

Plating and Stripping Rectifiers



Powertech 3 amp Rectifier Ref: 43-050-000

This well priced unit is ideal for Rhodium Bath and Rhodium Pen Plating. While limited to 3 amps means it is not suited to electro-stripping or electro-polishing, the Powertech will easily handle Cyanfree Gold and Cyanfree Silver electroplating baths. The Red and Black leads supplied with the unit have a clip on end for quick change from cleaning to plating anodes and from one work item to the next. Features include:

- Constant or Variable Voltage 0 to 30volts
- Constant or variable Current to 3amps
- Large LCD meters to indicate constant voltage and constant current modes
- Coarse and fine voltage control.

Procraft Rectifiers



These USA made rectifiers can be used for both Bath and Pen Plating.

Features include:

- Heavy duty components throughout with oversized heat sink
- Silicon diodes for long life under high temperature conditions
- Continuously variable control of amps from zero to full load
- Zero to 12 volts D.C continuously variable
- Shunt protected meters prevent damage due to overloading
- Large, easy to read meters

10 amp Rectifier Ref: 43-100-000

For regular low volume plating operations. Suitable for Rhodium, Gold and Silver, this unit will also handle Copper and Nickel.

25 amp Rectifier Ref: 43-105-000

For regular larger volume plating operations that require power enough for stripping. Suitable for plating Rhodium, Gold, Silver, Copper, Nickel, etc.

Compact Plating Stations

These compact electroplating units have been designed for workshops with regular small volume electroplating operations such as Jewellers, Optics, Dental Technicians and Model Technics Stores. They are easy to use and provide great versatility with the ability to plate Rhodium, Gold, Silver, Copper, Nickel and Tarnavoid as well as degreasing prior to plating. All three models are finished in Hot Painted Steel and are equipped with glass beakers.



Platy - 3 amp Ref: 43-140 -000

Ideal for small workshops where individual pieces are Rhodium or Gold plated. Features include:

- Built-in power supply with variable output from 2 to 10volts
- Large easy to read volt meter
- Back light main switch
- Protection fuse
- Platinised titanium anode
- Stainless steel anode
- 4 x 100mL beakers
- Black lead with clip
- Polycarbonate cover over all beaker positions. Overall size:160mm x 240mm x 140mm high. 2.5Kg

Joker - 5 amp Ref: 43-120-000

The 600mL beakers provide room for plating larger items or multiple items at one time.

Features include:

- Variable output 0 to 10 volts
- Large easy to read Volt Meter
- Built-in 100watt Heater with Independent Back lighted Switch
- Main switch with back light
- Protection Fuse
- Platinised Titanium Anode
- Stainless Steel Anode
- 3 x 600mL Beakers
- Black lead with Clip
- Polycarbonate Cover. Overall size: 220mm x 320mm x 220mm high. Weight 6Kg



Flash - 10 amp Ref: 43-130-000

The litre size beakers provide enough space for bangles and other large items to be plated

Features include:

- Variable output from 0 to 10volts
- Large easy to read Amp and Volt Meters
- Back lighted Main Switch
- Built-in 100watt Heater with Independent Back lighted Switch
- Protection Fuse
- Platinised Titanium Anode
- Stainless Steel Anode
- 2x 1Litre Beakers
- Black lead with Clip
- Polycarbonate Cover over both beakers. Overall size: 250mm x 300mm x 350mm high. Weight 12Kg



This symbol indicates the item can not be sent by post or air freight.

Ultrablack Rhodium

Ref: 43-513-500

Ultrablack Rhodium is supplied ready-to-use in a 1 litre bottle and produces a dark shiny deposit that is highly resistant to wear and abrasion. The colour is referred to as charcoal black.

Bath Temperature 20 - 60°C
(40°C optimum)

Anode: Platinum or platinised-titanium
Anode/work surface ratio:- from 1:1 to 4:1
(2:1 optimum)

Voltage: from 2 volts to 6 volts
(2.5 volts optimum)

Current density: from 0.5 to 10 A/dm²
(3 A/dm² optimum)

Agitation: Gentle to moderate.

Added bonus - The *Ultrablack* Rhodium can be shipped by air!



Ultrabright Rhodium

2grams / Litre

Ref: 43-514-500

1 gram / Litre

Ref: 43-514-700

Produces an ultrabright and brilliant white colour without the grey overtones that often occurs in other finishes. Ultrabright Rhodium also provides superior wetting qualities which combined with gentle agitation stops hydrogen bubbles from sticking to the surface of the parts being plated. An excellent ultra bright white colour is produced without dull spots. Ultrabright Rhodium is supplied ready-to-use in a 1 litre bottle. No mixing or additives are required. Ultrabright can be deposited directly onto Gold, Silver, Palladium, Copper & Nickel.



Temperature:- the bath operates between 20 - 60°C (40°C optimum)

Anode type:- use platinum or platinised-titanium only.

Anode/work surface ratio:- from 1:1 to 4:1 (2:1 optimum)

Voltage: from 2 volts to 6 volts (2.5 volts optimum)

Current density: from 0.5 to 10 A/dm² (3 A/dm² optimum)

Agitation: Gentle to moderate

Added bonus - The *Ultrabright* Rhodiums can be shipped by air!

PT4 Platinum Plating Solution

Adding to our extensive range of products from Legor, we now have available Platinum Plating Solution. This solution can be used directly on silver, platinum, palladium, gold, nickel and their alloys. Platinum concentration 4g / 1litre supplied in ready to use 1litre bottles.

Ref: 43-511-000

Specifications

Operating Temp. 40°C - 90°C
(60°C Optimum)

Time of Exposure: 60 seconds

Voltage: 3

Anodes Platinum or Platinised-Titanium

Agitation: Moderate



Brilliant White Rhodium

Ref: 43-514-000

Brilliant White Rhodium is a bath plating formula which eliminates hydrogen spots and pits! Unlike some plating solutions, J2 White Rhodium's superior wetting qualities means bubbles formed by hydrogen remain small and well dispersed. This, combined with minimal agitation stops the bubbles from sticking to the surface of the parts being plated. An excellent brilliant white colour is produced. J2 White Rhodium is supplied in concentrated form 2g in 100mL to make a 1L bath. (Add concentrate to deionised water) The bath operates between 20 - 40°C (35°C optimum) at 2-3 volts. Use only platinum or platinised-titanium anode.



Electrolytic Cleaning Powders



Activax Ref: 42-099-000

Electro-Cleaning Mix 25g of activax powder with 1Litre tap water, heat to 80°C. Use a stainless steel anode, connect the object to be cleaned to the negative terminal of your rectifier, set the power between 6 - 8volts. Clean for 30-60 seconds. Rinse well in Distilled Water after cleaning. 500g Jar

This is a strong alkaline product. Avoid contact with skin & eyes

Ultrasonic Cleaning. Activax is also a very good degreaser when used in an Ultrasonic cleaner. Mix with tap water at the ratio of 25grams per litre.



ZFM Ref: 42-098-000

Room temperature Electrocleaner
100grams

Mix: 100grams of ZFM with
1 litre of tap water.

Anode: - Stainless Steel

Voltage: - 6 to 8 (30 to 60sec.)

Clean: Room temperature (20°C to 35°C)

Rinse: - distilled (demineralised) water

Recommended for use before electro-plating with: - Ultrabright Rhodium, Tarnavoid, Cyanfree Silver, etc.



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Pen Plating Units

These units are ideal for those small touch up plating tasks such as Rhodium plating after retipping claws on a setting or for production work where small areas require plating without masking or where masking is impractical. In addition to achieving a professional finish a considerable amount of time can be saved through eliminating time consuming masking and removal of the mask after plating.

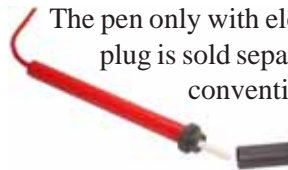


AE Pen Plating Unit Ref: 43-212-000

Compact variable power supply suitable for Pen Plating with Rhodium or Gold. This unit is powerful enough to use for electro-cleaning the setting or shank prior to plating. Supplied complete with Plating Pen and Standard Fibre Electrode, Work Clip with Lead and Glass Solution Container. Features a "No Spill" well for the Solution Container and a Pen Keeper to hold the Plating Pen between jobs to ensure there is no contamination.

Plating Pen Ref: 43-212-002

The pen only with electrode, red lead and banana plug is sold separately and can be used with a conventional rectifier for contact plating.



Stop Off Pen Ref: 43-210-009

Used to mask small areas and to ensure two tone sections remain clearly defined. For masking larger areas use Masking Paint



Fibre Electrodes



Replacement fibre electrodes are available in 3 basic shapes, Bullet, Chisel and Fine tip. All of these can be shaped for specific purpose by shaving the tip with a scalpel.

Bullet Tip Ref: 43-210-005

Fine Round Tip Ref: 43-210-007

Chisel Flat Tip Ref: 43-210-010

White Rhodium - Pen Plating

Ref: 43-211-000



White Rhodium -Pen Plating, has been formulated specially for contact plating. Supplied in concentrated form 2g in 100mL it is designed to be used undiluted and is not suitable for bath plating. The solution operates at room temperature between 6-8 volts. For best results use only pens with platinum contacts.



Most bath plating solutions, even in their concentrated forms, will not give the same high quality finish provided by the purpose made contact plating solutions and in many instances will not work at all.

Heat Resistant Beakers and Beaker Covers



250ml Capacity
Ref: 43-206-000 Beaker



500ml Capacity
Ref: 43-204-000 Beaker.
Ref: 43-202-000 Glass cover
Ref: 43-202-001 Plastic cover



1L Capacity
Ref: 43-205-000 Beaker.
Ref: 43-203-000 Glass cover
Ref: 43-203-001 Plastic cover

Plating Thermometer Ref: 43-207-000



For measuring solution temperature -10 to 110°C.

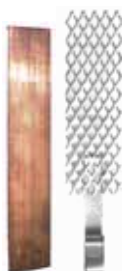


Masking Paint Red

Ref: 43-012-000
Leather lacquer paint for masking out areas not to be plated. 250mL.

Anodes

Reference	Description
43-400-000	Fine silver, 150 x 25mm
43-405-000	Copper
43-410-000	Nickel
43-415-000	Plat-titanium (for Rhodium)
43-538-000	Stainless steel circular anode



Jax Silver Blackener

Ref: 26-194-000 **200ml**
Jax Silver Blackener for Silver and Gold is a ready to use solution that is water based, non-flammable and requires no heat or electricity. It contains no sulphur and will react within seconds, giving consistent results.



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Cyanide Free Gold & Silver Plating Solutions

New chemistry technology now provides Cyanide Free Gold and Silver Plating Solutions. These solutions produce the same thickness of plate which is just as durable and wear resistant as Cyanide Based Solutions. Poisons permits, renewals, inspection problems, and potential safety problems are all eliminated by using these solutions.

Cyanfree Gold

Four simple steps for gold plating over gold:

- 1- Ultrasonic clean the item;
 - 2- Electro clean with Activax 25g/L, heated to 70°C;
 - 3- Wash in Pickle 250g/L solution at room temperature to etch the surface;
 - 4- Gold plate in usual fashion for 30-40 seconds at 60°C, at 3-4 volts using a stainless steel anode;
- Rinse item between steps and after plating in distilled water.



There are three gold solutions available. Each deposits gold crystals in a uniform manner, this saves 20 - 30% of gold usage by simply eliminating heavy gold build up areas. The curved stainless steel anode is used to ensure an even build up of plate on all surfaces.

The gold solution deposits a durable and wear resistant gold plate in 30 - 45 seconds, at the gold concentration of 0.77g of gold/1L of solution. The 1L solution is premixed, do not dilute.

The solution is to be heated to 60°C and plated at 3-4 volts for 30-45 seconds. All you need to do is decide the colour of the plating solution you require.

43-533-000 14ct yellow 43-535-000 24ct yellow 43-534-000 18ct yellow

Cyanfree Silver

Ref: 43-537-000

First clean and pickle wash as in cyanfree gold, steps 1, 2 & 3.

4. Plate at Room Temp. For 30 - 60 seconds at 2 - 3 volts depending on size of part and coverage desired. Larger parts require slightly higher voltage, while smaller parts require lower voltage. If part shows any burning such as a dark or dull grey deposit around the edges, you are burning the part and must lower the voltage. If part is not a silver colour after 45 seconds of plating, voltage is too low, therefore, increase voltage slightly.

5. After silver plating rinse part thoroughly in deionized water and dry completely with either a steam cleaner or a hot air dryer.

To ensure a bright shiny surface after plating, you must plate on to an existing bright shiny surface. Plating on to a dull surface will only give a dull plated result.

USE OF PICKLE SOLUTION

The powder is mixed with hot water (not boiling), producing a mild acid with superb etching, brightening and cleaning properties. This chemically cleans and activates the jewellery to ensure strong metallic bonding of the gold and silver plating. Available in 1Kg Ref: 26-175 and 500g Ref: 26-170.



Tarn-A-Void

(Platable Tarnish Preventative)

Preventtarnish & discolouration on silver, low carat gold, gold plate and similar surfaces.

It is an extremely hard, microscopically thin, transparent film which prevents tarnish from the atmosphere, skin contact and other causes. It is applied at room temperature in a very simple, 60 second electroplating process and has a long wearing life.

- Hard, invisible, protective anti-tarnish coating;
- No fumes in use;
- Will not chip, peel or yellow;
- Easy to use;
- Non-flammable;

Use stainless steel anode; Use same volts/amps as for plating gold; After a final rinse, the process is complete.



Ref

43-495-000

Description

1L, ready to use.

Cyanide Free Stripping Solution (1 L)

Ref: 43-568-000

Supplied in a 1L bottle pre-mixed, ready to use without further dilution. This solution is suitable for Gold & Silver Stripping. It requires heating to 70°C, and the use of a stainless steel anode. Comprehensive instructions are supplied on the label of the bottle. The solution only requires a voltage of 4v, which is increased as the solution weakens. Stripping time is around 10 - 20 seconds. *Please note this product is not an electro-polisher it will only remove thin layers of previously plated gold or silver.*

