

Vet Power

A Movora Brand

TPLO GEN II SAW

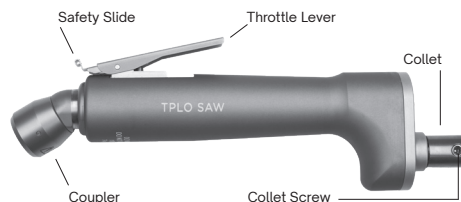
INSTRUCTIONS FOR USE

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Section 2 Specifications

Movora Gen II TPLO saw hand piece is designed specifically for Tibial Plateau Leveling Osteotomy (TPLO) procedure in medium to large size animals. It is a direct lineage of the VOI TPLO Gen I with tactile feels and service life as the evolved traits. It requires proper training to operate and reprocess. It is critical that the operator to adhere to the operating and maintenance protocols in this manual for the safety of the patient and staff, and for the reliability of the saw.

FIGURE 1



Saw Type	Oscillating
Speed	16,000 cpm nominal
Operating Pressure	90 psi - 110 psi (6.3 -7.7 kg/cm²; 6.2-7.6 bar)
Consumption	13 cfm (0.37 cmm) maximum
Operating Temperature	105°F (40°C) Maximum
Overall Diameter	1.25 in (3.18 cm)
Overall Length	8.50 in(21.60 cm)
Weight	1.20 lbs (19.2 oz)
Power Source	Nitrogen, Medical Grade Compressed Air
Lubrication	No Lube

Section 3 Pneumatic Supply Hose

- Use Movora Hall University style hose
- Increase operating pressure by 01 psi for each additional foot of hose length beyond the standard 10 feet
- Use the same cleaning and sterilization protocols as the saw

Section 3 System Set Up

Warnings

- Inspect the hand piece and peripheral devices for damage
- Never use malfunctioning, damaged or suspected-to-be damaged hand piece
- Hand piece shall be always in SAFE mode during set up and idling period
- Sterility validation, proficiency of use, and use of personal protective equipment are the sole responsibilities of the institutions

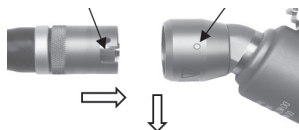
Cautions

- Setting operating pressure above 110 psi will cause mechanical damages to the hand piece
- Do not start surgical procedure if power source is below 500 psi (35.2kg/cm²; 34.5 Bar)
- Ensure that power supply hose is not being restricted
- Use only Nitrogen gas or medical grade compressed air as power sources
- Inspect power source for proper operating pressure setting, 90 psi to 110 psi
- Ensure that the hand piece is unobstructed by all peripheral devices
- During use, be aware of unusual chattering noises, inconsistent speed, and temperature rise

- Connect the male Schrader connector of the pneumatic supply hose to the power source ***MAY REQUIRE HOSE TO REGULATOR ADAPTOR OUTSIDE OF THE USA**
- Connect the hose to the hand piece by aligning the female connector's receptacle slot to the hand piece coupler pin. Then push the connector into the coupler and turn clockwise to secure (Figure 2)
- Open the blade locking screw using a 1/8 (0.125 in) hex wrench by rotating counterclockwise
- Insert the proper blade assembly and securely lock in place by tightening the blade locking screw fully clockwise

Section 3 Continued Instructions

FIGURE 2



Section 4 Operating Procedure

- **SAFE Mode:** Select by moving the safety slide black toward the hose connector end of the hand piece until **SAFE** is shown (figure 3)
- **ON Mode:** Select by moving the safety slide toward the collet end of the hand piece until **ON** is shown (figure 3)
- Select ON mode and depress the throttle lever to operate
- Operate the hand piece without load before the procedure for approximately 30 seconds to check for rapid temperature rise and to assure that the blade is securely retained

FIGURE 3



Section 6 Sterilization Recommendations

Cautions

- Do not use any other sterilization method besides the recommendations.
- Do not overcrowd the sterilization container.
- Do not force cooling the hand piece after sterilizing by using any cooling medium such as cool liquid, cool wet towel, and freezer. Force cooling causes condensation and leads to corrosion. Instead, use a bench top fan to speed up cooling.
- Drying times are extremely important for reliability and durability of the hand piece. Additional drying time required if the hand piece is not completely dried.

Section 7 Troubleshooting Guidelines

Symptom

Hand piece lacks power or does not run:

Potential Cause:

- Incorrect Operating Pressure
- Hose connections not installed correctly
- Tank pressure below 500 psi
- Throttle safety slide in SAFE position
- Pneumatic supply hose pinched
- Regulatory malfunction
- Tank valve not opened fully
- Internal malfunction

Recommendation

- Check air supply and output pressure
- Check hose connection
- Replace tank before using saw
- Ensure proper setting of safety slide
- Inspect hose and remove restriction
- Replace regulator and retest the saw
- Completely open tank valve
- Send hand piece in for repair

Symptom

Hand piece overheats:

Potential Cause:

- Incorrect Operating Pressure
- Mechanical failure

Recommendation

- Set operating pressure between 90 psi and 110 psi
- Send hand piece in for repair

Symptom

Blade will not install:

Potential Cause:

- Collet screw not back out easily
- Debris in collet cavity
- Blade hub damaged

Recommendation

- Unscrew the collet screw
- Remove debris
- Send blade hub in for repair

Symptom

Gas leaks:

Potential Cause:

- Defective pneumatic hose
- Defective hand piece control valve

Recommendation

- Send hose in for repair
- Send hand piece in for repair

Symptom

Hose does not fit:

Potential Cause:

- Hose or hand piece connectors are out of round

Recommendation

- Send hose or hand piece in for repair

Symptom

Safety side hose stuck:

Potential Cause:

- Corrosion
- Dent

Recommendation

- Add one drop of lubricant to safety slide
- Send hand piece in for repair

Section 5 Cleaning Instructions

Cautions

- Do not immerse the hand piece and hose in any type of fluids.
- Do not drop, throw, or hit the hand piece against any surface or other object.
- Do not lubricate the hand piece. Lubricant will damage the motor and bearings, and cause grease sludge to disperse during surgery.
- Do not disassemble the hand piece. The hand piece is not field serviceable.
- Do not use cleaning solutions besides enzymatic detergent. Other detergents will corrode internal components of the hand piece.
- Avoid fluids from entering the hand piece coupler end and hose connectors.

Instructions

- Cleaning is recommended to be conducted immediately after the surgical procedure to avoid bio-materials from binding and invading the hand piece surface and crevices.
- Delayed cleaning time is 2 hours maximum. Spray enzymatic foam detergent on the hand piece and hose. Cover with a moist lint free towel until cleaning.
- Remove blade, but keep the hose on, before cleaning. The connected hose serves as a seal to prevent fluid from entering the coupler of the hand piece.
- Rinse the hand piece and hose under running water to remove as much bio-materials as possible.
- Apply enzymatic detergent on the hand piece and hose. Scrub with a lint free towel to remove all bio-materials. Repeat as needed.
- Detach the hose from the hand piece and wipe both with a clean lint free towel.
- The hand piece and hose are not ready to be sterilized.

Parameters

Steam Sterilization Method	Temperature
Pre-Vacuum	270°F - 272°F 4 MINUTES OF MAXIMUM EXPOSURE TIME AND 8 MINUTES OF MINIMUM DRYING TIME
(Wrap or Unwrap)	132°C - 133°C
Gravity Air Displacement	270°F - 272°F 40 MINUTES OF MAXIMUM EXPOSURE TIME AND 8 MINUTES OF MINIMUM DRYING TIME
(Wrap or Unwrap)	132°C - 133°C

Section 8 Warranty

Movora warrants that the instrument delivered to the customer is free of defects and passed all quality insurance tests when left from the factory.

Transaction Type
New Purchase

Warranty Period
One (1) year of part and labor from date of shipment

Repair Service

Six (6) months of applicable part replaced, and applicable labor performed from date of shipment

Warranty Exclusions: Use of the instrument other than the intended use. Abuse of instrument such as dropping, improper maintenance, and tampering.

Service and Ordering Information

To Order:

Please place your order by contacting your local sales representative or by visiting movora.com.

For Service or Repair:

Please obtain your **RMA Number** by contacting your local sales representative or at movora.com!