

Vet Power

A Movora Brand

OmniOS

BATTERY-POWERED SURGICAL POWER TOOL SYSTEM ATTACHMENTS

INSTRUCTIONS FOR USE

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Purpose of Use

This instrument is used to perform implant operations by delivering the rotational force of medical handpieces. Dental uses are excluded.

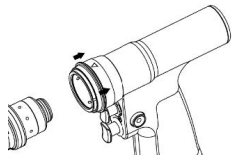
Method of Use

1. Preparations Before Use

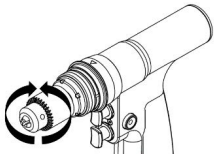
1.1. Warning: This product is an exclusive attachment for OmniOS Handpiece. Do not attach to other handpieces or use for unintended purposes.

1.2. Connection of Attachment and Handpiece

1.2.1. Pull the head holder of the handpiece and insert the attachment into the correct position. Here, make sure to align the top arrow of the handpiece with the attachment groove on a straight line.



1.2.2. If the head holder does not return to the original position with a clicking sound, rotate the attachment until the holder returns.



1.2.3. Grab the attachment with a hand and shake to check that it has been fixed in place.

1.2.4. When changing the angle of the attachment, rotate the attachment while pulling the head holder of the handpiece.

2. Product Overview and Name/Structure of Each Part and Accessory

2.1. Product Overview

2.2. Name and Model of Each Attachment

Type	Model	Structure	Spec
Drill	Jacobs Type	VPD1-JDA	1,200 RPM
	Universal Type	VPD1-UDA	
	Large AO Type	VPD1-LAODA	
	Small AO Type	VPD1-SAODA	
Reamer	Universal Type	VPD1-URA	380 RPM
	Jacobs Type	VPD1-JRA	
	Large AO Type	VPD1-LAORA	
Wire Pin Driver	VPD1-WPDA		1,200 RPM (usable wire size: Ø0.7mm - Ø4.0mm)

Oscillating SAW	VPD1-OSA		12,000 CPM
Reciprocating Saw	VPD1-RSA		
TPLO Saw	VPD1-TPLOA		

2.3 Components

Type	Model	Structure
Wrench (TPLO Attachment)	VPD1-TPLOW	

3. How to Use

3.1. Jacobs Attachment

3.1.1. Connecting Device

- 1) Use the chuck key to open the chuck.
- 2) Insert the attachment into the center of the chuck
- 3) Use the chuck key to close the chuck.
- 4) Check with unaided eyes to make sure that the attachment is at the center of the chuck.
- 5) Before operating the handpiece, pull the device to check that the device has been fixed in place.

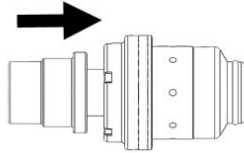
3.1.2. Removing Device

- 1) Use the chuck key to open the chuck.
- 2) Remove the device.

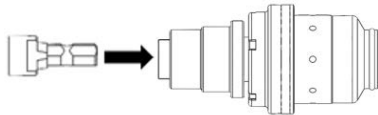
3.2. Reamer/Drill Attachment

3.2.1. Connecting Device

- 1) Push the coupler handle back.



- 2) Insert the device to the attachment.



- 3) Let go of the coupler handle.

- 4) Before operating the handpiece, pull the attachment to check that the attachment has been fixed in place.

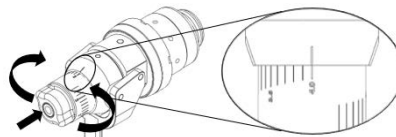
3.2.2. Removing Device

- 1) Push the coupler handle back.
- 2) Remove the device from the attachment.
- 3) Let go of the coupler handle.

3.3. Wire-Pin Driver Attachment

3.3.1. Inserting Wire or Pin

- 1) Turn the pre-adjustment lever to fit the gradation appropriate for the wire or pin diameter. After aligning, check that the pre-adjustment lever is fixed in place. (Note: If it is difficult to turn the pre-adjustment lever, press the lever lightly in the direction of the handpiece.)



- 2) Insert the wire or pin into the wire pin driver or through the back of the handpiece until the wire or pin is extended to desired length. Before tightening the wire pin handle, check whether the wire or pin has been inserted to sufficient depth as to fix the wire or pin in place.
- 3) Tighten the wire pin handle to hold the wire or pin.
- 4) Rest the wire or pin on the bone frame and press the handpiece trigger to let the wire or pin get into the bone.
- 5) If necessary, take the following procedure to get additional wire or pin length.
 - 1) Loosen the wire pin handle.
 - 2) Pull the handpiece back to extend the wire or pin length.
 - 3) Tighten the wire pin handle.
 - 4) Press the handpiece trigger.

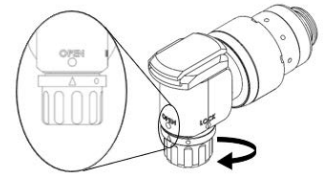
3.3.2. Removing Wire or Pin

- 1) Place the pre-adjustment lever of the wire pin driver above the tip of the non-inserted part of the wire or pin, and insert the wire pin driver as deep as possible.
- 2) Tighten the wire pin handle to hold the wire or pin.
- 3) Press the handpiece trigger and remove the handpiece and wire or pin from the bone. (Note: When removing a screw type pin, tighten the wire pin handle to hold the pin and press the trigger in reverse direction.)

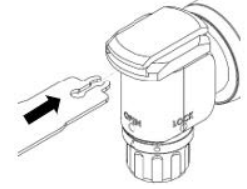
3.4. Oscillating Saw Attachment

3.4.1. Attaching Blade

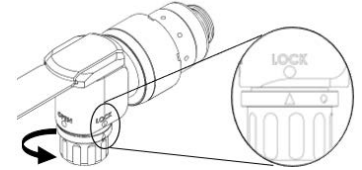
- 1) Open the blade insertion hole by rotating the bottom knob clockwise.



- 2) When the blade insertion hole opens, push the blade in until the end.



- 3) Close the blade insertion hole by rotating the bottom knob counterclockwise, and pull the blade forward to make sure that the blade has been attached properly.



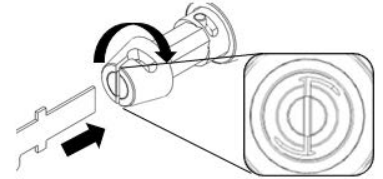
4) Warning

- Do not try to insert or detach the cutting tool or attachment while cutting.
- Do not apply excessive force by bending or twisting the blade. Excessive pressure may bend or break the blade, possibly causing tissue damage, loss of tactile control, or spurling of fragments at high speed.
- Softly pull the blade before handling to make sure that it is firmly fixed in place.
- If these rules are not followed, excessive vibration or noise of the handpiece can cause injuries of the patient or surgeon.
- Always observe the recommended cycle to prevent the device from overheating.

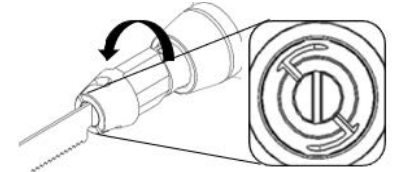
3.5. Reciprocating Saw Attachment

3.5.1. Attaching Blade

- 1) Rotate the blade holder attached with the spring to align the end of the holder with the slot. Completely insert the blade into the holder.



- 2) Let go of the blade holder. Check that the blade holder returns to the original position and the blade is firmly fixed onto the blade holder.

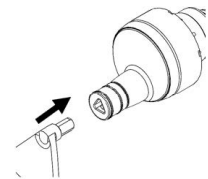


- 3) Lightly pull the blade to check that the blade is firmly fixed onto the blade holder.

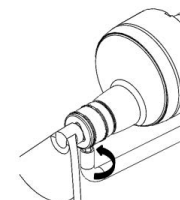
3.6. TPLO Saw Attachment

3.6.1. Attaching Blade

- 1) Push the blade into the blade insertion hole all the way



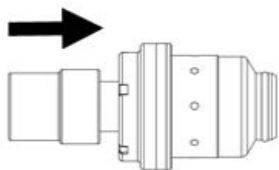
- 2) Use a wrench to rotate the bottom bolt counterclockwise to fasten the blade. Pull the blade forward to check that it has been attached properly.



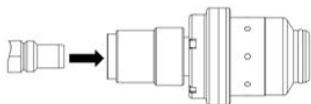
3.7. Large AO Type

3.7.1. Connecting Device

- 1) Push the coupler handle back.



- 2) Insert the device into the attachment.



- 3) Let go of the coupler handle.
- 4) Before operating the handpiece, pull the device to make sure that the device has been fixed in place.

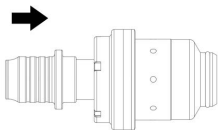
3.7.2. Removing Device

- 1) Push the coupler handle back.
- 2) Remove the device from the attachment.
- 3) Let go of the coupler handle.

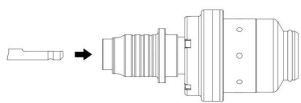
3.8. Small AO Type

3.8.1. Connecting Device

- 1) Push the coupler handle back.



- 2) Insert the device into the attachment.



- 3) Let go of the coupler handle.
- 4) Before operating the handpiece, pull the device to make sure that the device has been fixed in place.

3.8.2. Removing Device

- 1) Push the coupler handle back.
- 2) Remove the device from the attachment.
- 3) Let go of the coupler handle.

4. How to Store and Manage After Use

4.1. Initial Treatment During Use and Cleaning Preparations

4.1.1. Precautions for Use (After Use)

- 1) Since it is difficult to clean this product if it dries after being contaminated by blood, body fluids, bones, and tissues, prevent the product surface from drying after use.
- 2) After using this product, remove foreign matters on the surface using an absorbent paper towel and cover up with a wet cloth or spray pre-cleaning foam as often as necessary to prevent drying before cleaning.
- 3) Do not wet or immerse this product in a saline solution.
- 4) Remove all attachments before cleaning this product.
- 5) Clean the product as quickly as possible after use (within two hours).

4.1.2. Warning

- 1) Be especially careful about getting injured from sharp edges during transportation.
- 2) Prevent mechanical damages during transportation (e.g., loading with a heavy object).

4.2. Cleaning

4.2.1. Precautions for Cleaning

- 1) Do not use an ultrasonic cleaner.
- 2) Do not completely immerse this product in a liquid, such as water.
- 3) While cleaning, do not drop the product or apply strong impact.
- 4) Unless specified otherwise, do not use solvents, lubricants, rinsing aids, and other chemicals.

4.2.2. Warning

- 1) Dilute the detergent and use filtered water when rinsing the instrument. The instrument can be stained by residues in hard water or may not be cleaned and decontaminated effectively.
- 2) Only use the specific detergent to clean the instrument. Read and follow the information about uses, guidelines, and warnings provided with the detergent for proper handling and use of this product. Always prepare the detergent solution as recommended by the manufacturer. Be especially careful about the concentration and dispersion.

4.2.3. Caution

- 1) Poor water quality may have an adverse impact on the service life of this product. Always abide by the water quality requirements under AAMI TIR 34. Warm water in the optimal temperature range of 27-44°C is recommended for manual cleaning.
- 2) A neutral detergent is recommended to clean the instrument. Always use a detergent appropriate to be used on the surface of aluminum, stainless steel, plastics, and rubber.

4.2.4. Note

- 1) This product used the following cleaning agents for manual cleaning verification.

Supplier	Product	Compatibility
RUHOF	Endozime® AW Triple Plus with APA	All Materials

- 2) The detergent used for verification is recommended to clean this product, but other detergents may have equivalent or superior performance. However, it is necessary to check the information or actual test results provided by the detergent supplier when using another detergent.

4.2.5. Manual Cleaning

- 1) Remove all remaining foreign substances using an absorbent paper towel or a soft lint free cloth soaked in the prepared cleaning agent.
- 2) Remove foreign matters in deep grooves or holes on this product using a soft brush of appropriate diameter.
- 3) Remove foreign matters on all surfaces. Move the product in order to remove foreign substances from hidden surfaces.
- 4) Clean using running water or a syringe filled with water to remove foreign matters.
- 5) After removing all foreign matters, rinse the product thoroughly in running warm water until all detergent residues are removed. Rinse repeatedly until the water coming out of the instrument is clear.
- 6) After rinsing, lean the product to remove water.
- 7) After cleaning, check the product with unaided eyes to ensure that all foreign matters and detergents have been removed. Repeat the cleaning procedure if there is remaining water or detergent.
- 8) When rinsing is done, use an absorbent paper towel to remove water on the product.
- 9) Dry the product immediately after cleaning.

4.2.6. Automatic Cleaning

- 1) These attachments do not support automatic cleaning.

4.2.7. Drying

- 1) Cleaned product must be dried immediately under the following conditions.
 - Dry the product using a soft cloth that does not become fluffy or exclusive air.
 - When using an oven, set the temperature at or below 110 to dry the product. Drying time: At least 30 minutes at 110.
- 2) Once drying is done, immediately perform product inspection and maintenance.

4.3. Inspection and Maintenance

4.3.1. Inspection

- 1) Check that all moveable parts can be moved freely. Inspect abnormal noise, vibrations, and surfaces.
- 2) Check that there are no separations, gaps, burrs, or sharp projections that can cause injuries.

4.3.2. Maintenance

- 1) If the product becomes stiff, spread a medical lubricant (product certified for biological compatibility) and wipe out the remaining lubricant.

4.3.3. Precautions

Only an individual who completed education and has experience in the maintenance of reusable medical devices shall inspect this product.

- 1) The medical lubricant must be a product that can be used in the human body.
- 2) Unless specified otherwise, do not disassemble, remodel, or repair this product.
- 3) If a problem is found during the inspection and maintenance, stop using and contact the seller or manufacturer to take actions.

4.4. Sterilization

4.4.1. Packing

- 1) If no problem is found during the inspection and maintenance, the product must be packed airtight to prevent contamination until being sterilized by the user.
- 2) This product must be packed individually. It can be loaded on a tray only if there is an exclusive tray.
- 3) Double packing must be done using a sterile medical pouch or wrap appropriate for steam sterilization, sealing it airtight.
- 4) If there is no sterilization indicator, a separate sterilization indicator must be inserted into the package.

4.4.2. Sterilization

- 1) This product only uses the steam sterilization method, and other sterilization methods are not recommended.
- 2) The steam sterilization conditions for this product are as follows. (ISO17665, ISO17665-1,2)

Method	Temperature	Minimum Exposure	Minimum Drying
Pre-Vacuum	132°	4 minutes	30 minutes
Gravity	132°	15 minutes	30 minutes

- 3) The minimum exposure time can be extended to 20 minutes, but doing so may shorten the product service life.
- 4) Sterilization effects are not guaranteed for methods and conditions different from the sterilization method and conditions presented by our company.

4.4.3. Storage and Transportation

- 1) The sterilized product shall be transported and stored cautiously to prevent damaging the package.
- 2) The sterilized product shall be stored in an environment where the temperature and humidity are always controlled.

⚠️ [Precautions for Use]

Warning

- Before operating the handpiece, always pull the cutting device lightly to ensure that the cutting device is firmly fixed onto the handpiece.
- Do not grab or touch rotating or reciprocating components while operating the handpiece.
- Do not change the safety switch while operating the handpiece.
- Always operate the equipment under the specified environmental conditions.
- Always observe the recommended cycle to prevent overheating.
- Do not cut pins or screws using the blade. Cutting such items can lead to contamination of the surgical area by metal scraps and/or spurling of metal fragments at high speed.
- Always lubricate the attachment using a saline solution before use. Flow through during the cutting process to prevent overheating.
- Do not apply excessive pressure or force by bending or twisting objects attached to the device (drill, blade, wire pin, etc). Excessive pressure and force can bend or break the objects, causing tissue damage, loss of tactile control, and spurling of fragments at high speed.
- Oscillating attachments and objects (drill, blade, wire, pin, etc.) may cause damaging of bones and tissues or inaccurate positioning of wire pin, etc. If oscillation occurs, check the fixing of the attachment and objects.
- If oscillation continues, stop using and contact the seller or manufacturer to take actions.
- Do not manipulate the head holder while operating the handpiece.
- If an attachment other than the drill attachment is attached to the handpiece, do not use the reciprocating mode.
- Do not operate the handpiece until the blade contacts bones or tissues. The blade can break or be removed from the handpiece.
- Do not grab the manipulating part of the attachment (e.g., blade knob of oscillating saw attachment) while operating the handpiece. Doing so may cause objects to escape from the attachment.
- Do not insert screws into bones using the handpiece.
- Read and understand the guidelines before using this product or components that are compatible with this product. Pay particular attention to safety information. Become familiar with the equipment before use.
- Only medical professionals who have extensive training and experience in this product shall use this product.
- Medical professionals performing operations are responsible for deciding the compatibility of this equipment and the use of a specific technique for each patient. The manufacturer does not advise a surgical procedure or technique.
- Upon initial receipt of the equipment, inspect impairment of each component before use. If damage is found or inspection criteria are not fulfilled, immediately stop using and contact the seller or manufacturer.
- Do not use this equipment in an area where flammable anesthetics or medicines can be mixed with the air, oxygen, or nitrous oxide.
- If using electrical medical equipment, pay attention to electromagnetic compatibility (EMC). Use this product according to EMC information. Portable and mobile radio frequency (RF) communication equipment may affect the functions of this product.
- Before use, always set the product temperature to be within the operating temperature range specified in this document.
- Always observe the recommended cycle of handpiece use to prevent this product from overheating.

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