

MAST TATTOO Racer Pro

MAST TATTOO Racer Pro Wireless Tattoo Machine

Model: Racer Pro

1. INTRODUCTION

The MAST TATTOO Racer Pro is an advanced wireless tattoo machine designed for professional artists. It features an innovative adjustable hit feel, a wide 3-140Hz frequency range, and a powerful Mcore-Pro motor, offering versatility for various tattooing styles including dotwork, realism, lining, and shading. This manual provides essential information for the safe and effective operation, maintenance, and troubleshooting of your Racer Pro machine.

2. SAFETY INFORMATION

- This device is intended for professional use only.
- Always ensure proper sterilization of all equipment and needles before use.
- Keep the machine dry and away from liquids to prevent electrical hazards.
- Do not attempt to disassemble or repair the machine yourself, as this may void the warranty and cause damage.
- Store the machine in a safe, dry place when not in use.

3. PACKAGE CONTENTS

- 1x Racer Pro Machine
- 1x Charging Cable
- 1x User Guide (this manual)

EXPAND WITH MAST ECOSYSTEM

Expand with MAST Ecosystem
Our commitment: Reducing carbon footprint
to combat global warming.



Image: The package contents of the MAST TATTOO Racer Pro, showing the machine, charging cable, and user guide neatly arranged in its box.

4. PRODUCT OVERVIEW

The Racer Pro is engineered for precision and comfort, integrating advanced technology into a compact design.

4.1. Key Features

- **Adjustable Hit Feel:** Mechanically adjust the 'give' from Soft to Hard for diverse tattooing needs.
- **Wide-Range Frequency:** Operates from 3Hz for precise stipple/dotwork to 140Hz for smooth lining.
- **Mcore-Pro Motor:** Delivers stable torque and power, ensuring consistent performance.
- **Ergonomic Design:** Optimized center of gravity reduces hand strain during long sessions.
- **HD Display:** 0.85" screen (213ppi) for clear real-time data visibility.
- **4.2mm Stroke:** An essential tool for smooth linework and solid color packing.
- **1520mAh Battery:** High-capacity battery for extended run time.

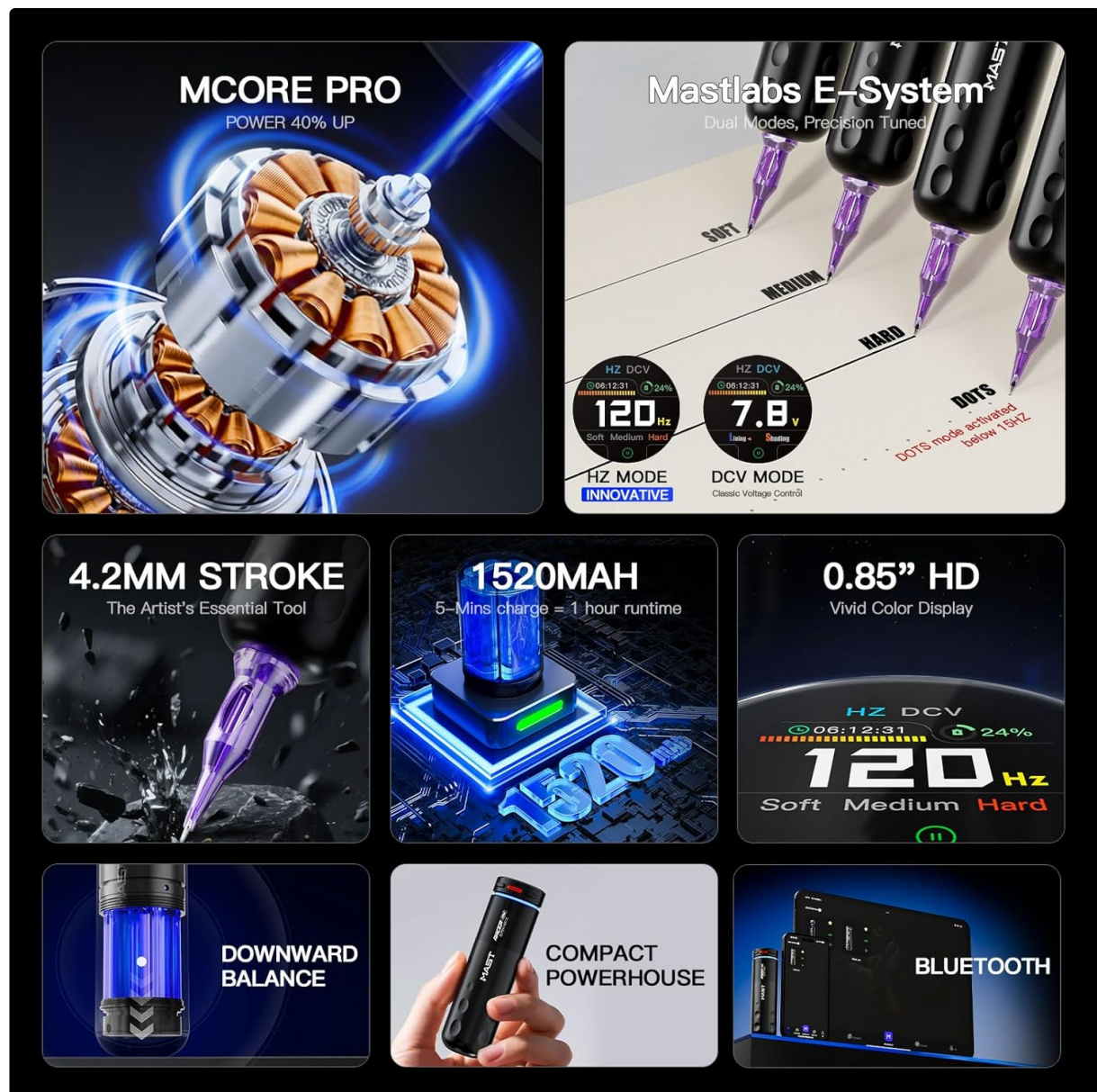


Image: A collage highlighting various features of the Racer Pro, such as the Mcore Pro motor, Mastlabs E-System, 4.2mm stroke, 1520mAh battery, 0.85 inch HD display, balanced design, compact size, and Bluetooth connectivity.

COMPACT AND ERGONOMIC DESIGN

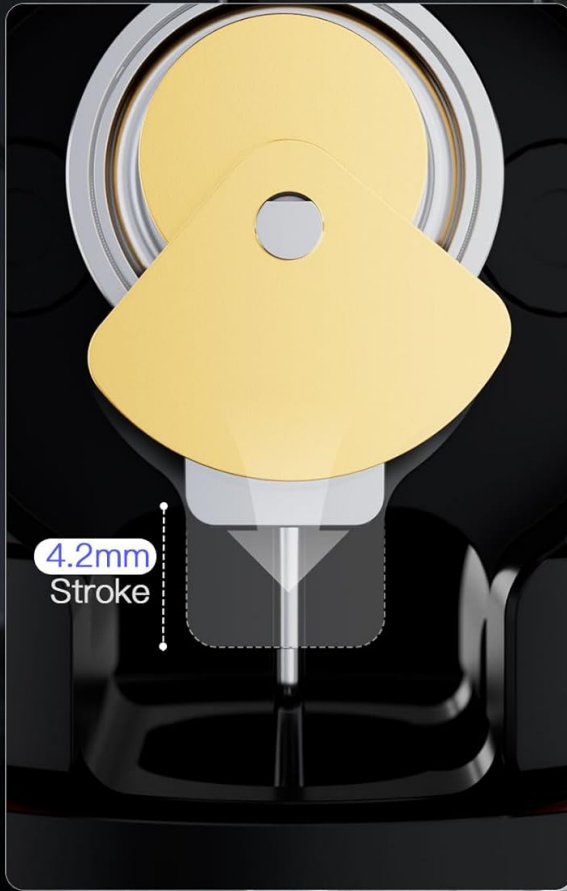
- Only 115mm tall, 33mm grip diameter and 170g light, combining all advanced functions in a compact frame. slim form factor for superior handling and reduced fatigue
- All-day comfort, zero wrist fatigue.



Image: Close-up view of the powerful Mcore-Pro motor, emphasizing its advanced engineering for stable performance.

4.2mm

4.2mm Stroke | The Artist's Essential Tool



MCORE Pro power + optimized
4.2mm stroke redefines excellence

Smooth linework & solid color packing

The new standard for demanding artists

RACER PRO
SUPER HERTZ

Image: Illustration of the 4.2mm stroke mechanism, showing the needle's movement for precise tattooing.

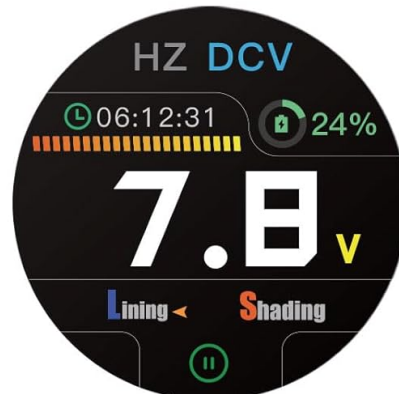
DUAL MODES PRECISION TUNED



HZ MODE

INNOVATIVE

- Maintains constant force at any speed (3–140Hz)
- Syncs needle motion to hand speed
Higher saturation success
- 3–stage force adjustment for all styles
(Portraits, Realism, Traditional, Color)



DCV MODE

Classic Voltage Control

- Simple operation,
explosive power at low voltage
- Full MCore Pro performance preserved

Image: The machine's display showing dual modes (Hz and DCV) with settings for Soft, Medium, and Hard hit, and frequency/voltage adjustments.

5. SETUP

5.1. Assembling the Machine

1. Ensure the machine is powered off.
2. Carefully attach the battery pack to the main body of the machine, aligning the arrows as indicated. Twist gently until securely fastened.
3. Insert your desired universal tattoo cartridge into the machine's grip.
4. Adjust the needle depth by rotating the grip.

Video: This video demonstrates the assembly and disassembly of the Mast Racer Pro tattoo machine, including how to attach the battery pack and install a needle cartridge. It also covers basic fault resolution steps.

Video: An overview of the Mast Racer Pro Cordless Tattoo Pen Machine, showcasing its design and various features relevant to setup and initial use.

6. OPERATING INSTRUCTIONS

6.1. Power On/Off

- To power on, press and hold the red power button until the screen illuminates.
- To power off, press and hold the red power button again until the screen turns off.

6.2. Mode Switching (Hz/DCV)

- Double-click the menu key (located next to the power button) to switch between Hz (frequency) mode and DCV (voltage) mode.

6.3. Adjusting Frequency (Hz Mode)

- In Hz mode, use the left and right buttons to adjust the frequency from 3Hz to 140Hz.
- Lower frequencies (3-15Hz) are ideal for stipple and dotwork.
- Higher frequencies (up to 140Hz) are suitable for smooth lining.

6.4. Adjusting Voltage (DCV Mode)

- In DCV mode, use the left and right buttons to adjust the voltage.
- The voltage mode is regulated by high and low voltage speed settings.

6.5. Adjusting Hit Feel (Soft/Medium/Hard)

- The Racer Pro allows mechanical adjustment of the 'give' from Soft to Hard. Refer to the on-screen indicator for the current setting.
- **Soft:** Recommended for delicate realism or bony areas to minimize trauma.
- **Hard:** Ideal for bold lines and efficient color packing.

6.6. Ambient Light Control

- Press the two adjustment buttons (left and right) simultaneously to cycle through ambient light colors or turn the light off.

Video: This video provides detailed usage instructions for the Mast Racer Pro tattoo machine, covering power, mode switching, and adjustments.

Video: A practical demonstration of the Mast Racer Pro in use by a tattoo artist, showcasing its performance during a tattooing session.

7. MAINTENANCE

7.1. Cleaning and Sterilization

- Always clean the machine thoroughly after each use.
- Use appropriate disinfectants and follow industry-standard sterilization protocols for all components that come into contact with skin or ink.
- Do not immerse the entire machine in liquid. Wipe down the exterior with a suitable disinfectant wipe.

7.2. Battery Care

- Charge the machine using the provided charging cable.
- Avoid completely draining the battery before recharging to prolong its lifespan.
- Store the machine with a partial charge (around 50%) if not used for extended periods.

7.3. Storage

- Store the machine in a cool, dry place, away from direct sunlight and extreme temperatures.
- Keep it in its original packaging or a protective case to prevent damage.

8. TROUBLESHOOTING

- **Machine not turning on:** Ensure the battery is charged. If fully charged, try resetting by holding the power button for 10 seconds.
- **Inconsistent power/stuttering:** Check if the needle cartridge is properly seated. Ensure the battery is not critically low.
- **Display issues:** If the screen is unresponsive or shows errors, try restarting the machine.
- **Battery draining quickly:** Ensure the machine is fully charged before use. Avoid operating in extremely cold conditions.

For further assistance, refer to the fault resolution video below or contact customer support.

Video: This video provides fault resolution steps for common issues encountered with the Mast Racer Pro tattoo machine.

9. SPECIFICATIONS

Motor	Mcore-Pro Motor
Frequency Range	3-140Hz
Stroke Length	4.2mm
Battery Capacity	1520mAh
Run Time	Up to 5 hours
Length	115mm
Diameter	33mm
Weight	170g
Display	0.85" HD Screen (213ppi)

10. WARRANTY AND SUPPORT

The MAST TATTOO Racer Pro Wireless Tattoo Machine comes with a manufacturer's warranty. Please refer to the warranty card included in your package for specific terms and conditions. For technical support, service, or warranty claims, please contact MAST TATTOO customer service through their official website or the contact information provided with your purchase.