



## SLIDE 2 Series Tattoo Machine

The **SLIDE 2** Tattoo Machine is another Original Swashdrive Innovation built specifically for the Tattoo artist. We at Swashdrive™ have been pioneering and refining different & unusual technologies in Tattoo machinery since 1993. The SLIDE 2 is a refinement of our original Slide machine with our added ball track scotch-yoke technology. We thank you for supporting original Swashdrive Tattoo machinery.

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### Brushless motor characteristics

The new brushless motor that powers the Gen8 machine is a whole new technology in small DC powered motors.

**Startup** voltage is at **9.0volts**, this is minimum voltage to power the electronic circuit board that controls the motor. Please do not worry the machine will not overheat at these voltages. If you note the current draw is very low at 9.0 volts, ie 9.0V @ 0.10 Amp is only 0.9Watt, and at 20Volt with 0.5 Amp will deliver a massive 10 watts of power !

**Motor spool up** may seem slow at first, but this is all part of its electronic programming to ensure a softer ramping up of motor acceleration up to desired RPM, this is very different to the typical brush motor !

The new brushless motor also has an internal **governing function**, this will hold a very accurate speed setting (RPM) as load varies during operation. No more computer contamination creating motor surging.

There is also an **overload cut out** to prevent possible motor destruction, in the event of a lockup or overload situation the motor will trip out and reset after 3 seconds then try to restart.

Terminal connection of the brushless motor is **polarity sensitive +-**  and so the motor **will only operate in one direction!**

**If your machine does not run out of the box, first check**

- 1 the power supply is set above 9 volts**
- 2 the power cord is connected in the correct polarity + -**
- 3 Your power supply is not PWM**

### Operating Voltages

9.0 Volt Start up will deliver 2000 rpm or 33 CPS

11 Volt 3000 rpm / 50 CPS

13 Volt 6000 rpm / 100 CPS

16 Volt 9000rpm / 150 CPS

### Max RPM @ 22VOLT

**DO NOT OPERATE with PWM switch mode type Power supplies as the internal electronics of the brushless motor has its own PWM controller and therefor a conflict may arise or the motor may not even operate.**

**USE ONLY LINIER type Supplies to power this machine (VOLTAGE REGULATED)**

**Operating this SLIDE 2 with PWM supplies will invalidate the warranty !**

### LINIER SLIDE

The linier slide Contains free moving ball bearings, In the event you need to remove the Linier slide,

Do so inside a plastic bag !

If not the balls will depart in all directions rendering the machine useless !

### Give Adjustment

There is **None**, this machine is **RIGID** with no give.

Do not try to use the armature weights that are used on our G8 & Whip machines, it will destroy the linier slide.

### Lubrication

Should not be required, there is a factory grease installed for breaking in of the machine and the material used in the linier slide is self lubricating

### Armature up Spring

Has been added to the Slide 2 so in spool down the needles with stop in the up position to stop any needle snagging.

### Needle bar tensioner

Is not required as there is a bar clip located on the bottom of the linier slide to take 1.6mm (1/16) needle bar. We have found some Asian needle bars can be 1.5mm dia and so may not fit tight and become detached during operation, if this is the case then we suggest adding a small tear of paper around the bar before clipping in !

### Tube Chucking System

The tube chucking lock works as guillotine type to accommodate tubes of standard 8.0mm (3/8) and so needles may be loaded into tube before insertion into machine chuck. it has been designed so very light tightening of the nut is required for very strong tube clamping ! Note No more than 1/2 turn tension should be put on the tube clamp, do not use tools to tighten, **hand tighten only !**

### Warranty

The Swashdrive™ SLIDE 2 Tattoo machine has a **Six month warranty** from date of purchase. To which Swashdrive™ Developments will repair the manufacturing fault of the machine free of charge. However We do not cover return postage costs. Disassembly of the machine may invalidate your warranty. Original Purchase invoice with **date of purchase** must be provided to us for any warranty claim.

### Disclaimer

Swashdrive™ Developments **warrantees** the manufacturing quality of the Swashdrive™ SLIDE 2. But under no circumstances will Swashdrive™ Developments in any way be liable for any injury, infection or quality of any tattoo of any persons the Swashdrive™ machine is used on. That is the sole responsibility & liability of the Artist / Owner of the Swashdrive™ Tattoo machine.

**Please visit [www.swashdrive.com.au](http://www.swashdrive.com.au) for further info & support**