



# **PT. KAWAI NIP** No.1 Surface treatment company in Asia.

#### **LEADER COMPANY OF SURFACE TREATMENT IN ASIA**



EJIP Industrial Park Plot 4E-2 Cikarang Selatan, Bekasi 17550 Indonesia



Telp : +62-21-8974805 Fax : +62-21-8974806



www.kawainip.co.id



### COMPANY PROFILE PT. KAWAI NIP

PT. KAWAI NIP, Founded in 2003 by KAWAI Co, Ltd. At Nagoya in Japan, is headquartered and planted in Cikarang Selatan Bekasi Indonesia.

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This is a 3389 square meters Electroless Nickel Plating facility. The equipment and the facility, incorporatated the depth of our experience into a metal finishing facility. Parts we process include small and delicate parts, precision machined components, stampings, powder metal, and deep drawn parts. The plants specialize in functional engineered plating processes, using both rack and bulk methods



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# **ABOUT US**

PT. KAWAI NIP still has certifications of ISO 9001 and ISO 14001 (Version 2015). PT. KAWAI NIP is increasing quality and total production management.

Company Name Address

Telephone No.Fax. No.E-mailName of PresidentNo. Of EmployeesProduction Capacity :

PT. KAWAI NIP EJIP Industrial Park Plot 4E-2 Cikarang Selatan, Bekasi 17550 Indonesia. +62-21-8974805 +62-21-8974806 info@kawainip.co.id Mr. Noriyuki Miyasaka 150 Persons 150,000 pcs/day

ED 1401 BURGAU VERTAS Cestificades

(L=400mm 10shaft)

## GLOBAL NETWORK

KAWAI Co.,Ltd. ( A Parent Company ) Address 76 Kamoda, Kunotsubo, Kitanagoyashi, Aichi 481-004, JAPAN

> Tel. +0568-25-3537 Fax. +0568-25-3540, 3744 URL http://www.kk-kawai.co.jp/

Nippu Industry Co., Ltd. Address 100 Kamoda, Kunotsubo, Kitanagoya-shi, Aichi 481-0041, JAPAN

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### **PLANT AREA**

#### **Flexible Mass Production Equipment**

PT. KAWAI NIP has a automatic electroless nickel plating equipment that easy to charge process condition for each customer PT. KAWAI NIP can also manual plating or semiautomatic plating depend on customer

#### **Automatic Plating Line**

This line has a productive capacity for over 150,000 shafts per day





#### **Manual Plating Line**





Baking Oven For Heat Treatment



Spin Dryer





Salt Spray Test



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**Electro Nickel Plating** 

**TIN Plating** 



Laboratory



#### Warehouse





**Finished Goods Line** 



Waste Water Treatment Facility





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#### **PRODUCT** The Key Products of PT. KAWAI NIP



Office Automation Machines, Industrial Machines Electric Parts for Automobiles Generally, Electroless Nickel Plating uses shafts for office automation machines. And also uses electronics parts for industrial machines and automobiles.

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#### SMALL / PIN SHAFT





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# QUALITY CONTROL

**PT. KAWAI NIP** Possible to guaranty the same quality as Japan. The quality control and environmental issue of PT. KAWAI NIP is based on ISO 14001 and ISO 9001 (Version 2015)





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#### TMS MACHINE







### INFORMATION

#### **Features of Proper to Electroless Nickel Plating**

- 1. Possible to control thickness of Nickel Plating less than few micron millimeters.
- 2. Very little thickness margin of error on an around the parts.
- 3. Available to increase hardness using process of the heat treatment. (Electric Nickel Plating is not available this process)
- 4. Anti Corrosion and Hardness are superior to an Electric Nickel Plating.
- 5. Electrical resistance and Luster are less than an Electric Nickel Plating.

#### **About Electroless Nickel Plating**

Non Electrical Plating of metals and plastics to achieve uniform coatings by a process of controlled autocatalytic (self-continuing) reduction. Discovered in 1944 by A. Brenner and G.E. Riddell, electroless plating involves the deposition of such metals as copper, nickel, silver, gold, or palladium on the surface of a variety of materials by means of a reducing chemical bath. It is also used in mirroring, in which a clean surface of glass is dipped into an ammoniacal silver solution mixed with Rochelle salt or with a nitric acid cane-sugar alcohol solution. The Major expansion of electroless plating has come in the area of plastics, as in the plating of printed electronic circuits. A large number of consumer goods are coated by this method to create durable and attractive surfaces.

The biggest advantage of electroless nickel plating verses standard nickel plating is that it covers the entire part with a uniform thickness coating, including seams, sharp edges, and the interior of deep drawn parts.

Unlike standard nickel plating which relies on current density in a bath for deposit thickness, and the length of time in the solution. Because of these properties highly accurate and repeatable thicknesses can be obtained making electroless nickel the preferred choice when full part tolerances are critical.

Electroless nickel is a deposition alloy of 85 to 99% nickel and 15 to 1% phosphorus. The higher the phosphorus content, the more amorphous the deposit. Amorphous deposits have a phosphorus content greater than 10% and are non crystalline. Electroless nickel, with phosphorus content greater than 10% also has the structure of metallic glass, which means low porosity to no porosity. This translates into higher wear resistance and higher corrosion resistance. Electroless nickel can also be rendered non-magnetic making the optimum choice for electro magnetic shielding.

### INFORMATION

#### What is Electroless Nickel Plating?

Electroless nickel plating is an auto-catalytic reaction used to deposit a coating of nickel on a substrate. Unlike electroplating, it is not necessary to pass an electric current through the solution to form a deposit. This plating technique is to prevent corrosion and wear. Electroless nickel plating has several advantages versus electroplating. Free from flux-density and power supply issues, it provides an even deposit regardless of workpiece geometry, and with the proper pre-plate catalyst, can deposit on non-conductive surfaces. In general, electroplating improves a wide range of characteristics not inherently present in the base material.

Some of these benefits include :

- 1. Increased resistance to corrosion
- 2. Improved hardness
- 3. Superior strength
- 4. Resistance to wear
- 5. Improved ductility

Electroless nickel plating application :

- 1. It is commonly used in engineering coating applications where wear resistance, hardness and corrosion protection are required. Applications include rotors, drive shafts, paper handling equipment, electrical and mechanical tools and office equipment.
- 2. Due to the high hardness of the coating it can be used to salvage worn parts. Coatings up to 15 micrometers can be applied. Its uniform deposition profile mean it can be applied to complex components not readily suited to other hard wearing coatings like hard chromium. Its use in the automotive industry for wear resistance has increased significantly.



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# MAP OF PT. KAWAI NIP



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