Challenge and Passion
for the best quality in the world

JL HEAVY INDUSTRY

제이엘중공업 주식회사

LASER INDUSTRY | FABRICATION | ASSEMBLY

내-외장재 레이저 가공
Interior & Exterior Material Laser Cutting

구조물 레이저 가공
Structural Laser Cutting

구조물 제작
Structural Fabrication

입체 구조물 가공/제작
Three-Dimensional Structure Processing & Fabrication

레이저 R&D센터
Laser R&D Center

교량 구조물 가공
Bridge Structure Processing

형강류 레이저 가공/제작
Laser Processing and Fabrication of Shaped Steel

레일가공
Rail Processing

특수 선박 레이저 가공
Special Vessel Laser Cutting

파이프 3D프로파일 가공
Pipe 3D Profile Cutting

블록 제작/조립
Block Fabrication & Assembly

크레인 제작
Crane Fabrication

소형 및 특수 선박 제작
Manufacturing of Small and Special Vessels

고망간강 레이저 가공
High Manganese Steel Laser Cutting

내부 보강재 가공/제작
Internal Reinforcement Cutting & Fabrication

Heli Deck 가공/제작
Heli Deck Cutting & Fabrication

후판 레이저 가공
Thick Plate Laser Cutting

Redefining Heavy Industry for the Future

첨단 기술과 혁신으로 중공업의 한계를 뛰어넘어 지속 가능한 미래를 창조합니다.

Overcoming the limits of heavy industry with advanced technology and innovation, we create a sustainable future.

Contents

PART 1. **Company Overview**

World-class Professional Technical Workforce

JL Heavy Industry employs top-tier professional technical personnel
who provide value beyond our customers' needs.
We take pride in our strict quality control and use of cutting-edge equipment.
We compete globally with creative thinking and differentiated strategies,
doing our utmost to leap forward as a world-leading global company
by working together, striving, and challenging ourselves.

About JL Heavy Industry

JL Heavy Industries was established as a leading global 3D profiling cutting and assembly/fabrication service company based on advanced technology and innovation. We provide specialized cutting services for pipes, steel plates, and structural steel sections essential for various industrial facilities such as onshore and offshore plants, and are highly regarded by domestic and international clients for our technical expertise and quality. Through this, JL Heavy Industry is achieving continuous growth and development.

Through technical alliances and collaborations with leading domestic and international companies, we have secured industry-leading technological capabilities, such as utilizing the latest equipment from HGG in the Netherlands and KOIKE in Japan. Moreover, we demonstrate outstanding competence in the assembly and block fabrication sectors, providing customized solutions that meet our clients' complex requirements.

JL Heavy Industry considers safety and environmental protection core values in our business operations. We maintain a comfortable and safe working environment through a Health, Safety, and Environment (HSE) management system involving all employees. This contributes to achieving zero-accident and zero-disaster goals and provides trust to all stakeholders.

“Challenge and Passion for the best quality in the world”

Under the slogan "Challenge and Passion for the best quality in the world" JL Heavy Industry is growing while maintaining transparent management and principles. To strengthen our competitiveness in the global market, we pursue a talent-centered management strategy and enhance corporate value by establishing optimal processes that meet global standards.

A company that challenges higher values and shares a better tomorrow.

This is what JL Heavy Industry will create.

Vision & Mission

Vision

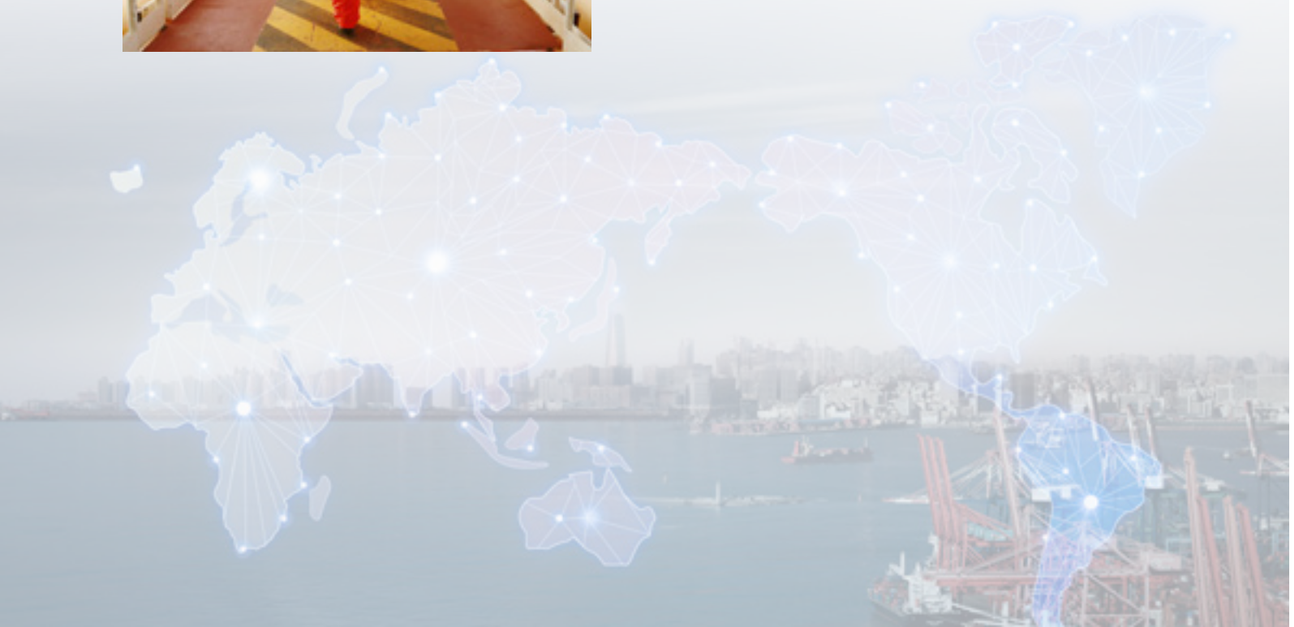
Innovating for Global Leadership

We aim to establish new industry standards through advanced laser cutting technology and assembly and fabrication services. To achieve this, we focus on continuous research and development and technological innovation, aiming to meet the requirements of each industrial sector by providing customized solutions. JL Heavy Industry seeks sustainable growth in the global market based on these technological capabilities and aims to establish itself as a company with international competitiveness.

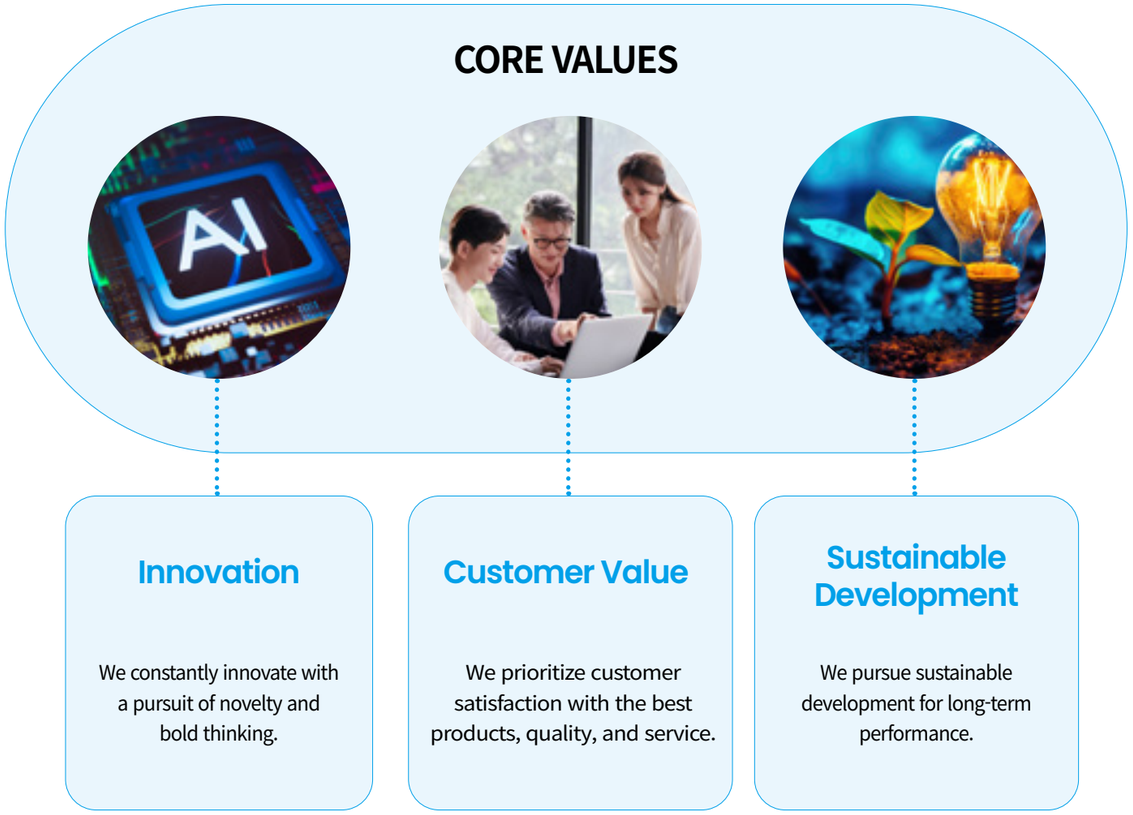
Mission

Tech-Driven Value Maximization

JL Heavy Industry's mission is to provide the best customer experience through technological innovation. By continuously developing high-quality products and services that exceed customer expectations, we prioritize customer satisfaction and aim to become a trusted company for all customers.



Core Values



JL Heavy Industry leads the industry through new technology and innovation and is continuously developing.
We will create a future where we contribute to industrial development through new technology development and innovation and grow and develop together with all customers.

Our History

Towards a more promising tomorrow, we open up a new future with continuous challenges.

01 The First Step of Founding

JL Heavy Industry started as a small but ambitious pipe cutting specialist company. Back then, we took our first step with gas-cutting technology, and the combination of technology and passion laid the foundation for growth.
As time passed, cutting technology has continuously evolved, and JL Heavy Industry has led this flow of change.

02 The Basics of Cutting

Starting from gas cutting, through technological advancements to plasma cutting, and recently to the most advanced laser cutting - we have aimed for the best at every stage of cutting technology. As a result, JL Heavy Industry has elevated cutting technology to a level where we can freely execute customer designs beyond simple cutting. Now, we are growing into a company that creates precise and complex structures beyond simple cutting operations.

03 Growth and Development

This technological advancement stems from a deep understanding of customer trust and demands. JL Heavy Industry accurately grasps customer requirements and provides optimal solutions based on these. Our goal is to build long-term relationships based on trust with customers, beyond just technological achievements. Moreover, JL Heavy Industry does not neglect efforts for sustainable development. Technological improvements for environmental protection and efficient resource use are another source of our pride. All of this originates from JL Heavy Industry's founding philosophy, pursuing both technological excellence and environmental responsibility.

04 Evolution of Future-oriented Business Structure

JL Heavy Industry has left a clear mark in the domestic cutting technology field. We will not rest on past achievements but continue to pursue new challenges moving towards the future. We will continuously evolve at the forefront of technology and make JL Heavy Industry's unique color even more distinct. Our journey does not stop here. JL Heavy Industry is ready to surprise the world with the best technology in the future.

2018

05
- Establishment of [Goseong Plant]
- ISO 9001 14001 45001 Certification (DNV) [Goseong Plant]
- Registered as a primary external partner for Hanwha Ocean

2019

09
- [Establishment of [Goseong Guman Plant]
- ISO 9001 14001 45001 Certification (DNV) [Goseong Guman Plant]

2022

05
- Registered as a primary external partner for Hyundai Heavy Industries

09
- Registered as a primary external partner for SK Ocean Plant

2023

08
- Establishment of Corporate Research Institute

10
- Registered as a primary external partner for Hyundai Mipo Shipbuilding

2024

01
- Establishment of [Geoje Obi Plant]

02
- ISO 9001 14001 45001 Certification (DNV) [Geoje Obi Plant]

03
- Registered as a primary external partner for Samsung Heavy Industries
- Registered as a primary external partner for HJ Heavy Industries

04
- Root Industry Certification (Korea Institute of Industrial Technology)
- WWA_Welding Workshop Certification (DNV) [Geoje Obi Plant]

05
- Certified as a Specialized Company in Materials, Parts, and Equipment (Korea Evaluation Institute of Industrial Technology)

06
- Management Innovation SME (MAIN-BIZ) Certification (Ministry of SMEs and Startups)

12
- Certificate of Venture enterprise_Innovative Growth Company (Chairman of Organization for Venture Enterprise Certification)
- Patent No. 10-2745773 (Method for Surface Treatment of Raw Materials Using Fiber Laser)

2025

01
- Patent No. 10-2751121 (Method for Cutting High- Manganese Steel Using Fiber Laser Cutting)
- Trademark Registration [2 items]

03
- Certification for Technologically Innovative Small and Medium Enterprise (INNO-BIZ) (Ministry of SMEs and Startups)

06
- Patent No. 10-2819982 (Powder Marking System for Fiber Laser Cutting Equipment)
- Certificate of Performance-Sharing Enterprise_ Performance-Sharing Growth Enterprise (Minister of SMEs and Startups)

07
- Patent No. 10-2836427 (Laser Automatic Cutting and UV Ink Cartridge-Based Marking System)
- Patent No. 10-2843175 (Shipyard-Specific Processing Data Automatic Conversion System)
- ISO 3834-2 Certification (KR) [Geoje Obi Plant]

08
- Certificate of Participation in the Work–Life Balance Campaign
- Korea International Trade Association (KITA) Membership

09
- Certificate of Excellence in Job Creation, Republic of Korea
- Certificate of Direct Production Verification (Covering multiple categories such as commercial ships, special vessels, and military vessels)

12
- EN1090-2 Certification [Geoje Obi Plant]

PART 2. **Intro To Key Businesses**

Precise Fabrication & Rapid Delivery

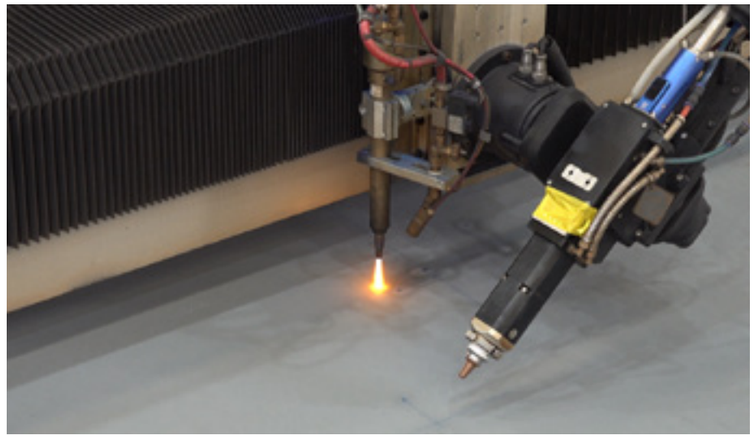
As a company that always thinks and acts quickly for customers, we reduce customer time and production costs by introducing and installing the latest equipment. Also, with JL Heavy Industry's efficient work system, we are focusing all our capabilities on maximizing customer value.

CUTTING SERVICE

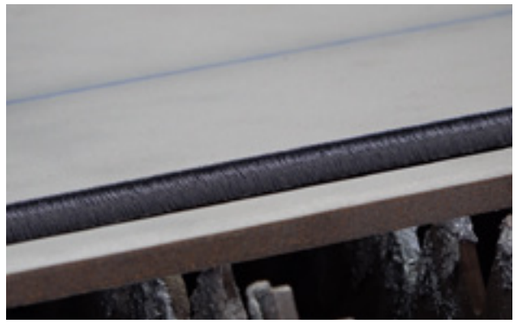
JL Heavy Industry opens the first step in steel cutting - the initial stage of onshore, offshore, and shipbuilding industries.

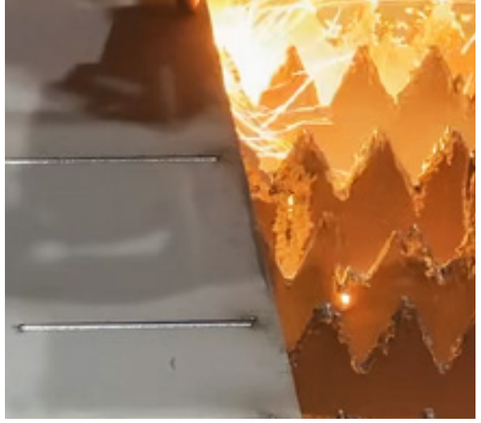
Fiber Laser Plate Cutting

Plate cutting using cutting-edge fiber laser technology provides high precision and superior cutting quality. This method can quickly and cleanly cut materials of complex shapes, and is a preferred choice in various industries due to its flexibility and cost-effectiveness. JL Heavy Industry meets customers' business needs precisely through innovative technology.



Laser cutting services boast precise cutting and high productivity. It can process various materials and maintains high-precision product quality with minimal thermal deformation. It also enables efficient production with fast working speeds. We provide perfect results with the best cutting technology.





Pipe Profile Cutting

How will you meet increasingly stringent welding regulations?
JL Heavy Industry's advanced pipe profile cutting equipment automates the welding preparation process, allowing welding components to be quickly and easily fitted. This can reduce on-site labor costs by up to 30%.

Profile Shapes

Champer

Profiling shapes are applied to connecting plate materials or pipe ends.

Saddle

They are used to connect one or more connecting pipes to a crossing pipe in tubular structures.

Custom Cutting

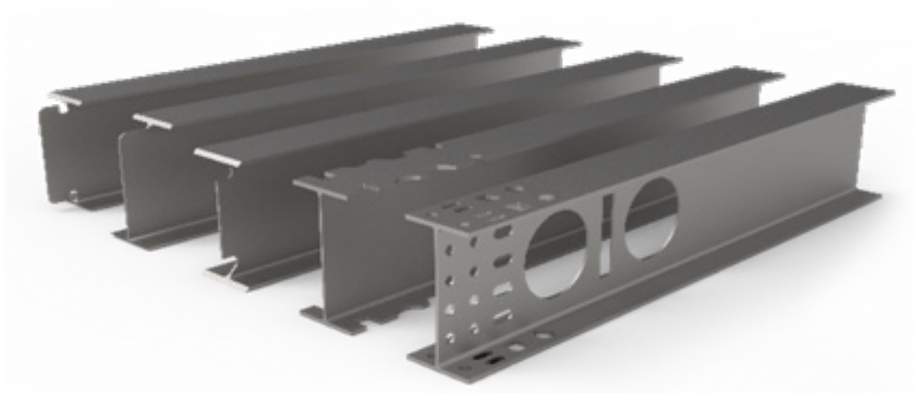
If you need special cutting, JL Heavy Industry provides the solution.

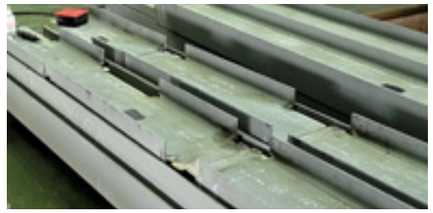
Maintaining Competitiveness

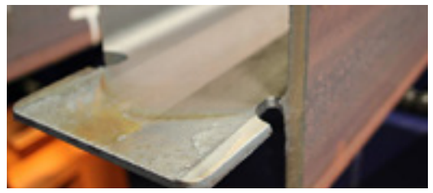
Onshore, shipbuilding, and offshore fields are industries that require constant innovation. JL Heavy Industry's automatic cutting technology provides the highest level of cutting dimensional accuracy and complete design freedom, helping customers maintain competitiveness and increase production speed.

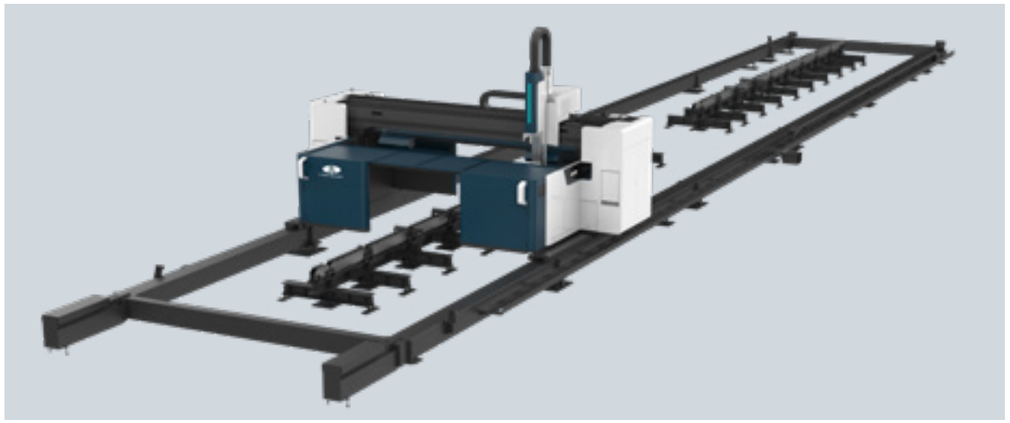
H-BEAM Cutting

We provide various beam cutting services to support cutting all shapes, bevels, and bolt holes of steel materials as accurately as possible. Structural steel cutting services have several unique advantages that enable strong connections through easy assembly and optimized welding preparation.
Special features include the ability to cut ratholes, bevels on webs and flanges, and provide precise accuracy in machining holes for bolt connections.









Through JL Heavy Industry's structural steel cutting equipment and manual cutting services, we can cut any shape on beams with very accurate bevel angles. Entrusting to JL Heavy Industry enables easy, accurate, and quick welding and bolt connections.

CNC Specialized System for H-Beams

The CNC system is custom-built for H-beams, ensuring easy installation and even more convenient operation. Parameters can be easily adjusted through the user interface, allowing operators to perform cutting in various shapes with ease.

FABRICATION SERVICE

JL Heavy Industry takes responsibility for the crucial stages of sub-assembly and tubular fabrication, which are the core foundations of onshore, offshore, and shipbuilding industries.

Tubular Girth Welding

JL Heavy Industry possesses excellent technical skills in tubular welding and leads the industry. Our advanced welding technology boasts top performance in the fabrication and maintenance of various cylindrical structures such as pipelines, offshore platforms, and wind turbine towers.

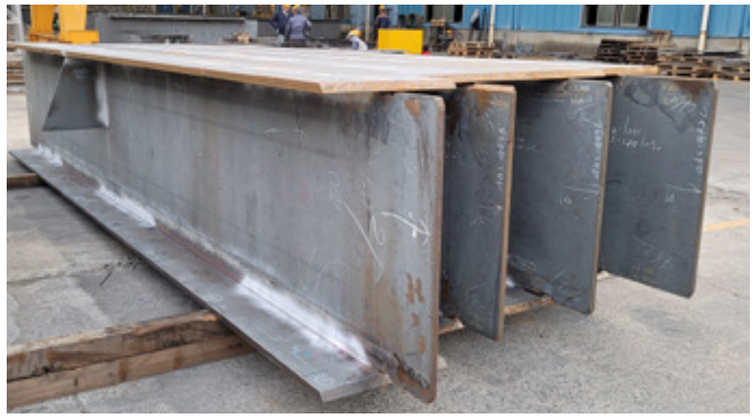
Tubular Girth Welding for Plants

To ensure precise and consistent welding quality, state-of-the-art equipment and skilled experts are deployed to provide perfect solutions even in projects requiring high strength and durability.

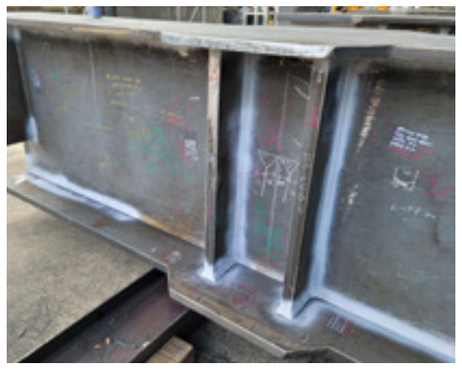
These are high-strength, thick-walled structural pipes for constructing offshore platforms or wind towers. They are used for platform jackets, topsides, bracing, etc., and are produced and supplied with high quality and precision.

Welded Plate Girder Fabrication

Plate girders have unique structures depending on the type of material used and the manufacturing method. This product consists of welded steel plates forming a deep rectangular cross-section that can support heavy loads.

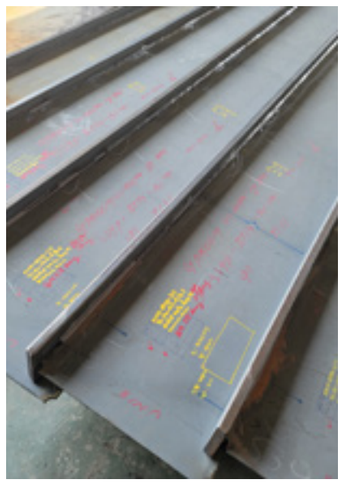


Welded plate girders are the most commonly used girder type in construction due to their ease of manufacture and efficiency. They are very sturdy and can withstand very high loads while resisting lateral movement.



T-bar Fabrication

T-Bars play a role in preventing structural deformation from bending loads applied to ships (marine structures) navigating the sea. They have a symmetrical structure and are used more than angles because they undergo less torsional deformation for uniform loads occurring at the center.



ASSEMBLY

In the shipbuilding process, JL Heavy Industry builds its history by accurately assembling cut steel materials in the correct position, which is the second stage of hull construction.

The assembly process proceeds as a ONE-STOP operation from cutting and processing all materials required for shipbuilding and marine steel structures to assembly. By simplifying the cutting, processing, assembly, and process management points, we show the best quality with JL Heavy Industry's unique know-how and technology.

Sub-Assembly

Sub-assembly is the process of attaching and welding reinforcements or brackets to parts cut from steel plates, creating very small blocks of the ship. The completed sub-assemblies go through manufacturing processes from sub-block assembly to block assembly, being made into hundreds of blocks, and finally completed as a massive ship.

As we perform the earliest process in shipbuilding, we are doing our best in production to ensure there are no mistakes or errors.

Various Sub-Assembly Works

Sub-Block Assembly

Sub-block assembly is the work of assembling plates and frames and attaching cut/bent parts and sub-assembled parts to create a panel forming one side of a block.

Sub-block assembly is divided into three processes: assembling flat blocks, curved blocks, and hull superstructure blocks.

Flat Blocks

Flat blocks, such as bottom plates, side plates, and bulkhead plates, where ribs are attached to flat plates, are assembled on a conveyor by joining plates to form a flat plate the size of a block, and then ribs are attached on top. In this work, dedicated assembly devices are used to automatically attach and weld. After attaching the ribs, floors are attached perpendicular to the ribs to reinforce the block in a grid pattern.

Curved Blocks

Parts of the ship's bow and stern have curved outer plates. Curved blocks are assembled in an assembly area with adjustable height jigs according to the curve. The pin jigs are adjusted to match the curve of the outer plate, and the outer plate materials are assembled on top to form the hull curve.

Hull Superstructure Blocks

Hull superstructure blocks are composed of relatively thin plates compared to outer plate blocks. These blocks have a slight slope due to deck camber, so the same method as curved block assembly is used.

Block Assembly

This is the work of assembling one area of the ship's space by combining sub-assemblies, sub-block assemblies, and cut/bent parts. Sub-block assembled blocks are further formed into three-dimensional blocks and assembled to a size that can be erected in the dock. The size of the blocks is planned at the design stage considering the facility capacity of the workplace and work efficiency. In some cases, block-assembled blocks are assembled into larger blocks near the dock before erection.

Stern Boss

The Stern Boss is a key structural component that supports the propeller shaft and protects it from external impacts. Positioned between the hull and the propeller shaft, it must maintain high durability while also requiring precision machining to ensure optimal performance.

JL Heavy Industries manufactures Stern Bosses for various types of vessels, including LNG carriers, oil tankers, and bulk carriers. Through high-quality welding and precision machining, we meet our customers' specific requirements.

Roles and Key Features of Stern Boss

Protection of Propeller Shaft

Protects the shaft from external impacts during vessel operation

Customizable Manufacturing

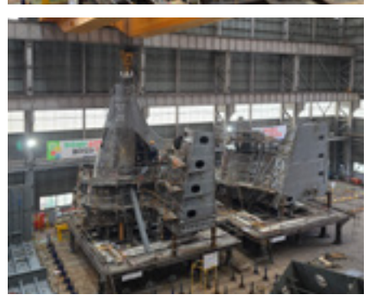
Provides design and manufacturing tailored to customer requirements

Precision Machining Application

Maintains precise dimensions through high-quality welding and rigorous quality control

Enhancing Durability

Application of high-strength materials to withstand harsh marine environments



JL Heavy Industries' Differentiated Stern Boss Manufacturing Technology

Customer-Customized Design Tailored Stern Boss production for each project

Optimal Quality Management Application of high-strength materials and precision welding technology

Timely Delivery Compliance Systematic production planning and schedule management

High-Precision Laser Cutting Technology Utilizing the latest fiber laser cutting to minimize material deformation and maintain superior dimensional accuracy compared to competitors

Fabrication Process

(1) Sub Assembly

(2) Base Plate Setting

(3) S/Tube Casting G/R

(4) Tube Docking

(5) Assembly 1

(6) Assembly 2

(7) S/Tube Pipe Setting & Docking

(8) Assembly Setting

(9) S/Boss Casting Docking

(10) S/Shell Plate Setting

(11) S/Shell Plate Welding & NDE

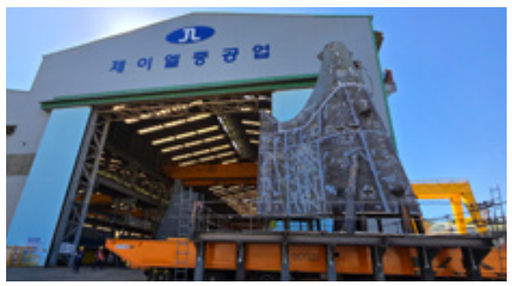
(12) Final Inspection

(13) Tank Test

(14) Shop Out

(15) Crane Lifting

(16) Delivery



Tug Boat

A tugboat is a specialized vessel designed to tow large ships or offshore structures and to provide precise maneuvering support within confined waters such as ports and harbors. With powerful propulsion and exceptional maneuverability, tugboats perform a wide range of maritime operations, including berthing and unberthing assistance, towing, rescue missions, and firefighting.

The tugboats built by JL Heavy Industries feature high-strength hull structures and precision engineering, ensuring outstanding durability, safety, and fuel efficiency. Our production system is designed to meet international classification standards and to deliver the highest quality to satisfy diverse customer requirements.

Other Shipbuilding Programs

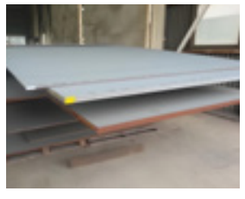
JL Heavy Industries has expanded into shipbuilding based on its expertise in laser cutting and block fabrication. With facilities capable of constructing various vessel types such as car carriers, passenger ships, small vessels, government vessels, and specialized ships, we continue to strengthen our competitiveness in the shipbuilding industry.

With deep expertise in the **shipbuilding and offshore industries,** JL Heavy Industries continues to grow as a world class company through **differentiated technology and innovation.** We strengthen our capabilities by continuously advancing and developing **laser technologies** in-house, enabling **ongoing technological research and self-development to further enhance our technical expertise.**
We are also enhancing our business competitiveness to proactively respond to emerging markets, building on our accumulated know-how and technical capabilities to advance as a global leader.

One-Stop Production Process from Cutting to Launching

Cutting Certified steel is shot-blasted, shop-primed, and processed.
Assembly Small parts and sections are fitted into sub-assemblies and large blocks forming the vessel's structure.
Pre-Outfitting Major equipment is installed during block assembly to improve quality and productivity.
Painting Surfaces are treated and coated, followed by sufficient drying to ensure safe subsequent work.
Erection Painted blocks—each weighing thousands of tons—are precisely assembled to form the hull.
Launching Completed blocks are transported to the quay and launched using marine lifting equipment.

Fabrication Process



(1) Material Receiving

(2) Plate Nesting

(3) Marking

(4) Parts Arrangement

(5) Small Parts / Steel Section Fitting

(6) Sub-Assembly

(7) Block Assembly

(8) Painting

(9) Block Erection

(10) Launching the vessel

PART 3. Major Facilities And Plant Introduction

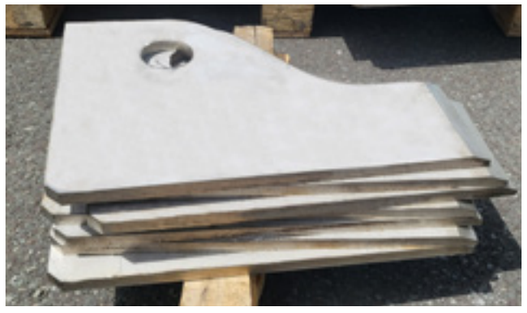
Plate Processing Equipment

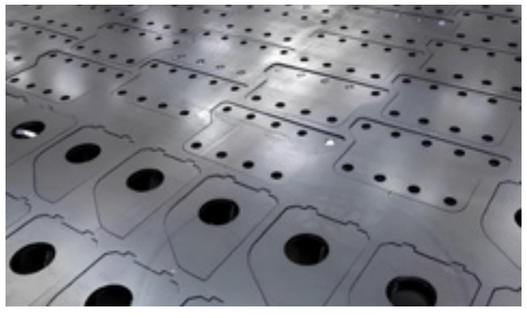
Laser Cutting

32050 TX

High-power
fiber laser cutting machine - 30KW
(bevel, K-bevel cutting)

Vertical head cutting size	32,000×5,000mm
Bevel head cutting size	31,400×4,200mm
Z-axis length	300mm
X/Y axis position measurement precision	±0.1/10,000mm
X/Y axis position repeat measurement precision	±0.05mm
A/B axis position precision	±0.02mm
Maximum speed	80m/min
Laser oscillator	30KW



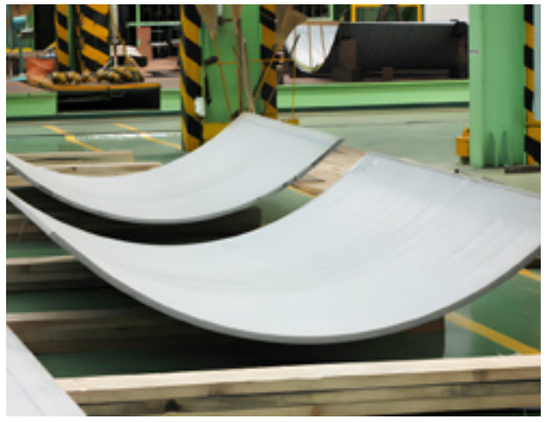


curve processing

WEF11K-25×8500

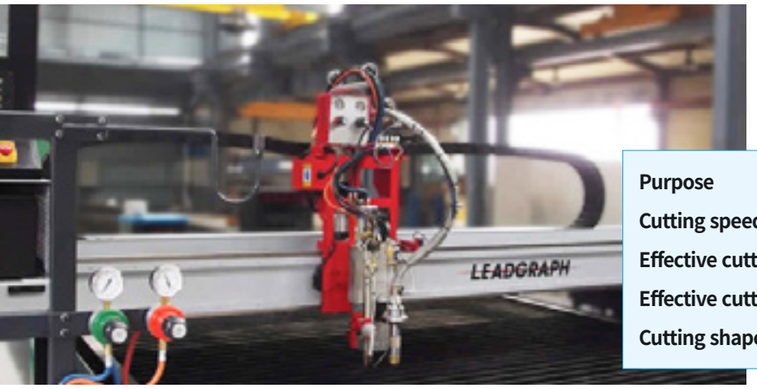
Roll-bending M/C

Maximum width of coil plate	8,500mm
Minimum rotation radius of the upper roller	R650
Upper roller diameter	Φ 380mm
Lower roller diameter	Φ 320mm



Gas/Plasma Cutting

LEADGRAPH - PLASMA I-CUTTING

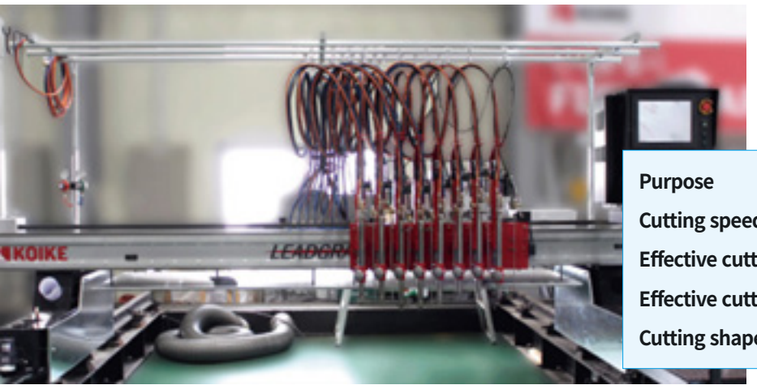


Multi-functional, high-speed, high-performance CNC PLASMA cutting machine capable of processing from thin to thick plates

Purpose	GAS/PLASMA Cutting
Cutting speed	100mm/min ~6000mm/min
Effective cutting width	Inner 1,200mm/Outer 1,500mm
Effective cutting length	3,000mm
Cutting shape	Vertical Cutting (I-CUTTING)

Gas Cutting

LEADGRAPH - GAS



Economical and convenient CNC GAS-only cutting machine with high precision and high functionality yet simple structure

Purpose	GAS Cutting
Cutting speed	100mm/min ~6,000mm/min
Effective cutting width	800mm
Effective cutting length	2,500mm
Cutting shape	Vertical Cutting (I-CUTTING)

Plasma Cutting

VERAGRAPH-DXI

CNC PLASMA cutting machine equipped with 3D automatic bevel device

Purpose	PLASMA Cutting
Cutting speed	100mm/min ~6000mm/min
Effective cutting width	1,500mm
Effective cutting length	3,000mm
Cutting shape	Vertical Cutting (I-CUTTING) Bevel Cutting (BEVEL-CUTTING)

Pipe Processing Equipment

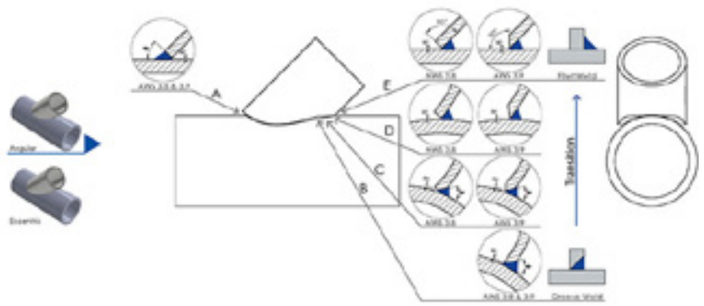
Pipe Profile for Onshore · Ship · Offshore

SPC-3000PT

Pipe-cutting Machine for Onshore, Ship, and Offshore

SPC-3000PT is a very robust machine built to handle large pipe diameters and heavy weights. It is very suitable for thick pipe fabrication where welding volume needs to be minimized.

External pipe diameter	Φ200~3,050 mm (8-98 inch)
Minimum processing length	50mm
Maximum processing length	12,000m

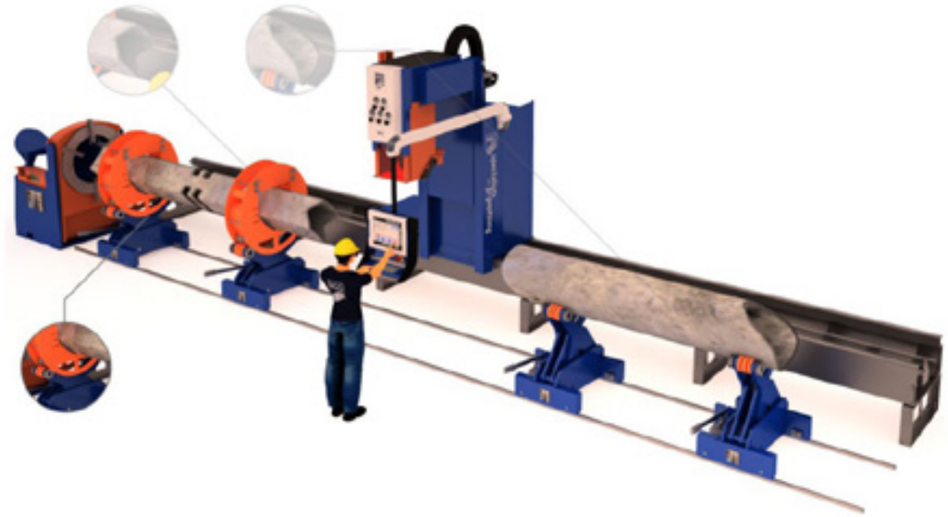


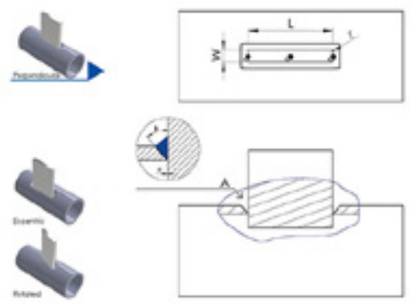
MPC-450 | 1200

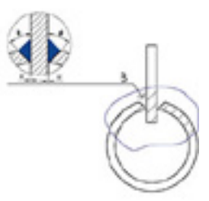
Pipe and Square Tube Cutting Machine

A pipe and square tube cutting machine for automatic 3D pipe and box cutting, which is very accurate and versatile, integrating three machines into one, enabling cutting of various components.

External pipe diameter	Φ75-1,225 mm (3-48 inch)
Minimum processing length	50mm
Maximum processing length	12,000m







Structural Steel Processing Equipment

Bend Saw

ST6090

Semi-automatic angle cutting machine with pre-settable programs for fast processing speed, and saw frame moving up and down on linear guides to reduce friction. It has a smoother and more accurate blade.

Maximum cutting size (mm)	90˚	1,000×500 650 O 700
	45˚	500 O 500
Saw blade size (mm)	Thickness	1.27~1.6
	Width	54
	Length	7,600
Machine weight		5,000kg

HK-800/H650

Semi-automatic angle band saw machine very good for cutting various metal materials such as H-beams, angle bars, pipes, etc. Equipped with high-performance motor and high-efficiency blade, providing fast and efficient cutting.

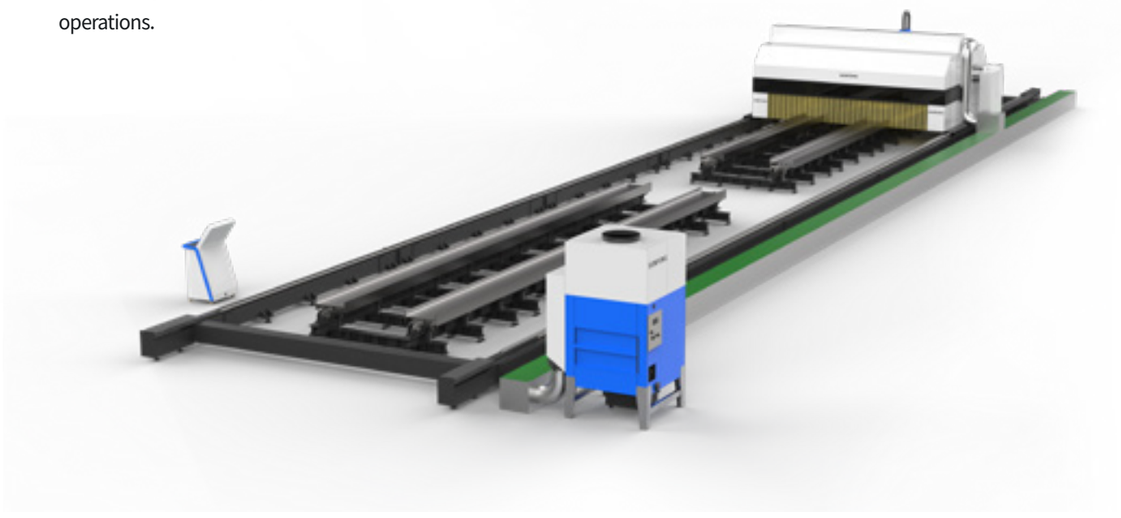
Cutting capacity	Right Angle	800*500
	Before Angle Cutting	Max 45˚ / 440*500
Saw blade size		54*1.3*6,650
Main motor Machine specs.		5.5kw4P
Machine specs	Width	3,488
	Length	2,137
	Height	2,604
Machine weight		3,600kg
Power consumption		7.5KVA

Laser Cutting

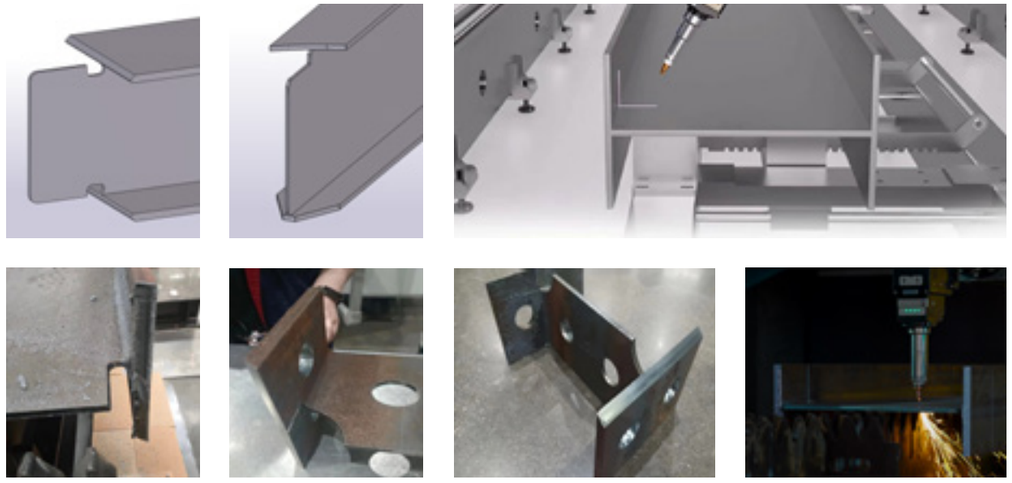
S1500CH

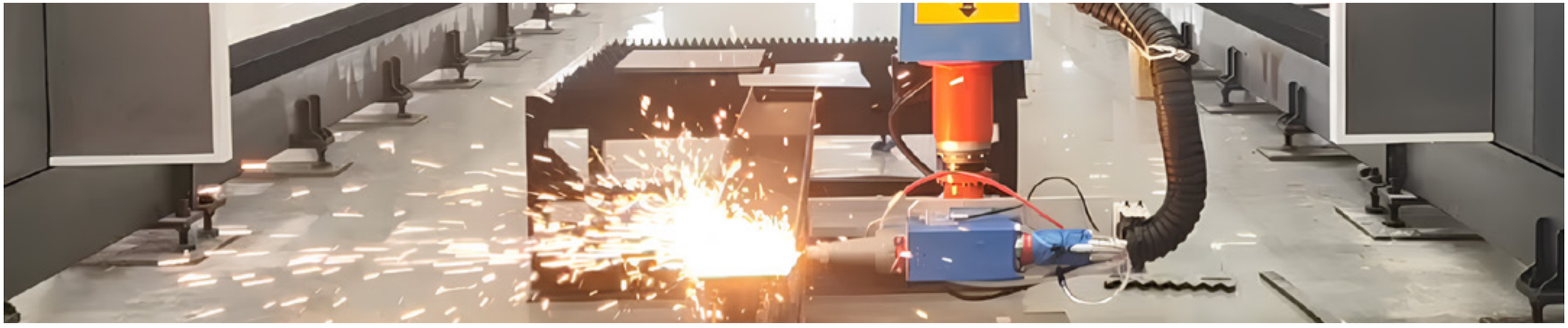
This is a large H-beam laser cutting machine with a dual-drive gantry structure. It features a compact cutting head with excellent dustproof performance, and its unique integrated cooling system prevents overheating even during extended operations.

Maximum Cutting Width	600mm(Parallel double row)
Maximum Cutting Height	500mm
Maximum Cutting Thickness	Vertical cut ≤40mm (Flange plate bevel cutting ≤30mm)
Maximum Cutting Length	12,000mm (4pcs)
Machine specs	35,670×7,100×3,030mm



CUTTING SAMPLES





Plant Introduction

HEADQUARTERS

Goseong Plant

- **Business site** 165, Duho 1-gil, Goseong-eup, Goseong-gun, Gyeongnam
- **Factory Size** 21,820 m² (Approx. 6,600 pyeong)
- **Production Capacity** 8,000 Ton/M
- **Main Products** Plate Cutting/Processing (High Manganese Steel, Nickel Steel, SUS Steel, FB Steel)
- **Main Production Equipment** Fiber Laser Cutting M/C, Press & Roll bending

Guman, Goseong

Goseong Guman Plant

- **Business site** 1586, Yeonghwe-ro, Guman-myeon, Goseong-gun, Gyeongnam
- **Factory size** 20,165 m² (Approx. 6,100 pyeong)
- **Production capacity** 5,000 Ton/M
- **Main Products** Carbon Steel Plate Cutting/Processing
- **Main Production Equipment** Plate Cutting M/C

Obi, Geoje

Geoje Obi Plant

- **Business site** 473-15, Yeonha Coastal Road, Yeoncho-myeon, Geoje-si, Gyeongnam
- **Factory Size** 33,055 m² (Approx. 10,000 pyeong)
- **Production Capacity** 15,000 Ton/M
- **Main Products** BLOCK Fabrication and Assembly

PART 4. Certificates and Business Performance

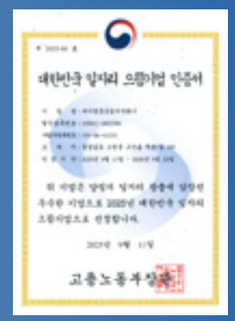
We boast world-class production capacity in the field of steel structure cutting and processing, and have accumulated rich know-how through various domestic and international marine construction and shipbuilding projects. Based on this know-how, we will realize successful business operations at any site.

ISO 3834-2 (KR) Certificate

EN 1090-2 Certificate

Corporate Research Institute Recognition Certificate

Korea Excellent Job Creation Enterprise Certification



ISO Certificates

Welding Workshop Certificate

Certificate of Direct Production Verification

Certifications and Patents

"Sustainable Future Environmental Technology" JL Industrial Co., Ltd. is creating it.

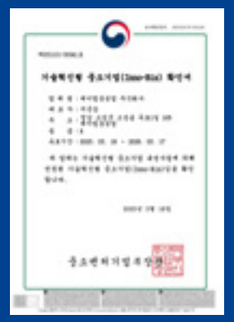
JL Industrial Co., Ltd. will continue to strive for sustainable value management by fulfilling its social responsibilities and achieving management innovation for the coexistence of humans and nature through constant technological development and innovation.

Patent

Trademark

Management Innovation SME (MAIN-BIZ) Confirmation Certificate

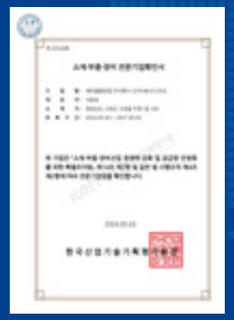
Technologically Innovative Small and Medium Enterprise (INNO-BIZ) Certificate



Certificate of Performance-Sharing Enterprise (Performance-Sharing Growth Enterprise)

Venture Business Certificate (Innovation-Growth Type)

Material/Parts/Equipment Specialist Company Confirmation



Root Company Confirmation

Certificate of Participation in the Work-Life Balance Campaign

Korea International Trade Association (KITA) Membership Certificate

Business Performance

Shipbuilding Field Project Performance

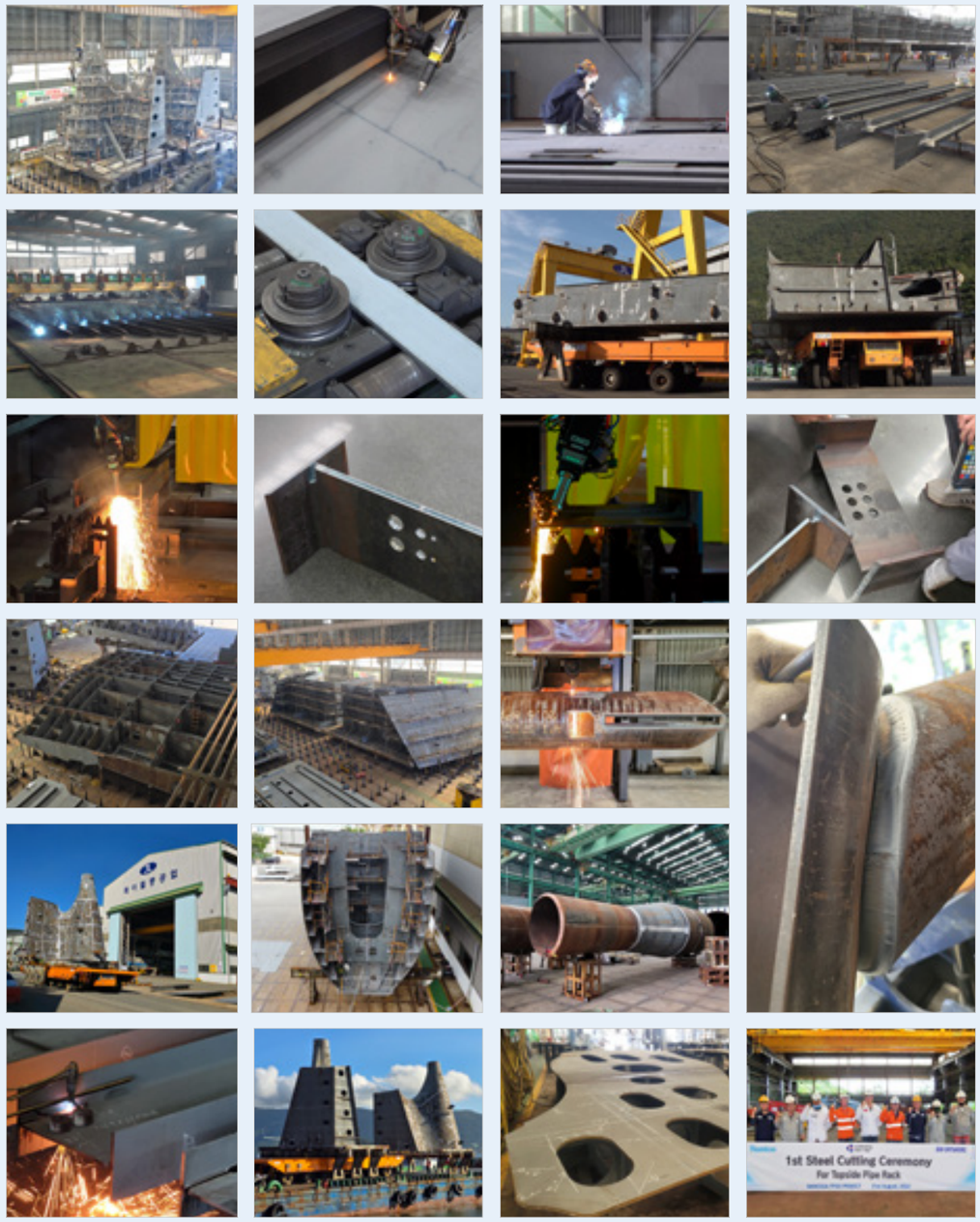
YEAR	PROJECT	CON TRACTOR
2018	HATREE PARTNERS 300,000DWT VLCC	DSME
2018	HUNTER TANKERS AS 300,000DWT VLCC	DSME
2018	HMM 23,270TEU CONTAINER SHIP	DSME
2019	SEATANKERS 173,400CBM LNG CARRIER	DSME
2019	ALPHA GAS 173,400CBM LNG CARRIER	DSME
2019	L PROJECT 180,000CBM LNG CARRIER	DSME
2020	MINERVA MARIN 173,400CBM LNG CARRIER	DSME
2020	ULSAN-CLASS BATCH-II SUCCESSOR SHIP(5th)	DSME
2020	MARAN GAS 174,000CBM LNG CARRIER	DSME
2020	ASR-II SYSTEM DEVELOPMENT	DSME
2020	THENAMARIS 300,000DWT CRUDE OIL TANKER	DSME
2020	OSC 300,000DWT VLCC	DSME
2020	EURONAV NV 300,000DWT CRUDE OIL TANKER	DSME
2020	MOL'S 174,000CBM LNG CARRIER	DSME
2020	IINO 91,000CBM LPG CARRIER	DSME
2021	ADNOC 300,000DWT CRUDE OIL TANKER	DSME
2021	ARC7 172,500CBM LNG CARRIER	DSME
2021	HAPAG-LLOYD 23,660TEU CONTAINER SHIP	DSME
2021	HUNTER TANKERS 300,000DWT CRUDE OIL TANKER	DSME
2021	PANTHEON 300,000DWT VLCC	DSME
2021	HUNTER TANKERS 300,000DWT CRUDE OIL TANKER	DSME
2021	AVANCE GAS 91,000CBM LPG CARRIER	DSME
2021	HMM 13,000TEU CONTAINER SHIP	DSME
2021	NEPTUNE 300,000 DWT CRUDE OIL TANKER	DSME
2021	HYUNDAI LNG SHIPPING'S 174,000CBM LNG CARRIER	DSME
2021	HYUNDAI LNG SHIPPING 91,000CBM LPG CARRIER	DSME

YEAR	PROJECT	CON TRACTOR
2022	KOREALINES 300,000DWT VLCC	DSME
2022	HARTREE PARTNERS 300,000DWT VLCC	DSME
2022	HARTREE PARTNERS AS 300,000DWT VLCC	DSME
2023	HARTREE PARTNERS 300,000DWT VLCC	HANWHA
2023	HUNTER TANKERS 300,000DWT VLCC	HANWHA
2023	OSC 300,000DWT VLCC	HANWHA
2023	SINOKOR 300,000DWT VLCC	HANWHA
2023	EURONAV NV 300,000DWT CRUDE OIL TANKER	HANWHA
2024	GASLOG 174,000 CBM LNG CARRIER	HANWHA
2024	BW GAS 174,000CBM LNG CARRIER	HANWHA
2024	ENETI WIND TURBINE INSTALLATION VESSEL	HANWHA
2024	QATAR 174,000CBM LNG CARRIER	HANWHA
2025	CORAL NORTH EVERGREEN 17K DF#4	SAMSUNG
2025	NAKILAT 174000CBM LNG CARRIER	HANWHA
2025	QATARENERGY 174,000CBM LNG CARRIER	HANWHA
2025	DHT HOLDINGS 320,000DWT CRUDE OIL TANKER	HANWHA
2025	ASYAD 300,000DWT CRUDE OIL TANKER	HANWHA

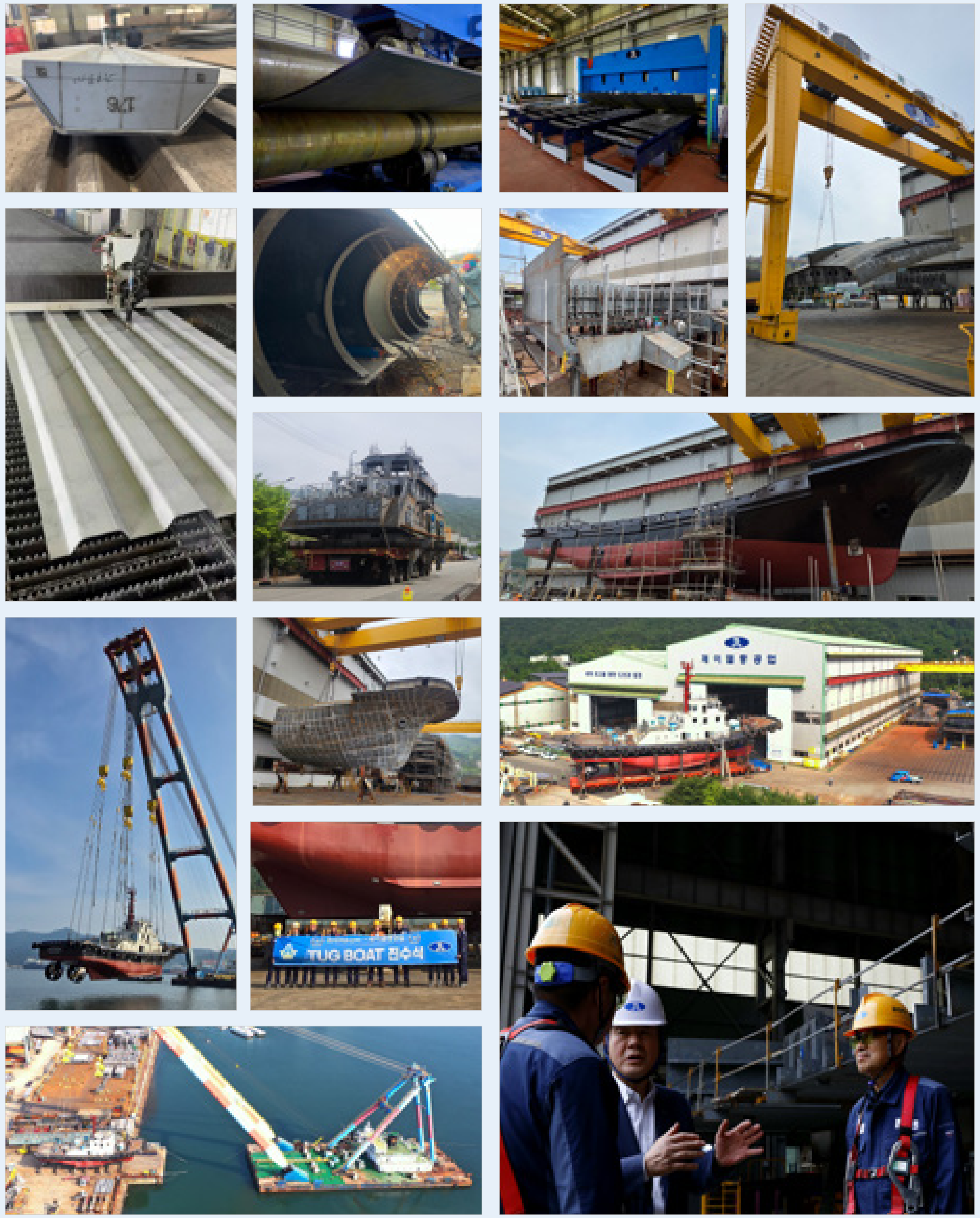
Marine Field Project Performance

YEAR	PROJECT	CONSTRACTOR	OWNER
2020	KING'S QUAY PROJECT	HHI	MURPHY
2022	BAROSSA FPSO OFFSHORE PROJECT	SK OCEAN PLANT	BW
2022	SHWE GAS PROJECT	KSOE	POSCO
2022	SHENANDOAH FPS PROJECT	KSOE	BEACON OFFSHORE
2022	NOC OFFSHORE	DSME	NOC
2022	PETROBRAS P79 FPSO PROJECT	DSME	PETROBRAS
2022	WTIV PROJECT	DSME	ENETI INC
2023	JANSZ-IO COMPRESSION PROJECT	HANWHA	CHEVERON
2024	PETRONAS ZLNG PROJECT	SAMSUNG SHI	PETRONAS
2025	CORAL NORTH FLNG	SAMSUNG SHI	ENI
2025	PETRONAS ZLNG	SAMSUNG SHI	PETRONAS
2025	PETROBRAS P79 FPSO	HANWHA	PETROBRAS
2025	JANSZ-IO	HANWHA	CHEVRON
2025	CEDAR FLNG PROJECT	SAMSUNG SHI	CEDAR LNG PARTNERS

Gallery Part 1



Gallery Part 2



JL Heavy Industy

Callenge and Passion
for the best quality in the world

JL HEAVY INDUSTRY CO.,LTD

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