



EUROPEAN FOOTCARE SUPPLY

Trusted tools for podiatry professionals

Operating Instructions – Ortho-Spray

Congratulations with the purchase of your new Podiatry appliance. The Ortho-Spray was developed specifically for the professional Podiatrist. Robust high power electronic technology is employed and is designed for continuous operation. Use of precision mechanical construction and parts have reduced noise and vibration for increased user enjoyment. Please observe the user instructions to obtain maximum use of your new equipment.

WARNING: The user must be trained in the handling of powered hand instruments to prevent injury to themselves and/or others. Practice at low speed before use!

Equipment Description

The Ortho-Spray features a powerful micro motor and nose cone with precision ball bearings. The integral spray system cools the treatment area and protects the Podiatrist from adverse health effects of dust. Spray starts automatically when the handpiece is started. The handpiece is turned on with either a footswitch or by turning up the speed control. Electronically controlled Variable Speed ensures optimal control when using small and large diameter burs. The handpiece accepts the standard podiatry burs with 3/32" shank. The Ortho-Spray is therefore useful in a wide range of procedures.

Direction of rotation is selectable from the front panel toggle switch.

Spray amount is conveniently adjustable from the front panel water valve.

Maintenance is easy

Once a month dust on the inside of the nose cone can be removed with the use of the cleaning bur. And once a month the spray nozzle can be backflushed to remove any particulate matter.

We, at European Footcare Supply, are proud to work with professionals who provide care and comfort to others. The equipment you just acquired will give you many years of reliable use. The most common service requirement is after 5 years of normal use. The bearings in the nose cone may then be in need of replacement. These units are made to be maintainable. This extends the useful life of the equipment, since only worn parts have to be replaced. Your investment continues to work for you!

Warranty

Warranty on parts and labour is 3 years. The manufacturer is not responsible for incorrect use of the equipment or negligent handling or care of its products.





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Detailed Operation and Service Instructions for Orthofex Ortho-Spray Model

Equipment Description

The Ortho-Spray is supplied “ready for use” with a handpiece comprised of the micro motor and nose cone and speed controller/spray unit. A black rubber dustcap is provided which slides over the bur stem to reduce ingress of debris. A variety of burs is available on request.

Filling the reservoir

Remove the reservoir bottle, unscrew the bottle from the cap and pour in a finger width of isopropyl –rubbing- alcohol and top up with distilled water. Once filled, screw the bottle back into the cap firmly. Place bottle into machine careful not to kink the tubing. Spray comes more quickly when the reservoir is full. Warranty is voided when chemicals like Cidex ruin the reservoir.

Bur change and twist test

Rotate the knurled ring on the handpiece to lock or unlock the bur. Feel the ‘click’ at the extreme ends of rotation of the knurled ring.

It is a good habit, after inserting a bur, to rotate the bur with the fingers. When, over time, it becomes harder to turn the bur, it is an indication that the internals of the nosecone need service.

Always insert dry clean burs. The rubber dust cap on the bur stem should not touch the tip of the nosecone. The dust caps can remain on the bur stem during sterilization of the burs.

Safety

The Ortho-Spray has a safety shutdown should the bur suddenly come to a stop (e.g. when caught in a glove or clothing item). In that case, **stop** the handpiece. If the self-resetting safety has kicked in (handpiece turns at very little power) allow a 1 min. cool down period after which the handpiece can be started again.

Connection of hose and cable

The black DIN plug on the end of the handpiece cable is to be inserted into the DIN receptacle on the unit’s front panel. The end of the stiff water tubing must be firmly inserted into the tubing connector on the lower right corner of the front panel.

To remove: push the ring where the tube enters the connector while pulling on the tubing. Connect the footswitch to the rear panel. The black part of the footswitch plug must touch the metal receptacle on the rear panel.

Operation

Always ensure that a bur is present in the nose cone before turning on the handpiece.

Turn the speed control to LOW (full left)

1. Push the spray control switch to On or Off.
2. Push the main “ON” switch (indicated by a picture of a bur on the front panel).
3. Flip the Left - Right toggle switch in the left bottom corner of the front panel to either Left rotation or Right rotation (not mid position).
4. With handpiece firmly in the hand (and bur tip in mid air) turn the speed control knob up. The handpiece now turns.
5. If a footswitch is connected, press it now.

Starting and stopping during a procedure:





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- Press and release footswitch.
 - Or: turn main switch on and off
 - Or: turn speed control knob

Turn the main power switch off **only** at the end of each day, **not** in between patients.

The spray power switch can remain on.

Stop the handpiece before changing direction of rotation. Then select direction with the front panel L-R toggle switch. Speed can be changed with the handpiece running or stopped. Lower speed for large diameter burs, higher speed for smaller diameter burs.

Cleaning and user maintenance

The handpiece and control unit are easy to clean with a damp (not wet) cloth and mild cleaning or disinfecting solution (aggressive chemicals like CIDEX are NOT to be used). Handpiece and nosecone should **not** be autoclaved or immersed in liquids. Use of the dust cap extends the life of the nosecone; the caps are autoclaveable. **Each month:** remove any dust from inside the nosecone with the spiral cleaning bur provided with the unit. If the spray nozzle needs to be removed: **slide** it forward off the nose cone.

Lubricating the handpiece is not recommended since it uses sealed prelubed ball bearings.

Always keep a bur inserted to maintain alignment of the chuck and nosecone.

Service

Your equipment is serviced by your authorized distributor. High precision mechanical parts are supplied, compatible with the high RPM of the handpieces, ensuring that performance of your equipment is maintained.

Please call us at 1-800-8812243 before sending a unit for service. Quite often a problem can be solved over the phone.

Trouble shooting

The green light in the power switches on the front panel indicates that power is on and the fuse is OK.

The light in the spray power switch indicates that power is applied to the spray pump (handpiece must run for this).

It takes 10 to 20 seconds for any change in the water valve to reach the end of the tubing. However, if the spray pump is working and no spray exits the spray nozzle then the following procedures allow you to backflush any lint or dust out of the spray nozzle and water valve:

- A. Backflush of water valve
 - Remove handpiece tubing from front panel of the unit and place a tissue paper around the tubing connector on the unit to catch any water or lint.
 - Turn the unit on and open the water valve completely (many turns to the left).
 - Inspect tissue paper for any lint that was ejected with the water and proceed to B.
- B. Backflush of spray nozzle
 - Remove handpiece tubing from the tubing connector on the front of the unit and insert the black tubing end of the backflush adapter (a piece of black tubing with a silicone hose end piece) into the connector on the unit's front panel.
 - Insert the tip of the spray nozzle (on the nosecone of the handpiece) into the silicone end piece of the backflush adapter. Wrap a piece of tissue paper around the free end of the handpiece tubing to catch any lint, dust and water that may be ejected.





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- Turn the machine on, which forces air and water through the spray nozzle and tubing into the tissue paper. While the machine is on: turn the water valve completely open (turn all the way to the left). If no lint was found in the tissue paper proceed to C.

- C. Forceful backflush - only
needed if unit fails to spray water
 - Remove top lid of the unit (2 screws on left and right sides) and perform procedure A and B while pinching the silicone tubing as indicated in the sketch below.
 - Each time the silicone tubing is pinched a stream of water is forced down the system that will force any dust or lint out with it.
 - If, during a pinch in procedure A, no water is expelled then the water valve needs to be replaced.

- D. Using the spiral cleaning bur
 - Once a month
 - Or when burs cannot be fully inserted into the nosecone of the handpiece.
 - Insert the spiral cleaning bur into the bur entrance while rotating this bur clockwise. Dirt will collect in the groove. Remove this dirt and repeat procedure.

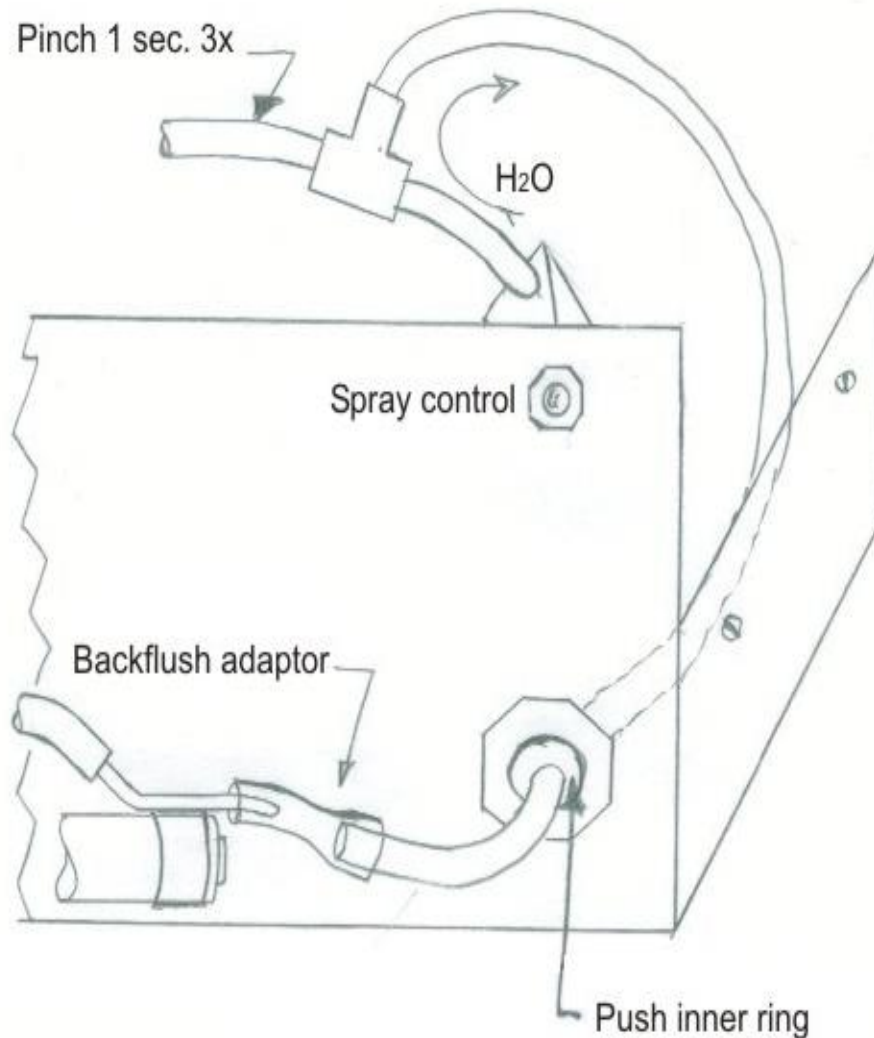




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Cleaning of the spray system



1. Remove handpiece tubing by pushing firmly on inner ring with thumbnail and pulling out tubing with the other hand. Run the drill with fully open spray control. Water should exit connector. If so, go to step 3. If not, go to step 2.
2. Run the drill and pinch tubing on inside (see diagram). If no water comes out of connector, send unit for service. If water comes out of the connector go to step 3.
3. Attach backflush adaptor to spray nozzle (see diagram) and insert into connector. Run drill and observe water coming out of handpiece tubing (other end). If not, poke a thin metal wire into spray nozzle tip and repeat step 3. If still no water comes out, send handpiece for cleaning.

Please call us at 1-800-8812243 if there are any problems.

