



# ANIMATOR P90 PRO

Wireless Machine Pen

USER MANUAL



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## SAFETY NOTICE



## CLASS III SYMBOL

A Class III appliance is designed to be supplied from a separated/safety extra-low voltage (SELV) power source. The voltage from a SELV supply is low enough that under normal conditions a person can safely come into contact with it, without risk of electrical shock. The extra safety features built into Class I and Class II appliances are therefore not required. For medical devices, compliance with Class III is not considered sufficient protection, and further more-stringent regulations apply to such equipment.

## TECHNICAL DATA

|                     |                                   |
|---------------------|-----------------------------------|
| Input:              | 5V                                |
| Output:             | 4-10V                             |
| Power:              | 10w                               |
| Stroke:             | 3mm                               |
| Material:           | aluminum/matt                     |
| Battery:            | 1000MAh                           |
| Charging time:      | 2-3 hours                         |
| USB:                | 5V charger                        |
| Motor model:        | Coreless motor (Dimension: 17*22) |
| Speed:              | 11500RPM                          |
| Working time:       | 4-5 hours                         |
| Pen+battery weight: | 112g                              |
| Battery weight:     | 40g                               |
| Pen Size:           | 23*146mm                          |
| Charging port:      | Type-C                            |

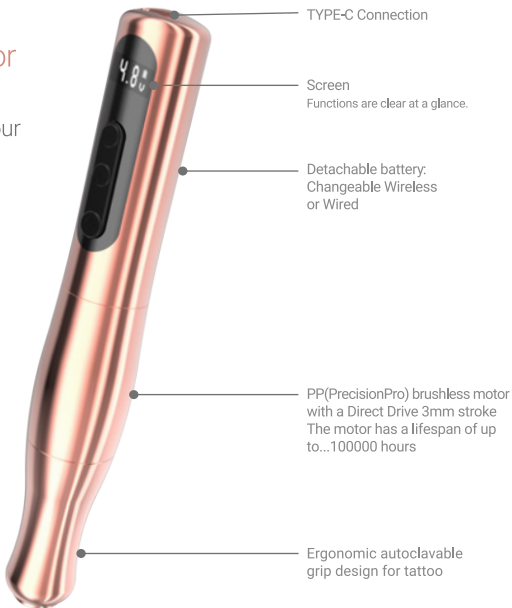


## BARRIER PROTECTING YOUR MACHINE

Although the grip is autoclavable, we strongly suggest the use of barrier products to protect your machine. For a visual demonstration of many barrier protection methods, please visit our YouTube channel [BIOMASER](#).

This machine is not to be used by person with reduced physical, sensory or mental capabilities, or lack of experience and knowledge. Keep machine out of reach of children without parental supervision.

## MACHINE OVERVIEW

Animator  
P90 ProUnleash your  
Power

Wireless pen-style machine featuring a detachable battery,  
and a whole new level of freedom.

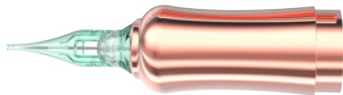
## THE GRIP



Animator P90 Pro Grip



Autoclavable Ergonomic Grip Design

Double handle design  
Compatible with most tattoo cartridges on the market

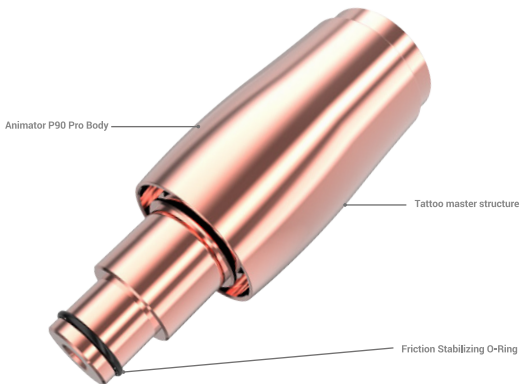
## THE GRIP

The Animator Grip allows artists ratcheting control over needle depth. The standard Grip has a diameter of 22mm. The Grip is crafted from a solid rod of 6061 T6 aircraft-grade aluminum. This polished and anodized grip is safe to be sterilized under steam, in an autoclave or sprayed with cold sanitation solutions.

## THE BODY



Animator P90 Pro Body



## THE BODY

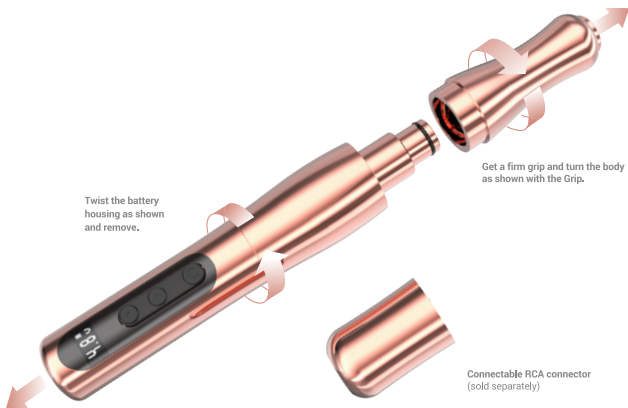
The body is the core of the machine. Constructed from a solid rod of aircraft-grade aluminum, Tattoo master structure, extreme stability, powerful output. This module should be sanitized by wiping it with cold sterilization solutions only.

**Caution: Avoid getting fluids into the housing**

## DETACHING THE BATTERY



Animator P90 Pro Battery

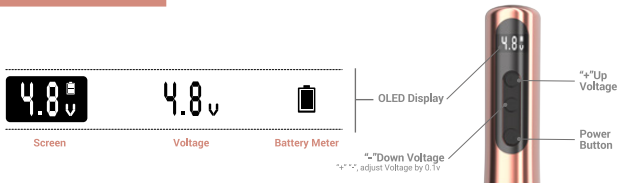


## DETACHING THE BATTERY

To detach your battery, ensure you have a firm grip on the Body and Grip. Turn the battery counter clockwise to attach the battery, push in while twisting clockwise. Ensure that locking mechanism moves freely. The battery must sit correctly to ensure that the power leads align. Avoid contact with the battery leads while recharging or servicing.

**Changeable wired power supply mode RCA connector.**

## CONTROL MENUS



**Battery power: 4 bars = 100%.**

When the battery power is **less than 5%**,  flashes.

**Charging:** When the device is turned on, connect the Type-C port to charge, the power flashes, and other displays remain unchanged.

When the device is turned off, connect the Type-C port to charge, the full-screen power display flashes, and the function cannot be used.

**Note:** ① For best results, please use the provided charging cable. Damage caused by charging with a voltage higher than 5V is not covered by the warranty.

② It is recommended to fully charge the battery before use.

③ If the device cannot be turned on for the first time, please charge it for 3 hours before turning it on.

④ If it is not used for a long time, please charge it once a month to avoid battery damage.

**ON&OFF:** Long press for 2 seconds startup.

**STOP&START:** Short press the power button to stop/start

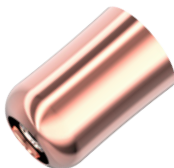
**SUSPENDED STATE:**

When the machine is paused, the voltage is displayed as 0.0 and returns to normal when restarted

## TYPE-C CONNECTION



Animator P90 Pro Battery

TYPE-C Connector  
5V chargerWith RCA Connector  
(sold separately)

## TYPE-C CONNECTION

This connecting terminal is compatible with most TYPE-C cables on the market. We recommend you use the included cable for recharging the battery.



TYPE-C cord

## CHARGING YOUR MACHINE



1 Plug the TYPE-C cord into the battery connector.

 Best connection

 Improper connection (not plugged in tightly)

## HOW TO CHARGE YOUR MACHINE

Plug the provided TYPE-C cable into the connector on the back of the battery. Make sure the cable is properly seated and **fully** inserted into the battery. The battery will not operate while charging. The TYPE-C connection is **only** for charging the battery.

**The intelligent chip prevents overcharging and ensures battery safety.**

## ADJUSTING NEEDLE DEPTH

Increases needle depth



Turning the grip as shown increases needle depth.

Decreases needle depth



Turning the grip as shown decreases needle depth.

ADJUSTING  
NEEDLE  
DEPTH

To adjust needle depth, hold the machine body and battery while turning the Grip. A counter clockwise turn decreases depth, while a clockwise turn increases depth (also known as needle hang). Each time you turn the grip you can feel the feedback of the ratcheting mechanism. Each "click" displaces your needle  $\approx 0.2\text{mm}$  and allows you to set your needle precisely without involuntarily turning.

## ADDITIONAL INFORMATION

### VOLTAGE PARAMETERS

While voltage is a parameter that will vary from artist to artist, this machine has been tested to operate at a minimum voltage of 3 Volts and a maximum voltage of 10 Volts. Depending on the type of needle configuration or brand you use, feel free to adjust the voltage to obtain the desired performance.

### ACCEPTED NEEDLES

Use only cartridge needles with an internal membrane. This will avoid accidental contamination inside your machine. Fluids such as ink, water or oil will void warranty of the device and may require replacement of internal parts.

### MAINTENANCE

- Animator P90 Pro is sold pre-lubricated from the factory and does not need internal lubrication.
- Prevent any type of external elements from entering inside the machine as they will disrupt the motion of the component and contaminate lubrication.
- The grip of the machine is autoclavable. Use only steam autoclaves at temperatures no higher than 270° Fahrenheit or 132.222° Celsius. Add a hint of ointment or PTFE grease around internal opening of grip or on stabilizing friction O-rings for optimal functionality after autoclaving. Refer to page 5 for additional information.
- Machine Body and Battery can be sanitized from the outside with cold sterilization products.
- Never spray the surface directly to prevent fluids from entering the machine. Always use pads or disposable paper towels to apply sterilization products.
- **DO NOT DISASSEMBLE MACHINE.**

### WARRANTY

- One year warranty from the date of purchase.
- Motor warranty is void if motor shows signs of being dropped, of internal fluids entering the motor, and/or if motor shows signs of being tampered in any way.

## ADDITIONAL INFORMATION

### HANDY TIPS

The following tips will help you get the most out of your Animator P90 Pro and avoid potential issues:

- Always secure your machine. Dropping the machine can cause damage to the magnets, bearings and brushes of the motor.
- Use only cartridges with membranes to avoid contamination.
- Rinse your needle frequently to avoid pigment drying up and slowing down your cartridges. When rinsing your needle, ensure to dip only the tip of the cartridge to avoid back flow of fluids.
- Inspect your needles prior to use.
- Avoid scratching the surface of the embodiments.
- Use only FDA-approved cold sterilization solutions for disinfection.
- Do not lubricate machine unless instructed otherwise.
- Store your machine in a secure place.

### TROUBLESHOOTING

#### 1.- Machine manufacturer

Hunan Biomaser Technology Co.,LTD  
Room101,Qingshan Village, Qingshanpu Town, Changsha, Hunan, China

#### 2.- Servicing your machine

Problem as follows are not covered in warranty:

- Damages due to wrong installation or operation.
- Incorrect personal maintenance, change or modification of the machine.
- Damages due to water, accident or natural disaster.
- Superficial damages which do not interfere with the normal operation of the machine.

#### 3.- Warning

Disconnect machine from any power before making any adjustments.

If you have any questions about the machine please contact the dealer in time.

For additional tips and tutorials, please visit Biomaser's  @biomaserofficial