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Dragonhawk Atom2 Pro · User Manual

SAFETY WARNINGS — READ BEFORE USE

> **■■ WARNING: This device is intended for use by licensed tattoo professionals or apprentices under supervision. Tattooing requires proper training, hygiene knowledge, and understanding of bloodborne pathogens. Using this machine without proper training may result in serious injury, infection, or health complications for both artist and client.**

Before using the Dragonhawk Atom2 Pro, please read and understand these important safety guidelines:

1. Always wear disposable gloves when setting up, using, or cleaning this machine.
2. Ensure the machine is properly sterilized before each use according to local health regulations.
3. Use only sterile, single-use cartridge needles from reputable manufacturers.
4. Do not share needles or cartridges between clients.
5. Do not operate the machine while charging or with damaged cables.
6. Keep the machine away from water and moisture. Do not immerse in cleaning solutions.
7. Always test the machine on practice skin before working on a client.
8. Store the machine in a clean, dry place away from children and pets.
9. If the machine overheats, vibrates excessively, or makes unusual noises, stop immediately and contact support.
10. This machine is for external tattooing use only. Do not use for any other purpose.

PRODUCT OVERVIEW



Dragonhawk Atom2 Pro with Smart Display and Detachable Battery

The Dragonhawk Atom2 Pro is a professional cordless tattoo pen machine designed for tattoo apprentices, beginners, and artists who need adjustable stroke versatility. Featuring a Mcore motor with kick-start function, the Atom2 Pro delivers consistent needle drive with minimal vibration.

Key Features

- **7 Adjustable Stroke Lengths:** 2.4mm to 4.2mm with 0.3mm increments for versatile technique switching

• **Dual Battery System:** Two 2000mAh rechargeable batteries included — swap and continue working with no downtime

• **Dual Mode Operation:** Use wirelessly (up to 7 hours per battery) or corded via RCA adapter

• **Smart Display:** Clear OLED screen showing voltage, battery percentage, and session time

• **Mcore Motor:** Reliable motor with kick-start function for instant high-voltage startup

• **Universal Compatibility:** Works with all standard cartridge needles regardless of brand

• **Lightweight Design:** 214g weight with ergonomic 34mm grip for comfortable extended use

TECHNICAL SPECIFICATIONS

Specification	Value
Machine Type	Cordless/Corded Rotary Tattoo Pen
Motor	Mcore Motor with Kick-Start
Stroke Length Range	2.4mm — 4.2mm (7 levels)
Stroke Adjustment Increment	0.3mm
Needle Depth Range	0 — 4.5mm
Battery Capacity	2000mAh (included: 2 batteries)
Battery Runtime	Up to 7 hours per battery
Charging Port	USB-C
Corded Connection	RCA adapter included
Display	Smart OLED Screen
Machine Weight	214g (7.5 oz)
Machine Length	139mm (5.5 inches)
Grip Diameter	34mm
Needle Compatibility	All standard cartridge needles
Operating Voltage	4V - 12V (adjustable)
Warranty	1 Year Limited Warranty

PACKAGE CONTENTS

Your Dragonhawk Atom2 Pro package includes the following items:

Item	Quantity
Atom2 Pro Tattoo Machine Body	1
Rechargeable Battery (2000mAh)	2
RCA Adapter for Corded Use	1
USB-C Charging Cable	1
User Manual (this document)	1
Carrying Case	1

Note: Always check that all items are present and undamaged before first use. Contact Dragonhawk support if any items are missing or damaged.

GETTING STARTED

Step 1: Charge the Batteries



Battery charging with USB-C connection

Before first use, fully charge both batteries:

1. Remove the battery from the machine by twisting it counterclockwise and pulling it out.
2. Connect the USB-C cable to the battery charging port.
3. Connect the other end to a USB power source (5V/2A adapter recommended).
4. The battery will charge from 0% to 100% in approximately 2-3 hours.
5. Both batteries are included — while one charges, you can use the other.

Step 2: Install a Cartridge Needle

The Atom2 Pro uses standard cartridge needles:

1. Ensure the machine is turned OFF.
2. Remove the protective cap from the cartridge needle.
3. Insert the needle cartridge into the front of the machine with a firm push until you hear or feel a click.
4. Twist the grip to adjust the needle depth (see Needle Depth section).
5. Always perform a needle protrusion test on practice skin before tattooing.

Step 3: Power On and Test

1. Press and hold the power button (bottom button on the control panel) for 2 seconds.

2. The display will light up, showing the current voltage and battery percentage.
3. Press the + or - buttons to adjust voltage (typically 7-9V for lining, 8-10V for shading).
4. Click the power button again to start/stop the machine.
5. Test the machine on practice skin before any client work.

OPERATING INSTRUCTIONS

Mode A: Wireless Operation

The Atom2 Pro operates wirelessly using the rechargeable battery:

1. Insert a fully charged battery into the machine.
2. Install the cartridge needle.
3. Adjust stroke length and needle depth as needed (see following sections).
4. Power on the machine using the power button.
5. Press the center button to start tattooing.
6. Monitor the battery percentage on the display. When low, swap with the spare battery.

> **■ Tip: Each battery provides up to 7 hours of continuous use. With two batteries included, you can work for extended sessions with no charging downtime.**

Mode B: Corded Operation (RCA)



RCA adapter for corded operation

When batteries are depleted or for consistent power supply:

1. Remove the battery from the machine.
2. Connect the included RCA adapter to the machine's battery port.
3. Connect your standard RCA tattoo power supply cable to the adapter.
4. Power on your external power supply and adjust voltage as needed.

5. The machine will operate using power from the cord — no battery needed.

> ■ Note: When using Rca corded mode, the voltage is controlled by your external power supply, not the machine ’ s buttons.

DISPLAY GUIDE



Smart display showing voltage, battery, and timer information

The Atom2 Pro features a smart OLED display showing the following information:

Display Item	Description
Voltage (e.g., '08.2v')	Current operating voltage in volts
Battery Icon (top right)	Battery percentage remaining
Play Button Icon	Machine running indicator
Timer (e.g., '00:00')	Session duration timer

Plus (+) Button	Increase voltage by 0.1V
Minus (-) Button	Decrease voltage by 0.1V
Power Button	Turn machine on/off

Voltage Settings Guide: Start with lower voltage and increase as needed. Typical ranges: Lining 7-9V, Shading 8-10V, Color packing 9-11V. Always test on practice skin first.

STROKE LENGTH ADJUSTMENT



7 stroke length settings: 2.4, 2.7, 3.0, 3.3, 3.6, 3.9, 4.2mm

The Atom2 Pro features 7 adjustable stroke lengths for different tattooing techniques:

Stroke Length	Best For
2.4mm	Fine line work, detailed lining
2.7mm	Standard lining, delicate work
3.0mm	General lining, small tattoos
3.3mm	All-purpose, good balance

3.6mm	Shading, medium work
3.9mm	Bold shading, color packing
4.2mm	Heavy shading, large fills

To adjust stroke length:

1. Ensure the machine is turned OFF.
2. Hold the machine body with one hand.
3. Rotate the adjustment ring (the middle section with numbers) to the desired stroke length.
4. Align the dot indicator with your chosen number.
5. Power on and test the stroke feel on practice skin before tattooing.

> **■■ Important: Always change stroke length while the machine is OFF. Changing stroke while running can damage the mechanism.**

NEEDLE DEPTH ADJUSTMENT

Needle depth determines how far the needle protrudes from the cartridge. Proper depth is crucial for clean lines and client comfort.

Adjustment Range

The Atom2 Pro allows needle depth adjustment from 0mm to 4.5mm.

To adjust needle depth:

1. Hold the machine body firmly.
2. Rotate the grip (the textured front section) clockwise to increase depth, counterclockwise to decrease.
3. Perform a needle protrusion test to check the depth.
4. Adjust until you see approximately 1-2mm of needle protrusion (typical for most work).

> **■ Needle Depth Guidelines: Lining: 1.0-1.5mm | Shading: 1.5-2.0mm | Color Packing: 2.0-2.5mm. Adjust based on skin type and area.**

BATTERY CHARGING & REPLACEMENT

The Atom2 Pro uses a dual battery system for maximum flexibility:

Charging Instructions

1. Remove the battery from the machine by pulling out.
2. Connect the USB-C cable to the battery's charging port.
3. Connect to a 5V/2A USB power source (phone charger, power bank, or computer).
4. Full charge takes approximately 2-3 hours.
5. Charge both batteries before a long session or at the end of each day.

Battery Replacement

1. When the display shows low battery (below 20%), power off the machine.
2. Twist the current battery counterclockwise and remove.
3. Insert a fully charged battery and twist clockwise to lock.
4. Power on and continue working immediately.

> **■ Pro Tip: Always have both batteries charged. When one runs low, swap in the spare and continue working. Charge the depleted battery during your next break.**

CLEANING & MAINTENANCE

Proper cleaning extends the life of your machine and ensures safe operation:

Daily Cleaning (After Each Use)

1. Power off and remove the battery.
2. Remove the cartridge needle and dispose of it properly (sharps container).
3. Wipe the machine exterior with a clean, slightly damp cloth with 70% isopropyl alcohol.
4. Never submerge the machine in liquid.
5. Clean the grip area thoroughly.
6. Dry completely before storage.

Weekly Maintenance

1. Inspect the machine body for cracks or damage.
2. Check the battery contacts for dirt or corrosion.
3. Ensure the adjustment ring moves smoothly.
4. Clean the RCA adapter contacts with alcohol if using corded mode.

Storage

1. Store in the provided carrying case.
2. Keep away from direct sunlight and extreme temperatures.
3. Store batteries at 50% charge for long-term storage.
4. Do not store batteries inside the machine for extended periods (weeks+).

TROUBLESHOOTING

Problem	Solution
Machine won't turn on	Check battery charge. Try different battery. Check battery is properly inserted.
Machine runs intermittently	Check battery charge. Clean battery contacts. Check needle cartridge is properly seated.
Excessive vibration or noise	Check cartridge needle is properly installed. Check for damaged needle. Reduce voltage.
Needle not moving	Power on machine. Press play button. Check voltage is above minimum (4V).
Battery won't charge	Check USB cable and power source. Clean charging port. Try different cable.
Display not working	Power cycle the machine. If still off, contact support. Machine may still work.
Machine overheating	Reduce voltage. Take breaks between sessions. Check for proper ventilation.
Stroke adjustment stuck	Ensure machine is OFF. Apply gentle pressure while rotating. Do not force.
RCA mode not working	Check RCA cable connections. Check external power supply is on. Check adapter is seated.
Battery drains quickly	Check for high voltage settings. Battery may need replacement after extended use.

If problems persist after trying these solutions, contact Dragonhawk customer support.

WARRANTY & SUPPORT

Your Dragonhawk Atom2 Pro comes with a 1-year limited warranty from the date of purchase.

Warranty Coverage

- Manufacturing defects in materials and workmanship
- Motor failure under normal use
- Electrical component defects

Warranty Exclusions

- Damage from misuse, abuse, or accidents
- Normal wear and tear
- Damage from improper cleaning or maintenance
- Damage from using non-compatible accessories
- Cosmetic damage that does not affect function

How to Make a Warranty Claim

1. Contact Dragonhawk support through Amazon messaging or email service@dragonhawktattoosupply.com
2. Provide your order number and date of purchase.
3. Describe the problem and troubleshooting steps attempted.
4. Include photos or video if possible.
5. Support will provide further instructions for return or replacement.

Customer Support

- **Website:** dragonhawktattoosupply.com
- **YouTube Tutorials:** youtube.com/@Dragonhawkofficial
- **Amazon:** Message Dragonhawk Tattoo seller through Amazon

Thank you for choosing Dragonhawk. We are committed to providing quality tattoo equipment and supporting artists at every stage of their journey.

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