Steel Plantech
Heat the World, Shape the Future
Corporate Information
ABOUT US

JP Steel Plantech Co. (Steel Plantech) is a leading Japanese steel plant engineering manufacturer. We fulfill the expectations of our customers by providing optimal hardware and software technologies in addition to meticulous services. Our portfolio covers all stages of the steelmaking process, from strategic facilities planning to after-sales services.

OUR SERVICES

Planning and Estimation

We prepare the optimum plan for our customers by placing ourselves in their position and making considerations from various angles, such as layout, processes and costs. We also offer a wide range of other services, including consulting for feasibility studies and investments in new facilities and remodeling.
We realize advanced customizations tailored to each customer and respond to various needs through personnel who leverage our strengths, which includes ample experience in design, 3D computer-aided design and other state-of-the-art designing tools. We also offer economical plans utilizing standard models.

We have a framework for not only procuring materials and machinery but also for ordering the production and construction required at plants from around the world. This enables us to realize optimum procurement that meets our customers’ needs. Of particular strength in China and India is our collaboration with local affiliates and partners that allows us to provide customers with high-quality products at economical prices.

We take full advantage of the talents of our personnel and know-how based on abundant experience in turnkey construction to fulfill our agreements soundly in all aspects, from quality and costs to delivery date.

We also provide after-sales services, such as parts provision, inspection, repair and facilities renovation and remodeling. Our swift and highly reliable services allow customers to use their facilities with a peace of mind even after delivery.
Corporate Mission & Managing Principles

The source of our expertise and know-how has been nurtured with our customers over the past half century to reach the highest standard of steel plant engineering technology. We will continue to refine this technology, develop state of the art capabilities, and provide “Made of Japan” products and services that will delight our customers and contribute to the development of the world’s steel and nonferrous industries as well as to local communities and to conserve the global environment.

We are committed to exceeding customer expectations by providing the most advanced products and services for steel plant worldwide with the highest level of technology and professional engineering.

We pledge to act with sincerity in accordance with society’s highest ethical standards. We value people, we value ourselves, we value our society and we value the environment.
Message from the president

We, JP Steel Plantech Co., were established with the philosophy of contributing to the development of the world’s steel and nonferrous industries with our world class engineering capabilities, based upon the integration of the steel plant technologies that the four companies have cultivated over half century.

Since the establishment of our company back in 2001, coming from our well established technologies, we have optimized our engineering capability for manufacturing technology, creating an ecological plant that meet the current global environment requirement as well as smart products incorporating leading edge technologies of AI and IoT. With such technologies, we have grown steadily with strong support of our stakeholders.

As the metals industries continue to advance technological innovation and globalization, we would like to bring our products with new technologies into steel and nonferrous plants, in order to contribute to the establishment of a prosperous society and the healthier environment.

Our mission is to provide taylormade technologies and solutions in order to materialize customers’ challenges and requirements with safe and reliable products, based upon quality manufacturing and professional services.

With our future-oriented engineering mind, we are committed to devoting ourselves as one team to fulfill any requirements of our customers to their satisfaction.

Nobuyuki Nada  President

Plantech Mind for Customers

Taizo Tsutsui Vice President  Nonao Ao Director  Hirotatsu Kubo Director  Hiroshi Hisamori Vice President  Nobuyuki Nada President
In-house Production of High Added-value Steel Strips Achieved Through the Adoption of the SuPerLeveler™

The SuPerLeveler™ meets today’s needs for ever thinner and stronger steel plates in order to increase the performance of existing facilities while reducing the amounts of energy consumed and CO₂ emissions. Through adoption of the SuPerLeveler™, Finnish steelmaker Rautaruukki Corporation succeeded in cultivating new customers.
SuPerLeveler™, for Flattening Hard Steel Plates

Leveling hard steel plates had been said to be technically difficult. However, the SuPerLeveler™ reduces residual stress while enhancing flatness through Automatic Roll Gap Control (ARGC) and Dynamic Crowning Control (DCC), which are technologies for enabling infinite rigidity. For the SuPerLeveler™ customized for Rautaruukki Corporation, in addition to the technologies for enabling infinite rigidity, we also changed the roll driving method to further enhance the correction of flatness errors. This made it possible to correct the flatness of 30mm thick steel plates with yield strength of 1300MPa. Meanwhile, in terms of the reduction of residual stress, it has been numerically confirmed that with the SuPerLeveler™, the amount of bending that arises in materials thinly split into 200mm widths are reduced to one-fifth, from an average of 12.5mm per 10 meters to an average of 2.5mm.

The In-house Production of High Added-value Steel Panels Achieved

Before adoption of the SuPerLeveler™, leveling was the only process that the Rautaruukki Corporation outsourced, but Rautaruukki was faced with the problem of returned product in cases in which it was not possible to produce steel sheets at the required level of quality. However, the adoption of the SuPerLeveler™ enabled high-quality leveling to be carried out in house at Ruukki, thereby ensuring the quality of its products while also eliminating outsourcing fees to other companies, thereby reducing production costs.

Successful Differentiation and New Customer Development

By adopting the SuPerLeveler™, the Rautaruukki Corporation was able to increase the productivity of flat panels with no residual stress and succeed in boosting the added value of its heavy plates. Further, in addition to increasing sales volume by developing new customers, the company was able to differentiate itself from competitors through its ability to produce high tensile-strength steel plates.
Best Grade Steel Strips Through the Combination of Rapid Cooling Technology for CALs and CGLs with CSC’s Original Operating Technology

Steel Plantech’s CALs and CGLs fulfill a variety of the technological needs of Japan’s steel industry, and have been implemented for the production of high-quality steel sheets that are used primarily as external panels for automobiles. With the market increasingly oriented towards high-grade steel for higher added-value products, the China Steel Corporation (CSC) of Taiwan adopted Steel Plantech’s CAL and CGL, and has further strengthened its status as one of the world’s leading steelmakers.
Enhancing CSC’s Position as a First-rate Steelmaker

With the adoption of Steel Plantech’s CAL and CGL, CSC was able to make full-scale entry into automotive outer panel manufacturing. It is steadily boosting sales while also cultivating new customers. In particular, CSC can now meet the demanding quality levels of Japanese automobile manufacturers to which they had not delivered products in the past, but from which they are now receiving orders. The beneficial effects are clearly being seen in increased sales as well as improved status as a steelmaker with the orders from Japanese automobile manufacturers. These objectives were achieved through the combination of CSC’s and Steel Plantech’s technological strengths.

Customized for CSC’s Original Operational Technology

CSC developed in-house cooling speeds suitable for the respective alloy elements of steel. Steel Plantech customized its CAL and CGL to match the original operational technology or production process to realize the cooling speeds required by CSC, thereby successfully meeting CSC’s quality needs.

Technology that Enables Rapid Cooling of Steel Strips

Rapid cooling technology is particularly important when manufacturing special quality materials, such as high tensile and dual-phase steel strips. With greater focus on the reduction of vehicle weight, these specialty steels, which are strong and light, are being used for automotive outer panels. To enable this, a portion of the cooling facilities utilizes a method in which the hydrogen concentration within the furnace is raised in order to speed up cooling. Steel Plantech is currently handling five of CSC’s lines. This technology was incorporated when revamping lines that had been previously supplied by Steel Plantech.
Installation of the Environmentally Friendly Electric Furnace ECOARC™ for a 30% Reduction of Electric Power Consumption

ECOARC™, with its scrap preheating shaft, is an environmentally-friendly, highly energy-efficient electric arc furnace. ECOARC™ was chosen by the steelmaker in Tailand, whose core products are steel bars, as their main weapon to reinforce their cost competitiveness.
Issues Unique to Thailand Also Overcome

Scrap found in Thailand is lower bulk density than which found in Japan because it is thinner, longer and wider. So, scrap handling could be difficult in Thailand but we achieved smooth commissioning and operation by taking advantage of the experience in 4th ECOARC™. Furthermore, as a result of repeated meetings with idea between customer staff and Steel Plantech supervisor, the length of the shutdown for installation was minimized.

Preheating Technology that Reduces Power Consumption and Saves Costs

ECOARC™, which utilizes technology original to, recovers high-temperature off-gas that is generated during the steel melting process. The recovered heat is used to preheat scraps and to melt scrap using relatively little energy. ECOARC™ lowers electric power consumption and saves costs. Moreover, it reduces CO₂ emission.

To be More Competitive Manufacturer

With the installation of the ECOARC™ system, The customer was able to reduce production costs and achieve growth into an even more competitive manufacturer in Thailand. Furthermore, The customer was able to be one of the first to respond to environmental issues in Thailand, where fossil fuels are burnt to generate electricity.
**CORPORATE OUTLINE**

**Company Name**  JP Steel Plantech Co.

**Locations**
- **Head Office**
  Kaneko No.2 Building 4-1F
  2-6-23 Shin-Yokohama, Kohoku-ku, Yokohama 222-0033 JAPAN
  *5 minute walk from the North Exit, Shin-Yokohama Station.
  Phone: +81-45-471-3911  Fax: +81-45-471-4002

- **Osaka Office**
  Shin Osaka Central Tower North 9F 5-15 Nishinakajima 5-chome
  Yodogawa-ku, Osaka 532-0011 JAPAN
  *3 minute walk from the Midosuji subway line Shin Osaka Station
  *3 minute walk from Japan Railways Shin Osaka Station
  Phone: +81-6-6307-3851  Fax: +81-6-6307-3852

**Capital**
1,995 million yen

**Shareholders**
JFE Engineering Corporation  Hitachi Zosen Corporation  Kawasaki Heavy Industries, Ltd.

**Founded**
April 1, 2001

**No. of employees**
360 (as of April 2018)

**Major business**
Design, manufacturing, installation, sales and after-sales servicing of steelmaking machinery, non-ferrous metal producing machinery, and coke-making machinery as well as related equipment for use in Japan and overseas.

**Corporate Officers**
- **President and Representative Director**
  Nobuyuki Nada

- **Vice President and Representative Director**
  Taizo Tsutsui
  Hiroshi Hisamori

- **Director**
  Norio Ao
  Hirotugu Kubo
  Wataru Kobashi
  Eiji Inoue
  Yuji Matsukawa
  Tetsu Murata
  Tatsuji Kamaya
  Hideki Asaka
  Seiji Shimori

- **Outside Director**
  Norio Ao
  Hirotsugu Kubo
  Tatsuhiko Hasebe
  Keizo Abe
  Shigeyuki Takino
  Akihiko Tonoki
  Akihiko Yashizato

**Executive Officers and Respective Assignments**
- **General Manager, Iron & Steel Making Plant Sector.**
  Norio Ao

- **General Manager, Corporate Planning Dept.**
  Hirotsugu Kubo

- **General Manager, Flat Products Rolling Mill & Strip Processing Line Sector**
  Tatsuhiko Hasebe

- **General Manager, Technology Planning & Promotion Dept.**
  Keizo Abe

- **General Manager, Engineering Support Center, Procurement Dept.**
  Shigeyuki Takino

- **General Manager, Administration Dept., Osaka Office**
  Akihiko Tonoki

- **General Manager, Continuous Casting Plant & Long Products Rolling Mill Sector.**
  Akihiko Yashizato

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JP Steel Plantech Co.
OUR ORIGINS

Steel Plantech is a joint venture of four companies. With the history of the respective companies as its foundation, Steel Plantech makes full use of the experience and knowledge accumulated by each company to promote its future development.

Steel Plantech
Founded 2001

JFE
JFE Engineering
Founded 1912

KHI
Kawasaki Heavy Industries
Founded 1878

Hitz
Hitachi Zosen
Founded 1881

SHI
Sumitomo Heavy Industries
Founded 1934
Affiliated Companies

India

Steel Plantech India Pvt. Ltd. (SPI)

SPI was established in order to enable the smooth provision of our products in India, which is showing remarkable growth. Furthermore, for our customers outside of India, the company provides designs at competitive prices by utilizing talented Indian engineers.

Area-902, 9th Floor, Tower-1, Godrej Waterside, Block-DP, Plot No.5, Sector-V, Salt Lake City, Kolkata-700 091, West Bengal, India

Phone: +91-33-2357-0121

Vietnam

Steel Plantech Vietnam Co., Ltd. (Vina SPCO)

Vina SPCO is our sales office to provide prompt service for our current and future customer in South East Asia (ASEAN), mainly Vietnam. And also Vina SPCO provide after service and maintenance for the equipment which we supplied to our customer in Vietnam.

2F, The Landmark, 5B Ton Duc Thang, District 1, Ho Chi Minh City, VIETNAM

Phone: +84-28-3939-0421 Fax: +84-28-3939-0431
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**Ironmaking**

**Continuous Casting**

**Quality Strip Production Process (QSP)**

**Section Rolling Mill**

**Bar and Wire Rod Mill**

**Shifting Reverse Mill**

**Roller Straightener**

**Strip Processing Lines**

**Plate Leveler**

**Plate Shear**

**Continuous Annealing Line (CAL)**