

MITSU SEIKI CO., LTD.

<COMPANY PROFILE>

Head office	301 Shimogawai, Awaji, Hyogo, Japan 656-1522
E-mail	english_staff@mitsu.co.jp
Website	http://www.mitsu.co.jp/
Number of employees	248 persons (group total: 318 persons)
Capital	¥49,500,000.-
Incorporated in	April 1962 (founded in April 1933)
President	Hisanao Mitsu (Chairman) Chikuma Mitsu (President)

<BUSINESS>

Machining of aerospace device parts (parts used in jet engines, landing gears and artificial satellites). Machining and assembly of medical device parts and other precision parts.

<TECHNOLOGY>

From 0.05 grams to 1 ton!

Expert technique and self-developed specialized cutting tools support the company's great production technology



Cutting work using specialized cutting tools



Production of cutting tools

What determines the quality of aircraft parts is the combination of machine tools' performance/function and engineers' expert skills. Aircraft parts, which Mitsu Seiki deals with, are made of difficult-to-cut materials. This means that the workpieces have to be exposed to pressure and heat while being processed, which can cause distortion, expansion and contraction. Due to this, as well as differing lot sizes of materials, no two working processes are the same. Therefore, it is necessary for a machining company to have high-performance and highly-functional machine tools as well as engineers with excellent skills and senses. Few SMEs in Japan have both of these resources, and thus many have not been able to fully utilize every capacity of their available tools.

At Mitsu Seiki, the production technology division mainly handles technical innovation. The 18 members of the division are engaged in process planning and other planning works. Tips and know-how gained by engineers in the process of test production are fed back to the production technology division, and that feedback is reflected in successive process programs.

Among all, one of the most characteristic technologies of Mitsu Seiki is the development and manufacturing of specialized cutting tools. In-house development and manufacturing of tools shorten the total time required for product manufacturing. Furthermore, one can conduct cutting works more efficiently with specialized cutting tools than with commercially available general-purpose cutting tools because the forms of specialized cutting tools are uniquely designed in accordance with each workpiece. Also, specialized cutting tools can drastically reduce working hours, which affects cost more than any other variable. What supports Mitsu Seiki's operations are its over 30 years of experience of in-house development of specialized cutting tools, equipment that allows mass-production of stable quality products, and its engineers.



Activities for improvement within the company

【Behind the scenes of development】

Due to the locational disadvantage of being on an island, Mitsu Seiki enjoyed few opportunities of receiving customers and business partners before the opening of the Akashi Kaikyo Bridge in 1997. This being the case, the company had to manage to develop manufacturing technology, conduct quality assurance and resharpen cutting tools (an essential step for machine processing) by itself. As an extension of these efforts, the company began to make specialized cutting tools on its own. In this way, Mitsu Seiki has established its systems and environment for machine processing and developed its corporate culture based on self-dependence.

【Unique features】

Mitsu Seiki has determined to invest 10% of their sales into its facilities and 1% into employee training every year, and has thus continuously introduced cutting-edge machine tools and inspection equipment and promoted human resources development for many years. In addition, in order to respond to the demands for technical skills and quality/production management ability, the company has focused energy on supporting offices, such as the production technology division and quality assurance division. Staff members called KAIENTAI, specializing in supporting improvement, are always in service during operation hours.

【Future development】

In general, machine processing companies handling aircraft parts are not engaged in work other than machine processing. However, Mitsu Seiki is making efforts so that it can also handle other processes, including procurement, inspection and finishing in the future. Customers can reduce their workload and enhance their performance by contracting with a manufacturer that has excellent technical skills. By serving as an irreplaceable business partner, the company aims to make greater contributions to its

customers and to the increase in aircraft demand.

<TOPICS>

Recognized as a “Hyogo work-life balance company”

For the company’s efforts to create a better working environment



Hyogo Work-Life Balance Center, an organization managed by the Hyogo Labor Welfare Association, recognizes companies that strive to introduce various working styles and promote a healthy work-life balance as “Hyogo work-life balance companies.” Mitsu Seiki received this honor in 2016 together with 10 other companies and organizations. Mitsu Seiki was acknowledged as a company working on the improvement of workplace environment and the establishment of a system enabling a healthy work-life balance through its efforts to enable its employees to fully exert their abilities and motivation.

Wings that embody engineers’ technique and passion

The SDF’s aircrafts that once soared in the sky are on public display



In the Head Office/Taga Factory of Mitsu Seiki, seven aircrafts lent by the Japan Self-Defense Forces are on display, along with other items such as engines. They were once in actual use, and some contain Mitsu Seiki’s parts. They are on public display with the company’s hope that they will contribute to the promotion of aviation science education and the enhancement of people’s interest in aviation. Anyone can see the

aircrafts for free. At the same time, the aircrafts serve to develop awareness of aircraft parts quality in the employees who see them every day.

<HISTORY>

- 1933 Mitsu Tekkosho (“Mitsu iron works”) founded in Ikuno-ku, Osaka
- 1946 Transferred to Gunge, Ichinomiya Town (present-day Awaji City), Hyogo
Started production and repair of ship engines
- 1959 Started production of devices attached to knitting machines and their parts
- 1962 Incorporated
- 1972 Designated by the Small and Medium Enterprise Agency as a model factory for streamlined operations of SMEs
- 1979 Designated as a “superior taxpayer” by tax office
Started full-fledged production of aircraft parts
- 1986 Name of the company was changed into Mitsu Seiki Co., Ltd.
- 1987 Mitsu Tech Co., Ltd. was established as a spin-off of the specialized machinery department of Mitsu Seiki
- 1995 The head office was relocated to the site of the Taga Factory
- 2003 Received the Minister of Health, Labour and Welfare’s Award (regarding technical skills test)
- 2004 Received the “Furusato” company award (regional revitalization award) from the Minister of Internal Affairs and Communications
- 2016 Selected as a Hyogo work-life balance company
Selected as a Hyogo “Only-One” company