

## Kwadron MACH-236

# Kwadron Equaliser™ Proton Rotary Pen Tattoo Machine User Manual

Model: MACH-236

## 1. INTRODUCTION

This manual provides essential instructions for the safe and effective operation, setup, and maintenance of your Kwadron Equaliser™ Proton Rotary Pen Tattoo Machine. Designed for professional use, this machine offers precision and reliability. Please read this manual thoroughly before using the device.

## 2. SAFETY INFORMATION

Adherence to safety guidelines is crucial for preventing injury and ensuring proper device function. This machine is intended for use by trained and certified tattoo professionals only.

- Always ensure the machine and all accessories are properly sterilized before each use according to industry standards.
- Use only compatible and high-quality power supplies and RCA cables.
- Disconnect the power supply before cleaning or performing any maintenance.
- Avoid exposing the machine to excessive moisture or liquids.
- Do not attempt to disassemble or repair the machine yourself. Refer to qualified service personnel.
- Keep the machine out of reach of children and untrained individuals.
- Wear appropriate personal protective equipment (PPE) during operation.

## 3. PRODUCT FEATURES

The Kwadron Equaliser™ Proton Rotary Pen Tattoo Machine is engineered for optimal performance and user comfort.

- **Pen-Style Design:** Ergonomic and lightweight for precise control.
- **Powerful Motor:** Equipped with a 5W motor for consistent performance.
- **Advanced Gear System:** Ensures reliable, quiet operation with minimal vibration.
- **Adjustable Needle Depth:** Allows for precise needle protrusion from 0 to 4.5mm.

- **Stroke Length:** Fixed 3.5mm stroke.
- **RCA Connection:** Standard connection for power supply.
- **Durable Construction:** Anodized aluminum frame.
- **Lightweight:** Weighs approximately 130g.
- **Cartridge Compatibility:** Compatible with all standard cartridge needles.

## 4. SETUP INSTRUCTIONS

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Follow these steps to prepare your Kwadron Equaliser™ Proton for operation.

1. **Connect Power Supply:** Insert the RCA cable from your power supply into the RCA port at the rear of the machine. Ensure a secure connection.
2. **Attach Cartridge Needle:** Gently push the desired cartridge needle into the machine's front opening until it clicks securely into place.
3. **Adjust Needle Depth:** Rotate the grip of the machine clockwise or counter-clockwise to adjust the needle protrusion. The depth can be set from 0 to 4.5mm.
4. **Sterilization:** Before connecting to power and beginning any tattoo procedure, ensure the machine and all components that come into contact with the client or ink are properly barrier-protected and sterilized according to professional hygiene standards.



Figure 1: Kwadron Equaliser Proton Rotary Pen Tattoo Machine. This image shows the overall design of the machine,

highlighting its pen-like form factor and the Kwadron Equaliser branding.



Figure 2: Angled view of the Kwadron Equaliser Proton machine. This perspective illustrates the grip area and the connection point for the cartridge needle.

## 5. OPERATING INSTRUCTIONS

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Once the machine is set up and sterilized, you can begin operation.

1. **Power On:** Connect your power supply to a suitable electrical outlet and turn it on. Adjust the voltage to your preferred setting.
2. **Begin Tattooing:** The machine is now ready for use. Apply the needle to the skin surface with appropriate pressure and technique.
3. **Monitor Performance:** Pay attention to the machine's sound and vibration. Consistent operation indicates proper function.
4. **Power Off:** After use, turn off your power supply and disconnect the RCA cable from the machine.

## 6. MAINTENANCE

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Regular maintenance ensures the longevity and optimal performance of your machine.

- **Cleaning:** After each use, carefully wipe down the exterior of the machine with a suitable disinfectant solution. Ensure no liquids enter the internal components. Do not immerse the machine in liquid.
- **Lubrication:** Periodically, apply a small amount of machine lubricant (specifically designed for tattoo machines) to the drive bar or moving parts as recommended by Kwadron. Avoid over-lubrication.
- **Storage:** Store the machine in a clean, dry, and sterile environment when not in use. Protect it from dust and physical damage.
- **Inspection:** Regularly inspect the RCA connection and the grip for any signs of wear or damage.

## 7. TROUBLESHOOTING

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If you encounter issues with your machine, refer to the following common problems and solutions.

Problem	Possible Cause	Solution
Machine not turning on.	Loose RCA connection, faulty power supply, or damaged cable.	Check RCA connection. Test with a different power supply or cable. Ensure power supply is on.
Excessive vibration or noise.	Loose cartridge needle, worn internal components, or insufficient lubrication.	Ensure cartridge is securely seated. Apply lubricant if necessary. If problem persists, contact support.
Needle not moving correctly.	Improperly seated cartridge, bent needle, or internal mechanism issue.	Re-seat or replace the cartridge needle. Do not force the needle. If issue continues, seek professional assistance.

For issues not listed here, or if troubleshooting steps do not resolve the problem, please contact Kwadron customer support or your authorized dealer.

## 8. SPECIFICATIONS

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- **Model:** Equaliser™ Proton
- **Model Number:** MACH-236
- **Brand:** Kwadron
- **Motor Power:** 5W
- **Stroke Length:** 3.5mm
- **Adjustable Needle Depth:** 0 - 4.5mm
- **Connection Type:** RCA
- **Machine Length:** 11.8 cm
- **Machine Diameter:** 25 mm
- **Weight:** Approximately 130g
- **Frame Material:** Anodized Aluminum
- **UPC:** 644287831478

## 9. WARRANTY AND SUPPORT

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For detailed warranty information, please refer to the documentation provided with your purchase or contact your authorized Kwadron dealer. Kwadron stands behind the quality of its products, and support is available for manufacturing defects.

For technical assistance or service inquiries, please contact the retailer from whom you purchased the machine or visit the official Kwadron website for customer support contact details.