

# Company Profile

## JRCS Co.Ltd.

Founding : August 18, 1948  
Capital : \$200,000  
Representative : Koichiro Kondo  
Chairman and President,  
JRCS Group CEO



www.jrcs.co.jp

■ **JRCS Shimonoseki (headquarters)**  
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E-mail : jrcs@jrcs.co.jp

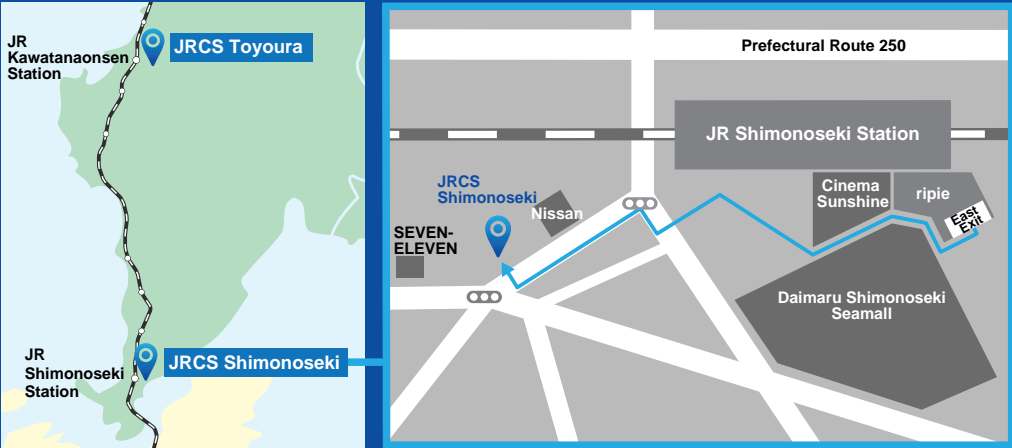
■ **JRCS Tokyo (headquarters)**  
CIRCLES Shimbashi 11F, 2-11-13 Nishishimbashi,  
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■ **The Netherlands Subsidiary**  
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■ **Singapore Subsidiary**  
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■ **Shanghai Subsidiary**  
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Shanghai, 200120, China  
Tel: +86 21 2022 0052 Fax: +86 21 2022 0053  
Email: shanghai@jrcs-sh.com



Five minutes walk from Shimonoseki Station East Exit.

## Group Companies

- **EDOSEI**  
64 Barrack Street Perth WA 6000 Australia
- **64 Barrack st.**  
New Nishi Shinbashi Building 1F, 2-11-6 Nishi Shinbashi, Minato-ku,  
Tokyo, 105-0003 Japan
- **Ishikawa Iron Works, Co. Ltd.**  
1-9-8 Norimatsuhigashi, Yahatanishi-ku, Kitakyushu,  
Fukuoka 807-0837 Japan
- **Kitakyushu Electric Works. Co. Ltd.**  
1-9-8 Norimatsuhigashi, Yahatanishi-ku, Kitakyushu,  
Fukuoka 807-0837 Japan



**JRCS®**  
*Just Right Customer Solution*



Providing a market in which trust  
and world-class quality products  
creates a smile on the faces of  
people worldwide

MISSION

Never to stop marine transportation

VISION

Just Right Customer Solution

To accurately grasp the customers needs and to take the appropriate measures to offer the best possible solution.



HISTORY

1980's

Constructed Toyoura Plant (JRCS Toyoura)

2020's

Joined the second stage of The Nippon Foundation "MEGURI2040" Autonomous Ship Project

Supplied products that support the next generation of marine fuels, decarbonization, and zero-emissions

2010's

Established JRCS Digital Innovation LAB

Developed digital products

2000's

Became the world's first single source supplier of power and automation systems and next generation IAS OASIS to an LNG vessel

Constructed the training center at JRCS Toyoura

1990's

Developed JACOM-22, the world's first fully distributed Intelligent Generator Plant Control & Monitoring System

Acquired ISO9001 certification

1970's

Developed the JACOM-2000 Generator Controller

Developed the SMS-2 CRT-type engine monitor

1950's

Started manufacturing main switchboards and starter panels for commercial vessels

Established Tokyo Sales Office

1948

Established Japan Radio & Electric Mfg. Co., Ltd.

We offered sales, installation, and after sales services of radio and navigational instruments for fishing boats.

We began training services for our high voltage switchboard systems in compliance with the STCW treaty and with approval from Nippon Kaiji Kyoukai (NK).

Established overseas subsidiaries in Netherlands and Singapore



Our Business

Marine Business

Power & automation systems installed on over 8,000 vessels

JRCS manufactures and sells marine equipment. With the mission of "Never to stop the marine transportation," we pursue the highest quality products and services so that vessels around the world can continue to sail safely.

01

High/low voltage switchboard

02

Group starter panel (GSP)

03

Power management system (PMS)

04

Engine control console (ECC)  
Cargo control console (CCC)

05

Alarm monitoring system

06

Integrated automation system (IAS)

07

Alarm monitoring & control system (AMS)

08

Alternative maritime power (AMP)

09

J-S series

10

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MAIN PRODUCT LINEUP

03

Power management system (PMS)

07

Alarm monitoring & control system (AMS)

04

Engine control console (ECC)  
Cargo control console (CCC)

08

Alternative maritime power (AMP)

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Alarm monitoring system

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J-S series

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01

High/low voltage switchboard

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Integrated automation system (IAS)

POINT

Highly reliable and stable power and automation systems with a proven track record

Complete service from manufacturing to maintenance

Full after-sales service to keep ships in operation

Focus on autonomous navigation support

Onshore Industrial Business

Utilizing technology developed in the marine business for onshore industries

We are determined to support all logistics, from the sea to land, into the customers hands. This is why we contribute to creating an infrastructure for land transportation; we are utilizing the technology and experience we have cultivated over years in the marine industry.

Switchboard for onshore industries

Transportation infrastructure system

03

JRCS COMPANY PROFILE

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Products



High voltage switchboard

The high voltage switchboard complies with the international standard "IEC62271-200" metal-enclosed type. Reduced size and robust and strong enclosure structure minimize the impact in the event of a short-circuit accident.

Low voltage switchboard

The low voltage switchboard offers the world's smallest class of dimensions with higher reliability and safety performance gained through extensive experience.


Power Systems

Designs, develops, and manufactures switchboards, as well as starter panels and generator control & power management systems for ships. High voltage switchboards are installed on large vessels such as container ships and LNG carriers.

Domestic bulk carriers

Alarm monitoring system

The alarm monitoring system is specialized for digital signal input/output. Alarms can be easily checked on a color LCD monitor with touch panel function. Redundancy using two monitors minimizes the effects of malfunctions.




JMD series

Ocean-going bulk carriers, LPG carriers, Mega container ships

Alarm monitoring & control system (AMS)

The AMS enables the early resolution of problems through "visualization" by multiple analysis of high-precision measurement data. Intuitive operability and simple maintenance reduce crew workload and human error.




SMS series

LNG carriers

Integrated automation system (IAS)

The IAS is a system for high-specification vessels such as LNG carriers, that monitors and controls the engine and cargo simultaneously. Integration with power management system is also possible.



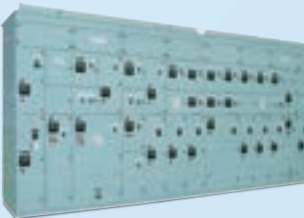
OASIS

Automation Systems

Designs, develops, and manufactures the alarm monitoring & control system (AMS), as well as the integrated automation system (IAS). OASIS can manage and control more complicated data for ships such as the LNG carrier.


Group starter panel (GSP)

The GSP supplies power to inboard loads (e.g., each motor) and prevents damage due to overcurrent. Equipped with a control unit (NSU) developed in-house, it achieves the smallest space-savings in the marine market.



Power management system (PMS)



The PMS is a highly safe power supply system with independent CPUs for generator control and engine protection. Optional input/output modules can be added to flexibly accommodate special control specifications. Excellent visibility is ensured by the 5-inch full-color display.



JACOM series

Alternative maritime power (AMP)

The AMP is a system that stops the ship's generator engines during port calls and receives necessary power from shore power sources. It reduces the amount of environmental pollutants emitted from ships. It complies with the international standard IEC/ISO/IEEE80005-1 and meets increasingly strict emission regulations.





Engine control console (ECC)

The ECC is equipped with indicator gauges such as tachometers and pressure gauges, as well as alarm monitoring & control systems. It monitors and controls the status of the main engine for vessel navigation, the generator for electricity generation, and each of the auxiliary equipment that assists these engine and generator, thereby supporting safe navigation.

Cargo control console (CCC)

The CCC monitors and controls cargo handling equipment to ensure a safe working environment. Flexible panel design to meet the needs of the crew and easy operation is available. It contributes to the efficiency of all types of cargo handling, including large tankers and LPG carriers.



05

JRCS COMPANY PROFILE

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connect

Fleet performance and vessel optimization

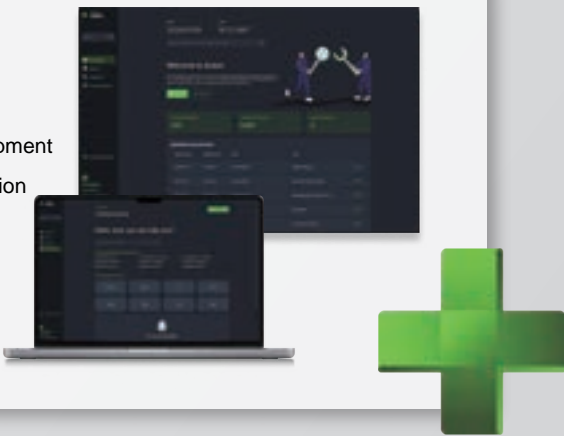
- Real-time data monitoring of operational status, fuel consumption and engine condition
- Edge appliance and cloud linkage to collect information on operational status and onboard engines
- API integration providing flexible and scalable systems



assist

Centrally manage trouble reports, equipment, and more

- Centralized troubleshooting of onboard equipment
- Search function for easy retrieval of information
- Seamless information sharing which contributes to preventive maintenance
- Reduce work time through effective use of data

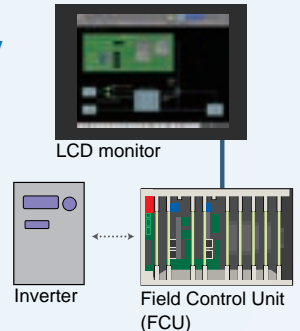


J-S Eco

JRCS Smart Eco System

Energy-saving Variable Frequency Drive for Fans

J-S Eco supplies the optimum flow of cooling seawater by automatically controlling the speed of the cooling seawater pump according to changes in the main engine load and seawater temperature. Significant energy-saving and CO2 reduction are achieved.

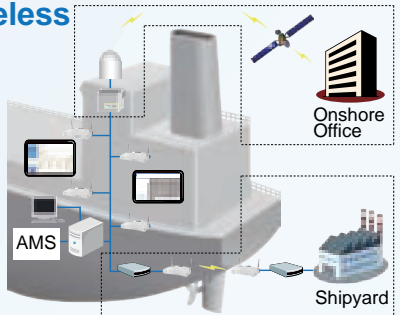


J-S Net

JRCS Smart Network System

Onboard wireless LAN system

J-S Net enables information on the AMS to be viewed on a table device anywhere on ship. The extension alarm panels in each cabin can also be displayed.

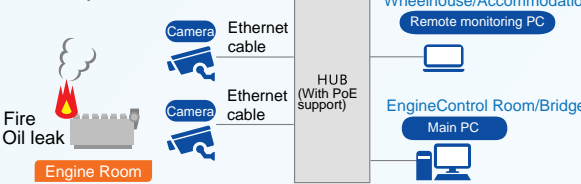


J-S Eye

JRCS Smart Eye System

Industrial Television System

J-S Eye monitors fuel leaks of the main engine and other abnormalities via webcam. It alerts the operator earlier than conventional fire alarm systems, preventing serious problems before they occur.



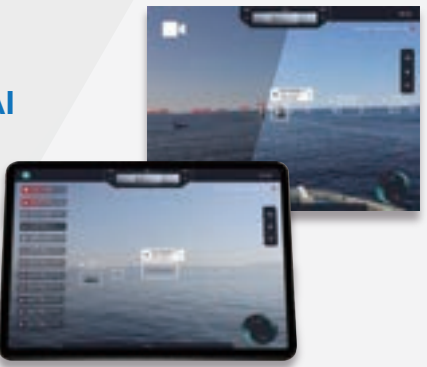
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infoceanus is a digital product with edge computing and cloud computing technologies at its core. By integrating up to the minute technology, infoceanus comprehensively grasps what is out at sea providing real-time information for the user.

command

Safe operations on the sea & situational awareness using AI

- Object detection by AI (computer vision)
- Notify the ships operator of ships, small vessels, buoys and other drifting objects, fully detecting objects both with and without AIS
- Alert the ship's operator of large and small vessels, buoys and other objects at sea both with and without AIS



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J-S series

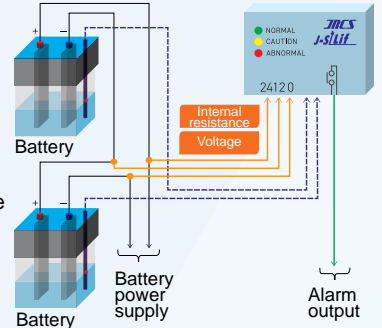
The J-S series monitors and controls information related to ship operations, such as automated control of onboard equipment, early detection of abnormalities, and issuing of alarms. It offers safety and operability only possible with JRCS's experience and technology cultivated through the manufacture of electrical equipment products for marine use.

J-S Lif

JRCS Smart Life cycle & self diagnosis System

Battery Deterioration Detection System

J-S Lif monitors the degradation status of batteries. Showing the best time to replace the battery eliminates the need for regular inspections using a battery checker.

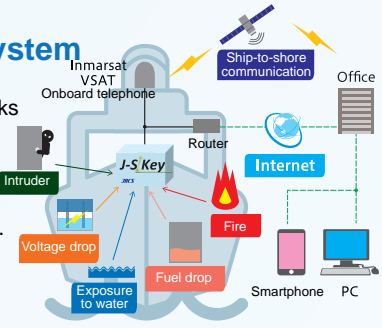


J-S Key

JRCS Smart Keylock System

Remote Alarm Notification System

J-S Key remotely checks what is happening on unmanned vessels in port anytime. Its compact design makes it easy to install. No dedicated software is required.



Others

Training Simulator

Training Simulator can reproduce on-board conditions accurately, enabling emergency training that is difficult to perform on-board.

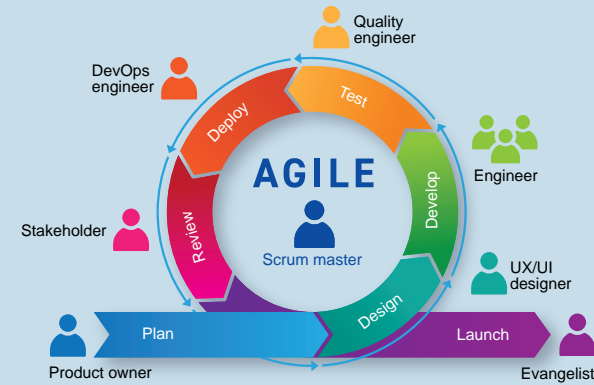




## Product Manufacturing Process

### What we can offer in an in-house integrated production

JRCS provides lifelong customer support, from design consultations to maintenance services through “in-house integrated production”. The quality of the product on the production line is thoroughly checked by the team in the next process. Linking this baton, we deliver the world's highest quality electronics products that support safe and smooth marine transportation.



### Agile approaches for digital products

A flexible and iterative process of design, development, testing, deployment and review. We can maximize your review as quickly as possible



### Acquisition of ISO 9001 quality certification

Every phase of production meets international standards. From an order, to production, to after sales services, our entire process complies with ISO 9001 regulations.



## After-Sales Service

### Highly-reliable worldwide after-sales service

With JRCS products installed in over 8,000 vessels, we receive a variety of inquiries on a daily basis. Over 30,000 inquiries have been handled in the last 20 years, ranging from out of warranty products to emergency requests for parts or maintenance. We even receive inquiries from other manufacturers and are able to handle requests for a wide variety of brands. Whatever the inquiry, we are always quick to provide advice, supply/replace parts, or carry out retrofitting work so that marine transportation is never stopped.



### Three types of after-sales service

#### 01 System Retrofitting



#### 02 Regular Inspection Maintenance



#### 03 Training



### International service network

Netherlands / Spain / U.S.A. / Singapore / Turkey / S. Korea / China / Hong Kong / Brazil / U.A.E. / Philippines / Taiwan / India



01

System Retrofitting

We offer optimal system retrofitting service to further contribute to the safe operation of ships, We have extensive experience retrofitting for a wide array of ships worldwide and can flexibly accommodate our customers needs.

Completed

900 vessels serviced

Over 1,000 cases



Experienced technical staff will assist you!

Retrofitting Cases

1

LNG carrier

IMCS, Monitor, CPU, ACB etc.

A 20-year-old ship was able to continue sailing after having the main control equipment replaced due to the end of parts production.



2

Tanker

Power management system and circuit breakers in the main switchboard

The power management system "JACOM-21" was replaced with the latest model "JACOM-55" along with a new circuit breaker. This leads to repair costs reduction and prevented potential suspension of operations.



3

Car carrier

Alarm & monitoring system

The alarm & monitoring system "SMS-22", was replaced with the latest model "SMS-55", extended the 20 year old ships lifespan.



4

Training facility for fisheries high schools

Training simulator

The training simulator used for 15 years was replaced with a new system with the latest features.



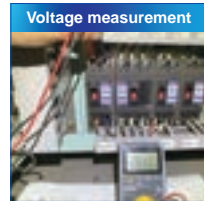
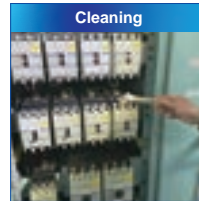
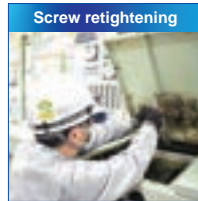
02

Regular Inspection & Maintenance

From a preventive maintenance perspective, we suggest appropriate periodic inspections and maintenance using inspection sheets organized for each piece of equipment and system on board.

Advantage 1

Reduce crew burden and repair costs due to unexpected problems



Advantage 2

Prevent problems caused by component failure and wear due to aging



Currently, there is a worldwide shortage of parts supply. Even in the unlikely event of a failure or a request for retrofitting, it may take time to procure parts. We strongly recommend that you have your equipment inspected in advance to prevent problems before they occur.

Maintenance at the appropriate time is important!

Electrical equipment used for many years in ship's harsh environment, such as high temperature, high humidity, and vibration, can burn out, short-circuit, or melt down if they are not properly inspected or replaced. This could lead to serious accidents that make the ship inoperable.



03

Training

We have a dedicated training center near our manufacturing plant that provides in-depth, curriculum-based technical training tailored to the level of your crews.

The STCW-certified, ClassNK-approved curriculum

STCW Convention: Third-party accreditation from ClassNK for compliance with the IMO Model Course.

High voltage switchboard	Operation course IMO model course 7.04
	Management course IMO model course 7.02
Low voltage switchboard	Proficiency training course
Starter panel	Proficiency training course
Engine control console	Proficiency training course



High level training by ClassNK certified trainers



Issuance of ClassNK certification

Fully customized training is also available

We offer original programs tailored to individual needs. In addition to improving the skills of seafarers, training for supervisors and training for young employees to acquire basic specialized knowledge are also available.

Highly effective practical training

This is a hands-on training course that replicates onboard operations. The training also includes extensive troubleshooting for problems that may occur on board, allowing participants to learn skills that will be useful in the actual workplace.





## JRCS fully supports personal development!

### Implementing Digital Transformation (DX)



All employees in the production department are now provided with tablets, enabling efficient communication with video conferencing and chat, as well as attendance management and various internal applications.

### Seminars



Twenty-minute seminars are held once a week, where employees can learn various topics from current events to literature, and beyond.

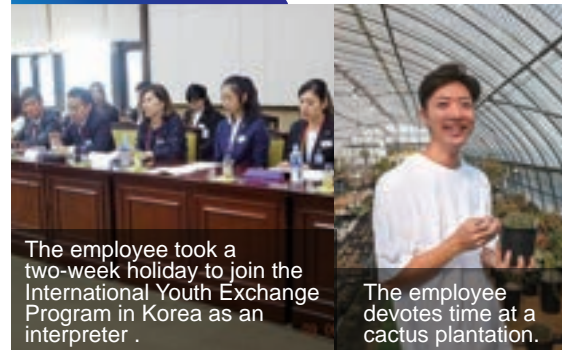
### Supporting Growth



Support for challenges to national qualifications and skills tests

Yamaguchi Prefecture Vocational Ability Development Association awarded JRCS employees for its excellent performance in the technical test for switchboard and control panel assembly work.

### Secondary Job System



The employee took a two-week holiday to join the International Youth Exchange Program in Korea as an interpreter.

The employee devotes time at a cactus plantation.

The system is introduced with the aim of utilizing employee's expertise and skills in society and enhancing individual competence and experience. Up to 50,000 yen per person is provided to back up the challenges.

### Full-time Employment System



Since its introduction in 2018, more than 20 contract workers have passed the exam and are now permanent employees.



- ◆ Yamaguchi Excellent Childcare Support Company Certification
- ◆ Yamaguchi Gender Equality Promotion Business Certification
- ◆ "300 of Japan's Vibrant Manufacturing Small & Medium Enterprises" Award (Small and Medium Enterprise Agency)
- ◆ "Company Supporting Future Generations" Award
- ◆ Yamaguchi Women's Success and Promotion in Business Certification
- ◆ Recognized as a company that drives regional growth
- ◆ Minister's Commendation for Maritime Activities

## Employee Benefits



Company Dormitory

The dormitory reduces the financial burden on young employees, and creates a safe environment where they can communicate easily and enjoy their private time.

### Paid Leave Granted from Date of Employment

Ten days of paid leave are granted to all employees the moment they start at JRCS. Paid time off can be used in hourly increments allowing employees flexibility with the time.

### Annual Holidays

Over **125** days off a year



In-house Nursery

Our in-house nursery called "Kikuho Land" is located at our branch in Toyoura, Japan. It can accommodate children from 0-6 years old, and more than 50 employees have used the nursery since its establishment.



Childcare Leave

Rate of childcare leave taken  
**100%** Female **80%** Male  
 (As of April, 2023)

### Other Benefits

Shorter working hours for childcare  
 Nursing/childcare leave



## Company Events



JRCS Kids Academy

Kids Academy is a program dedicated to helping children cultivate new interests in learning. It aims to boost future possibilities for children while simultaneously giving busy parents some time for themselves. The classes include things like robot programming, English conversation courses, and factory tours.

## Club Activities

Volleyball, fishing, futsal, badminton, cross-cultural activities and more

### Table Tennis Club



### Outdoor Club



## Community Contribution

JRCS' mascot "Kikuho" is a symbol for "listening". Kikuho participates in local events, pre-schools and daycares. He participated in a picture show, where he conveyed the importance of listening in a fun way. JRCS also participates in volunteer activities as well, such as picking up litter at local beaches and public parks.



Community Children's Events



Local Sports Team Support



Community Clean-up Activities