



COMPANY PROFILE



 RK ENGINEERING CO., LTD.



Land Plot CN3.2K, Dinh Vu Industrial Zone, Dong Hai 2 Ward, Hai An Dist., Hai Phong, Vietnam
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URL : <http://www.nkweb.co.jp/> E-mail : info@rk-eng-vn.com

08.2020.030

 RK Synergy Group
Technologies for creating the future

 RK ENGINEERING CO., LTD.



Introduction

In March 2012, RK ENGINEERING CO.,LTD was established as a manufacture that can bring together the technical strength of Japan and the talented Vietnamese staff in Hai Phong which is Vietnam's third largest city. It has realized the high level of manufacturing technology and quality control required by plant manufacturers in and out of Vietnam and can meet a high level of cost-effectiveness. In February 2019, we also completed a one-stop in-house production line including the Vertical Precision Milling Machine in order to make from the head plates which are indispensable for pressure vessel manufacturing to can manufacturing, heat treatment and machining. The trolley type convection heat treatment furnace, exhaust duct and chimney were designed by Rozai Industry and manufactured by RK Engineering, and the LPG tank and LPG supply system for the incidental structure were designed and manufactured only by RK Engineering's Vietnamese staff. We believe that with this skill, we can provide equipment in various fields that can meet our customers' requirements. We all, Japanese and Vietnamese, will continue to proceed to the reliable manufacturer for our customers.

There are three biggest reasons why RK ENGINEERING chose the Deep-C Industrial Park in Hai Phong.

1. Regional characteristics

Vietnam is located in the center of Southeast Asian countries and China and it has remarkable economic development. Hai Phong City is located 100km east of Hanoi which is the capital city and it is a logistics center having an international trading port.

2. Site location

The Deep-C Industrial Park is adjacent to Dinh Buo Port, Hai Phong's international trading port, and it is very suitable for loading raw materials and shipping large-scale products by sea. They also completed the construction of Lac Yen Port to meet the increasing demand for containers. What's more it has a highway CT.04 between Hanoi and Hai Phong other than sea transportation, it takes 1 hour and 45 minutes by car to Hanoi, and it also has Cat Bi International Airport connecting central and southern Vietnam from it.

3. Technical capabilities

Haiphong is historically well known for the shipping industry, and there are many factories engaged in cutting, bending, and welding iron because shipping industry has its own wide skirts. Therefore, we can hire highly skilled employees, and also find many companies who can help us with our production.

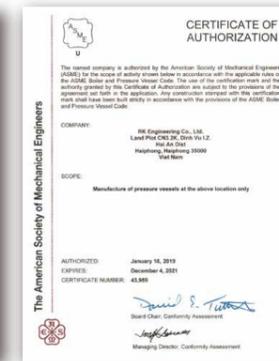


ASME certified company

On December 4, 2012 RK ENGINEERING got the ASME certificate, which is a manufacturing technology standard for the production of power boilers and pressure vessels. It is the first Japanese company in Vietnam to obtain ASME qualification for manufacturing power boiler and pressure vessel, and it has contributed to the production of power generation, chemicals, and food plant facilities in Southeast Asia, including Vietnam, or China.



ASME Section I
Power Boiler (S) No.43958



ASME Section VIII Div.1
Pressure Vessels (U) No.43959

ASME is an abbreviation for The American Society of Mechanical Engineers. Among the standards established by ASME, the ASME Boiler and Pressure Vessel Code (ASME Boiler and Pressure Vessel Code) establishes safety rules governing the design and inspection of pressure vessels as well as equipment in nuclear power plants.

Registered Company of Quality Management System (ISO 9001-2015) Safety Control

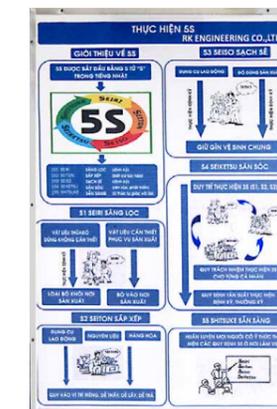
We are increasing corporate value and building relationships that customers can trust by manufacturing safe products.



Quality policy
To satisfy customer requirement on Quality, Cost, Delivery and Safety, we make concerted efforts together to take actions to continually improve effectiveness of the quality management system by clarifying the roles and responsibilities and by improving employee's competence.



Greeting Campaign



1 S + 5 S Improvement activities

- Safety
- S1 Seiri (Sorting/Tidiness)
 - S2 Seiton (Setting in order/Orderliness)
 - S3 Seiso (Shining/Cleanliness)
 - S4 Seiketsu (Standardize)
 - S5 Shitsuke (Sustain/Discipline)



Safety Management

We will be the bridge between Vietnam and Japan through manufacturing pressure vessels of high quality and competitive price, and create wonderful future.



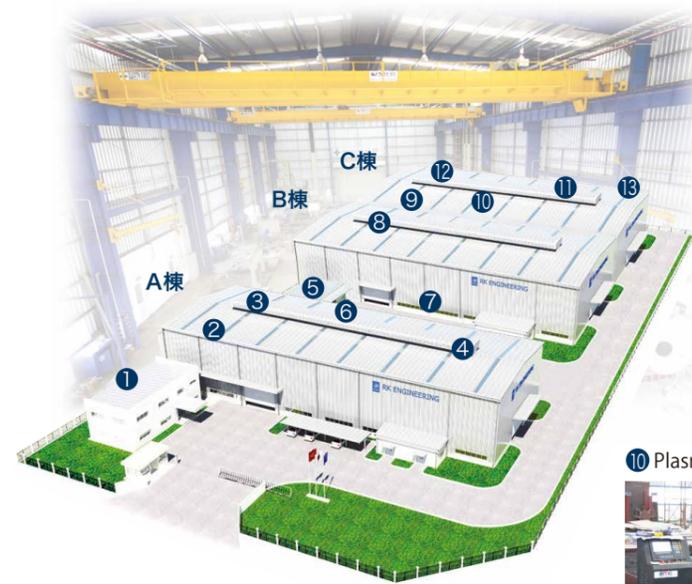
Equipments



12 Convection type car bottom heat treatment furnace



13 Vertical Precision Milling Machine



9 Spinning machine



10 Plasma cutting machine



8 Hydraulic pressing machine



2 Band saw machine



2 Radial drilling machine



6 Bending roll



11 Overhead travelling crane 20t



Factory B-C



4 SSM (Special Spinning Machine)



3 1000ton pressing machine



7 Gantry crane at open yard



Products



Shell plate bending



Polishing shell plate



Installation of partition plate (SUS304)



Assembly and welding of shell plate (Inner surface polished products)



Assembly and welding of shell plate (SS400)



Customer's witness inspection



100m³ Silicone oil tank for Japan
SUS304
4 spaces inner surface polished #300
φ 3400 x L 12000

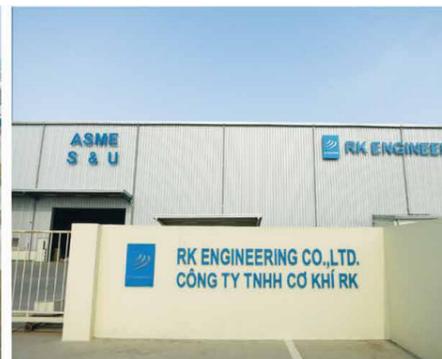
Shipping (for Japan)



Polishing inner surface of Head plate



Finish



Head plate
A516-60
■T16(Min12.8)xD2000xEDxSF38



Sump Plate
SA36
■OD960xID492xt13



Expansion A515-60
■Nom.12(min10.5)x
■ID3000xOD3542xH288



Heat treatment



Water tank
SUS304
■350A x L533



Chimney
SUS201
■OD360x1.2txL11570



Oxygen surge tank for Japan
SS400
■ID3000xTL~TL5410xt12



Oxygen adsover for Japan
SS400
■ID3400xTL~TL1600xt12



Stainless steel tank 11kinds, 17sets



GAC tank for CCBH
SA240TP316L
■ID2100x
TL~TL5813x10t



Liquefied gas drainage tank
SA240TP304
■ID2100x
TL~TL4614xt6



MS adsorber
SA516-70 (U-STAMP)
■ID2000x
TL~TL2276xt10



Column SUS316L
■OD1582xID1364 x L3015



Recuperator
SUS304/SS400
■φ 356 x L 3370 ~ 120pc



Duct for dust collector of AL melting furnace and attached structures
SS400
■Total weight: 9500kg



Tank with Jacket
Body:SUS316L
JKSUS304



Manhole cover for Japan
SUS304



Casing
SUS316L
■φ 1860 x L 1960~ 2 pcs



Impeller
SUS316L
■φ 1410 x L 1960~ 2 pcs



L P G tank
SA516-70
■φ 2500 x L 7250



Mixing tank
SUS316L/SS400
■φ 1850 x H3100~ 1 pc
■φ 1155 x H2000~ 1 pc



Separator tank
SUS316L
■φ 2200 x H3900



N2H2 Receiver tank
SUS304
■ 1 m³ ~ 2 pcs. 0.5m³ ~ 1 pc



Recuperator for Thailand
SUS304/SS400
■φ 267.4 x L 2620~16pcs



RT Recuperator for Japan
SUS304/SS400
■φ 216.3 x L 1158~16pcs



Separator tank
SUS304L
■ASME U-Stamp



Buffer tank
SS400
■3.4m³



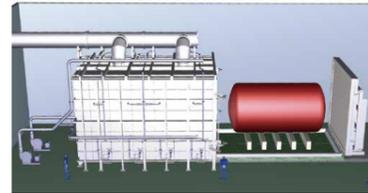
Cart

Convection type car bottom heat treatment furnace

Heat treatment for improving mechanical properties of metal

Heat treatment is essential to conform to standard of steel structures

Heat treatment is essential to improve mechanical properties of mechanical parts and structures by improving strength, elongation, and toughness. We equiped a heat treatment furnace which has one of the largest capacity of size and temperature in Vietnam. It made us possible to perform one stop production of products that require heat treatment by various standards.



Convection type car bottom heat treatment furnace Closed

Our heat treatment furnace, exhaust duct, and chimney are designed by ROZAI KOGYO, manufactured by RK ENGINEERING. LPG tank and supply system for furnace is designed and manufactured by Vietnamese staff of RK ENGINEERING.



Convection type car bottom heat treatment furnace Opened

External equipments



Chimney



Outside overview



LPG Tank

Specification of Heat treatment furnace

Type	Convection type car bottom heat treatment furnace	
Fuel	LPG	
Inside dimension	4000W × 7000L × 4000H	
Capacity	30Ton / CH	
Heat treatment temperature	Annealing	600 ~ 650°C
	Normalizing	900 ~ 950°C
	Solution	Max.1050°C
Tolerance	±25°C	

Vertical Precision Milling Machine

Realizing a new era of one-stop productivity with the new Vertical Precision Milling Machine

With the multi-sided simultaneous processing, which is a feature of the Vertical Precision Milling Machine, it can finish complex processes from the top to the side at once. It greatly improves the machining of pressure vessels and structures, and also improves quality, delivery time, and price to meet the customers' satisfaction.



Table work surface	2,300mm x 4,000mm
Table work surface between columns	2,300mm x 4,000mm
Distance between columns	2,550mm
Distance from table top to spindle nose	2,100mm
Loading capacity	30,000Kg

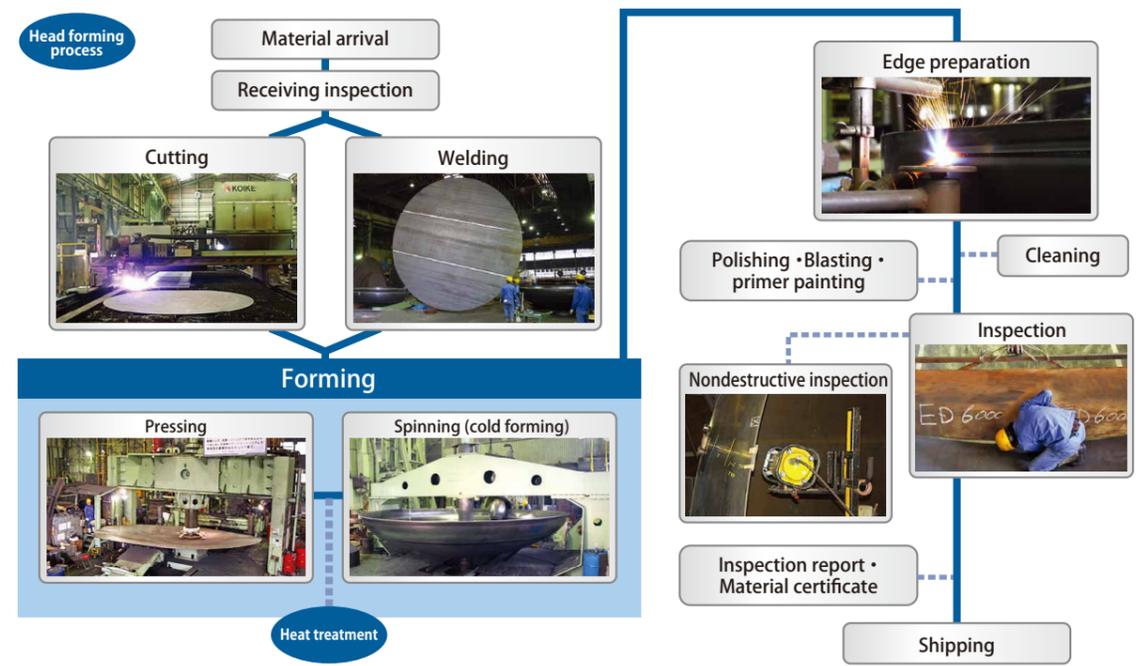
Forming Head plate

Forming technology of Head plate that is used in various fields.



Head plate is essential for vessel

We deal with various Head plates that is used in chemical, pharmaceutical, and food plant. Besides plant, Head plate is used for boiler, underground storage tank at gas station, tank truck and tank train. In addition, our technology is used for lighted buoy that is necessary for safe voyage. Head forming technology will continue to contribute to development of industry.



Equipment List

(As of March 2020)

Equipment	Description	Quantity	Equipment	Description	Quantity
Convection type car bottom heat treatment furnace	Inside dimension (W4000×H4000×L7000) Max.temp. 1050°C Max.weight 30t	1set	TIG welding machine	300 A	9sets
Hydraulic pressing machine	1000t W6000×Daylight 2500	1set	TIG welding machine (Small-sized)	200 A	2sets
Hydraulic pressing machine (with manipulator)	300t	1set	Arc welding machine	400 A	3sets
Spinning machine	22t×φ800~φ4000	1set	Arc welding machine (Small-sized)	200 A	5sets
Special Spinning Machine	14t×φ3000×Max.Height 3000	1set	DC arc welding machine	630 A	2sets
Bending roll	25t×W2550	1set	TIG Meister		2sets
Bending roll	6t×W2000 (Min. φ150)	1set	Tube end seal automatic welder		1sets
CNC gas/plasma cutting machine	W2500×L6000 Thickness (SS Max. 60mm, CS Max. 120mm)	1set	Grinder		27sets
Vertical Precision Milling Machine	W2300×H2100×L4000	1set	Beveling machine for Head plate		1set
Lathe	Max. φ1600, Max.length 3000	3sets	Polishing machine (Automatic)		1set
Band saw machine	Thickness Max. 400mm	1set	Polishing machine (Manual)		13sets
Milling machine	Table length 800mm	2sets	Hydraulic pressing machine (for straightening)	100t	2sets
Radial drilling machine	1210L×640H Max. φ32	2sets	Compressor	15Hp	2sets
Slotter	Max. φ100mm	1set	Pressure pump		4sets
Welding positioner	500kg, 150kg	3sets	PMI (Positive Material Identification) equipment		1set
Turning rolls	10t	6sets	Overhead travelling crane	20t	2sets
Turning rolls	5t	3sets	Overhead travelling crane	10/5t	1set
Gas cutting machine		6sets	Overhead travelling crane	10t	2sets
Plasma cutting machine	Max. 60mm	1set	Overhead travelling crane	5t	5sets
Submerged arc welding machine	1000 A	1set	Gantry crane at open yard	20/5t×22mm	1set
MAG welding machine	350 A	25sets	Jib crane	0.5t	4sets
			Forklift	5t	1set
			Welding rod dryer	100kg	1set
			Portable welding rod dryer		4sets

Local subsidiary

Company name	RK ENGINEERING CO.,LTD.
President	小林 三郎 (SABURO KOBAYASHI) (President of NIPPON KYOHAN KOGYO CO.,LTD.)
Address (Office・Factory)	Land Plot CN3.2K, Dinh Vu Industrial Zone,Dong Hai 2 Ward, Hai An Dist., Hai Phong, Vietnam Tel : +84-31-326-0715~8 Fax : +84-31-326-0719
Established	April 14, 2011
Operation started	April 2012
Paid-up Capital	US\$ 5,663,000
Investment ratio	NIPPON KYOHAN KOGYO CO.,LTD. 100%
Business	Manufacturing and sale of pressure vessel, head plate, industrial furnace, refractory, burner, etc.
Site area	15,000 m ²
Factory area	5,300 m ²
Employees	106

ロザイ工業株式会社 ROZAI KOGYO KAISHA,LTD.

会社設立 1947年8月1日
資本金 96,000,000円
代表取締役 社長執行役員 小林太郎
従業員数 245名
事業内容 工業炉設備・環境設備の設計・製作・施工
燃焼機器の設計・製作、耐火物・機能材料の製造
本社 〒550-0015 大阪市西区南堀江1丁目2番14号
電話:06(6534)3611(代表) FAX:06(6531)2043
E-mail:rinfo@rozai.co.jp
URL: http://www.rozai.co.jp

Established : August 1st, 1947
Paid-up Capital : ¥96,000,000
The Management : Taro Kobayashi President & CEO
Employees : 245
Business : Design, manufacture, installation of industrial furnace and environmental control system,Design and manufacture of combustion equipment,Manufacture of refractories and functional materials
Head Office : 2-14, 1-chome, Minamihorie, Nishi-ku, Osaka, Japan 550-0015
Phone : (81)6-6534-3611 FAX : (81)6-6531-2043
E-mail : rinfo@rozai.co.jp
URL : http://www.rozai.co.jp



日本鏡板工業株式会社 NIPPON KYOHAN KOGYO CO.,LTD.

会社設立 1965年2月1日
資本金 90,000,000円
代表取締役社長 小林三郎
従業員数 120名
事業内容 各種鏡板・圧力容器・マンホールカバーの製造
金属プレス曲げ加工全般
化工機設備の製造
本社 〒555-0012 大阪市西淀川区御幣島6丁目12-22
電話:06(6472)4772(代表) FAX:06(6477)1430
E-mail: info-s@nkweb.co.jp
URL: http://www.nkweb.co.jp

Established : February 1st, 1965
Paid-up Capital : ¥90,000,000
The Management : Saburo Kobayashi President
Employees : 120
Business : Manufacture of various types of tank head, pressure vessel and manhole cover,Metal press-bending, Manufacture of chemical engineering machine
Head Office : 12-22, 6-chome, Mitejima, Nishiyodogawa-ku, Osaka, Japan 555-0012
Phone : (81)6-6472-4772 FAX : (81)6-6477-1430
E-mail : info-s@nkweb.co.jp
URL : http://www.nkweb.co.jp



ロザイ工業株式会社 上海駐在員事務所 ROZAI KOGYO KAISHA, LTD. Shanghai Sub-Branch

設立 2020年7月1日
代表権 永吉
事業内容 工業炉設備・関連部品・耐火物の中国国内営業と市場調査
本社 〒314000 浙江省嘉興市南湖区亞欧路851号45-806室
電話:(86)185 0167 6318
E-mail:quan@rozai.cn
URL: http://www.rozai.cn

Established : July 1st, 2020
The Management : QUAN YONG JI
Business : Business and marketing of industrial furnace, associated components and refractory
Head Office : No.851 Yaou Road, Jiayuan-Oriental City 45-806, Jiaxing city, Zhejiang Province, China
Phone : (86)185 0167 6318
E-mail : quan@rozai.cn
URL : http://www.rozai.cn

炉赛亿(大連)耐火材料有限公司 ROZAI (DALIAN) CERAMICS CO.,LTD.

会社設立 2011年2月25日
資本金 US\$1,000,000
役員 董事長 小林太郎
総経理 小林洋介
副総経理 金谷雅勝
事業内容 耐火物・機能材料の製造
耐火物製品の中国国内販売・海外輸出販売
耐火物関連の設計・施工
本社 大連市開区得勝街道得勝村工業園1号
電話:(86)411-87214180 FAX:(86)411-87214184
E-mail: info-dalian@rozai.cn

Established : February 25 2011
Paid-up Capital : US\$1,000,000
The Management : Taro Kobayashi Chairman
Yosuke Kobayashi President
Masakatsu Kanaya Vice President
Business : Manufacture of refractories and functional materials, Domestic sale and export & sale of refractory products, Design and installation of refractories and related products
Head Office : No.1, Industrial Estate,Desheng Village, Desheng Street,Dalian Development Area, Dalian, P. R. China
Phone : (86)411-87214180 FAX : (86)411-87214184
E-mail : info-dalian@rozai.cn

ROZAI (THAILAND) CO.,LTD.

会社設立 2013年2月20日
資本金 2,000,000/バーツ
代表取締役 小林太郎
事業内容 工業炉を主とする産業機械及び耐火物の販売・技術サービス提供・施工
本社 246 Times Square Building 15-03
Sukhumvit Rd., Between Soi 12-14,
Klongtoey, Bangkok 10110 Thailand
電話:(66)83-615-9028 FAX:(66)2-653-0899
E-mail: info-th@rozai.co.th

Established : February 20th, 2013
Paid-up Capital : THB2,000,000
The Management : Taro Kobayashi President
Business : Sales,technical service offer and construction of the industrial machinery and refractories, mainly involving the industrial furnace.
Head Office : 246 Times Square Building 15-03
Sukhumvit Rd., Between Soi 12-14,
Klongtoey, Bangkok 10110 Thailand
Phone : (66)83-615-9028 FAX : (66)2-653-0899
E-mail : info-th@rozai.co.th