



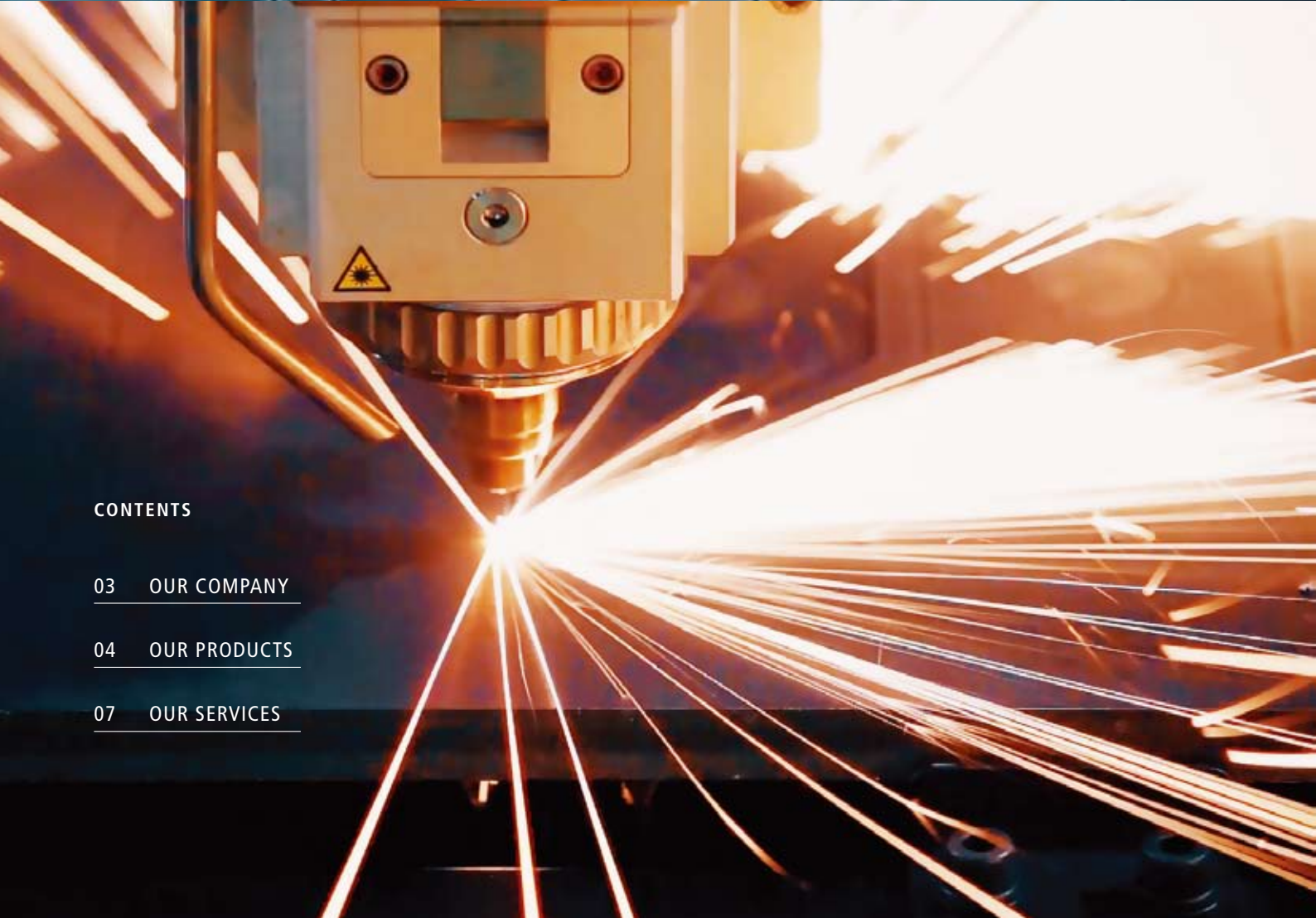
GOD DESIGN

# THORTEC FIBER LASER

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The Reasonable Choice  
of Reasonable Customers





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# The Reasonable Choice of Reasonable Customers

**THORTEC Co., Ltd. is a professional cutting equipment manufacturing company founded in 1999,**

Through constant development research, we always pursue change and innovation with the attitude of challenge and creativity, and endeavor to provide the best laser cutting system and perfected service to our customers. THORTEC Co., Ltd. will always be a company to be trusted and honored for the happy and prosperous life of our customers.

## History of

## THORTEC

2019.08	Relocation of Hwaseong Head office
2016.12	Selected as a Good Design product  <b>GOOD DESIGN</b>
2015.07	Establishment of Company-Affiliated R&D Centers
2013.07	Fiber Laser Cutting Machine Development Completion
2012.10	Hwaseong Plant Open
2009.10	Seoul Office Open
2007.01	New Office Building (Ulsan)
1999.04	Company Established





**Best Fiber Laser cutting system with perfect service,  
Meet the innovative products of THORTEC Co., Ltd.**

## 1 ——— Excellent Cutting Speed

Nitrogen processing compared to CO<sub>2</sub>(Gas Laser)

Speed up to about max **3.5** times faster

\*Stainless 1t nitrogen cutting standard

**Fiber Laser has dramatically improved the productivity of the laser.**

Cutting speeds up to max 3.5 times compared to the existing output of CO<sub>2</sub> (Gas Laser)

THORTEC has completed an innovative fiber laser system technology.

## 2 ——— Cutting a variety of materials



THORTEC Fiber Laser can process various materials into high-quality with the excellent beam quality. As well as Mild Steel and Stainless steel ,it can also process various metal materials such as Aluminum, Copper, and Brass into high-quality that were difficult to cut with the existing CO<sub>2</sub> Laser.

Power(kW)	2	3	4	6	10
Mild Steel(mm)	12	20	20	20	25
Stainless(mm)	6	12	15	15	30
Aluminium(mm)	8	12	12	15	30
Copper(mm)	4	6	8	10	12
Brass(mm)	3	6	8	10	15

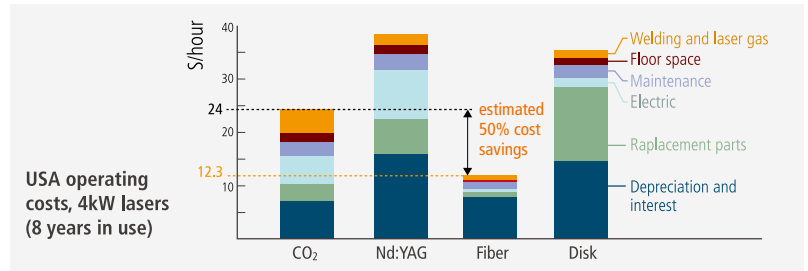
\*To process the maximum thickness the following conditions must be met:

- Optimized Laser Processing System
- Use of laser-dedicated materials

### 3 — Low Maintenance Costs

The Fiber Laser does not use the laser gas ( $\text{He} + \text{CO}_2 + \text{N}_2$ ). It reduces the operating expenses of cutting by 70% due to the efficient power usage compared to the existing  $\text{CO}_2$  Laser. Laser beam delivered using a fiber cable, the optic mirror is not required.

- Laser Gas (Mixed Gas) Unnecessary  
Electricity Consumption Reduces to 70% Compared to  $\text{CO}_2$  (Gas Laser)  
Maintenance Costs Reduces Significantly
- No Costs for Mirror Alignment and Replacement
  - No Maintenance Costs for Regular Repair of the Internal power source



### 4 — Laser Source & Head

We ensure performance, stability, and durability by adopting the world-class power source and laser cutting head. We pursue the highest-quality products with the THORTEC's superior system control and convergence technology.



### 5 — User-Friendly Interface

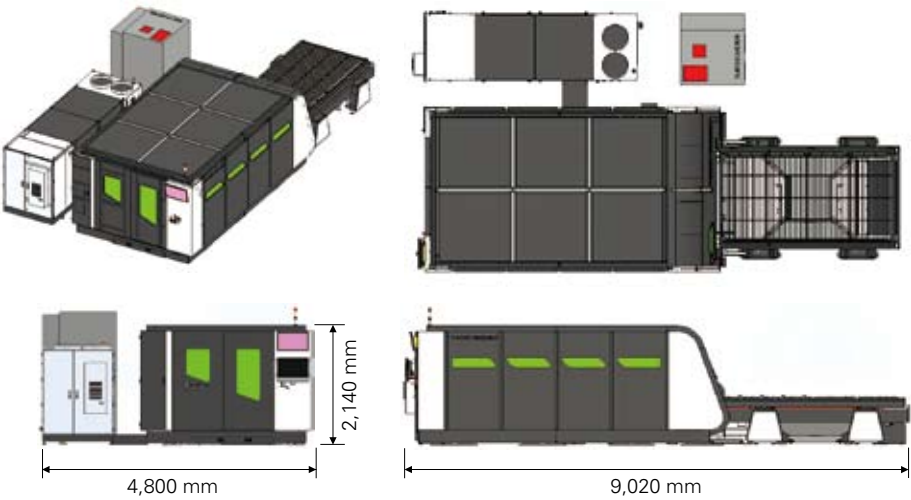


- Development of User-Centric Interface (Hangul / English support)
- Application of Convenient Touch Screen Panel (21" Full HD)
- Installation Monitoring Cameras for Internal Equipment
- Mounting IP Camera.

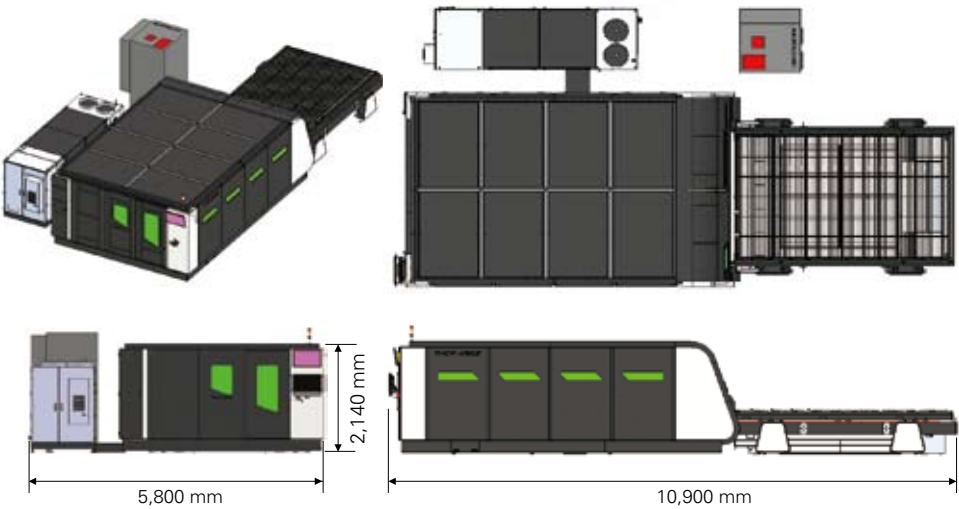
We developed a user-friendly interface with the basic application of touch screen that is easy and convenient for anyone to use. Cameras and a monitor were installed for an easy viewing of the cutting head, cutting material, and guide beam from the outside. The Industry's first IP Camera mount, is an innovative technology that allows users to check and see the status of the machine at anytime and anywhere through a mobile device or PC.

Floor Plan

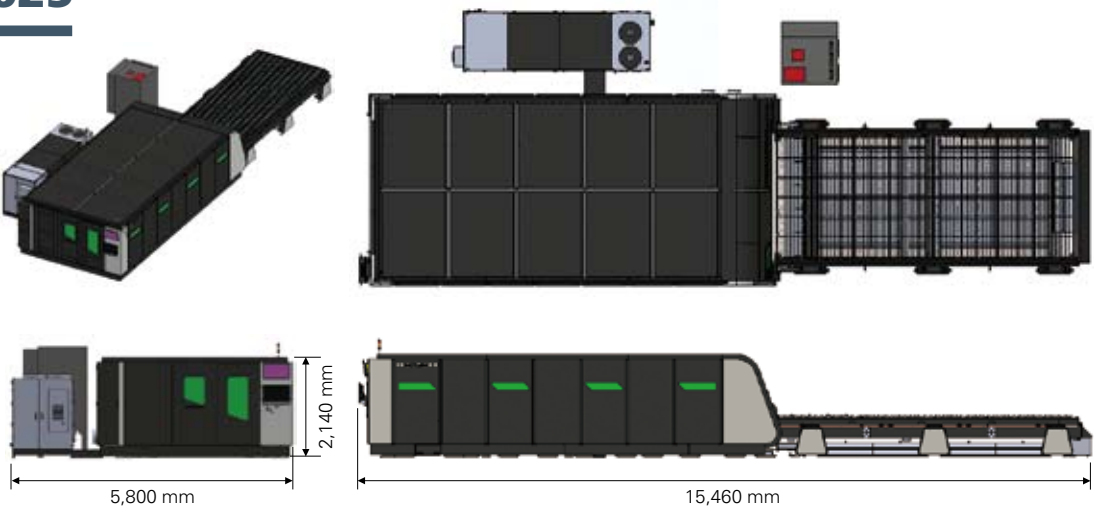
THOR 3015S



THOR 4025



THOR 6025



## Specifications

### Power & Consumption

Power	2kW		3kW		4kW		6kW		10kW	
Size	3015	6025	3015	6025	3015	6025	3015	6025	3015	6025
Consumption	6~7kWh		6~10kWh		6~15kWh		6~17kWh		6~25kWh	
Total system consumption	28kW		32kW		38kW		42kW		58kW	

### Specifications

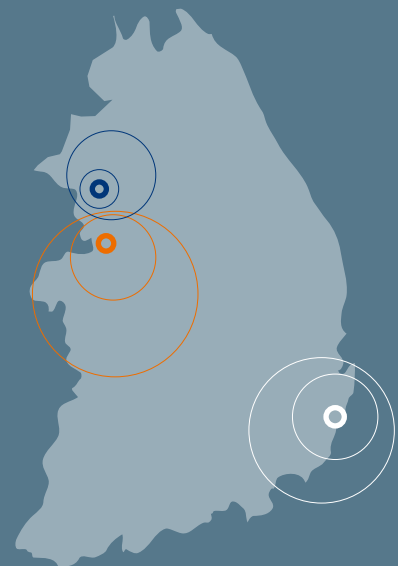
Model	Thor3015S	Thor4020	Thor4025	Thor6025
Working Range	3,100mm × 1,560mm	4,080mm × 2,070mm	4,080mm × 2,570mm	6,250mm × 2,570mm
External Monitor	LCD Monitor	LCD Monitor	LCD Monitor	LCD Monitor
Touch Panel	21" Full HD Touch Screen (Resolution 1,920 X 1,080)	21" Full HD Touch Screen (Resolution 1,920 X 1,080)	21" Full HD Touch Screen (Resolution 1,920 X 1,080)	21" Full HD Touch Screen (Resolution 1,920 X 1,080)
Product Collection Type	Conveyor	Conveyor, Chip box	Conveyor, Chip box	Conveyor, Chip box
Controller	B&R (ARNCO)	B&R (ARNCO)	B&R (ARNCO)	B&R (ARNCO)
Max. Axis Speed Simultaneous	170m / min	127m / min	127m / min	127m / min
Positioning Accuracy	± 0.1mm	± 0.1mm	± 0.1mm	± 0.1mm
Acceleration	1.5G (14.7m/sec <sup>2</sup> )	0.7G (6.86m/sec <sup>2</sup> )	0.7G (6.86m/sec <sup>2</sup> )	0.7G (6.86m/sec <sup>2</sup> )

## Our Services

THORTEC Co., Ltd. has a nationwide service network to provide excellent customer service. Responsible management of the education system and regular inspections will provide seamless service of optimized solutions and services to our valued customers. We will continue to lead in establishing extensive regional centers to achieve customer satisfaction.

### Domestic Networks

○ Hwaseong Head Office
 ● Seoul Office
 ○ Ulsan Office



Responsible Management  
of the Education System



The Enforcement of  
the Before Service



Regular Implementation  
of the Circuit Check



Management of Prompt  
Customer Service



# THORTEC

[www.ThorTec.co.kr](http://www.ThorTec.co.kr)

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**LASER CUTTING MACHINE | AUTOMATIC WELDING MACHINE | PIPE CUTTING SYSTEM | AUTOMATION**