

Company Profile



Moonlight ITSUKUSHIMA SHRINE at Miyajima, Hiroshima Prefecture, 85 years ago.

(Aim) Bridging to Recycling-oriented Society

Environment • Energy Saving • Recycling • Preventive Maintenance and Refurbishment of Factory

A Trading Company specializing in Industrial Equipment & Materials

SANWA CORPORATION CO., LTD

Outline of our Company

1. **Company Name** SANWA CORPORATION
2. **Establishment** 30 JAN. 1958
3. **Company Business**
 1. Sales of Chemical Products
 2. Sales of Machine Equipment
 3. Ordinary Construction Business
 4. Export and Import Business
4. **Capital** JPY27,000,000.
5. **End of the fiscal period** End of March
6. **Main Bank**

The Hiroshima Bank, Ltd. (Otemachi Branch)

MUFJ Bank, Ltd. (Hiroshima Central Branch)

The Shoko Chukin Bank, Ltd.
7. **Registration of Construction**

Approval of Hiroshima Prefectural Governor.(No.27-35678)

Painting business, Plastering work, Water Proofing work,

Interior finishing work, Roofing business,

Mechanical Equipment Installation
8. **Other Qualification**

Registration of Sales for Poisonous & Deleterious substances
(Registration No. 1434)

Registration of Export & Import code (Code No. 73797)

Registration of Export & Import Company for Drug materials
etc. (Hiroshima 52-19)

Comprehensive qualifications by the Japanese government
(160511000107)

Identification number and password for receiving support from
Electronic information processing system (A00063827)

Incorporated Administrative Agency Japan Mint, Grade Decision
Notice (No.31-480)
9. **Company's History**

Aug. 1953	Established Sanwa Shoukai at 100, Kokutaiji, Hiroshima city
May. 1957	Newly set up the office at 1-4-10, Sendamachi, Naka-ku, Hiroshima City for business expansion
Jan. 1958	Reorganized as Sanwa Corporation and took over all the business operation
Apr. 1960	Set up Field work Dept.
Jun. 1962	Opened Shiga Branch (Closed Feb. 2011)
Mar. 1970	Opened Yoshijima Office and Warehouse

Nov. 1972	Newly built Head office at 1-4-10 Sendamachi, Naka-ku, Hiroshima city
Apr. 1973	Opened Osaka office
Feb. 1975	Opened Kyushu Branch
Dec. 1978	Approved as Constructor (engaging in Paint work)
Mar. 1981	Opened Sanin Sales office (Closed Dec.2010)
May. 1981	Opened Tokyo office (Closed Dec. 2006)
Jul. 1989	Newly built Sanin Sales office
Nov. 1992	Newly built Head office at Yoshijima and integrated Yoshijima office into Head office
Jun. 1998	Obtained the approval of Construction Minister as General constructor
Mar. 2011	Approval of Construction Minister as General constructor by Hiroshima Prefectural Governor
Sep. 2011	Work Dept. closed

10. Numbers of Qualified

Company Members

Hazardous material engineer (Class A)	1 person
Hazardous material engineer (Class B)	5 people
Handlers of Poisonous and Deleterious Substances	2 people
Qualified person for heat management.....	1 person
Working environment measurement expert Class II	1 person
Hydraulic System Adjustment 2 nd grade	1 persons
Building operation and management engineer 2 nd Grade Finish ..	1 person
Foreman / Safety and Health Supervisor	2 people

Preventive Maintenance & Refurbishment of a Factory

1) Promotion of Preventive Maintenance

In order to ensure the performance and safety of equipment, we promote automation and labor saving, implement daily inspection management of equipment inside and outside the factory, review the quality of painting, waterproofing, and heat insulation materials, and prevent deterioration of usage environment and performance degradation of equipment caused by rust, leakage, condensation, etc.

2) Promotion of Efficiency and Energy-Saving

- ① Replacement of old hydraulic units with DAIKIN energy-saving equipment at machine factories
- ② Standardization of cab cooler and duct piping work for large cranes
- ③ Construction of heat shielding and heat insulating coating on the roof, sheet waterproofing work on the floor
- ④ Expanding sales of patch seals: new transportation systems, bridge joints, and peripheral seals for heating tanks
- ⑤ Construction of anti-condensation paint for plant piping system

3) Improvement of Safety Environment

- ① Automatic lubrication of large-scale steel structure equipment in high places ---cargo handling equipment
- ② Prevention of scattering of harmful substances---dust collectors, water treatment equipment, VOC countermeasure equipment
- ③ Prevention of penetration leakage of harmful substances---FRP waterproof coating and improvement of soil investigation
- ④ Comprehensive Sanitation Management: HACCP---Antibacterial/Antifungal Painting Work

4) Expanding sales of Sanwa Brand Products

- ① Sanwa Thinner: Outsource manufacturing to multiple external factories (OEM production)
- ② Sanwa AVCD: Auto Valve with Control Device
- ③ Sanwa Masso Rosin: Commercialized at a factory in Vietnam / Sole Agent Contract

5) Extend machine life and reduce equipment cost by maintenance repair of hydraulic and pneumatic equipment (including overseas products)

- ① Hydraulic Cylinder • Motor • Pumps
- ② Labor-saving in post-process by preparing pneumatic equipment in pre-process

List of products handled

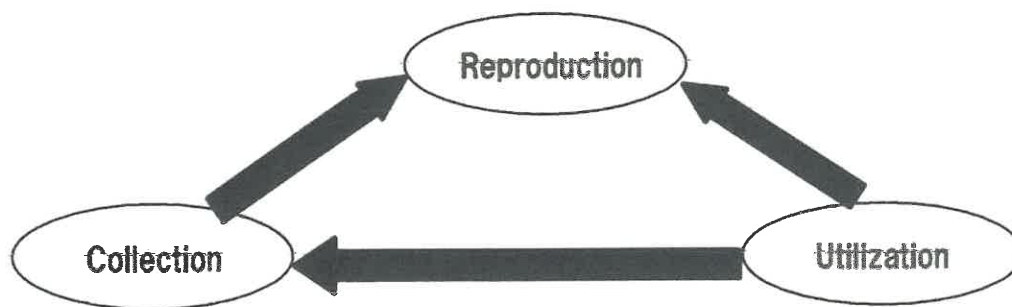
Product name	Breakdown
General products	
① Paints	UV paint for corrosion protection and wooden floor (CMP), Factory floor paint (ABC Trading, MIZUTANI PAINT), Exterior wall paint (SK KAKEN, NIHON TOKUSHU TORYO)
② Silicone	Shin-Etsu Chemical products for paint base material, heat-resistant insulating oil and high vacuum sealing
③ Hydraulic equipment	Cylinders made by TAIYO, PARKER, JUFAN(Taiwan) and CYSKO(Korea), Distribution valves for lubrication parts (DLP), Single-point lubrication devices (Taiwan)
④ Valves	SUS ball valves made by SICO (Korea) have been delivered to water distribution systems in high-rise buildings for over 10 years without any accidents.
Our own products	
① SANWA AVCD	A pre-prepared product that adds a control function to an actuator- equipped butterfly valve, reducing new installation and maintenance work in factories.
② SANWA thinner	Manufactures cleaning thinners for specific applications with adjusted ingredients under its own brand.
③ SANWA Masso Rosin	Switched materials to MASSONIANA RESIN at VINHCONSHIP (Vietnam) from that of Chinese rosin which is shortages and Vietnam one is a cheaper and a performance is comparable to Chinese one.
④ VOC	Organic solvent countermeasure equipment
Contracted processing products	
① Large CAN manufacturing products	At 大重集团 and 金州重型(China), we manufacture hundreds of tons of structures, as well as, large SUS structures and tanks, by managing the process, adhering to schedules and ensuring quality.
② Pressure vessel	At DAEHEUNG(Korea), we manufacture SUS heat exchangers and containers.
③ Large piping work	Installing thermal insulation on the round piping for the cab cooler of a large crane.
④ Waterproofing work	We apply Shin-Etsu Chemical silicone sheets and other materials to the joints of concrete blocks in tank berms, agricultural irrigation channels, and fireproofing tanks to stop water from entering.
⑤ HIP processing	We have a track record of joining large wear-resistant parts by powder sintering + diffusion bonding for plastic processing machines by using heat-sensitive hydrostatic pressure (HIP) of KUROKI KOGYOSHO, for over 30 years.
⑥ Hydraulic maintenance	Preventive maintenance of cylinders, pumps and motors. We check the effectiveness of packing and, if necessary, hard chrome plate and re- polish the main internal parts to restore them.

⑦ Precision distillation	Performs precision distillation using the Oldershaw method.
⑧ Explosive bonding work	We manufacture composite materials such as Cu/SS, SUS/SS and Ti/SS using explosive force. We have a track record of delivering 850T Cu/SS clad to the TOKYO Linear Motor Car-Oedo Line.
	Revised) 8.28.2023

Recycling of Solvent and Plastic

Private Declaration ISO14001.

Our company will tackle the Environmental problems based on ISO 14001 Standard System



Aim : Bridging to Recycling-oriented Society

Environmental Policy

1. Establish and utilize the environmental management system
2. Observe the law and agreement etc. to prevent the environmental pollution
3. Set the environmental object and target and review them periodically and Implement the environmental improvement activity continuously.
4. Develop the environmental products, and procure the environmental materials and facilities.
5. Tackle the reduction of the wastes, recycling promotion, Resource-saving and Energy-Saving.
6. Notify the environmental policy to employees and customers and disclose it to the society.

Sales Record of Cylinders made in Taiwan

SANWA CO.

Process	Equipment name / Installation position	Quantity	Model/Pressure/ Pressure resistance (MPa)	Inner Diameter Rod diameter (mm)	Stroke/Total length (mm)
Hot Rolling	F1-3 WR Chock Clamp	15	Hydraulic 21 31.5	Φ63 Φ35.5	170 644
	Intermediate Roll IMR Hook BOT	7	Hydraulic 21 31.5	Φ50 Φ28	100 878
	F7 WR For Clamping	4	Hydraulic 14 21	Φ63 Φ35.5	140 654
	FSB Descaling Pinch roll swing	2	AIR 0.7 1.4	Φ280 Φ63	310 81
	Intermediate Roll IMR Hook TOP	8	Hydraulic 21 31.5	Φ50 Φ28	100 776
	FSB Pinch roll For lifting	22	AIR 1 1.5	Φ250 Φ63	180 81
	Rolling CS Chute change	2	Hydraulic 21 31.5	Φ160 Φ90	700 1431
	2SF Charge ram	2	Hydraulic 21 31.5	Φ150 Φ80	300 1013
	2 Hot rolling Turntable lock	4	Hydraulic 21 31.5	Φ100 Φ56	181 854
	Hot rolling Spindle support	4	Hydraulic 21 31.5	Φ140 Φ110	435x50 1985
	2 Hot rolling F1-6 Stripper retract	2	AIR 0.7 1.4	Φ280 Φ63	310 74
	Hot rolling finishing For keeper plate	1	Hydraulic 21 31.5	Φ63 Φ35.5	50 524
	Hot rolling F1-6 BUR For Clamp	2	Hydraulic 21 31.5	Φ80 Φ45	90 583
	Exhaust gas cooling recovery For skirt lifting	4	Hydraulic 14 21	Φ100 Φ56	110 480
Steelmaking	Degassing equipment Sub-material discharge gate	1	AIR 1 1.5	Φ125 Φ40	304.5 545
	Degassing equipment Sub-material discharge gate	1	AIR 1 1.5	Φ125 Φ40	307.5 545
	Hearth For rotating chute	1	AIR 1 1.5	Φ200 Φ50	500 78

Others	For heating equipment Fuel extrusion cylinder	2	Hydraulic	14	21	ϕ 200 ϕ 100	600	1315
	For volume reduction equipment Pressurization machine	1	Hydraulic	21	31	ϕ 140 ϕ 100	1340	1678

AUTO VALVE WITH CONTROL FUNCTION

SANWA CORPORATION

GOAL: Improve efficiency of Maintenance Work by Advance arrangement & Unitization
Reduce procurement work, Measures not to reduce skilled workers at site

PRODUCT NAME : Automatic Butterfly VALVE WITH CONTROL Function (Wafer Type)

SPEC. : JIS16K-50A, 65A, 80A, JIS 10K-100A, 150A, 450A

- Features:**
- ① VALVEs & CYLINDERs are made In Korea or Taiwan with proven records for steelmaking.
 - ② Control systems such as Solenoid valves with bypass function are made in Japan.
 - ③ Auto Valves and control products are quality guaranteed by each manufacturer.
 - ④ Delivery is made after checking that there are no leaks in the connections after the entire assembly.



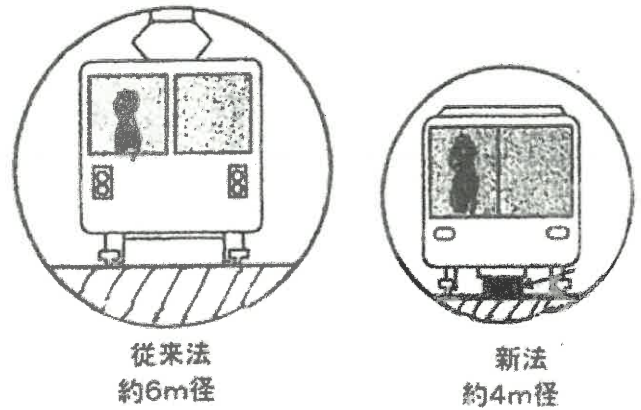
150A Butterfly Valve (before shipping)

Examples of Explosive Clad Material applications

1. Cu/SS, AL/SS Clad

In conventional subways, trains draw electricity from pantographs on the roof, but on the O-edo Line, Cu Clad or Al Clad is placed between the tracks to draw electricity from the floor of the train.

This method significantly reduces the cross-sectional area of the tunnel to less than half, and the cost of subway construction can be significantly reduced.



The black part between the tracks is Cu/SS Clad

2. Al/Ti/Ni/SUS Clad

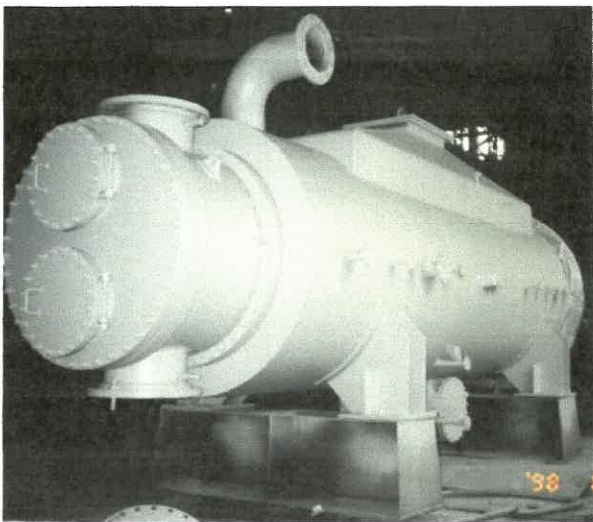
Ships used to transport LNG are equipped with Al tanks, which are welded to the structural carbon steel of the hull, because direct welding is not possible to secure the tanks, the Al tanks are connected to the hull with a four-layer composite material of Al/Ti/Ni/SUS.



LNG Ship (MHI Technical Report)

3. SUS/SS Clad

To reduce the material costs of large SUS tanks, there are large composite pressure vessels in which only the inside of the tank, which requires heat and corrosion resistance, is made of SUS, and the outside is made of inexpensive carbon steel.



Large pressure vessel



SUS/SS Clad (3+82)x2500 x12000mm

SANWA MASSO ROSIN

- ① **Characteristic :** Usually in Vietnam GUM rosin is made by Cambodian pine resin which is cheap price and low performance.
To improve performance of GUM ROSIN , we changed raw material To Taiwan red pine resin , which is mainly used in China Gum Rosin.
- ② **Function :** Adhesive, Interface Activation, --- Dispersion & Emulsification
Emulsifier for Rubber Polymerization, Hydrophobic
- ③ **Use :** Papermaking Chemicals, --- Sizing Agent, Coating Agent, Paper Strength Agent, Printing Ink, Adhesive, Synthetic Rubber, Paint
- ④ **Manufacturing Plant :** Founded in VINH CITY at 1994. Employees is 250.
Annual Output is 2,000—3,000Ton per one year.
- ⑤ **Sole Agent Contract :** Photo.1. : Raw material is Taiwan red pine resin
- ⑥ **Products Appearance :** Photo.2. : Yellowish brown transparent body

独占販売契約書
SOLE-AGENT CONTRACT

MAKER : VINHCONSHIP GROUP, VIETNAM
BAYER : SANWA CORPORATION, JAPAN

1. SCOPE : All Grade of GUM ROSIN, made by Massoniana
In the world.
Usually VIETNAM GUM ROSIN is made by Merkusii

2. PRODUCTS NAME : 1. SANWA MASSO ROSIN
2.
3.

3. VALID PERIOD :
From 20 MAY 2020 to 19 MAY 2021 ,
If there was no objection to each other, continues automatically

20 MAY. 2020

MAKER
NAME : VINHCONSHIP GROUP
ADDRESS : 249 LE DUAN ROAD, VINH CITY
NGHE AN PRO. SR VIET NAM
PRESIDENT
TỔNG GIÁM ĐỐC
Nguyễn Duy Kỳ

BAYER
NAME : SANWA CORPORATION
ADDRESS : 3-2 KOONAN 5-CHOME
NAKA-KU, HIROSHIMA.
PRESIDENT : TORU KAWAUCHI

Toru Kawauchi

SANWA CO.
20 MAY 2020



(Photo.2) SANWA Masso Rosin

← (Photo.1) Masso Rosin to the world

Materials Properties

	Item		Standard Value	Method
1	Appearance		Transparent Solid	Standard grass color piece rosin
2	Color		Pale yellow	Standard grass color piece rosin
3	Softening Point	100%MASSO	Min69℃	Ring and ball method
		WW-Gr	Min76℃	
4	Acid Value	100%MASSO	Min161	Volumetric method
		WW-GR	Min166	
5	Alcohol insoluble Substance (%)		Max 0.03%	Gravimetric method
6	Unsaponifiable matter (%)		Max 5%	Gravimetric method
7	Ash (%)		Max 0.02%	Gravimetric method

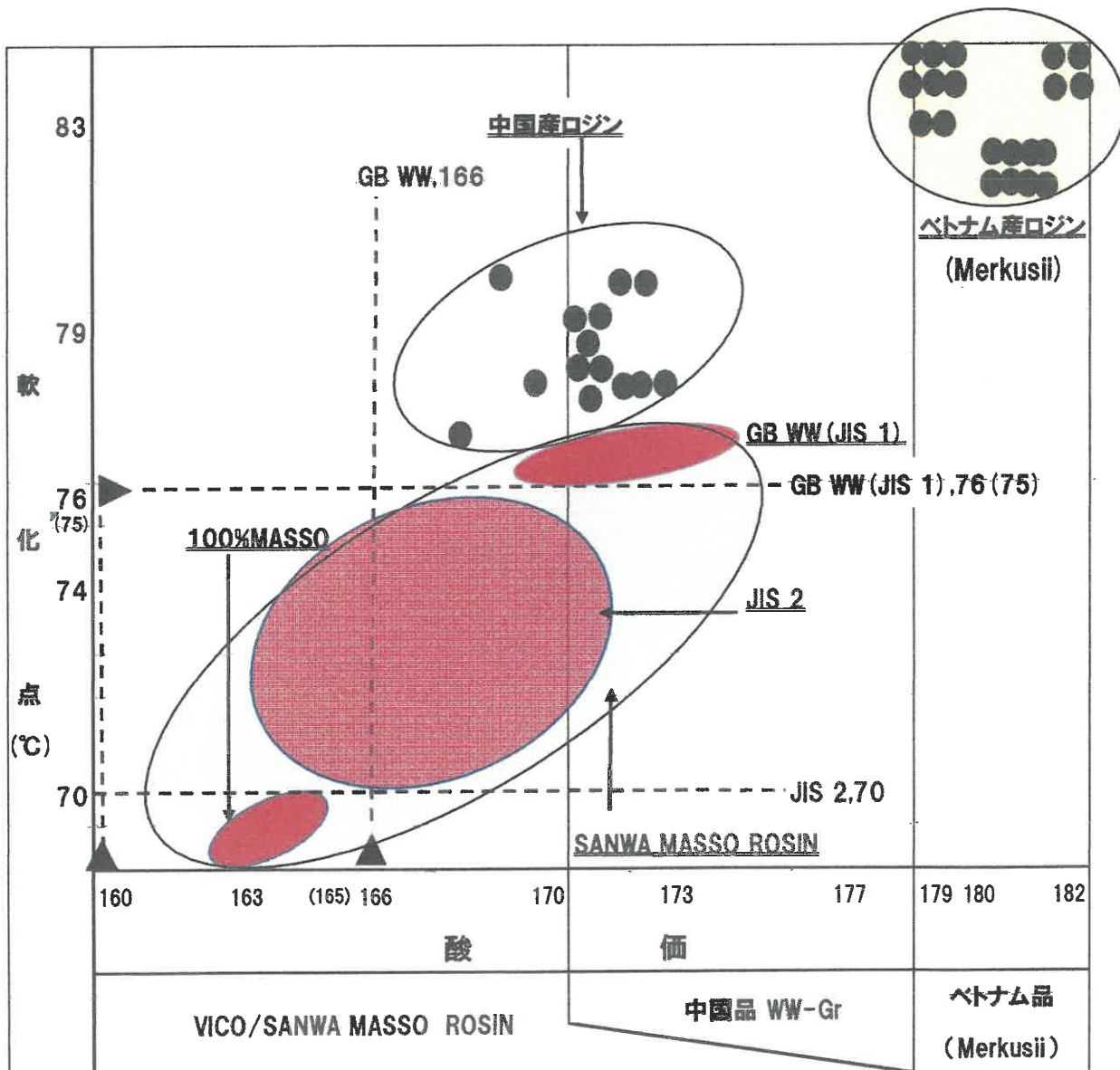


Fig. Acid Value and Softening Point

SANWA THINNER (From 2010)

11

	Product Name	Main Components	Uses-Features	OEM
For Cleaning Steel	SANWA CLEAN N	Ethanol + Methanol + Normal propyl alcohol	Under the jurisdiction of METI, MHLW Non-applicable product for PRTR, Ordinance on Prevention of Organic Solvent Poisoning, and of Hazards Due to Specified Chemical Substances Not-including Class1 and 2 Low irritation and high cleaning power Exhaust blower filter	D Co.
	SANWA CLEAN A-2	MCH + Diacetone alcohol + Others	Under the jurisdiction of METI, MHLW Non-applicable product for PRTR, Ordinance on Prevention of Organic Solvent Poisoning, and of Hazards Due to Specified Chemical Substances Not-including Class1 and 2 Low-odor product For removing antirust oil and machine oil Iron and Steel machinery, Compressor Assembly	D Co.
	SANWA CLEAN A	Dimethyl carbonate + MCH + Others	Under the jurisdiction of METI, MHLW Non-applicable product for PRTR, Ordinance on Prevention of Organic Solvent Poisoning, and of Hazards Due to Specified Chemical Substances Not-including Class1 and 2 For Cleaning piping jig in painting factories.	D Co.

Special Notes

- (1) As non-applicable product, MCH and Normal propyl alcohol are used.
- (2) SANWA Clean A-2 does not fall under the Ordinance on Prevention of Organic Solvent Poisoning in the Industrial Safety and Health Law.
There is no control concentration (ppm) set for exposure prevention and protective measures.
In the workplace, work related to working environment measurement is reduced.
- (3) As the product does not fall PRTR Law under the jurisdiction of METI, there is no obligation to ascertain the amount when it is discharged or transferred, and to report it to the government.

Other Products: For cleaning rubber and glass parts, For General Dilution

For Cleaning	SANWA THINNER MK-A	MCH + IPA + Others	For cleaning rubber parts	D Co.
	SANWA THINNER M-PG	MEK + PGM + Others		
	SANWA Lacquer Thinner T	Toluene + Xylene + PMA-P + Others	For cleaning glass parts	T Co.
For General Dilution	SANWA THINNER #10 For lacquer	Toluene + Methanol + Others	General Paint Factories	D Co.
	SANWA THINNER For epoxy	Toluene + Xylene + Others		
	SANWA THINNER For chlorinated rubber	Xylene + Solvess + Others		
	SANWA THINNER For urethane	Toluene + Xylene + Others		

Notes:

- 1) Upon request, we can adjust the ingredients to create a standard product just for your company.
- 2) If the order is less than 20 cans, we will charge the actual cost.

Revised) R06.03.13

Comparison table of cleaning solvent properties

Solvent name		Halogenated hydrocarbons			Water— Alcohol	Hydrocarbons		
		Fluorocarbons (CFC-113) CCl ₂ F-CClF ₂	1,1,1- Trichloroethane CH ₃ CCl ₃	Dichloromethane (MDC) CH ₂ Cl ₂	Isopropanol (IPA) (CH ₃) ₂ CHOH	NS Clean 200	NMP 1-Methyl 2- Pyrrolidone	TAIYOSOL M
Basic Physical Properties	Specific gravity	1.567	1.333	1.326	0.786	0.745	1.027	0.799
	Molecular weight	187.38	133.41	84.9	60.1	—	99.14	—
	Boiling point (°C)	47.6	74.1	39.8	82.4	191~207	204	215~260
	Melting point(°C)	-35	-32.6	-95.1	-89.5	-22.5	-23	Below 0°C (solid at room temperature)
	Viscosity (20°C) (cp)	0.701	0.774	0.441	2.39	1.66	1.65	3.3
	Surface tension (20°C) (dyne/cm)	18	25.56	28.2	—	24.9	41	24.6
	Specific heat (20°C) (cal/g°C)	0.213	0.255	0.28	0.61	0.52	0.04	—
	Latent heat of vaporization (boiling point) (cal/g)	35.07	53.8	78.7	163	—	105	—
	Evaporation pressure (20°C) (mmHg)	272	100	349	32.4	—	0.3	—
	Solubility in water (g/100g-water)	0.017	0.44	1.4	∞	—	∞	Slightly soluble in water
	KB value	31	120	136	—	—	Over 200	—
	SP value	—	8.5	—	—	7.8	—	—
Safety	Flash point (°C)	None	None	None	12~21	70	95	86
	Ignition point (°C)	—	—	662	620	—	346	—
	Combustion concentration range (%)	—	—	13~22	2.0~12	0.7~5.5	0.9~3.9	—
	Allowable concentration (ppm)	500	200	100	400	—	—	—
	Fire Service Act (MIC)	N/A	N/A	N/A	Class 4 Alcohols	Class 4 Petroleum No.3	Class 4 Petroleum No.3	Class 4 Petroleum No.3
	Designated quantity	—	—	—	400L	2,000L	4,000L	2,000L
	Ordinance for the prevention of organic solvent poisoning (MHLW)	N/A	Class 2 Organic solvent	Class 2 Organic solvent	Class 2 Organic solvent	N/A	N/A	N/A
	PRTR Law (METI)	Class 1 Designated chemical substances	Class 1 Designated chemical substances	Class 1 Designated chemical substances	N/A	N/A	—	N/A

(Date: H27. 07. 06)

Comparison chart of Volatile Organic Compounds countermeasure equipment

R07.1.30

	Proposed method	Improved method	Conventional method
	Rotary type Heat storage combustion method (Company KON) 600N m ³ /min	Activated Carbon Fluidized bed type (Company KURE) 900N m ³ /min	Activated Carbon Fixed bed type
Features	<ul style="list-style-type: none"> • Uses ceramic honeycomb • Produces carbon dioxide and water through adsorption, separation(180°C) and oxidative decomposition(750°C). • Requires preheating with LPD for about 100 minutes. • Energy-saving by effectively utilizing the oxidation heat of exhaust gas during operation. • Operating temperature : 800-950°C 	<ul style="list-style-type: none"> • High-strength spherical activated carbon that is difficult to crush is used while stirring, increasing the amount of activated carbon used for VOC adsorption. • Recovered solvent 10kg/Hr • Nitrogen circulation type 0.7 m³/Hr • Treatment for recovered solvent becomes a new issue in industrial waste treatment. 	<ul style="list-style-type: none"> • Gas passages are unevenly distributed, limited the surface area of the activated carbon that can be effectively used to adsorb VOCs. • The activated carbon is weak, and when stirred it breaks down, causing poor breathability. • A large-scale investment is required for water treatment facilities, and if the solvent is to be recovered, this poses new industrial waste treatment issues.
Initial cost	Unit: 85 million yen	Unit: 100 million yen	Unit: 70 million yen
Main equipment cost	No water treatment facilities required	No water treatment facilities required	(Water treatment facilities: 100 million yen)
Running cost Consumables	12.5 million yen (5 years) Fireproofing material / Cylinder	6 million yen (5 years) Activated carbon: 3,900 yen /kg (Recycled product: 2,800 yen)	17 million yen (5 years) twice a year 51 million yen (5 years) Six times a year (28 cartridges for 6 million yen twice a year) Activated carbon: 300 yen /kg
Total cost over 5 years	97.5 million yen (81)	106 million yen (88)	87 million /121 million yen (100)
Equipment dimensions	16L x 6W x 6.7mH	9L x 6W x 6.5mH	—————
Equipment weight	24ton	25ton	

(Date: 1.30, 2025)

The end

VOC Control Device

R05-7-04

Type	Character
Rotary Accumulate Burning Type * Draw.	<ol style="list-style-type: none"> 1. Honeycomb Ceramics—big surface porous area, heat resistance and chemical stability will be used effectively for Adsorption VOC and Accumulate energy character. 2. Adsorption of Volatile Organic Compounds (VOC) gas at room Temp. ~Vaporization at 180°C. ~Burning Separate to CO₂ & H₂O , at 800~950°C and Accumulate. 3. At the start up of operation, you have to use Gas Burner about 100minutes, and almost of operation term you can stop burner , because of Burning Energy can reuse for Vaporization by Accumulate character.
Active Carbon (Fluidized Bed)	<ol style="list-style-type: none"> 1. High strength granular Active Carbon can use in fluidized condition. This means almost surface area of carbon can use effectively. 2. Solvent will recovered 10kg/Hr ,in the case of 900N m³/min. 3. How to handle Recovered Solvent is another new problem. 4. Granular Active Carbon is made by KUREHA' s Patent.
Active Carbon (Fixed Bed)	<ol style="list-style-type: none"> 1. VOC gas will pass easy route in Carbon grain mass. This means a little surface of Active Carbon grain is effective and almost is ineffective. 2. Usual Active Carbon will be smashed easily, so that can' t use in Fluidized Condition. 3. It needs big type of a Drainage Disposal Equipment, very expensive.

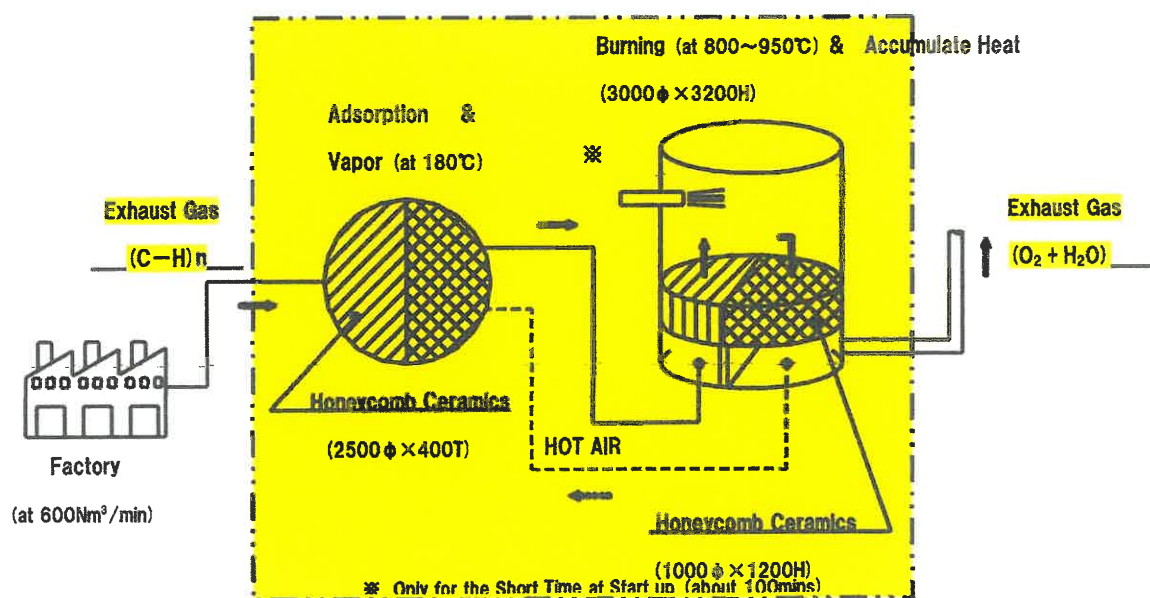


Fig. VOC Control Device

Main Customers

CHUGOKU MARINE PAINTS, LTD.	Toda Kogyo CORP.
OHTAKE-MEISHIN CHEMICAL Co., Ltd.	Tosoh Corporation.
KOBE PAINTS, LTD.	The Chugoku Electric Manufacturing Company, Incorporated
MHI Commercial Aviation Systems	Molten Corporation
NIDEC MACHINE TOOL CORPORATION	Resonac Corporation
Mitsubishi Heavy Industries, Ltd. (Shimonoseki)	Yasuhara Chemical Co., Ltd.
Primetals Technologies Japan, LTD.	The Sailor Pen Co., Ltd.
MHI Compressor, LTD.	Tokuyama Corporation
MHI Machinery Technology corporation	Nishikawa Rubber Co., Ltd.
MHI Machinery Systems, Ltd.	SPINGLE COMPANY
MHI Plant corporation	Sanwa Shutter Corporation
Sumitomo Heavy Industries Material Handling Systems Co., Ltd	UBE FILM, LTD.
The Japan Steel Works, Ltd.	Seven Rivers Co., Ltd.
Nikko Techno Corporation	Daiki Axis CO., LTD.
Nippon Paper Industries Co., Ltd.	Nippon Paint Co., Ltd.
UBE MACHINERY CORPORATION, LTD.	CHUGOKU KOGYO CO., LTD.
Teral Inc.	WOOD ONE Co., Ltd.
IHI Transport Machinery Co., Ltd.	J-POWER Generation Service Co., Ltd.
Nippon Steel Corporation	Japan Marine United Corporation
Kobe Steel, Ltd.	MAZDA Ace Co., Ltd.
OJI ENGINEERING CO., LTD.	KANEKA CORPORATION
JFE Shoji Corporation	TOHO CO., LTD.
POSCO Steel Co. (Korea)	Tsukuba Chemical Co., LTD
JSW Steel Ltd. (India)	Archem Inc.
Toyo Kohan Co., Ltd.	JGSDF Camp Yonago
Mazda Motor Corporation (Technical Research Institute)	Wakunaga Pharmaceutical Co., Ltd.
Satake Corporation	Kumagai Gumi Co., Ltd.
Kobelco Construction Machinery Co., Ltd.	TODA CORPORATION
ShinMaywa Industries, Ltd.	KASHIWABARA CORPORATION
Chugoku Kogyo Co., Ltd.	Hiroshima Rapid Transit Co., Ltd.
Hokoku Kogyo Co., Ltd.	Token Corporation
ITOCHU ENEX Co., Ltd.	Nagasaki Inc.
Aoi Chemical Inc.	P.S. Mitsubishi Construction Co., Ltd.
SANKO Co., Ltd.	HIROSHIMA GAS Co., Ltd.
Itoh Oil Chemicals Co., Ltd.	HIROSHIMA GAS PROPANE Co., Ltd.
SHINKAWA Sensor Technology, Inc.	Okumura Corporation
The Honjo Chemical Corporation	PENTA-OCEAN Dredging Co., Ltd.
Hiroshima City	PENTA-OCEAN Construction Co., Ltd.
Miyako Kagaku Co., Ltd.	MEISEI INDUSTRIAL CO., LTD.

Main Supplier

Mitsubishi Corporation	Taiyo, Ltd.
Mitsubishi Shoji Chemical Corporation	Daikin Hydraulic Engineering Co., Ltd.
Chugoku Marine Paints, Ltd.	Daikin Lubrication Products & Engineering Co., Ltd.
Mitsubishi Chemical Corporation	Daikin Applied Systems Co., Ltd.
ENEOS Corporation	Taiyo Engineering Co., Ltd.
Mitsubishi Gas Chemical Company, Inc.	Henkel Japan Ltd., Tokyo
Japan Pail Corporation	Kuroki Kogyosho
Idemitsu Kosan Co., Ltd.	HILTEC Ltd.
Shin-Etsu Chemical Co., Ltd.	Kubota Corporation
GUNZE LIMITED	Nissei Corporation
Mitsui & Co., Ltd.	Taiyo Koki Co., Ltd.
Mitsui Chemicals, Inc.	TLV Co., Ltd.
Asahi Rokazai Co., Ltd.	MARUMA TECHNICA CO., LTD.
Toda Kogyo Corp.	Dalian Machine Tool (China)
ADEKA Corporation	Dalian JINZHOU Heavy Mach. (China)
DIC Corporation	Dalian Explosive Working Research Institute (China)
Harima Chemicals, Inc.	Dalian Heavy Machinery Plant. (China)
ITOH OIL CHEMICALS Co., Ltd.	CYSCO Co., Ltd. (Korea)
Dainichiseika Color & Chemicals Mfg. Co., Ltd.	NARA Co., Ltd. (Korea)
Osaka Organic Chemical Industry Ltd.	WOOSUNG VALVE Co., Ltd.(Korea)
Asahi Fiber Glass Co., Ltd.	DAEHEUNG COOLER Co., Ltd. (Korea)
Honjo Chemical Corporation.	SUNG-IL VALVE Ind. Co. Ltd.(Korea)
JFE Container Co., Ltd.	JUFAN INDUSTRIAL (TAIWAN)
Nitto Funka Kogyo K.K.	VICOSHIP(VIETNAM)
Tokuyama Corporation	YUXING PIGMENT(YIXING) CO., LTD
Nitinen Co., Ltd.	Euro System International Ltd.
Tosoh Corporation	Wuzhou Sun Shine Forestry&Chemicals Co., Ltd. Of Guangxi
AQUAS CORPORATION	Qingdao Double-Peach Specialty Chemicals (Group) Co., Ltd
Japan Polyethylene Corporation	Dalian CMEI Co. (China)
Japan chemical research Co., Ltd.	ABC Trading Co., Ltd.
CEMEDINE CO., LTD.	Kyushu Toryo Kogyo Co., Ltd.
DAISHIN CHEMICAL CO., LTD.	Nihon Tokushu Toryo Co., Ltd.
Godo Co., Ltd.	Kikusui Chemical Industries Co., Ltd.
Taiyo Solvent Co., Ltd.	Mizutani Paint Co., Ltd.
Nihon Matai Co., Ltd.	Sanstar Engineering Inc.
Sumitomo Corporation Europe Limited Milan Office	Konishi Co., Ltd.
Honshu Seikan Co., Ltd.	SK Kaken Co., Ltd.
Japan Alcohol Trading Co., Ltd.	Ohtsuka Brush Mfg. Co., Ltd.
	ARCHITECTURAL YAMADE Corporation

Supply List for STEEL PLANT

For JSW STEEL (VJNR & Dolvi Plant)

Nippon STEEL (Kure & Kashima)

SANWA CO.

Element	Maker Name	Parts Name	Delivered Quantity
Fluid Control & Piping Parts			
1.SANWA Auto Valve with Control Device	SANWA CO SICO (Korea) KONAN	Auto Valve JIS10K 150A (Attached photo)	1 Pce
2.Distribution Valve	DAIKIN	Distribution Valve	1.012 Pcs
		Distribution Valve Cap	4.000 Pcs
3.AUTO Chain Lubrication		Chain Automatic Lubrication	3 Pcs
4. Rotational Fitting		Air Driven pump	1 Pce
		Rotational Fitting	8 Pcs
5. One Point Lubrication		Chain Automatic Lub Push Gun	3Pcs
		Grease Nipple	50Pcs
		PISTON PUMP	1 Pce
6. AIR VALVE	SANWA , Taiwan	One Point Lubrication Heat resistance 150°C type	280 Pcs
7. Butterfly Valve	KONAN ELECTRIC	Solenoid Valve	79 Pcs
		Air Filter	37 Pcs
		Regulator	4 Pcs
		lubricator	10 Pcs
		Silencer	42 Pcs
		Flow Control Valve	20 Pcs
		Solenoid Valve for Seal kit	130 Set
	OKM	JIS 10.16K 100A 150A 450A	21Pcs
	VENN	Air Vent Valve	15 Pcs
Machine Parts			
1. Hydraulic Cylinder	HARIMA MACHINERY, JUFUN	Hydraulic Cylinder	120 Pcs
		Seal kit	38 Set
2.Position Clamper	SANYO KOGYO CO.	BREAKE PAD KIT	251 Set
		Hydraulic Position Clamper	36 Pcs
3.Coupling	Hillyard	Control Panel for DC AREA	2 Pcs
4.PUMP	YOKOHAMA RUBBER	Sealing coupling	50 Pcs
	NARA	Gear Coupling	1 Pce
	HONDA KIKO CO.	Pump Parts	133 Pcs
5.Brake	KUBOTA	BOOSTER PUMP SLEEVE	2 Pcs
	FAWICK	Air Brake Panel	2 SET
6.Bearing	KOYO	Bearing	16 Pcs
Measuring & Instrumentation Equipment			
1.POSITIONER	TOMOE VALVE CO.	POSITIONER	1 Pce
	KAWAKI	FLOW SWITCH	7 Pcs
		FLOW SIGHT	10 Pcs
2.FLOW SIGHT	TOKYO RYUKI KOGYO	Liquid Detector	2 Pcs
	SANWA CO, China	INDICATOR XK3101	15 Pcs
3.INDICATOR	KYOWA	Transducer	2 Pcs
	NAGANO KEIKI	Transmitter	16 CPs
4.Transducer	FUJI ELECTRIC	CIRCUIT	60 Pcs
		AC CONTACTOR	2 Pcs
5.ELECTRIC PARTS	YAMARI INDUSTRIES	LIMIT SWITCH	4 Pcs

(at. 15 APR. 2023)

Import/Export Record (From 1993)

18

Category	Customer Name	Details
Cast iron products 大連機床	三菱農機	Construction Machinery Parts FC200 200kg/Pce Total 40Ton, 200Pcs
	MHI/Hiroshima Toyo Advanced Technologies	Machinery Parts FC250, 300 Total 43Ton, 800Pcs
	SHINKO IND.	Pump Parts FC200 Total 27Ton, 600Pcs
	MHI/Mihara	Paper Machinery Parts FC200 Finished Products 1Ton
Cast steel products 大連重工	MHI/Mihara	Steel-making Machinery Parts SC450 Total 633Ton, 300Pcs
	MHI/Takasago	Turbine High-pressure casings SCPH2, 11 1~7Ton/Pce Total 45Ton, 14SET
	MHI/Nagasaki	Industrial Machinery Parts SC410 Total 45Ton, 30Pcs
	TERAL INC.	Pump Casings Finishing Products SCS13 Total 8Ton, 242Pcs
	Shin Nippon Machinery	Bearing Covers Finishing Products SCPH2 Total 4Ton, 104Pcs
Forged products	MHI/Shimonoseki - Mihara JSW	Shafts, etc. SCM435, SCM440, S43C Total 4Ton Shaft finishing products S45C 1Ton
Explosive materials 大連造船 爆着研究所	MHI/Mihara	Conductive materials for Linear Motors Cu/SS CLAD Total 860Ton, 2800Pcs
	MHI/Nagasaki - Shimonoseki	Mooring hardware for LNG ships and Aluminum ships 5-layer clad welded joints AL/AL/Ti/Ni/SUS Total 3Ton
	DAIDO METAL	For Diesel Parts Sliding Materials AL/SS CLAD Total 3.5Ton, Cu/SS CLAD 1Ton
Assembled and canned products 大連重工 金州重型	MHI/Hiroshima	Tire machinery parts Total 20Ton 69 units
	MHI/Hiroshima	Tank for oil cooler Thin plate cans SS400 Total 7Ton, 134SET Hanging fittings Cans SS400 Total 22Ton
	MHI/Hiroshima	SUS double-type oil filter (API Compliant) 1SET
	Large cans and structures	Pulley iron core SS400, S25C, S35C Total 30Ton Bags, hanging frames, tilting trays, etc. SS400 40Ton Conveyor rack SS400 Total 120Ton
	MHI/Shimonoseki	Marine auxiliary equipment Total 80Ton 20SET
Pressure vessels 金州重型 DAEHEUNG	Chugoku Kogyo JSW	LPG tank Total 21Ton, 21SET SUS POT, HEAT EXCHANGER, SNUBBER etc. Total 19.4ton
	Hazardous Containers	IBC tank SUS304 2SET 1Ton
	MHI/Mihara - Takasago	Condensers, Heat exchangers, etc. SS400 Total 63Ton 4SET
	MHI/Hiroshima	RUN DOWN TANK for ethylene plant oil supply equipment SUS304 Design included Total 3SET 6TON
Equipment and parts SICO JUFAN KONAN SANYO DLP	Korean Products	Check valve SUS 4,990PCS 10,750kg Ball valve SUS 2,880PCS 29,660kg
	Nippon Steel/Kure	Oil/Pneumatic cylinder $\phi 250 \times 812$ st etc. Total 79 units 7.9ton
	Nippon Paper	Hydraulic cylinder $\phi 200 \times 600$ st etc. 6 units 380kg
	Kobe Steel/Chofu	Solenoid valve 6 units 30kg
	India/JSW Iron works	Valve/Pump machinery parts About 19,000kg
	Korea/POSCO Iron works	Backup rolls, Reducers, DAIKIN Hydraulic equipment, TOMOE Valves, etc. 10Ton
	Korea/SEWON	Hydraulic valves (High pressure stop valves, etc.) 25 units Total 210kg
	SHIMMS - Nippon Steel	One-point lube 260 units
	MAZDA - UBE Machinery and more	Oil contamination checker
Chemical products 日成 - VICO	Italy China Korea Taiwan Japan Vietnam	Iron oxide pigment 1,071Ton, Ethyl silicate 8ton, Rosin from China 228Ton, Algae prevention material 13.7ton, Vitamins 6kg, Synthetic auxiliary agent 576ton, Cardanol 800kg, Rosin from Vietnam 144ton TOTAL 1,018.5Ton

Revised) R05.08.28

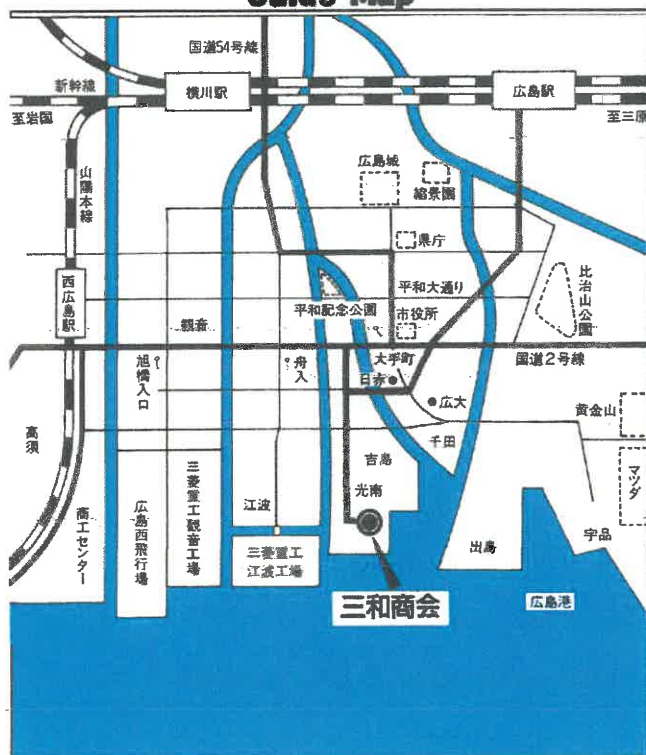
TOTAL About 4,290 Ton

Hiroshima Office

3-2, Koonan 5-chome, Naka-ku, Hiroshima, 730-0825

Home Page. <http://www.sanwacorp.com>

Guide Map



General Dept.

TEL 082-245-0575
FAX 082-249-4660, 4650
kawauchi@sanwacorp.com
somu@sanwacorp.com

Sales Dept.

Chemical Dept.

FAX 082-249-4650
TEL 082-245-2778

kaseihin@sanwacorp.com

Machine Dept.

TEL 082-245-0575

kikai@sanwacorp.com

Transportation

About 30 minutes from Hiroshima station by bus (bound for Yoshijima Eigyoucho) and 5 minutes walk after getting off at Minamiyoshijima.

About 20 minutes from Hiroshima Station by Taxi

Get off at in front of Yoshijima Okunai Pool or the building of "SEINO UNYU"