

PerioStar[®] 3000

Operating Instructions

Exciting new periodontal instrument sharpening tool



IMPORTANT SAFETY INSTRUCTIONS

PLEASE READ INSTRUCTIONS CAREFULLY BEFORE USE.

Important safeguards

Warning: For your protection do not connect the PerioStar 3000 to electrical power until you read these instructions and all operating instructions completely.

Keep these instructions in a convenient location for future reference. The following basic safety precautions must be observed in the set-up and use of this product.

General safeguards

CAUTION: Protective cap must be on!

- Use the PerioStar® 3000 only for its intended purpose of sharpening periodontal instruments such as Scalers, Universal Curettes and Gracey Curettes.
- The prerequisite for sharpening is knowing periodontal instruments.
- Do not place anything in the clamping device other than periodontal instruments.
- Place unit on a secure, stable work area to prevent the machine from falling and possibly causing personal injury and damage to the unit.
- Follow all warnings and instructions marked on this product as and in operating instructions.
- Do not modify the adapter or the plug in any way.

Electrical safeguards

- The adapter must be connected to a supply voltage corresponding to the electrical rating of the adapter as indicated.
- Unplug the adapter and the machine before moving it, or when it is not in use for an extended period of time.
- Do not operate with a damaged supply cord or plug, after it malfunctions, or after it has been damaged in any manner.
- The unit is intended for indoor use and for use in the unsterile area.
- Never push objects into this product through slots. Do not spill liquid of any kind on this product.

Service

- Keep the original packaging and foam insert. Only use the original packaging with the foam insert for any transportation of unit.
- Do not attempt to service or repair the product yourself. Unplug the unit and contact the authorized service representative for any required repairs.

Cleaning

CAUTION: Unplug this product before cleaning.

- Wipe exterior only with a damp cloth. Do not use solvents.

Operating elements
Accessories

Setting up
Fixating the Instruments

Important periodontal instruments
Alignment of the Gracey Curette

Sharpening
Problems with “dull” instruments

Maintenance of the sharpening stones
Use of the sharpening stones

Spare parts

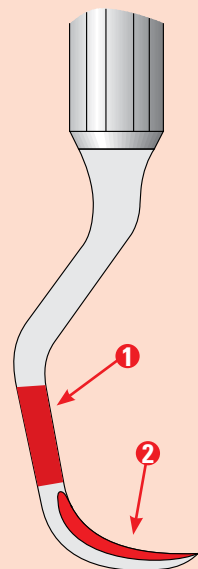
OPERATING ELEMENTS

Operating elements of the PerioStar® 3000

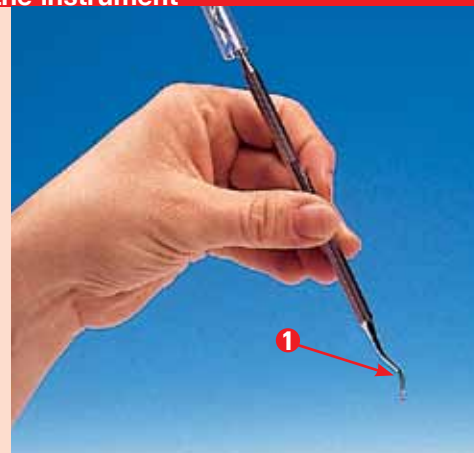


- 1 Clamping casing
- 2 Clamping device
- 3 Positioning pin
- 4 Fixation handle
- 5 Archbow
- 6 Sharpening head
- 7 Sharpening stone
- 8 Revolving plate
- 9 Start/stop button

Important components of the instrument



- 1 Terminal shank
- 2 Facial surface



ACCESSORIES

Your PerioStar® 3000 is delivered with the following accessories



- 1. Instructional DVD
- 2. Operating instructions
- 3. QuickStart Information



4. Sharpening stones

The PerioStar® 3000 is delivered with two sharpening stones in different grits: Superfine (white) and Medium (pink). See page 12 for cleaning and use of stones.



5. Sharpening paste

Prior to the first use of the stones: apply sharpening paste generously onto sharpening stone until the sharpening paste is no longer being absorbed by the stone.



6. Protective cap

For safety reasons, the end of the instrument not being sharpened has to be covered by the protective cap.



7. Acrylic testing rod

Check the sharpness of the cutting edge with the acrylic testing rod. More details on page 11. The acrylic testing rod can not be sterilized, in cold sterilization solution.



8. Magnetic crossbeam

This aligns the facial surface of the Gracey Curette. More details on page 9.

SETTING UP

Basic settings of the PerioStar® 3000

- 1 Place the unit on a stable work area with the start/stop button switch towards you.
- 2 Connect the adapter to the outlet.
- 3 Move the sharpening head to the locking position.



- 4 Insert the sharpening stone (must click into place).
Prior to the first use of the stones: apply sharpening paste generously onto the sharpening stone until the sharpening paste is no longer being absorbed by the stone.



- 5 Open the clamping device by turning the fixation handle to the "open" position. Turn until it is fully opened.



- 6 Set Archbow on position "3" by moving the archbow up or down. Lock into position "3".



FIXATING THE INSTRUMENTS



- 1 Put on the protective cap!
For safety reasons the end of the instrument not being sharpened has to be covered by the protective cap.



- 2 Hold the **terminal shank** of the instrument **vertical** and the **toe** of the instrument pointing towards you.
Insert the instrument into the clamping device. Place the base of the blade into the "V-shaped" groove of the positioning pin.

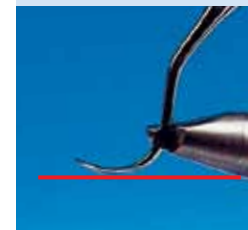
Hints for fixating instruments:

Sickle-Scaler

McCall



- 3 Clamp the instrument in place by turning the fixation handle to the "close" position. Turn until it is fully closed.



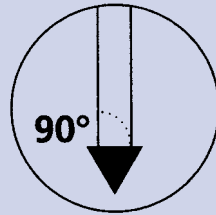
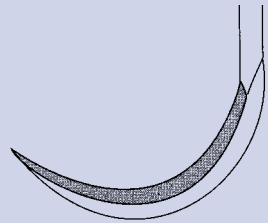
- 4 Take a look from the side to ensure that the **facial surface** is **horizontal**.



- 5 Move the archbow up or down to align the facial surface of the instrument horizontally. Lock into positions "1", "2", "3" or "4" depending on instrument.

IMPORTANT PERIODONTAL INSTRUMENTS

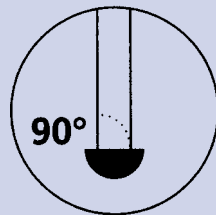
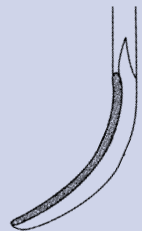
Scaler



Characteristics of the instrument:

- The tip of the Scaler is pointed
 - The facial surface is 90° to the terminal shank
 - Two cutting edges
- Sharpened only along the lateral surfaces. Never around the tip!

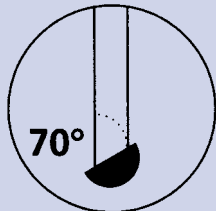
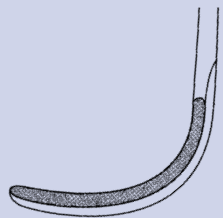
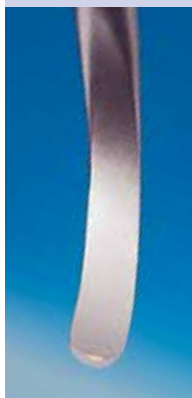
Universal Curette



Characteristics of the instrument:

- The toe of the Universal Curette is rounded
 - The facial surface is 90° to the terminal shank
 - Two cutting edges
- Sharpened on both sides and around the toe.

Gracey Curette



Characteristics of the instrument:

- The toe of the Gracey Curette is rounded
 - The facial surface is 70° to the terminal shank
 - One cutting edge (falling edge is cutting edge).
- Sharpened on the falling edge and around the toe.

ALIGNMENT OF THE GRACEY CURETTE

Differentiation of instruments

Clip the **magnetic crossbeam** onto the facial surface.



Scaler or Universal Curette

The magnetic crossbeam is **horizontal**:
The instrument is a **Scaler or a Universal Curette**.
Continue with sharpening.



Gracey Curette

The magnetic crossbeam is **slanting**:
The instrument is a **Gracey Curette**.
Continue with Alignment of the Gracey Curette.

Alignment of the Gracey Curette



To align the facial surface of a Gracey Curette, turn the clamping casing by 20° to the left or right. Turn until it is locked in place.

Depending on the manufacturer of the instrument, the magnetic crossbeam may not be adjusted perfectly horizontal.



SHARPENING

- 1 Direct the sharpening head onto the instrument.



- 2 To start the motor, press the blue button in front of the machine.

- 3 Follow the sharpening procedure

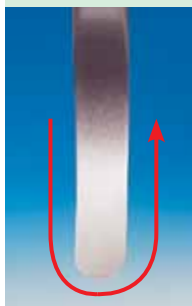
Sharpening a Scaler

Turn the revolving plate so that the sharpening head moves along the cutting edge towards the tip of the instrument and back. CAUTION! Never sharpen around the tip! Move the sharpening head to the locking position. Turn the revolving plate to the other side and repeat the sharpening procedure.



Sharpening a Universal Curette

Hold the revolving plate steady, parallel to the cutting edge. Move smoothly and swiftly around the toe and sharpen the opposite cutting edge. Do not move twice around the toe.



Sharpening a Gracey Curette

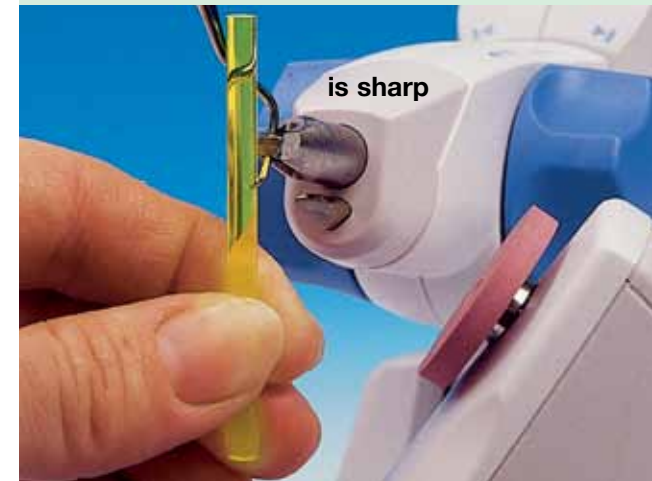
Guide the sharpening head with a gentle movement along the cutting edge. Move smoothly and swiftly around the toe and back. Be careful not to make the Gracey Curette pointed.



SHARPENING

- 4 Return the sharpening head to the locking position and turn off the machine.

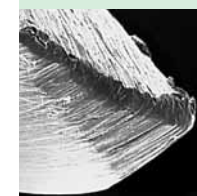
- 5 Check the sharpness of the cutting edge with the yellow acrylic testing rod. Hold the acrylic testing rod parallel to the terminal shank.



- 6 Pull the acrylic rod with a light pressure. The instrument is sharp if the rod "bites" into the edge. If there is not a "bite", repeat the sharpening procedure.

- 7 If the instrument is sufficiently sharp, it can be removed. Hold the instrument and turn the fixation handle to the "open" position. Turn until it is fully opened.

Problems with "dull" instruments



If you sharpen an instrument for the first time with the PerioStar® 3000 and you cannot sharpen the instrument easily and quickly look closely at the lateral surface of the instrument.

You will see multiple facets indicating the instrument was previously sharpened with wrong angles. This instrument needs to be recontoured.



Sharp instrument

Creating a lateral surface with a single facet takes a few minutes. Once an instrument is recontoured, resharping with the PerioStar® 3000 is very easy and fast.

SHARPENING STONES

Maintenance of the sharpening stones

Prior to first use: apply sharpening paste generously onto the sharpening stone until the sharpening paste is no longer being absorbed by the stone.



Regular cleaning during and after sharpening:

- Clean the sharpening stone with water and a handbrush (cleaning the sharpening stone with a steamer is also possible). It is normal that a certain amount of debris remains on the stone. It is not possible to remove all debris. This does not influence the performance of the stone.
- Apply sharpening paste to the sharpening stone. The sharpening stones are autoclavable. To prevent cross-contamination, sterilize the instrument after sharpening.



Sharpening stones with deep grooves or stones that are damaged have to be replaced.

SHARPENING STONES

Use of the sharpening stones



Superfine sharpening stone (white)

Application: Sharpening after every patient and polishing.



Medium sharpening stone (pink)

Application: Routine sharpening and finishing.
Instrument-saving recontouring.



Coarse sharpening stone (blue)

Application: Sharpening of excessively dull instruments or those requiring recontouring.
NOT for daily sharpening!



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