Armitage Tools Plating Machine Micro Agitator Instructions

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Product Information

The Digital Microagitator is a versatile agitator designed for electroplating applications. It comes with a digital meter and a 2 amp fuse DC inlet for safe and efficient operation. The agitator is equipped with a base unit, a motor shaft outlet with a crocodile clip, and a power lead for easy setup and usage.

Specifications

- **Power:** DC
- **Fuse:** 2 amp
- **Input:** Black 4mm socket
- **Maximum DC Power:** 2.00 amps

Product Usage Instructions

Set-Up

1. Fit the Digital Agitator to its base using the Velcro strip, ensuring the screw heads fit in the holes in the base unit.
2. Check that the crocodile clip is tightly fitted to the motorshaft outlet.
3. Plug the single lead into the black 4mm socket on the side of the unit, and connect the other end of this lead to the NEGATIVE output of your DC power supply. This connection is for your work pieces, not the anode.
4. Position the complete assembly over the tank, adjusting the AGITATOR stand or the tank if necessary. Ensure

that there is at least 25mm (1 inch) of space between the anode and the work piece.
5. Plug the power lead into a suitable socket (1 amp), switch on the power, and check that the motor shaft and crocodile clip are rotating. Switch off.

Processing

1. Electrolytically clean your items in the usual manner and rinse well in water.
2. Turn the DC power supply to zero.
3. Attach the item to be plated onto the crocodile clip, ensuring that it is fully submerged.
4. Switch on the power and adjust your DC power supply to the desired current (amps). Process for the necessary time to achieve the desired thickness.

Data

The following data provides approximate values for plating using this unit. Please refer to the data sheet for the specific solution you are using for more accurate information:

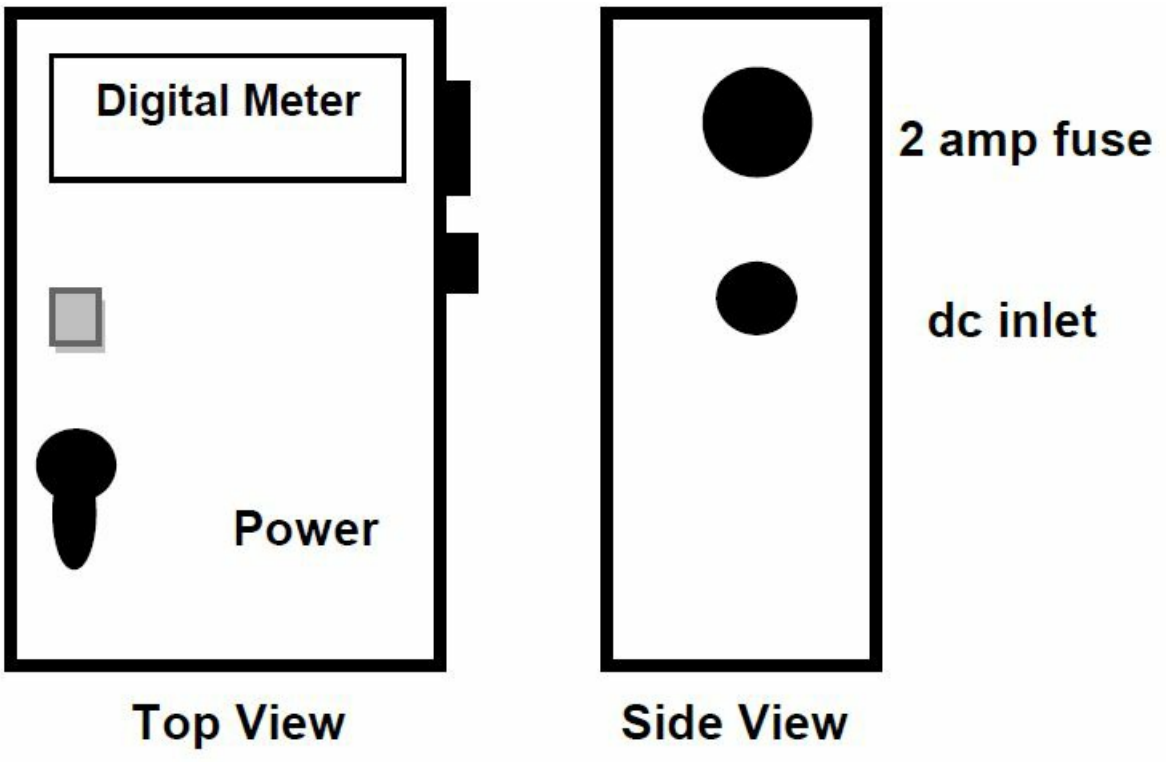
- **Silver Plate:** Current = 0.025 amps per square cm (0.15 A/Sq.inch), Plating rate = 1 micron in 90 seconds.
- **Hard Gold Plate:** Current = 0.008 amps per square cm (0.05 A/Sq.inch), Plating rate = 1 micron in 7 minutes.

When using small currents, ensure that you calculate correctly with respect to the decimal point. Do not exceed 2.00 amps DC power with this unit as a protection fuse is fitted.

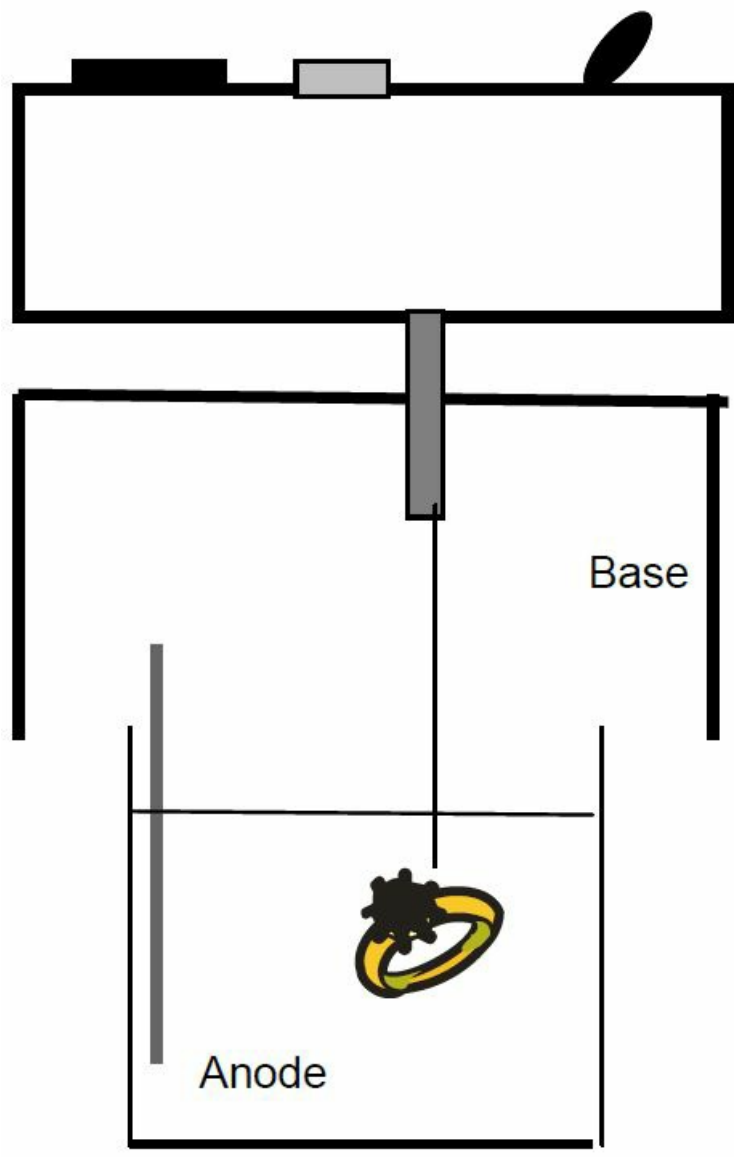
FAQ

- **Q:** Can I use this agitator for other applications besides electroplating?
  - **A:** No, this agitator is specifically designed for electroplating applications and may not be suitable for other purposes.
- **Q:** Can I adjust the speed of the motor shaft?
  - **A:** No, the speed of the motor shaft is fixed and cannot be adjusted.
- **Q:** What should I do if the motor shaft or crocodile clip is not rotating?
  - **A:** First, ensure that the power is switched on. If the issue persists, check the connection between the crocodile clip and the motor shaft outlet. Make sure it is tightly fitted. If the problem still persists, contact customer support for further assistance.

Product Overview


Digital Meter
Power
2 amp fuse
dc inlet
Top View
Side View

Set Up


Base
Anode

1. Fit the Digital Agitator to its base using the Velcro strip, ensuring the screw heads fit in the holes in the base unit.
2. Check the crocodile clip is fitted tightly to the motor shaft outlet.
3. Plug the single lead into the black 4mm socket on the side of the unit, connect the other end of this lead to the NEGATIVE output of your dc power supply. This is the connection that your work pieces connect to when plating, NOT the anode.
4. Locate the complete assembly over the tank, raising either the AGITATOR stand or the tank if necessary, position the motor shaft/ crocodile clip so that at least 25mm (1”) is between the anode and the work piece.
5. Plug the power lead into a suitable socket (1 amp), switch on And check the motor shaft/crocodile clip are rotating. Switch off.

Processing

1. Electrolytically clean your items in the normal way and rinse well in water.
2. TURN the dc POWER supply to zero.
3. Clip the wire holding the item to be plated onto the crocodile clip, ensuring the item is fully submerged.
4. Switch on the POWER switch and adjust your dc power supply to the correct current (amps). Process for the necessary time to obtain the thickness your require.

Data

These are approximate values, refer to the data sheet for the solution you are using.

- **Silver plate:** Current = 0.025 amps per square cm (0.15 A/Sq.inch)
  - Plating rate = 1 micron in 90 seconds.
- **Hard Gold plate:** Current = 0.008 amps per square cm (0.05 A/Sq.inch)
  - Plating rate = 1 micron in 7 minutes

You use small current, take care you calculate correctly with respect to the decimal point.
Do not exceed 2.00 amps dc power with this unit. Protection fuse fitted.

Contact

Engineering Limited

- **Registered office:** Unit Z, Hamstead Industrial Est, Austin Way, Great Barr, Birmingham, B42 1DU
- **Reg. No:** 1414313
- **VAT No:** 294 5870 13
- **Tel:** 44 (0) 121 358 1456
- **Fax:** 44 (0) 121 357 4159
- **Email:** info@balco.co.uk
- **Website:** www.balco.co.uk

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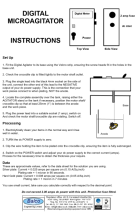	Armitage Tools Plating Machine Micro Agitator [pdf] Instructions Plating Machine Micro Agitator, Plating, Machine Micro Agitator, Micro Agitator, Agitator

References

- User Manual