



INSTRUCTIONS FOR USE

VLS 7400 TPLO SAW

904.436.6540

vetimplants.com

sales@vetimplants.com

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VLS 7400 TPLO SAW & ATTACHMENTS



- VLS 7400..... Linear TPLO Saw with Cap
- VLS 7400-01 Battery Pack - NiMH DC 9.5 V
- VLS 7400-02..... Charger for Linear TPLO Saw
- VLS 7400-03..... Set screw for TPLO Saw Blade
- VLS 7400-04 Transfer Kit
- VLS 7400-05..... 2.5mm L Shaped Hex Wrench, Stainless Steel
- VLS 7400-06..... Anodized Case for TPLO Saw Kit

INTRODUCTION

- Only medical professionals who are thoroughly familiar with the handpiece's function, application and instructions for use should operate any VOI surgical handpiece.
- Read operating manual carefully before using this product.
- Proceed in accordance with the information provided in this operating manual.

WARNINGS

DO NOT AUTOCLAVE BATTERY. REMOVE BATTERY FROM BASE PRIOR TO STERILIZATION

- Always inspect the components before and after use for identifying any damage. Do not use the handpiece until it is repaired or replaced if damage is observed.
- If the handpiece does not function properly, it should not be used until all the necessary repairs have been made and the main unit is tested to ensure that it's function is in accordance with VOI specifications.
- Verify the handpiece and attachments are sterilized prior to use. Do not use if not sterilized.
- All service must be performed by VOI authorized personnel.
- This medical device is a professional medical instrument. User must be a trained professional.
- The saw blade should be fixed to the main unit tightly. Please see "Operation and Use" for proper instructions
- Saw blade should remain sharp. Replace if blade is dull.
- Attachment should be fixed and no axial movement before the objective is cut. Replace immediately if the saw head is broken.
- The battery should not be disinfected on high temperature and/or high pressure. Do not let the battery sit in the main unit for an extended period of time. Pull out the battery immediately if there is something wrong with the power during use.
- When disposing of the handpiece battery, ensure it is disposed properly in a certified recyclable container. Do not expose battery to an open flame.
- Stop using this device immediately if the main unit is too hot or has an abnormal sound. Contact VOI's repair department for service.
- Motor rotating rate: Handpiece speed should not exceed 16000r/min.

For service or repair, visit vetimplants.com/repairs to initiate a repair service.

PRODUCT CONFIGURATION

VLS 7400 TPLO Saw is composed of a main unit, charger and battery. The main unit is completely sealed and the charger should not be used for any other medical instrument.



Fig 1. Structure of main unit

1. Oscillating head 2. Running switch 3. End cover

OPERATION AND USE

Installation and disassembling of the hub and blade

Lock the hub and blade assembly firmly into place with the hex screw. Ensure the blade being used is sharp. Remove the hub and blade prior to sterilization.

Installation and dissembling of battery

Installation:

Step1: After saw has been sterilized, turn the end cover counter clockwise to remove and install the battery shield.



Step 2: Put the battery into the main unit and remove aseptic shield.



Step 3: Install end cover. Align the two points between the main unit and end cover, then turn the end cover clockwise to lock.



Disassembling:

Step 1: To unlock, rotate the end cover counterclockwise and remove.



Step 2 : Take out the battery.



Step 3: Replace end cover and lock



CHARGING THE BATTERY

- The 'power' and 'charging' LED lights will both be illuminated if the charger is connected to the power supply.
- The 'charging' LED will change from green to red if a battery is inserted into the charger. This means that the battery is charging.
- The LED will change from red to green after 3 hours, indicating that the charging process is completed.
- The battery should not be used immediately after charging. It should be allowed to cool down first. The charged battery can be used at full load for no more than 8 minutes.
- The battery should be charged approximately every 15 days if the saw is not going to be used on a regular basis.

Normally the battery can be charged and discharged approximately 150 times. After the charger is connected to the power supply, the LED turns green, meaning the capacity is full.

Note: Explosion hazard if batteries are exposed to flames. Properly dispose of used batteries.

SAFE AND WORKING MODE

The switch has a self-locking function. It has two modes: working mode and safe mode.

Safe mode (Locked):

To put the saw in safe mode, turn the switch clockwise 90°. The saw is now locked. The switch cannot be pressed and the saw will not operate.



Working mode:

Turn the switch 90 degrees counter-clockwise (as in Figure 8 below). The saw will now run when the switch is pressed. The actual speed is controlled by how far the switch is depressed. Gentle pressure means low speed, and firmer pressure will result in higher speed.



CLEANING AND STERILIZATION

Cleaning:

Wipe all surfaces of the saw with a cloth dampened with a neutral enzymatic cleaner (pH 6.0 - 8.0). Dry thoroughly.

Sterilization:

NOTE: It is recommended that when sterilizing, you should do so with the Battery Cap removed.

These sterilization guidelines are only recommended guidelines and may vary among hospitals depending upon the type of sterilization equipment and possible pathogens. These guidelines represent exposure time and not total cycle time. The recommended sterilization parameters may be modified based on standard hospital sterilization protocol.

Method	Temperature	Time	Dry Time
Quick, wrapped	129°C ~ 134°C	10 min	8 min
Vacuum, wrapped	129°C ~ 134°C	4 min	8min
100% ethylene oxide, wrapped	49°C ~ 57°C	150 min	Venting 8 hours
270F steam, wrapped	129°C ~ 134°C	35 min	8 min
250F steam, double wrapped	121°C ~ 123°C	50 min	8 min

TECHNICAL SPECIFICATIONS

Total length (mm)	290
Diameter (mm)	55
Weight (kg)	0.9
Working voltage	9.6
Output power (W)	90
Oscillation rate (r/m)	16000 +/- 10%
Classification	Class II, Type B

TECHNICAL SPECIFICATIONS: CHARGER

Input voltage	AC 220V, 50Hz
Output voltage	9.6V
Charging time	About 3 hours
Battery voltage	9.6V

OPERATING ENVIRONMENTAL REQUIREMENTS

Temperature	+10°C to +40°C
Humidity	30% to 75% RH

TROUBLESHOOTING

Problem	Possible Cause	Solution
The saw does not work	No charge in battery	Check the battery prior to use. Replace with a fully charged battery if needed ⚠ DO NOT AUTOCLAVE BATTERY
The saw works only for a short time or lacks power	Trouble with battery	Check the battery prior to use. Replace with a fully charged battery if needed. ⚠ DO NOT AUTOCLAVE BATTERY
The blade does not cut well	Dull blade	Check the blade prior to use. Replace with a new blade if needed.

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