RHODIUM-MACHINE RM*go!* - Operating instruction

Electroplating made easy - With the new Rhodium Machine RM*GO!* jewelry can be easily electrolytic degreased, rhodium and gold plated. Pre-installed times and tensions, along with an automatic power shut-off, allow an exact processing. The exposure time can be chosen between 15, 30 or 60 seconds. This assures a reliable planning dependability as no precious metal is wasted. Room temperature solutions and a single button for Start and Stop make it furthermore really simple and user-friendly.

The RM*go!* unit is available as set with the necessary accessories

- **Set 1** for **rhodium** plating
- **Set 2** for **rhodium** and **gold** plating
- **Set 3** for **gold** plating

Required accessories (included in each set)

1. **Rhodium plating**
   2 x Beaker 1000 ml with 2 x red lids
   2 x Beaker 600 ml with 2 red lids
   2 x Red cable
   1 x Black cable with clamp
   1 x Stainless steel anode
   1 x Mixed oxide anode
   1x Jig with 4 hooks

2. **Rhodium and gold plating**
   3 x Beaker 1000 ml with 3 x red lids
   3 x Beaker 600 ml with 3 red lids
   3 x Red cable
   1 x Black cable with clamp
   2 x Stainless steel anode
   1 x Mixed oxide anode
   1 x Jig with 4 hooks

3. **Gold plating**
   2 x Beaker 1000 ml with 2 x red lids
   2 x Beaker 600 ml with 2 red lids
   2 x Red cable
   1 x Black cable with clamp
   2 x Stainless steel anode
   1 x Jig with 4 hooks

Installation

1. **Rhodium plating**

- Place the Rhodium-Machine RM*go!* on a solid underground
- Put in each 1000 ml beaker glass an expanded metal anode
- Plug-in the red cables into the red connectors
- Plug-in the black cable into the black connector
- Connect the **stainless steel anode** (electrolytic degreasing) with the flat connection of the red cable which is plugged in "DEG"
- Connect the **mixed oxide anode** (rhodium plating) with the flat connection of the red cable, which is plugged-in "RHO"
- Fill the prepared electrolytes (electrolytic degreasing JE610 and Rhodium JE88*go!*) in the 1000 ml beaker glasses
- Fill the both 600 ml beaker glasses with distilled water (for rinsing process)
- Clamp the black cable on the jig and hang your pieces on it

2. **Rhodium and gold plating**

   See point **1.** above and in addition as following

- Put in the third 1000 ml beaker glass another stainless steel anode
- Connect a further **stainless steel anode** (gold plating) with the flat connection of the red cable which is plugged in the first red cable on the "RHO" side
- Fill the gold electrolyte JE4xx in the third 1000 ml beaker glass
- Fill the third 600 ml beaker glass with distilled water (for rinsing process)

3. Gold plating

See point **1.** above and be aware of the following changes

- Connect a stainless **steel anode** (gold plating) with the flat connection of the red cable which is plugged in "RHO" - instead of a mixed-oxide anode
- Fill the gold electrolyte JE4xx in a 1000 ml beaker glass - instead of the rhodium electrolyte JE88

Process flow rhodium plating

1. Push the required time button (15 sec / 30 sec / or push both to get 60 sec)
2. Push the "***GO!***" button
3. Dip in electrolytic degreasing JE610
4. Rinse well in distilled water
5. Push the required time button (15 sec / 30 sec / or push both to get 60 sec)
6. Push the "***GO!***" button
7. Dip in rhodium electrolyte JE88 (time depends on the required layer thickness)
8. Rinse well in distilled water
9. Make the pieces dry

Process flow gold plating

1. Push the required time button (15 sec / 30 sec / or push both to get 60 sec)
2. Push the "***GO!***" button
3. Dip in electrolytic degreasing JE610
4. Rinse well in distilled water
5. Push the **15 sec** time button
6. Push the "***GO!***" button
7. Dip in gold electrolyte JE4xx
8. Rinse well in distilled water
9. Make the pieces dry

Please note

- Rinsing water should be changed regularly (frequency depends on the throughput)
- Rinse well, work clean and do not contaminate one chemical solution with another. Use for each electrolyte its own rinsing water
- Degreasing electrolyte should be changed regularly (frequency depends on the throughput)
- Rhodium electrolyte should not be contaminated by parts made of steel, aluminum or with tin solder or lead
- If rhodium electrolyte is worked out, it must be replaced
- Evaporation losses of the electrolytes must be compensated with distilled water

Available accessories

- Rhodium electrolyte JE88 (Art. No. 8822.1000)
- Color gold electrolyte JE400 – fine gold color (Art. No. 7782.1000)
- Color gold electrolyte JE411 – 14 ct. color (Art. No. 7804.1000)
- Color gold electrolyte JE421 – 18. ct. color (Art. No. 7806.1000)
- Color gold electrolyte JE431 – rosé color (Art. No. 7814.1000)
- Color gold electrolyte JE434 – red color (Art. No. 7807.1000)
- Electrolytic degreasing JE610 (100 g / Art. No. 356.100)
- Electrolytic degreasing JE610 (1,0 kg /Art. No. 356.1000)
- Mixed-oxide expanded metal anode for RMgo! (Art. No. 6616.0000)
- Stainless steel expanded metal anode for RMgo! (Art. No. 6610.0000)
- Jig with 4 hooks (Art. No. 6618.0000)
- Beaker 600 ml (Art. No. 820.0000)
- Beaker 1000 ml (Art. No. 823.0000)
- Lid for beaker 600 ml (Art. No. 9660.0000)
- Lid for beaker 1000 ml (Art. No. 7044.0000)
- Cable red for RMgo! (Art. No. 9756.0000)
- Cable black with clamp for RMgo! (Art. No. 9757.0000)

Technical data

- Case: Steelcase, acid-resistant coated
- Rectifier: Electrolytic degreasing 6 V/ 6 A - rhodium/ gold plating 3 V/ 3 A
- Nominal voltage: 230 or 110 volt/ 60 cycles

Safety instructions

- **Improper use, or use for other purposes than those described in the instructions, is not permissible**
- **Damages that result from improper and inappropriate use are not included in our warranty and no liability is assumed**
- **Please follow the usual instructions when dealing with chemicals and pay attention to the safety data sheets**
- **Place the Rhodium-Machine RMgo*!* on a level, firm and non-flammable ground**
- **Keep away from children or uniformed personnel**
- **Keep away from animals**