

**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 aftersales 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.



#### Design



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.



#### **Procurement**



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.



#### **Project Management**



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.



#### **After-sales Services**



We also provide aftersales 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. PLANTECH 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

**PLANTECH** 

WAY

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.

professional engineering.

# Message from the president Plantech Mind for Customers

SPCO Continues to Provide Technology that Contributes to People and Society

The SDGs and carbon neutrality are major goals for mankind to be achieved by 2030 and 2050 respectively.

Under the banner of "Green & Smart," Steel Plantech is committed to contributing to a sustainable society as one team. We will achieve this by solving our customers' various issues

through the steel-based manufacturing plants and various engineering services we provide.

In addition to the steelmaking engineering technologies we have developed over the years, we will utilize digital technologies such as data science, Al, and IoT, which have made great progress in recent years, and integrate advanced technologies such as robotics, CCUS, hydrogen utilization, and power electronics.

We will also actively incorporate knowledge from other industries.

We will also reconsider and reform our working practices throughout the entire company, including the back office.

Such work style reform can be realized by using DX-related technologies.

We will remove boundaries between organizations, break down barriers with outside parties, and work with collaborative partners to rebuild an open engineering chain.

With this attitude, we will take on new challenges.

We will continue to change day by day,

responding swiftly to advanced technologies and changes in the social environment.

We believe that "we are not qualified to stay in business unless we are a company that contributes to society, pleases people, and is appreciated by future mankind."

With this high philosophy, we will work together with our customers toward the realization of a sustainable society.

Each and every one of us at Steel Plantech will do our utmost and move forward as one.

We look forward to your continued support.



Keiji Wakahara President and Representative Director







#### **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.



#### **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.

#### **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.



#### **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.



# **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 $^{\text{TM}}$  lowers electric power consumption and saves costs. Moreover, it reduces CO $_2$  emission.

#### **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.





#### **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	3- *4 Mi JR	okohama Connect Square 13F 3-3 Minatomirai, Nishi-ku, Yokohama, Kanagawa 220-0012, Japan minutes walk from "Minatomirai" station, Yokohama Rapid Transit inatomirai Line 7 minutes walk from "Sakuragicho" station on R and Yokohama Municipal Subway Blue Line none:+81-45-612-8470 Fax: +81-50-3156-7054
	Office 4-	umitomo Seimei Shin-Osaka Kita Building 4F, 1-14 Miyahara, Yodogawa-ku, Osaka 532-0003, JAPAN min. walk from Shin-Osaka Station none: +81-6-7178-3851 Fax: +81-50-3156-3336
Capital	1,995 million yen	
Shareholders	JFE Engineering Corporation Hitachi Zosen Corporation Kawasaki Heavy Industries, Ltd.	
Founded	April 1, 2001	
No. of employees	325(as of April 2024)	
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 (2024.4~)	Keiji Wakahara Akihiko Yoshizato	President and CEO,Representative Director Vice President and Representative Director Assist the President in all aspects of management operations In charge of Plant Engineering Div., Project Management Div.,Quality Assurance Dept.
	Katsuyoshi Fukuma	Business Operation Manager under the Construction Business Law Vice President and Representative Director Assist the President in all aspects of management operations In charge of Corporate Planning&Administration Dept., Sales Div., SafetyHealth Control Dept., Chinese Subsidiary.
	Yasuki Mikami  Atsuo Shikata Tadashi Shibayama Takashi Kotaki Tsuyoshi Uchida Takeshi Oyamada Takeshi Hotta Akihiko Tonoki	Director In charge of System Solution Div.,Procurement Dept.,India Subsidiary. Outside Director Outside Director Outside Director Corporate Auditor Outside Auditor Outside Auditor Outside Auditor Outside Auditor
Executive Officers and Respective Assignments (2024.4~)	Shigeru Oyama Hiromitsu Kurokawa Kenichi Ueda Hiroshi Goto Kenji Aoki Shigeru Shiraki	General Manager of Project Management Div.  General Manager of System Solution Div. General Manager of Plant Engineering Div. Deputy General Manager of Plant Engineering Div. General Manager of Sales Div. General Manager of Corporate Planning Administration Dept.



Keiji Wakahara President and CEO, Representative Director



Akihiko Yoshizato Vice President and Representative Director

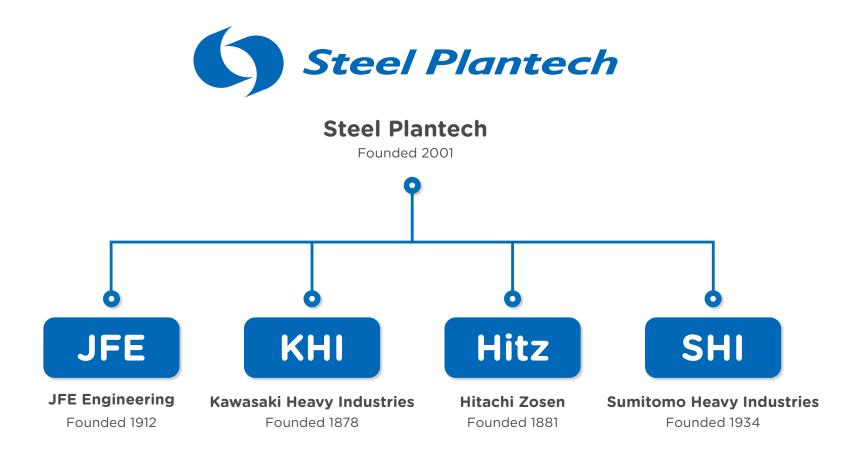


Katsuyoshi Fukuma Vice President and Representative Director



# **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.



## **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.

Infinity Benchmark Building 14F Unit1403, Block-EP & GP, Sector-V,Salt Lake City, Kolkata - 700091, India

Tel: +91-33-4043-7800

#### India



Steel Plantech Shanghai Co.

China is not only a market where we receive orders and deliver products, but also an important region for manufacturing and procurement. By communicating our requests and design concepts more speedily and accurately, we can improve the quality of manufactured products and realize smooth procurement operations.

Room 2703, Building No1, No.369, Xianxia Road, Changning District, Shanghai

Tel: +86-21-5298-5026













Plate Rolling









Continuous Galvanizing Line (CGL) Annealing and Coating Line (ACL)



JP Steel Plantech Co.

Head Office: Yokohama Connect Square 13F 3-3-3 Minatomirai, Nishi-ku, Yokohama, Kanagawa 220-0012, Japan Phone: +81-45-612-8470 Fax: +81-50-3156-7054

Kansai Satellite Office: Sumitomo Seimei Shin-Osaka Kita Building 4F,4-1-14 Miyahara, Yodogawa-ku, Osaka 532-0003, JAPAN Phone: +81-6-7178-3851 Fax: +81-50-3156-3336

https://steelplantech.com