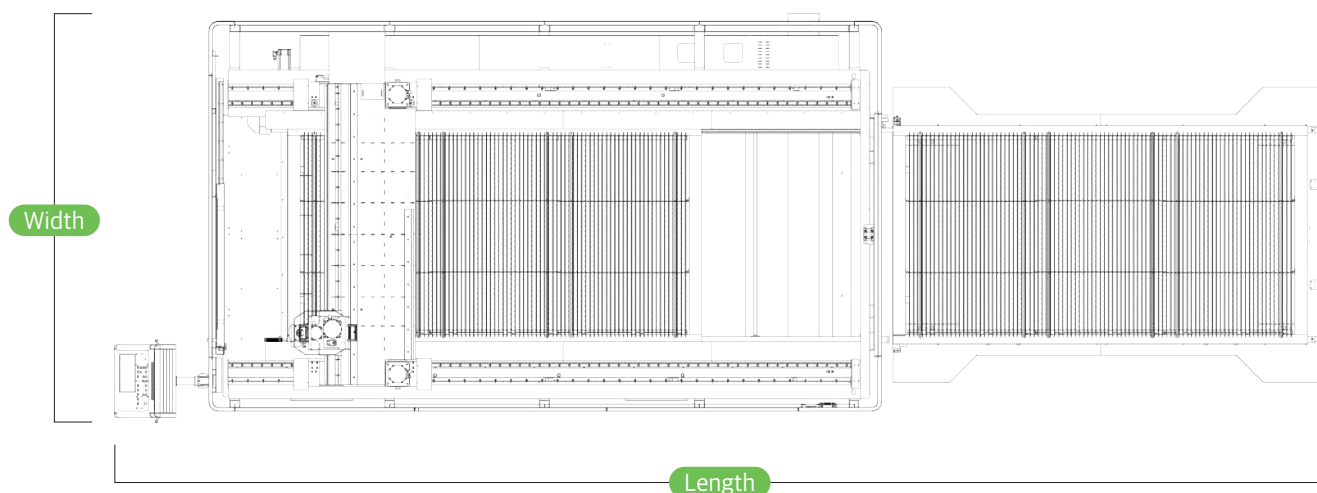
Seperate Oscillator, control cabinet & frame for easier maintenance

Compact design for space-limited installations

Available in 3015 / 4020 size for expanded cutting range options

Built-in end conveyor for efficient scrap discharge

WeFiber 3015S	Model	WeFiber 4020S
3100 × 1560 mm	Working Area	4150 × 2250 mm
140 m/min	Simultaneous Travel Speed	140 m/min
1.5 G	Acceleration	1.5 G
±5/100 mm	Positioning Accuracy	±5/100 mm
±3/100 mm	Repeatability	±3/100 mm



WeFiber 3015S	Model	WeFiber 4020S
9021 mm	Length	10567 mm
3113 mm	Width	3813 mm
2203 mm	Height	2203 mm

WeFiber L Series



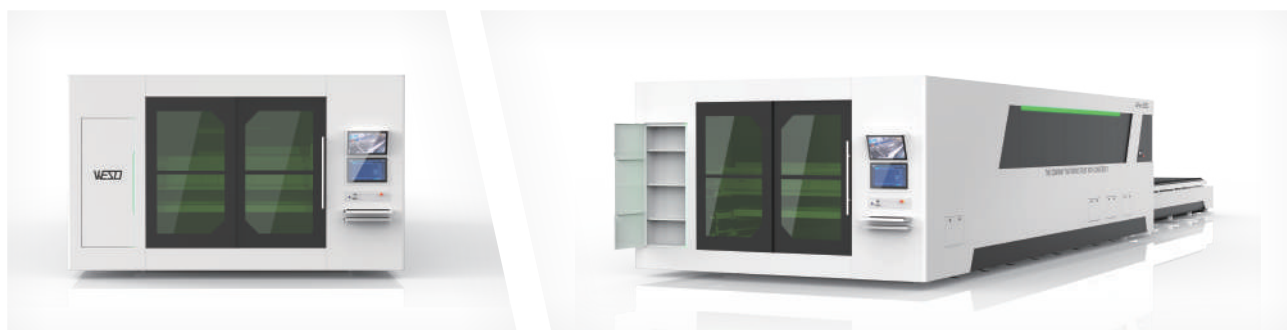
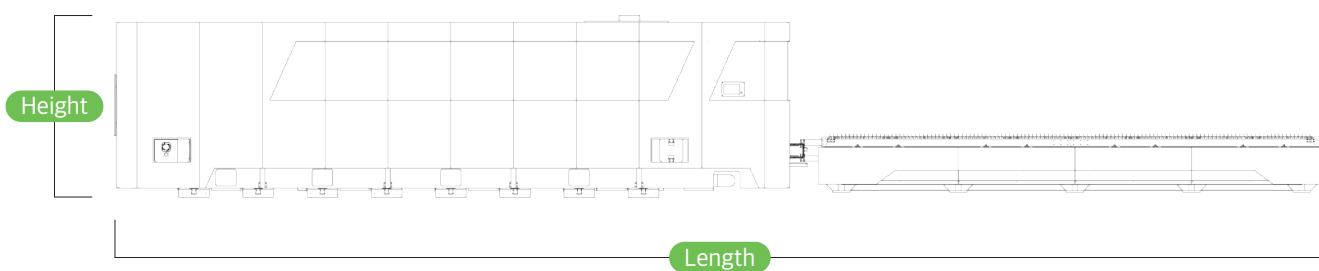
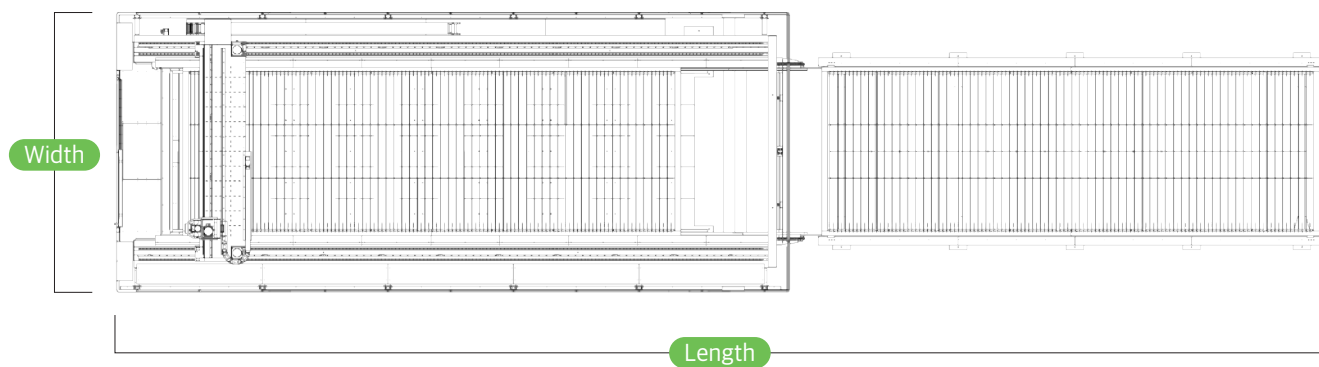
Seperate oscillator, control cabinet, and frame for simplified maintenance

Upgraded drawer-type pallet changer optimized for maintenance and continuous operation

Large monitor and wide laser-protection window for easy internal/external monitoring

Available in 6025 & 8025 sizes for extended cutting range options

WeFiber 6025L	Model	WeFiber 8025L
6200 × 2600 mm	Working Area	8300 × 2600 mm
115 m/min	Simultaneous Travel Speed	115 m/min
1.0 G	Acceleration	1.0 G
±5/100 mm	Positioning Accuracy	±5/100 mm
±3/100 mm	Repeatability	±3/100 mm



WeFiber 6025L	Model	WeFiber 8025L
17077 mm	Length	21140 mm
4718 mm	Width	4718 mm
2782 mm	Height	2782 mm

WeFiber G Series



Modular bed structure supporting up to 40 meters of cutting length

Separated table and frame design for stable thermal performance

Section-based dual-suction system for efficient dust removal

Supports bevel cutting and materials up to 40 mm thick

Maximum Working Width	2500 ~ 5000 mm
Maximum Working Length	8000 ~ 40000 mm
Laser Power	6000 ~ 40000 W
Positioning Accuracy	±3/100 mm
Repeatability	±1/100 mm
Maximum Travel Speed	70 m/min
Maximum Acceleration	0.8 G

WeFiber P Series



Supports cutting of various profiles—round, square, oval, H-beams, C-channels, angles, and more

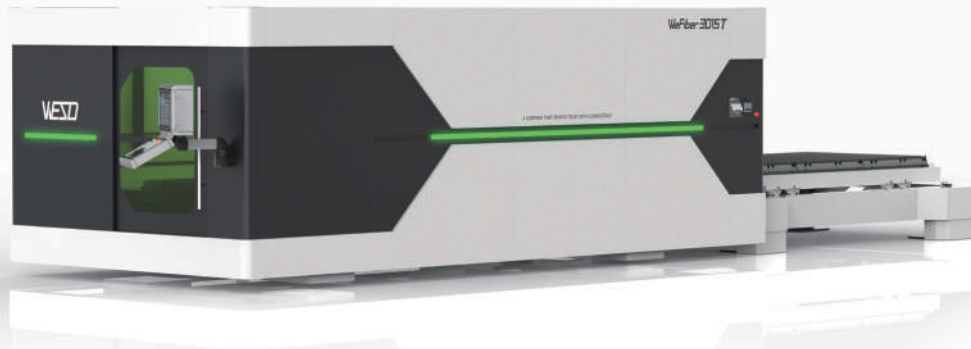
Intelligent auto-chuck system with full-stroke pneumatic chuck for fast and secure clamping

High-speed, high precision cutting— ± 0.03 mm accuracy and speeds up to 90 m/min

Semi-automated loading/unloading system for increased productivity and improved operator comfort

Chuck Size	300/320/350/450/500/600 mm
Number of Chucks	3 or 4
Maximum Tailing Length	0 ~ 100 mm
Maximum Working Length	3000/6000/9000/12000 mm
Laser Power	3000 ~ 20000 W
Positioning Accuracy	$\pm 5/100$ mm
Repeatability	$\pm 3/100$ mm
Maximum Travel Speed	90 m/min
Maximum Acceleration	1 G

WeFiber T Series



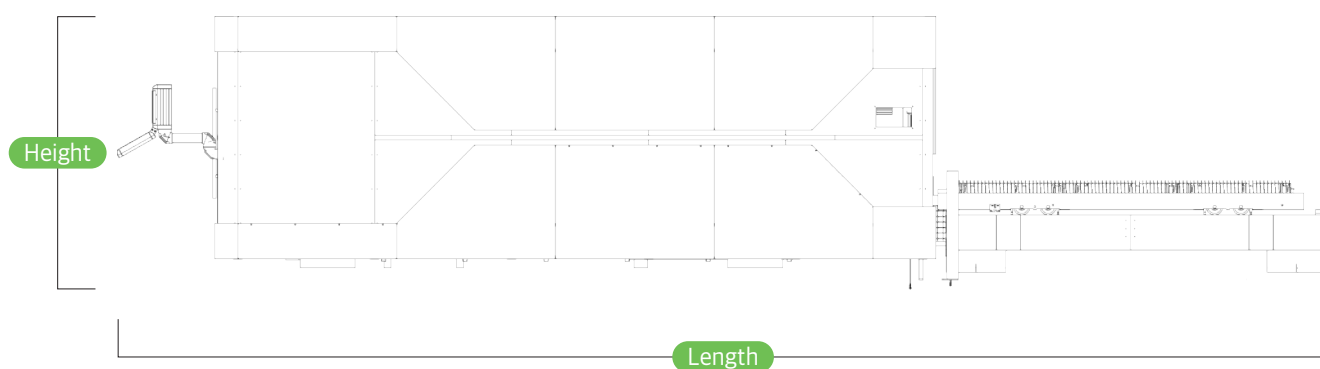
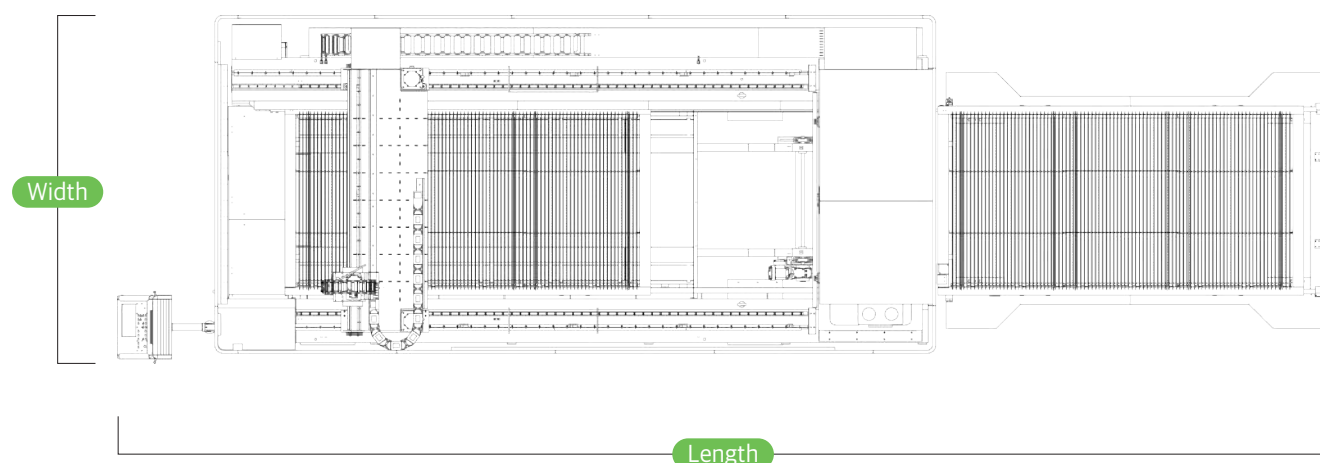
All-in-One Frame Design
: Integrated oscillator, control cabinet, and machine frame

Unified structure for simplified installation and reduced setup time

No cleanroom required
: Oscillator housed inside the control cabinet

Available in 3015 & 4020 sizes for flexible cutting range options

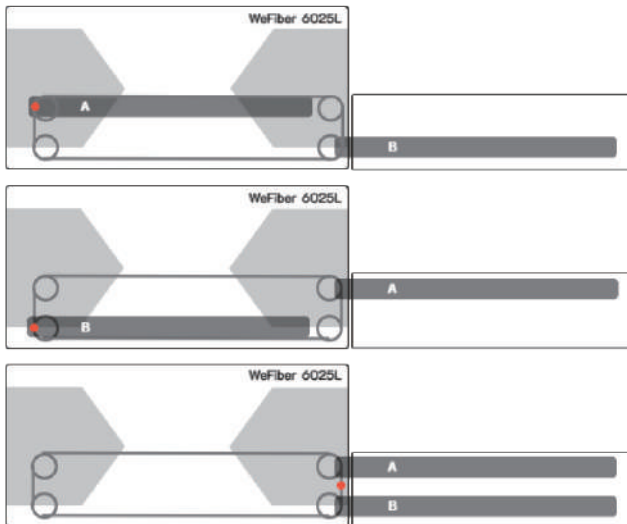
WeFiber 3015T	Model	WeFiber 4020T
3100 × 1560 mm	Working Area	4150 × 2250 mm
140 m/min	Simultaneous Travel Speed	140 m/min
1.5 G	Acceleration	1.5 G
±5/100 mm	Positioning Accuracy	±5/100 mm
±3/100 mm	Repeatability	±3/100 mm



WeFiber 3015T	Model	WeFiber 4020T
10160 mm	Length	11902 mm
3113 mm	Width	3813 mm
2245 mm	Height	2245 mm

WESO's New Pallet Changer System

The Independent Drawer-Type Pallet Changer



This newly developed independent drawer-type system overcomes the key challenges of traditional drawer-type pallet changers.

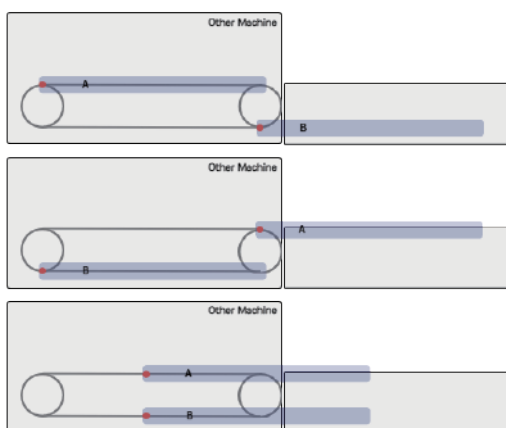
It allows A/B pallet exchange at the same time, removes dead zones inside the machine, and makes maintenance much easier.

- Improved version of the conventional drawer-type pallet changer
- Independent A/B pallet control with simultaneous exchange capability
- Enhanced accessibility for internal machine maintenance
- Cost-effective design without the use of hydraulic lifts

Patent Information

Patent Title Worktable for Laser Cutting Machine
Registration Number No. 10-2799051
Patent Assignee WESO

The WeFiber L Series improves productivity and maintenance with its independent drawer-type pallet changer.



Drawer-Type Pallet Changer

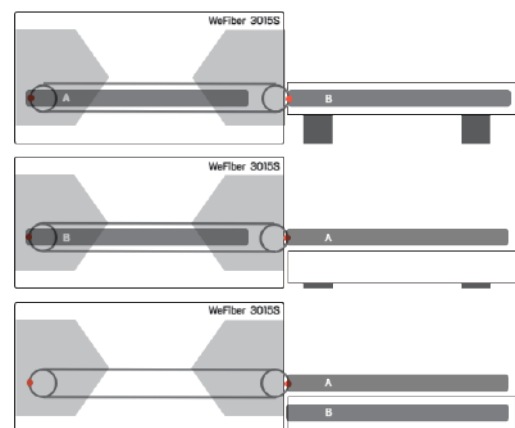
Commonly used in low-cost machines

Simultaneous A/B pallet exchange not supported

Separate A/B rail structure inside the machine

Lower maintenance costs

Limited accessibility for internal maintenance



Hydraulic Up-Down Pallet Changer

Typically used in high-performance machines

Single-rail system for A/B pallets

Equipped with hydraulic lift system

Supports simultaneous A/B pallet exchange

Consistent pallet height helps maintain stable cutting conditions

Certifications in Quality and Safety

“Safety and benefits, all in one.”

S-mark

The WeFiber 3015T is S-mark certified by KOSHA (Korea Occupational Safety and Health Agency), a national institution that verifies the electrical and mechanical safety of industrial machinery. This certification underscores our commitment to operator safety and a secure working environment.

More than just a compliance mark, the S-mark delivers practical advantages:

it helps prevent workplace accidents, improves readiness for safety inspections, and offers added value in public-sector bids. By minimizing operational risks, it also contributes to lower maintenance and service costs.

We are actively pursuing additional certifications, including CE and UL, as part of our ongoing commitment to advanced safety technology and our goal of becoming a globally trusted partner in industrial manufacturing.

Prevention of industrial accidents
and improved safety inspection
readiness

Long-term, low-interest financing
for facility improvements



WeFiber ensures the **safety and reliability** of every machine our customers use through certification.

Certifications in Quality and Safety

**“Proven Quality and Sustainability,
Backed by Global Standards.”**

ISO 9001 / ISO 14001 Certified

WeFiber is certified under ISO 9001 and ISO 14001 for its entire production process, ensuring structured quality control and eco-friendly manufacturing.

We manage inspection standards from parts sourcing to final checks, using both full and sample inspections to reduce defects and maintain consistent quality.

Our commitment to energy efficiency, recycling, and waste reduction strengthens our position as a sustainable manufacturer aligned with ESG values.

Standardized production process

Ensures consistent equipment performance

Reduced defect rates and A/S risks

Enhances operational safety on-site

Strengthened ESG responsiveness

Builds trust with public institutions and large enterprises



WeFiber upholds the **fundamental reliability** of every machine through certified standards.

SERVICE CENTER

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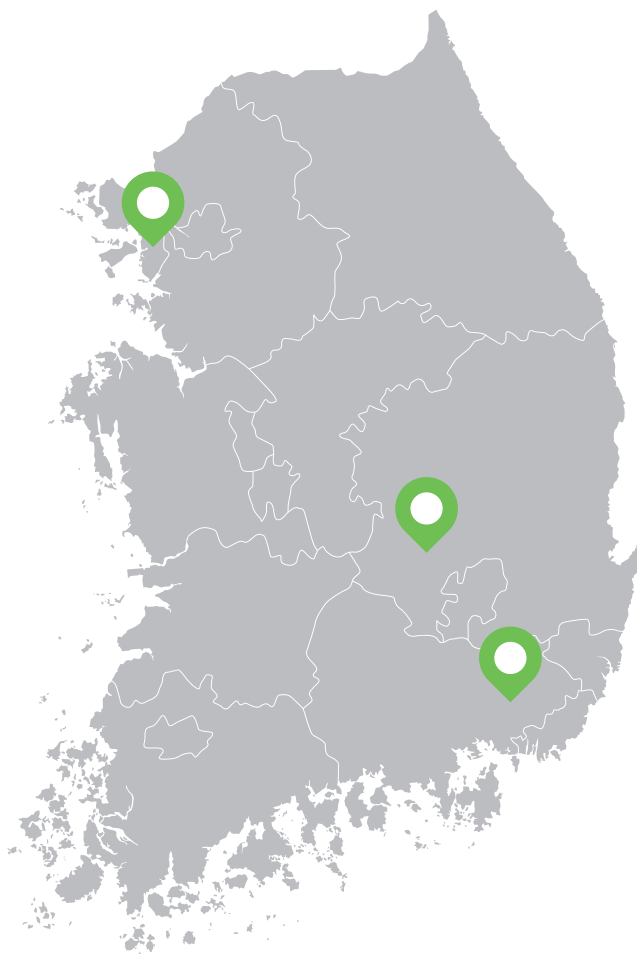
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SERVICE Info.



**Fast and Accurate
Diagnosis**



**Highly Skilled and
Certified Engineers**

Remote Support Service

Remote diagnostics for
swift troubleshooting

A/S

Full on-site service
including labor and travel

Maintenance & Inspection

Global-standard
maintenance procedures

Spare parts

Always stocked with
genuine service parts



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