

*Miltex*<sup>®</sup>  
Redefining Excellence



INSTRUMENT SHARPENING

Hawe PerioStar<sup>®</sup> 3000

## PERIOSTAR® 3000 INSTRUMENT SHARPENING DEVICE

The PerioStar® 3000 instrument sharpening device by Miltex Inc. is a motorized system for precise sharpening of dental hygiene instruments. The PerioStar® 3000 instrument sharpening device is the only system in the world that does not rely on the human hand to dictate instrument movement and pressure during the sharpening procedure.

The PerioStar® 3000 unit has a unique fixation device that securely clamps the instrument in place for sharpening. Once in place, the sharpening head is brought into contact with the instrument, providing 50 grams of pressure. After the unit is turned on, the revolving plate is rotated, moving the stone across the cutting edge. The PerioStar® 3000 instrument sharpening device maintains a sharpening plate angle of 78 degrees and follows the precise geometry of the instrument. Because the instrument is held in place and the machine provides the pressure, reproducible results are achieved regardless of who operates the system.

## PERIOSTAR® 3000 FEATURES AND BENEFITS

<u>Feature</u>	<u>Benefit</u>
1. Fixation device locks instrument in place	• Consistent, reproducible sharpening results
2. Produces razor sharp instruments	• Reduces treatment time and hand fatigue, improves patient comfort
3. Stone follows precise geometry of instrument	• Maintains original shape of instrument
4. Stone produces 50 grams of pressure	• Extends instrument life by removing only a small amount of metal
5. Coarse stone is available	• Can recontour hand sharpened instruments
6. Motor reverses direction on left and right side	• No need to smooth the face of the instrument, no wire edges are formed

## 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!*



\* Sharpening stones are autoclavable

# HOW TO USE THE PERIOSTAR® 3000 SHARPENING DEVICE

## SETTING UP



1. Move sharpening head into locking position.
2. Insert sharpening stone.

## SETTING UP



3. Move archbow to position (3).

## FIXATING



4. Turn fixation handle to "open" position.

## FIXATING



5. Hold the terminal shank vertical and place the blade into "V-shaped" positioning pin.
6. Clamp instrument into place by turning handle to "close" position.

## ALIGNING



7. Align facial surface horizontally by adjusting archbow up or down.

## ALIGNING



8. Sharpening: place hands on blue revolving plate to move sharpening head

## PERIOSTAR® 3000 PART NUMBERS

REF	Description
3000US	PerioStar® 3000, Instrument Sharpening Device
3019US	PerioStar® 3000, Coarse Replacement Stones (Blue), 2 per pack
3020US	PerioStar® 3000, Medium Replacement Stones (Pink), 2 per Pack
3021US	PerioStar® 3000, Super Fine Replacement Stones (White), 2 per Pack
3022US	PerioStar® 3000, Sharpening Paste, 20 mL, Set of 2 Tubes
3023US	PerioStar® 3000, Acrylic Test Rods, 5 per Pack
3024US	PerioStar® 3000, Protective Cap for Instruments, 5 per Pack
3025US	PerioStar® 3000, Magnetic Crossbeam, 5 per Pack



## SHARPENING STONES AND HONING OIL

Miltex® sharpening stones and honing oil provide clinicians with the proper tools for re-establishing an instrument's proper cutting edge. The honing oil should be used with the Arkansas and India Stones and may be sterilized in steam or chemical autoclaves.

REF	Description
STN-ARK-CON	Stone, Arkansas Conical
STN-ARK-FLT-4	Stone, Arkansas No. 4 Flat
STN-IND-CON-309	Stone, India No. 309, Fine Grit
STN-IND-FLT-1	Stone, India No. 1 Flat, Fine Grit
STN-IND-WDG-6	Stone, India No. 6 Wedge, Medium Grit
STN-OIL	Oil, Honing



STN-OIL



STN-ARK-CON



STN-ARK-FLT-4



STN-IND-FLT-1



STN-IND-CON-309



STN-IND-WDG-6

## THOMPSON™ STICKS

Sterilizeable sticks used for checking instrument sharpness/edge.

REF	Description
DTS	Thompson Sharpening test stick black (6)
DTST	Thompson Sharpening test stick clear (6)



DTS



DTST

## THOMPSON PRECISION™ SHARPENERS

Thompson Precision™ Sharpeners do not require lubricant and may be sterilized by any method.

REF	Description
SP2	DOUBLE GRIT Precision synthetic stone
SPC	COARSE Precision synthetic stone
SPF	FINE Precision synthetic stone
SPM	MEDIUM Precision synthetic stone



SPF



SPM



SP2



SPC

## WHY SHARPEN DENTAL HYGIENE INSTRUMENTS?

- Hygiene instruments operate best when they are razor sharp and as true to their original shape as possible
- Sharp instruments can reduce hand fatigue by reducing the pressure applied to remove calculus and reduce the number or strokes needed to remove calculus and debris
- Sharp instruments can save time by reducing the number of strokes per patient

## WHEN TO SHARPEN DENTAL HYGIENE INSTRUMENTS?

- Instruments should be sharpened at the first sign of dulling
- New instruments can dull in as few as 10 – 15 strokes
- For best results, instruments should be sharpened after every use



New Instrument Tip

## PERIOSTAR® 3000 SHARPENING DEVICE CAN SAVE A PRACTICE TIME AND MONEY

- Prolonged instrument life reduces instrument cost per hygienist
  - > PerioStar® 3000 sharpening device preserves 2 times the material of the cutting edge when compared to manual sharpening<sup>1</sup>
  - > By removing less material each time you sharpen your instruments, you increase the life span of your instruments<sup>1</sup>
- Dull instruments require more chair time, increase hand and wrist fatigue and compromise patient care
  - > A dull instrument requires more pressure to be applied, and additional strokes leading to hand and wrist fatigue
    - Stainless steel instruments can dull after only 15 strokes\*
    - After 45 strokes, the lateral and facial surfaces are significantly dull<sup>1</sup>
  - > Dull instruments can also slip on debris and calculus, which can cause damage to the root surface or soft tissue lacerations<sup>1</sup>



\* Results may vary dependent on metallurgy of instrument.

<sup>1</sup> Wehmeyer T. E. Chairside Instrument Sharpening. Quintessence International 1987; 18: 615-617



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