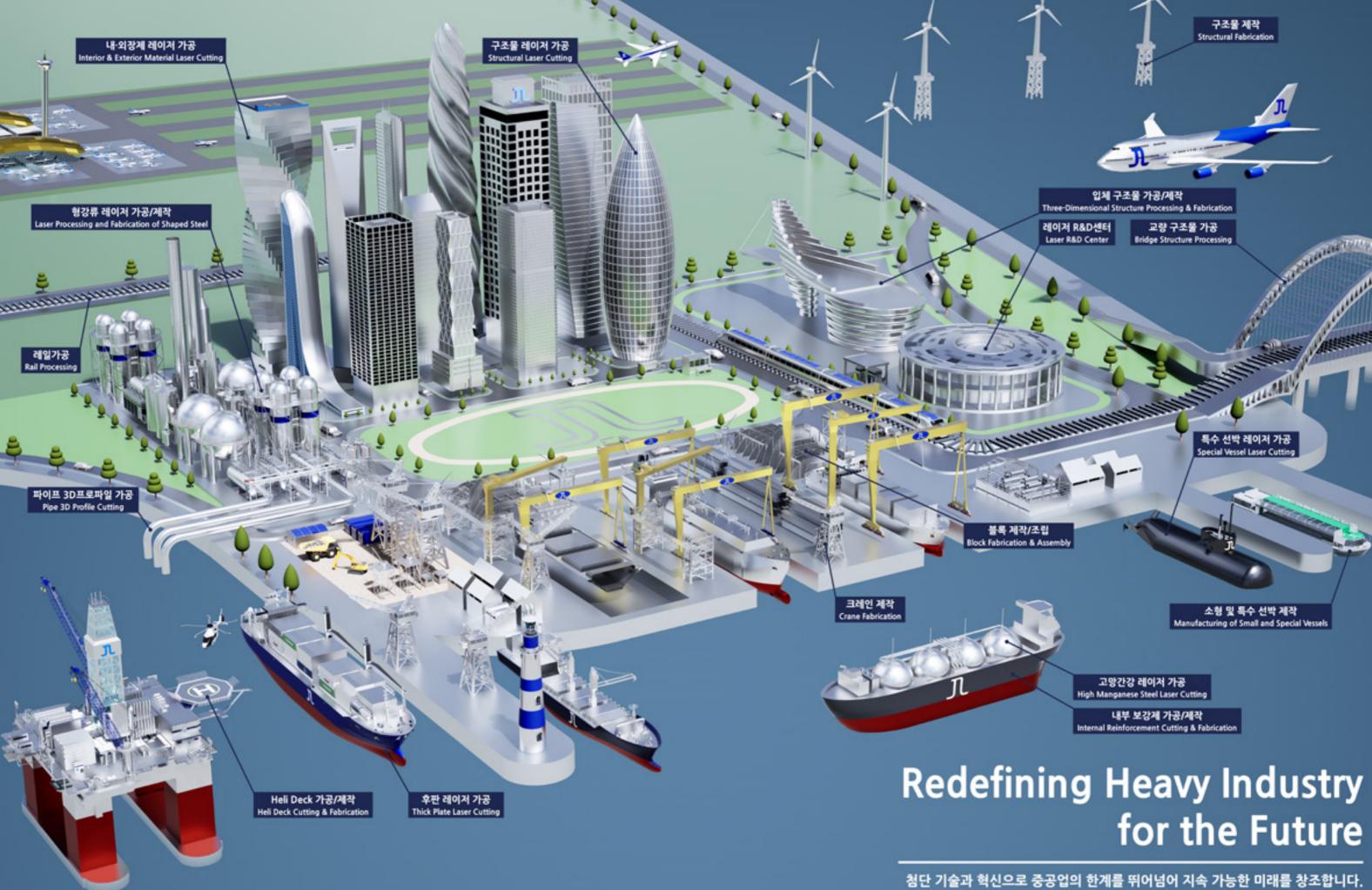


Challenge and Passion for the best quality in the world

JL HEAVY INDUSTRY

제이엘중공업 주식회사





점단 기울과 역신으로 중공업의 안계를 뛰어넘어 시속 가능한 미대를 장소합니다 Overcoming the limits of beaw industry with advanced technology and innovation

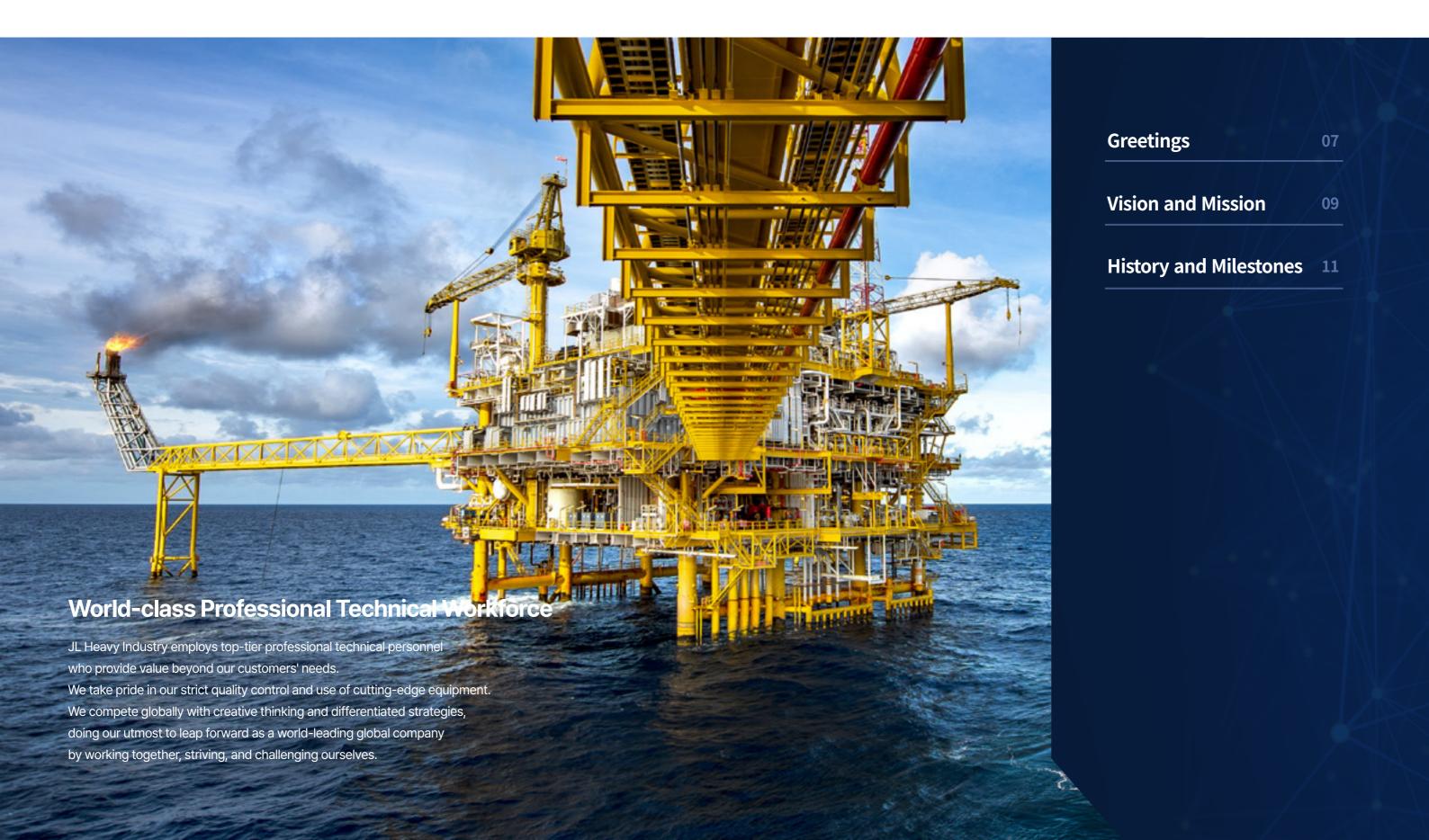
Overcoming the limits of heavy industry with advanced technology and innovation, we create a sustainable future.

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5 PART 01 | Company Overview JL HEAVY INDUSTRY

PART 1. Company Overview



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"



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

This is what JL
Heavy Industry will
create.

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.



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









Innovation

We constantly innovate with a pursuit of novelty and bold thinking.

Customer Value

We prioritize customer satisfaction with the best products, quality, and service.

Sustainable Development

We pursue sustainable development for long-term performance.

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

2019 - [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

- Registered as a primary external partner for SK Ocean Plant

2023 | 08

Establishment of
 Corporate Research Institute

 Registered as a primary external partner for Hyundai Mipo Shipbuilding

2024 01 - Establishment of [Geoje Obi Plant]

O2 - ISO 9001 14001 45001 Certification (DNV) [Geoje Obi Plant]

- Registered as a primary external partner for Samsung Heavy Industries

 Registered as a primary external partner for HJ Heavy Industries

 Root Industry Certification (Korea Institute of Industrial Technology)

- WWA_Welding Workshop Certification (DNV)

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

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

 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

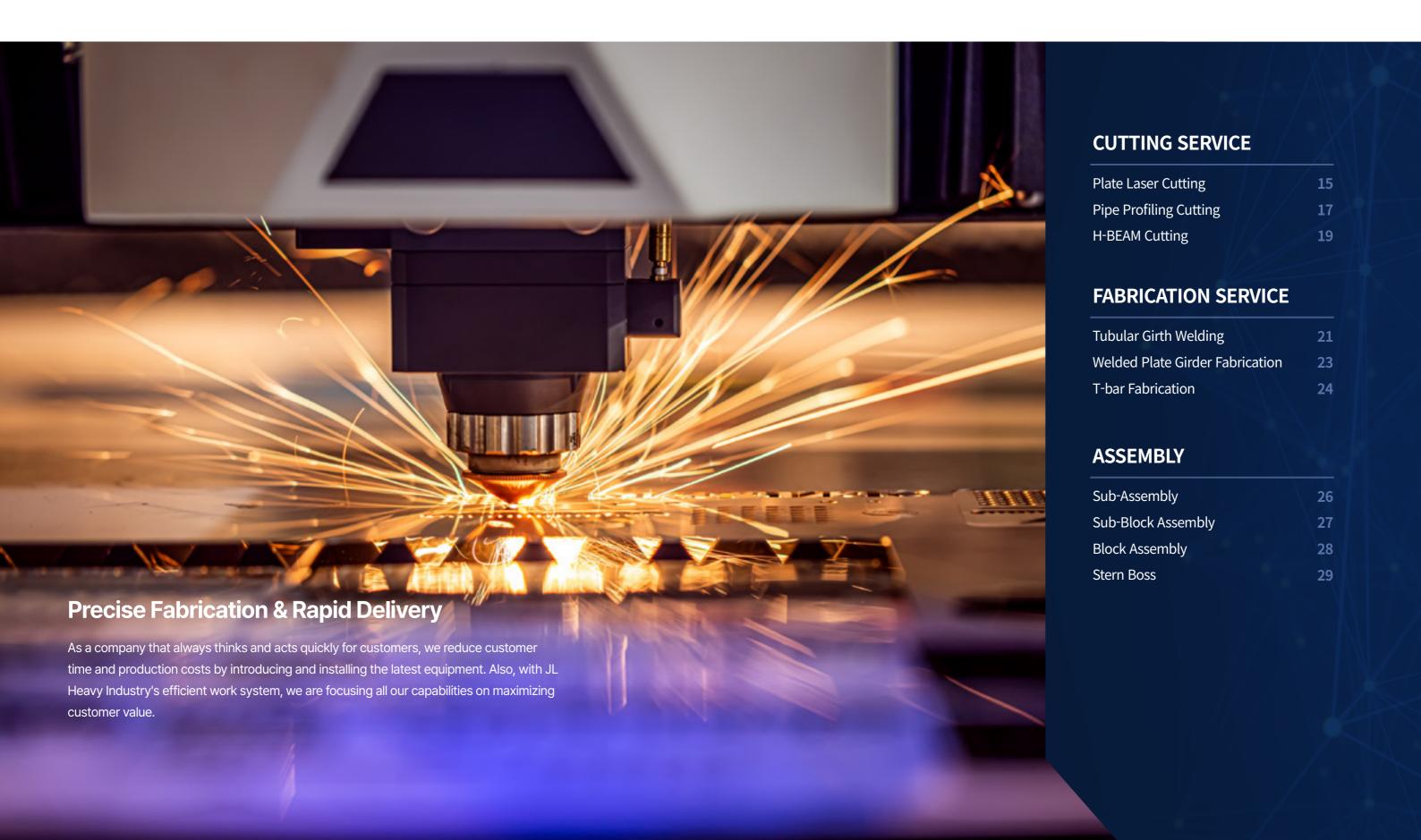
- Patent No. 10-2751121 (Method for Cutting High- Manganese Steel Using Fiber Laser Cutting)

- Trademark No. 40-2295375

- Trademark No. 40-2295481

 Certification for Technologically Innovative Small and Medium Enterprise (INNO-BIZ) (Ministry of SMEs and Startups) 13 PART 02 | Intro To Key Businesses JL HEAVY INDUSTRY 14

PART 2. Intro To Key Businesses



CUTTING SERVICE

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

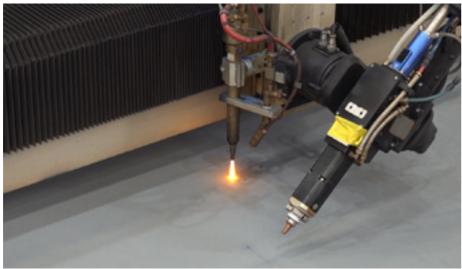
Fiber Laser Plate Cutting

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.





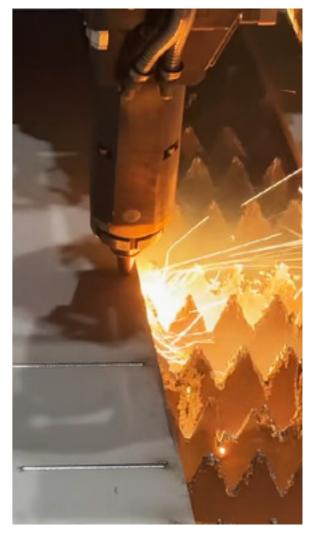




Laser cutting services boast precise cutting and high productivity. It can process various materials and maintains high-precision product quality with minimal thermal deformation. It also enables efficient production with fast working speeds. We provide perfect results with the best cutting technology.









Pipe **Profile Cutting**

How will you meet increasingly stringent welding regulations?

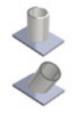
JL Heavy Industry's advanced pipe profile cutting equipment automates the welding preparation process, allowing welding components to be quickly and easily fitted. This can reduce on-site labor costs by up to 30%.



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



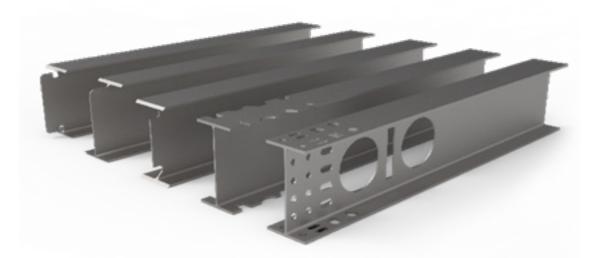




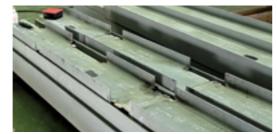


We provide various beam cutting services to support cutting all shapes, bevels, and bolt holes of steel materials as accurately as possible. Structural steel cutting services have several unique advantages that enable strong connections through easy assembly and optimized welding preparation.

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.





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

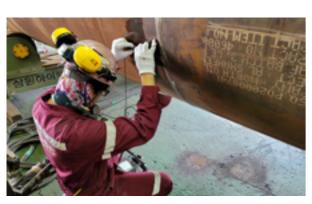
JL Heavy Industry takes responsibility for the crucial stages of subassembly and tubular fabrication, which are the core foundations of onshore, offshore, and shipbuilding industries.

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, stateof-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.





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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.



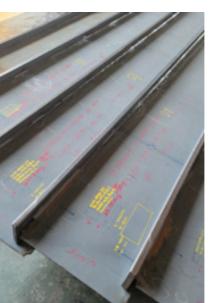




T-bar Fabrication

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 subassemblies 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











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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.













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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

Precision Machining Application

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





Customizable Manufacturing

Provides design and manufacturing tailored to customer requirements

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





(7) S/Tube Pipe Setting & Docking



(8) Assembly Setting



(9) S/Boss Casting Docking





(10) S/Shell Plate Setting



(11) S/Shell Plate Welding &



(12) Final Inspection



(13) Tank Test



(14) Shop Out



(15) Crane Lifting



(16) Delivery





PART 3. Major Facilities And **Plant Introduction**



Ф 380mm

Plate Processing Equipment

Laser Cutting

32050 TX

High-power

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

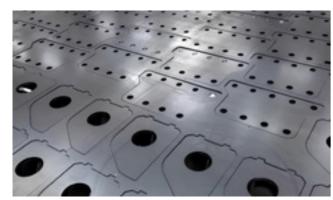
Vertical head cutting size $32,000 \times 5,000 \text{mm}$ Bevel head cutting size $31,400 \times 4,200 \text{mm}$ Z-axis length300 mmX/Y axis position measurement precision $\pm 0.1/10,000 \text{mm}$

X/Y axis position repeat measurement precision ± 0.05 mmA/B axis position precision ± 0.02 mmMaximum speed80m/minLaser oscillator30KW











curve processing

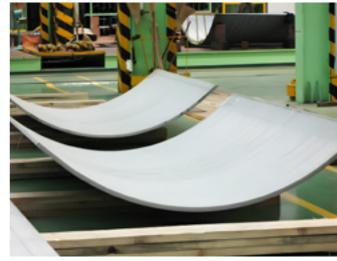
WEF11K-25×8500

Roll-bending M/C

Maximum width of coil plate8,500mmMinimum rotation radius of the upper rollerR650



Upper roller diameter





Gas/Plasma Cutting

LEADGRAPH - PLASMA I-CUTTING



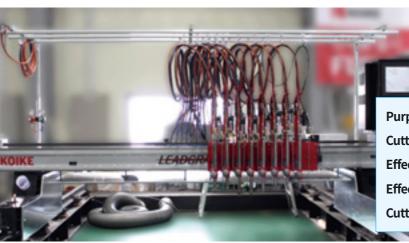
Multi-functional, high-speed, high-performance CNC PLASMA cutting machine capable of processing from thin to thick plates

Purpose GAS/PLASMA Cutting **Cutting speed** 100mm/min ~6000mm/min **Effective cutting width** Inner 1,200mm/Outer 1,500mm **Effective cutting length** 3,000mm

Vertical Cutting (I-CUTTING) **Cutting shape**

Gas Cutting

LEADGRAPH - GAS



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

GAS Cutting Purpose

Cutting speed 100mm/min ~6,000mm/min

Effective cutting width 800mm **Effective cutting length** 2,500mm

Vertical Cutting (I-CUTTING) **Cutting shape**

Plasma Cutting

VERAGRAPH-DXI



CNC PLASMA cutting machine equipped with 3D automatic bevel device

PLASMA Cutting Purpose

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

Ф200~3,050 mm (8-98 inch)

Minimum processing length Maximum processing length 12,000m

50mm



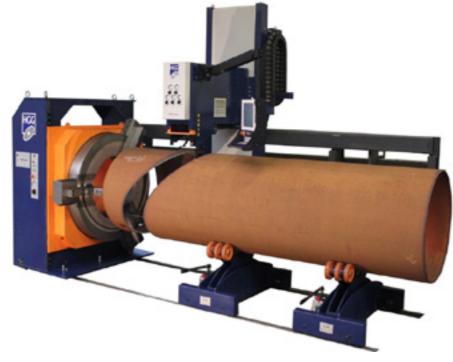
MPC-450 | 1200

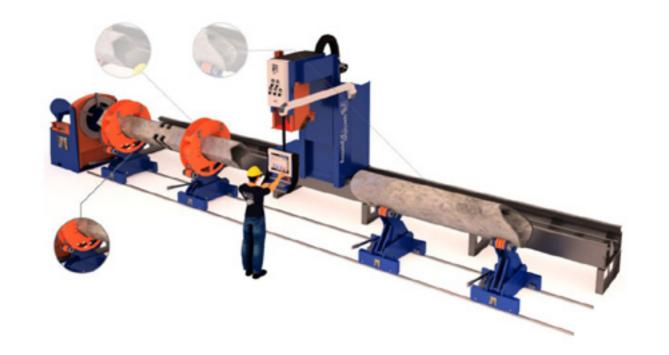
Pipe and Square Tube Cutting Machine

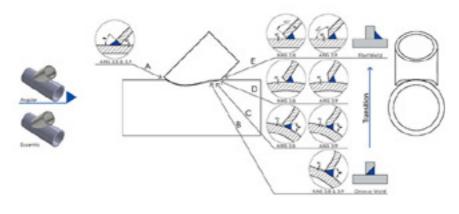
A pipe and square tube cutting machine for automatic 3D pipe and box cutting, which is very accurate and versatile, integrating three machines into one, enabling cutting of various components.

External pipe diameter Φ75-1,225 mm (3-48 inch)

Minimum processing length 50mm Maximum processing length 12,000m

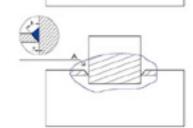


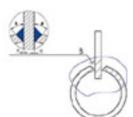
















Structural Steel Processing Equipment

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







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 500mm

600mm(Parallel double row)

Maximum Cutting Height

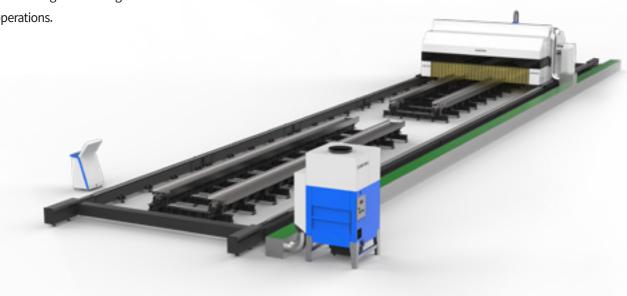
Maximum Cutting Thickness Vertical cut ≤40mm (Flange plate bevel cutting ≤30mm)

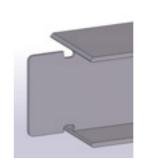
Maximum Cutting Length

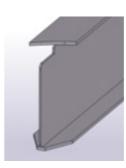
12,000mm (4pcs)

Machine specs

35,670×7,100×3,030mm



















43 PART 03 | Major Facilities And Plant Introduction JL HEAVY INDUSTRY 44

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



Geoje Obi Plant

• Business site 473-15, Yeonha Coastal Road,

Yeoncho-myeon, Geoje-si,

• Factory Size Gyeongnam

• Production Capacity 33,055 m² (Approx. 10,000 pyeong)

• Main Products 15,000 Ton/M

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.









Welding Workshop Certificate



Material/Parts/ **Equipment Specialist** Company Confirmation



Root Company Confirmation



Certificate of Venture enterprise_ Innovative Growth Company



Corporate Research Institute Recognition Certificate



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.

Management Innovation SME (MAIN-BIZ) Confirmation Certificate



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



Patent NO.10-2745773



Patent NO.10-2751121



Trademark NO.40-2295375



Trademark NO.40-2295



Business Performance

Shipbuilding Field Project Performance

'EAR	PROJECT	CONSTRACTOR	REMARK
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	
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	

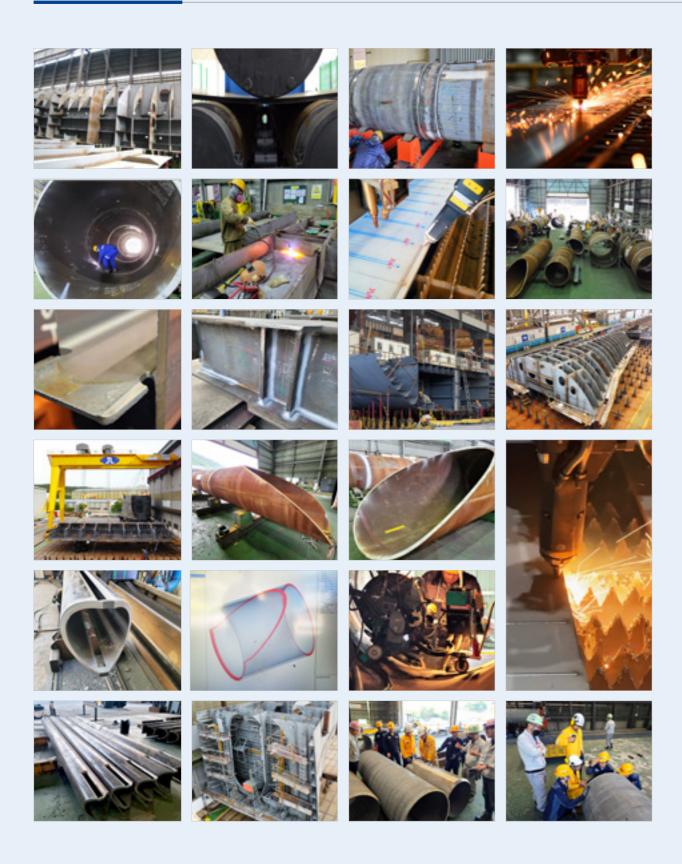
Marine Field Project Performance

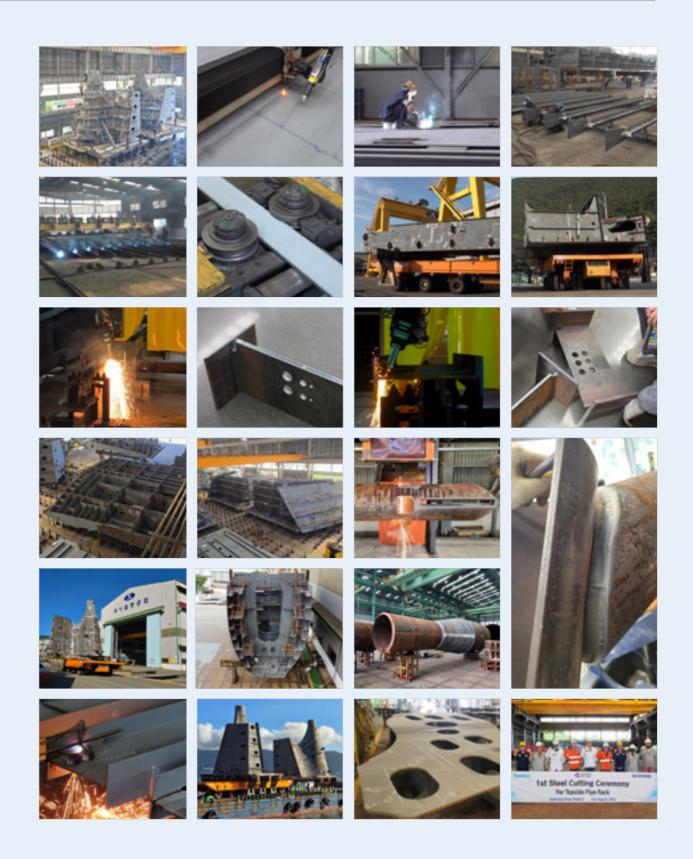
YEAR	PROJECT	CONSTRACTOR	OWNER
2020	KING'S QUAY PROJECT	HHI	MURPHY
2022	BAROSSA FPSO OFFSHORE PROJECT	SK OCEAN PLANT	BW
2022	SHWE GAS PROJECT	KSOE	POSCO
2022	SHENANDOAH FPS PROJECT	KSOE	BEACON OFFSHORE
2022	NOC OFFSHORE	DSME	NOC
2022	PETROBRAS P79 FPSO PROJECT	DSME	PETROBRAS
2022	WTIV PROJECT	DSME	ENETI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

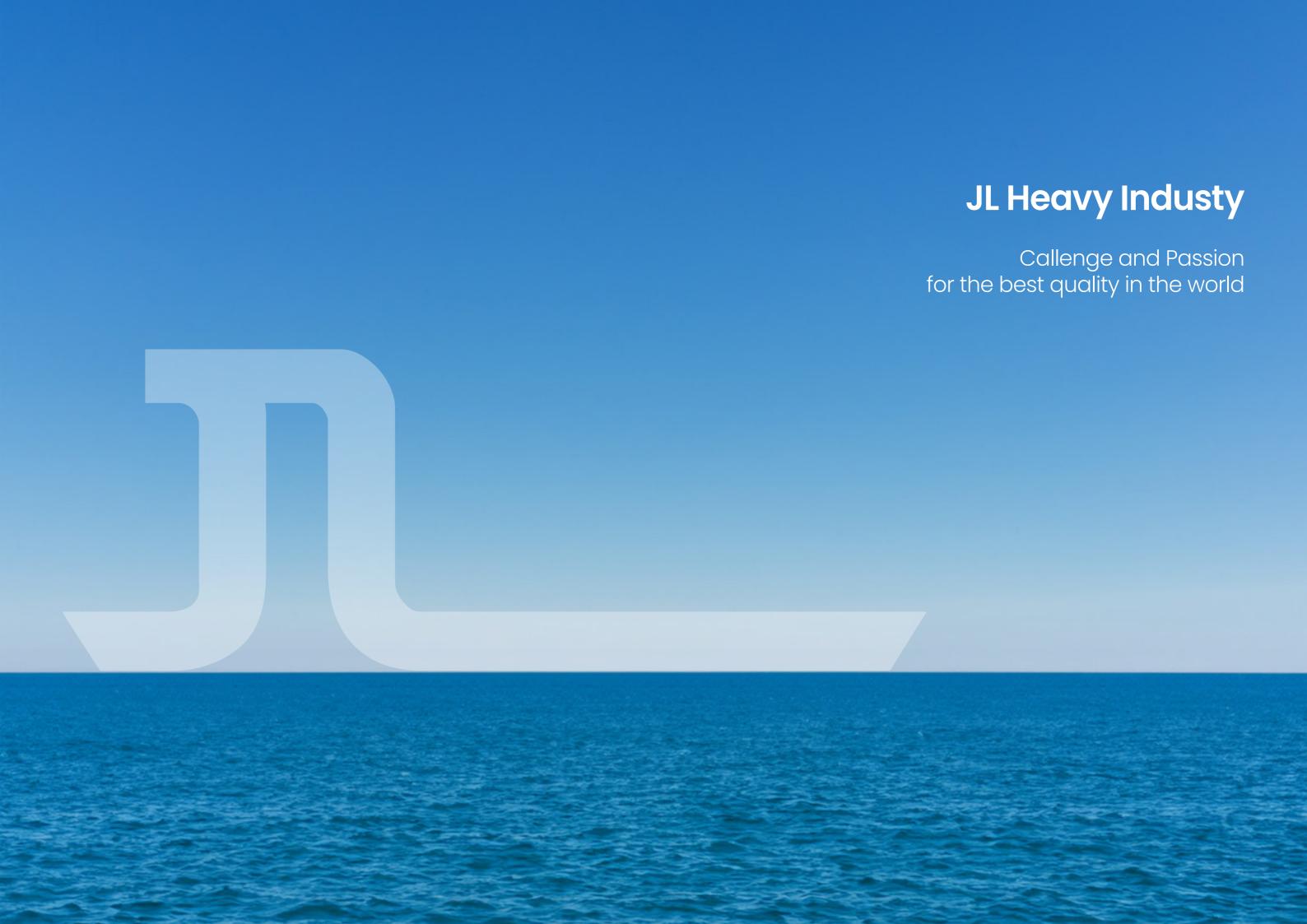


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