

Kusano

GROUP

Create the next 100 years



Company profile

Foundation

April 1914

Incorporation

December 1939

Capital

430 million JPY

Business activities

Foundry pig iron, Steel scraps, Ferro Alloy, Foundry products, Coke,, Machinery and equipment, Agriculture, Steel products, Construction works etc.

Employees

146

Net sales

36.9 Billion JPY

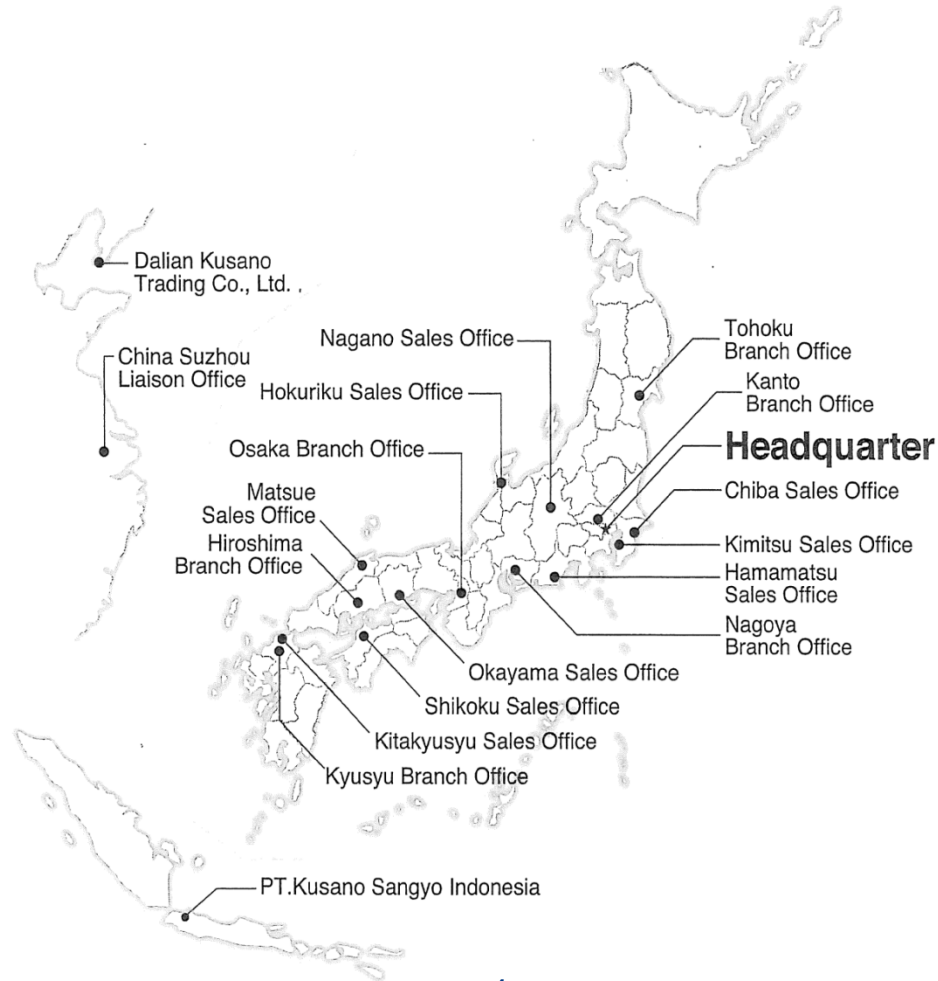
Principal shareholder

Nippon Steel & Sumitomo Metal Corporation
Employee shareholding accociation
Soichiro Kusano (President)
Resona Bank, Ltd.
Yasumichi Kusano (Chairman)
Kusano Warehouse Co., Ltd.

* Top Message

- * Since our foundation in 1914, we have been promoting business with main focus on casting industry. Out of variety of products line, we keep the top share of foundry pig iron in Japanese market place.
- * Our motto is to realize corporate social responsibility to assure constant supply of raw materials to casting industry which is a part of domestic industrial sector and to conduct business in good faith without pursuing quick profit.
Based on this corporate philosophy, we have fostered a corporate culture in which all employees make the best effort and make steady but positive challenge to problems.
- * In domestic market, we are expanding business in the field of steel products, machinery & equipment, foundry products, carbon materials and agricultural products. In overseas market, we are promoting business in Asian area with its core in China.
- * From now on, we will energize each business sector and prepare the framework to quickly respond to technological innovation, the market needs and economic fluctuations and thereby, we will promote Kusano Group business in order to become “reliable specialized trading company”.

KUSANO OFFICE & GROUP COMPANY



Foundry Raw Materials



Brilliant history of over 100 years and the top market share in casting industry

Sales division of main foundry raw materials and its supplements is the core business of our company with the experience of over 100 years in handling foundry pig iron. It's origin dates back to Nippon Seitetsu Co., and succeeded to Nippon Steel Corporation after the merger of Yawata and Fuji Seitetsu. We are currently dealing with both Nippon Steel & Sumitomo Metal Corporation and Kobe Steel and working to provide a stable supply of high quality foundry pig iron to casting industry inside and outside of Japan.

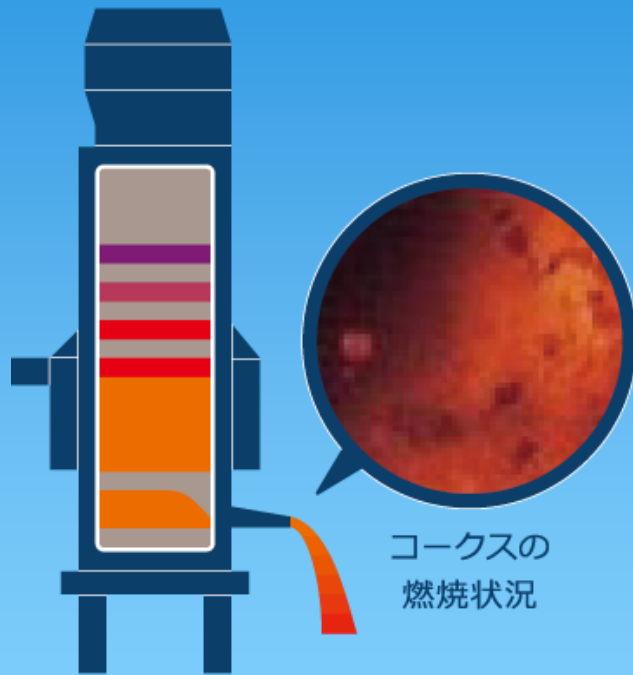
In terms of sales, we keep the top market share not only in pig iron but also in scrap and supplementary materials and fuels. We deal with a wide range of industrial sectors including automobile, ship building, agricultural instruments, machine tools, electrical and landscape materials industries and we have extensive procurement and sales channels for a wide range of materials required by casting industry.

Foundry raw materials



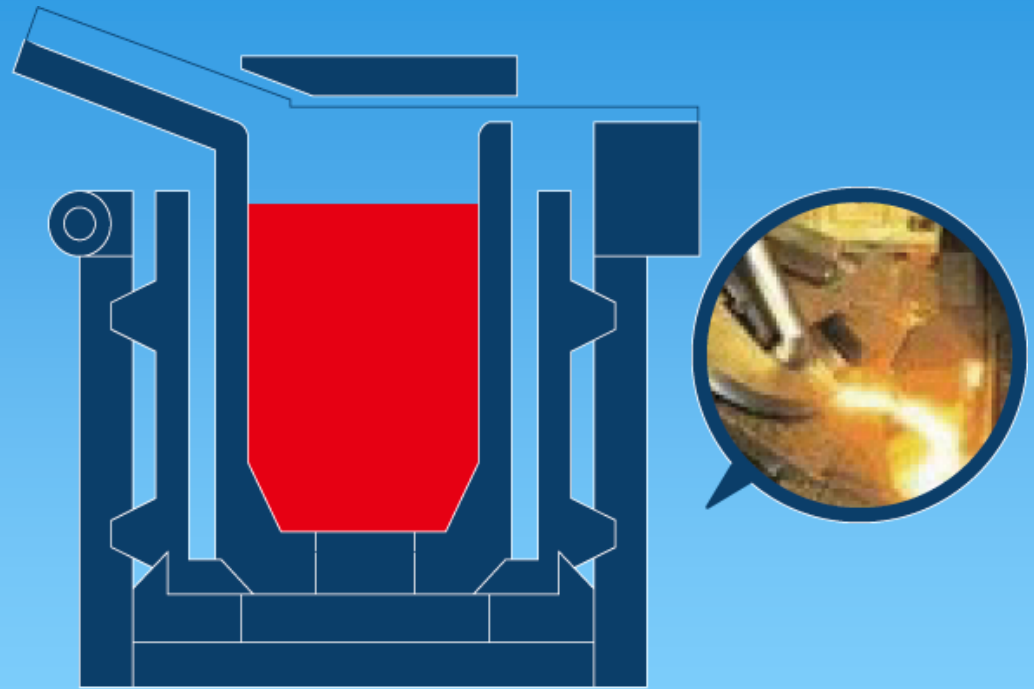
Melting furnace

CUPOLA



キューポラ

INDUCTION FURNACE



鉄誘導炉

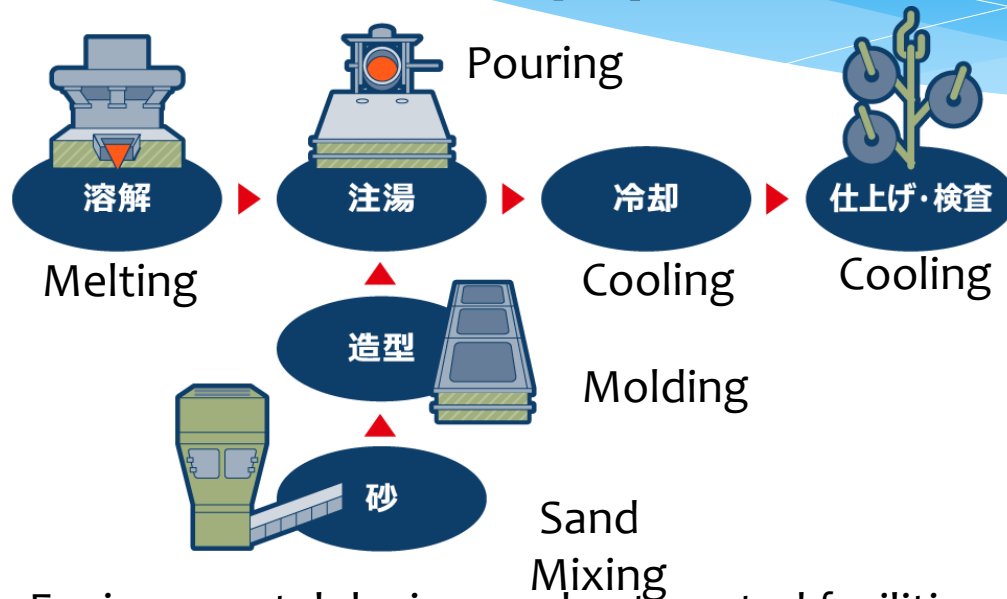
Carbon Materials



Providing carbon materials responding to users' needs

Carbon, base component of various materials is interconnected with products in all industries. We respond to diversifying needs of users by handling a wide range of carbon related materials and fuels such as foundry coke, general use coke, pitch coke and carbon products. Especially to casting industry, we provide cupola operation technical service also

Machinery and Equipment



» Environmental devices and automated facilities required for the 21st century

With long history and wide experience as a specialized trading company in casting industry, we are promoting consulting business of machinery and equipment.

Foundry Products (Casting Parts)



» Stable supply based upon abundant experience and knowledge of foundry in China

Based on abundant know-how obtained through more than 100 years of experience in casting industry, we support procurement of foundry products together with other metal products.

We recommend suitable suppliers not only in Japan, but also in China which we have been in cooperation for almost 40 years. We not only honor our clients price and quality requirements, we set our basic “principles” such as “selecting the right manufacturer” and “taking care of quality after production” to satisfy their needs. We are not only an import agent, we establish our goal and make commitment through clients’ point of view.

Also, we established an affiliate company (Dalian Kusano Trading Co., Ltd.) in Dalian, China to support our clients in need of valuable information and procurement assistance.

Pure Iron (BMR)

» Core material supporting modern society

The pure iron supplied by Kusano contains 99.9% Fe and was developed in association with JFE Steel. Its field of application is extensive as it is a core material that supports modern society in areas such as rare-earth magnets, super-heat resistant alloys, industrial electronic instruments, electronic parts and devices, valves and aircraft engines.



Purity

By radically removing impurities such as C, Si, Mn, P, S, and Cr, it has achieved high purity of Fe 99.9%

Shapes

Able to supply various shapes from square billets to round bars also in small lots according to customer's requests.

Steel products

» Expanding business to developing Asian regions



Products

Hot rolled coils, pickled coils, cold rolled coils, galvanized coils, surface treated coils, color coils, stainless coils



Chiba warehouse

Site area: 4,000 sq. meter

Warehouse: 3

Storage capacity: 4,500mt

Agriculture

» Support a environment friendly agricultural business

Our agriculture business is aiming at development and supply of nature friendly ecological products based on the spirit of ISO 14001.



Carnation seedling

Supplier: Japan Agribio Co., Ltd.

Carnation seedlings are produced in the “passionate nation” of Spain which we provide to our domestic carnation producers.



Soil conditioner for agriculture and public works

Suppliers: Nichiasu Co., Ltd. and Shemmy Japan Co., Ltd.

The soil conditioner are plantfibers which help improve the environment for soil microbes by mixing together with soil. We have a large assortment of soil conditioners suitable for controlling pH and revitalizing soil microbes. Products: peat moss, coconut peat, coconut husks tip, activated charcoal made from coconut shell

NIPPON STEEL

Product : FOUNDRY PIG IRON (H.S. code : 7201.00 000)

Foundry pig iron is very similar composition to castings. It also imparts to castings certain performance characteristics peculiar to cast iron, which cannot obtain from other materials. The foundry pig iron supplied by Nippon Steel is produced using an advanced blast furnace. For this task, only the most suitable iron ores are selected from the many grades available. At the same time, the production of foundry pig iron is carried out by fixing several refining targets and assuring thoroughgoing quality control. Foundry pig iron produced in this manner can be reliably used in the manufacture of castings with uniform and stable quality that not only include fewer impurities but also exhibit fewer deviations in composition.

Specifications for Chemical Composition :

鉄 種 Type	規格略号 Symbol of specifications	C	Si	Mn	P	S	Ti	Cr	As	V
		(1/100)	(1/100)	(1/100)	(1/1000)	(1/1000)	(1/1000)	(1/1000)	(1/1000)	(1/1000)
多機能型 鋳物用鉄鉄 通称: (多機能鉄8規格) Multi Functional Foundry Pig Iron	FGD-N	340~∞	60~100	0~30	0~100	0~50	0~65	0~30	0~10	
	FGD-1	340~∞	101~180	0~30	0~100	0~40	0~65	0~30	0~10	
	FGD-2	340~∞	181~220	0~30	0~100	0~40	0~65	0~25	0~10	
	FGD-3	340~∞	221~260	0~30	0~100	0~40	0~65	0~30	0~10	
	FGD-4	340~∞	261~299	0~30	0~100	0~40	0~65	0~30	0~10	
	FGD-T	375~420	300~360	0~30	0~100	0~40	0~70	0~30	0~10	
	LSD	340~∞	50~100	0~25	0~90	0~7	0~65	0~25	0~10	
	FLMS	340~∞	80~160	0~30	0~90	0~7	0~65	0~30	0~10	
	N-FE	340~∞	0~99	0~30	0~100	0~50	0~65	0~30	0~10	
高純度 鋳物用鉄鉄 通称: (高純度鉄9規格) Super Ductile Foundry Pig Iron	DUCS-2X	360~386	0~10	0~10	0~10	0~10	0~10	0~20	0~5	0~5
	DUCS-2Y	387~404	0~10	0~10	0~10	0~10	0~10	0~20	0~5	0~5
	DUCS-2	360~410	0~10	0~10	0~10	0~10	0~10	0~20	0~5	0~5
	DUCS-3	360~∞	0~15	0~20	0~20	0~10	0~10	0~20	0~5	0~5
	DUCS-H2	360~∞	0~30	0~7	0~30	0~25	0~5	0~25	0~5	0~7
	DUCS-N	360~∞	15~70	0~20	0~25	0~15	0~10	0~30		
	DUCS-H	360~∞	15~70	0~20	0~25	0~20	0~10	0~30		
	DUCS-HS	360~∞	71~130	0~20	0~25	0~20	0~10	0~30		
	DUCS-HEX	360~∞	5~20	0~10	0~25	0~20	0~10	0~25		

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Contact: Terayama (Mr.) Overseas Sales Group, Foundry Sales Dept.

KOBE STEEL

Product : FOUNDRY PIG IRON (H.S. code : 7201.00 000)

With its diverse and sophisticated casting technology, foundry pig iron of better quality and higher reliability is in demand. Kobe Steel manufactures foundry pig iron at its Kakogawa Works using blast furnace facilities and operating techniques of the world's highest levels, as well as carefully chosen raw materials. Through a production system based on strict inspections and comprehensive quality control, Kobe Steel is doing its utmost to manufacture reliable foundry pig iron with superior quality that gives a sense of security to customers, and even uses that phrase as its slogan.

Specifications for Chemical Composition :

As of March 1, 2017

Large classification	Medium classification	Small classification	Pig iron grade	Compositions	C	Si	Mn	P	S	Cr
Normal pig iron	Gray cast iron	Former JIS standard	F1-1B	Specifications	≥3.40	1.81-2.20	0.30-0.90	≤0.150	≤0.045	—
				Real values	4.2	2.0	0.40	0.120	0.010	—
		Low-silicon	F1-1C	Specifications	≥3.30	2.21-2.60	0.30-0.90	≤0.150	≤0.045	—
				Real values	4.1	2.4	0.40	0.120	0.010	—
		No silicon added	F-E1	Specifications	≥4.00	1.00-1.40	0.30-0.90	≤0.150	≤0.060	—
				Real values	4.3	1.2	0.50	0.120	0.010	—
			F-NH	Specifications	≥3.50	≤1.20	≤0.50	≤0.150	≤0.050	—
				Real values	4.6	0.4	0.30	0.120	0.010	—
High-purity pig iron	Ductile cast iron	EP (silicon added)	F3-EP (normal)	Specifications	≥3.50	0.80-1.20	≤0.20	≤0.030	≤0.020	≤0.035
				Real values	3.7	1.0	0.10	0.020	0.005	0.005
			F1-EPH (high-silicon)	Specifications	≥3.50	1.60-2.00	≤0.30	≤0.040	≤0.030	≤0.050
				Real values	3.7	1.8	0.10	0.020	0.005	0.035
		SP (low-silicon)	F3-EPLS (low-sulfur)	Specifications	≥3.50	0.80-1.20	≤0.20	≤0.030	≤0.008	≤0.035
				Real values	3.7	1.0	0.10	0.020	0.002	0.005
			F3-SP (normal)	Specifications	≥3.50	≤0.30	≤0.20	≤0.030	≤0.020	≤0.035
				Real values	3.8	0.20	0.10	0.020	0.005	0.005
			F3-SPLS (low-sulfur)	Specifications	≥3.50	≤0.30	≤0.20	≤0.030	≤0.006	≤0.035
				Real values	3.8	0.20	0.10	0.020	0.002	0.005

*Real values presented above are reference values as they are updated every month.

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Contact : Terayama (Mr.) Overseas Sales Group, Foundry Sales Dept.

JFE STEEL

Product : PURE IRON [BMR] (H.S. code : 7214.99.000)

The pure iron supplied by Kusano contains 99.9% Fe and was developed in association with JFE Steel. Its field of application is extensive as it is a core material that supports modern society in areas such as rare-earth magnets, super-heat resistant alloys, industrial electronic instruments, electronic parts and devices, valves and aircraft engines.

Purity

By radically removing impurities such as C, Si, Mn, P, S, and Cr, it has achieved high purity of Fe 99.9%

Shapes

Able to supply various shapes from square billets to round bars also in small lots according to customer's requests.

Specifications for Chemical Composition :

	C	Si	Mn	P	S	Cu	Ni	Cr
BMR-2	≤ 0.02	≤ 0.01	≤ 0.07	≤ 0.005	≤ 0.005	≤ 0.02	≤ 0.02	≤ 0.02
BMR-3	≤ 0.01	≤ 0.01	≤ 0.15	≤ 0.015	≤ 0.015	≤ 0.02	≤ 0.02	≤ 0.05
	As	Sn	Ti	V	Al	O	N	
BMR-2	≤ 0.0050	≤ 0.003	≤ 0.01	≤ 0.01	≤ 0.005	≤ 0.02	≤ 0.008	
BMR-3	≤ 0.005	≤ 0.003	≤ 0.01	≤ 0.01	≤ 0.005	-	-	

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Thank you very much for your attention.