



- 100 Types of Functional Plating Technologies
- **One-Stop Service**
- Over 1000 repeat customers
- Support from **prototype phase to mass production**
- 4 Factories that can respond to different plating needs

## Why choose us?



### 1 Providing high-quality plating

We provide the best rack and mesh that can be selected according to the product. We handle a technology for parts that require high reliability. We have many achievements in materials that are difficult to plate.

Plating methods such as barrel, hoop, and large variety of small quantities from one to tens of millions.

### Compatible with a wide range of fields with various types of plating 2

There are about 100 types of plating at Mitsuya that have been applied in various fields such as automobiles, aerospace, medical care, smart grids, communication equipment, electronic components, and trains. We can also develop plating types according to customer requirements. We have developed a new plating for JAXA that is used in space.



### 3 More than 100,000 production results per year, with over 1000 repeat customers

We have gained an expansive accumulation of technical expertise based on many years of experience. This has been highly evaluated by our customers. We have over 100,000 orders and over 1000 repeats per year. We also support various standards including RoHS.

### Technology that can solve issues 4

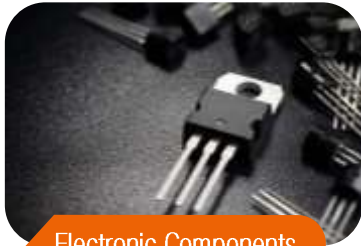
Mitsuya's technology will help you to solve your issues, from the product development phase to the mass production stage. We will work with you to achieve the specific target performance.

Mitsuya also supports prototypes, so it is possible to decide whether or not to adopt our technology after conducting a performance test. We also take orders from quality analysis. We are always working to resolve issues quickly.

By increasing the reflectivity of gold plating from 87% to 99.8%, equipment using Mitsuya's plating has been mounted on the Space Shuttle and the experiment has been very successful.



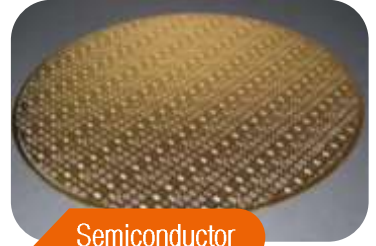
# Plating that Spans a Broad Range of Industries



Electronic Components



Medical Devices



Semiconductor

We have 100 types of plating technologies



Optical Communication

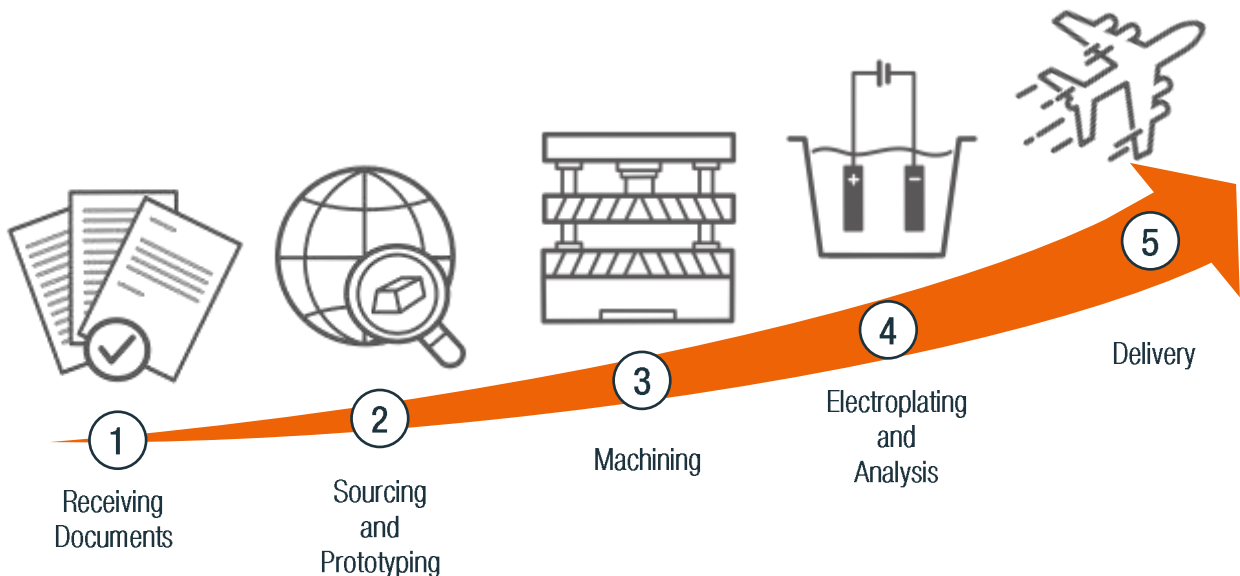


Automotive



Aerospace

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📍 Tokyo, Japan (Main Office)



visit our website

*We will work together from the prototype to the development stage.  
Contact us at anytime for any type, size or shape.*

 **mitsuya Co., Ltd.**

# We offer plating with the following characteristics:

## Corrosion Resistance

Many applications from electronics, medical, automotive and aerospace require their components to be susceptible to corrosion. Mitsuya offers several corrosion-resistant plating for various industry applications.

- Matte Gold and Silver plating
- Gold-Tin (RoHS compliant)
- Platinum
- Anti-corrosion treatment for aluminum (RoHS compliant)

## Magnetic Shielding

Ideal for applications using magnetism, high precision instruments for medical use, resonance magnetometers, magnetic detectors, and connectors that require non magnetism.

- Electro Nickel plating
- Copper sulphate plating
- Iron-Nickel alloy plating

## Biocompatible

As a metal to be worn, it is often required that there is no nickel content. The characteristics required for the surface of the metal to be put into the body differ depending on the part.

- Direct Gold/Silver/Tin on Stainless steel
- Gold of  $>5\mu\text{m}$
- Gold Iron alloy plating

## High Reflectivity

As a bright metal, it has been known that silver plating has a high reflectance in a wide wavelength range. However, silver plating is easy to discolor in air. Therefore, Mitsuya developed a High Reflective Gold plating to solve this problem. NASA adapted this technology as a reflective mirror for the image furnace.

- High reflective gold plating

## Light Absorbing

Mitsuya not only offers plating that reflects, but also plating that absorbs light. Mitsuya's plating can efficiently absorb sunlight and convert it to heat, and it is also possible to suppress the loss due to heat radiation of the heated absorbing material itself.

- Black electroless nickel plating
- Black Arrow (low reflection black treatment)
- Ultraviolet Absorbing Black plating

## Others

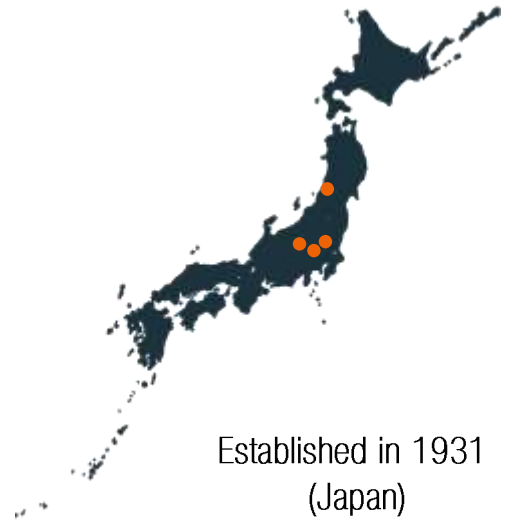
As a pioneer in plating, Mitsuya has concentrated on the plating services and finishing services for functional property improvement of industrial products. We are the pioneer in this field and keep on upgrading our technology to meet customer requirement. Below are our other key technologies that we are proud of:

- Hard Silver plating
- Indium Plating
- Wafer bump plating
- Palladium/Palladium alloy plating
- Cobalt-Nickel plating
- Heat-resistant silver plating
- Plating inside the pipe
- Plating on Titanium

# About Mitsuya

“Mitsuya” means “three arrows” in Japanese.

We place emphasis on three things during production:



Established in 1931  
(Japan)

## CERTIFICATIONS:

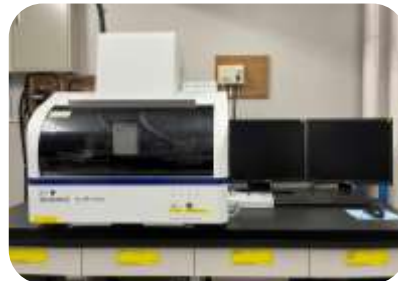


JISQ9100: equiv. to AS 9100 or EN 9100



KES and ECOSTAGE: equivalent to ISO 14001

## Analysis and Inspection Equipment



X-ray fluorescence spectrometer (XRF)



4 Mixed Gas  
Corrosion Testers



Electric Field Emission  
Scanning Electron  
Microscope



Laser Microscope



Slidability Tester (friction)



High Frequency Plasma Analyzer (ICP)