



## V1 series Users Manual

### Important!

1. The Valkyr is designed to push cartridges, not to run empty. Do not leave the machine running without a cartridge installed. Never change cartridges with the machine running.
2. Do not allow cleaning fluids to enter the machine either by spraying, or by wiping with an excessively wet wipe.
3. When cleaning the cavity around the plunger bar you must be certain that you do not use too much disinfectant on the swab. Before you clean the cavity you should wet the swab, then dab it on a piece of paper towel to soak up excess disinfectant so that it is only damp, not wet.
5. Never internally lubricate the machine. Damages due to lubrication are not covered by warranty. The only thing you may want to do (your preference) is dab a little oil/grease/ointment on the O-ring which makes contact with the grip.
6. Never operate without the protective O-rings found to either side of the stroke adjustment ring. They keep the inside of your machine clean.

### Voltage

7.0 volts – 10.5 volts

Lower voltage = Softer hit AND fewer punctures per second

Higher voltage = Harder hit AND more punctures per second

### Stroke Adjustment (Hit Intensity)

The Valkyr has 5 strokes to choose from: 1.9mm, 2.2mm, 2.6mm, 2.9mm and 3.2mm. Simply twist the ring to select.

Shorter stroke = Softer hit

Longer stroke = Harder hit

### Needle Protrusion

-Rotate the grip to increase or decrease.

-If you want to maintain a constant protrusion you will need to make minor grip adjustments after changing the stroke.

### Putting it all Together

-If you like your speed but need more hit, switch to a longer stroke.

-If you like your speed but need to hit softer, switch to a shorter stroke.

-If you want to move faster but don't want your machine to hit too hard when you increase voltage, switch to a shorter stroke and increase voltage

-If you want to move slower but don't want your machine to hit too soft when you decrease voltage, switch to a longer stroke and decrease voltage

### Cartridges

Most cartridge brands fit well but not all brands are the same size and so you may notice some brands being tighter than others.

We recommend using cartridges with protective membranes to limit back-flow. The Valkyr is highly resistant to back-flow so if we find ink in a machine we know it was used improperly. Warranty does not cover damages due to ink inside a machine.

Membrane/spring pressure on cartridges can vary from brand to brand. Stiffer membranes may require slightly more voltage than softer membranes, from +0.5v to +1.0v.

### Bagging

There are many ways to place a barrier around a pen machine but the thing you want to try to do is to attach your barrier so that you can still make adjustments to both the stroke ring and the grip.

### Support

Noise or high heat are signs of malfunction. If you believe you have a problem with your machine, don't hesitate to contact us.

[axysrotary.com](http://axysrotary.com)

[support@axysrotary.com](mailto:support@axysrotary.com)

855-955-2997

9-5 EST, M-F

Thank you for your support, enjoy your craft.