Varios Combi Pro

Two Maintenance Systems in One
Combining ultrasonic scaling and powder therapy for more effective and comfortable oral hygiene and biofilm control.

Innovative New Design Enables Clinicians to Safely and Efficiently Combine Two Applications

Two Systems in One
NSK has combined ultrasonic treatment and powder therapy into a single professional treatment unit that streamlines procedures and saves time and space.

Automatically Sets Powder Therapy Functions for Supragingival or Subgingival Applications
The clinician simply attaches the relevant powder chamber, and the unit automatically selects the functions for supragingival or subgingival applications. This prevents selection errors.

Independent Unit and Chamber
The detachable chamber and handpiece make it possible to easily switch between supragingival and subgingival applications and make the unit extremely user and maintenance friendly.

No More Clogging
By keeping the control unit, handpiece and handpiece hose separate the risk of powder blockages inside the unit has been completely eliminated. The components carrying powder and water are all easily accessible for maintenance and service.

Keeps Both Powder Types Separate
Separate chambers, handpieces, and handpiece hoses for supragingival and subgingival procedures eliminate the risk of powder mixing or powder entering the control unit.
Optimizing Manoeuvrability

Clear Display
A clear function display enhances safety and efficiency by enabling clinicians to quickly confirm which programme is in use: supragingival, subgingival or ultrasonic, the 10 power levels and spray water volume.

Large LCD Panel
The LCD panel offers excellent visibility and contrast and is specially coated to resist powder scratches.

Automatic Switching from Ultrasonic to Powder Function
An automatic recognition sensor switches from ultrasonic to powder function when a handpiece is picked up from the holder.

Store Previous Settings
The system memory can store such treatment parameters as water volume, air pressure and ultrasonic power settings. Simply pick up the handpiece to switch settings.

Controls all Key Operations for Procedures

Multi-Foot Control
NSK extensively researched foot movement and sensory feeling when developing the Multi-Foot Control to enable clinicians to operate the unit hands-free to facilitate uninterrupted procedures. Just using the foot the user can switch ultrasonic or powder modes on or off and change power settings. Combined with a hanger, this offers complete hands-free operations.

Optional PERIO-SYSTEM

MODEL: Varios Combi Pro Perio Set
ORDER CODE: Y1003042

Contents
- PERIO-CHAMBER  • PERIO-Hose
- PROPHY-Handpiece  • Perio-Mate Nozzle tip
- Perio-Mate Nozzle tip remover
- Perio-Mate powder

Varios Combi Pro Basic Set

MODEL: Varios Combi Pro Basic Set
ORDER CODE: Y1002843

Contents
- PROPHY-Handpiece with 60° Nozzle  • PROPHY-Hose
- PROPHY-CHAMBER  • FLASH pearl (5 pcs. × 15 g sachets)
- Maintenance kit  • VA2LUX-Handpiece
- VA2LUX-Hose  • 3 Scaling tips  • Sterilization case
- Irrigation bottle (400 mL)  • Foot control

Specifications
- Power Supply: AC 100-240 V  50/60 Hz
- Frequency: 28-32 KHz
- Dimensions: W 225 x D 290 x H 162 (mm) (including chamber)
- Unit weight: 2.6 kg (except attachment)
- Bottle volume: 400 mL
iPiezo engine®

The Unique Ultrasonic AI engine Responds Intelligently to Tooth Surface Conditions

“i’d like to be better at scaling”, “i’d like an easier way to remove deposits”

We carefully considered the opinions of clinicians in the development of our unique next-generation AI ultrasonic engine which is at the heart of the NSK ultrasonic series.

The actions of the operator are transmitted accurately to the tip, as if it were an extension of the hand. This allows treatment to match tooth surface conditions.

The result is faster and gentler treatment for patients and at the same time eco friendly as it operates efficiently with low power consumption.

Fitted with The Next-generation Ultrasonic AI engine, The iPiezo engine®

NSK’s unique high-performance ultrasonic iPiezo engine allows for smooth operation as it transmits the operator’s movements to the tip.

Feedback Function

The NSK iPiezo engine supplies the appropriate power to the tip depending on the condition of the tooth surface. iPiezo engine provides a stable frequency output without dropping the power, even when removing hard calculus.

Auto Tuning Function

The Auto Tuning Function provides stable frequency to the tip at the selected power range. It allows the operator to feel the power output which ensures the optimum result.

Allows for Steady Scaling

Conventional ultrasonic scalers lose power when moving from soft to hard tartar. The load on the end of the tip is automatically detected by the action of the iPiezo engine allowing for steady scaling without power-loss.

A Slim Highly-ergonomic LED Handpiece

The ø9.5 mm slim tip of the Varios LUx handpiece makes it easy to operate throughout the entire oral cavity. The slim handpiece facilitates a smooth approach to difficult to access areas such as the molars. This provides freedom of movement in the oral cavity allowing the tip to be applied at the correct angle. The easy to grip ultra-light handpiece reduces strain on the hands and fingers. With a wide spectrum of close to natural light LED illumination, the view is always bright with high recognition capability.
Varios 970 Optic / Non-optic iPiezo engine

Multifunction Portable Unit for Extreme Versatility

The Smart Compact Design Provides High-performance

The functionality required for ultrasonic applications is available in the most-advanced model in our compact series, the Varios 970. Our high-capacity 2 bottle system allows users to focus on safe treatment without worrying about water irrigation. Simple daily maintenance with auto rinse function and seamless body design. Through intensive study of user feedback we have managed to achieve high operability and safety.

Large LED Display
The large LED display has a 10 stage numeric power display and bar graph to show the irrigation volume. Beyond this, intuitive layout of operating keys minimize user errors. Power adjustment and function selection can be performed easily and reliably.

Large Solution Bottles
The two bottles can be placed and removed easily and can be used for any type of irrigation to complement treatment. Large 400 mL bottles deliver ample irrigation capacity and reduced chair time. Repeated tests of our components and material studies ensure high durability even when used extensively with antiseptic irrigation solutions.

Improved Durability Against Antiseptic Solutions
The introduction of the resin based water pipe of the bottle, pump and handpiece, assures dramatically improved durability as it substantially reduces the corrosion and rust caused by the residuum of antiseptic solutions.

Auto Cleaning Mode
The Auto Cleaning Mode flushes the tubing, handpiece and tips at the push of a button when required. The two channels can be flushed independently.

Varios 970 Complete Sets

<table>
<thead>
<tr>
<th>Optic</th>
<th>Varios 970 Optic Complete Sets</th>
</tr>
</thead>
<tbody>
<tr>
<td>MODEL</td>
<td>VA970 LUX (120 V)</td>
</tr>
<tr>
<td>ORDER CODE</td>
<td>Y1001166</td>
</tr>
<tr>
<td>MODEL</td>
<td>VA970 LUX (230 V)</td>
</tr>
<tr>
<td>ORDER CODE</td>
<td>Y1001168</td>
</tr>
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</table>

<table>
<thead>
<tr>
<th>Non-Optic</th>
<th>Varios 970 Non-Optic Complete Sets</th>
</tr>
</thead>
<tbody>
<tr>
<td>MODEL</td>
<td>VA970 (120 V)</td>
</tr>
<tr>
<td>ORDER CODE</td>
<td>Y1001174</td>
</tr>
<tr>
<td>MODEL</td>
<td>VA970 (230 V)</td>
</tr>
<tr>
<td>ORDER CODE</td>
<td>Y1001175</td>
</tr>
</tbody>
</table>

Contents:
- Control unit
- Handpiece
- Handpiece cord
- 3 Scaling tips (G4, G6, G8)
- Foot control (FC-70)
- 2 x Irrigation bottles
- 3 x Tip wrench with torque limiter
- AC power cord
- Sterilization case

Specifications:
- Power Supply: AC 120 V or 230 V, 50/60 Hz
- Frequency: 28-32 kHz
- Max. output: 11 W (G mode)
- Dimensions: W 180 x D 270 x H 190 (mm) (Including Bottle)
- Unit weight: 2.1 kg (Excluding attachment)
- Bottle volume: 400 mL (x 2 bottles)
Varios 570 Optic

Compact and Versatile

Varios 570 offers three power modes selectable to the tip connected to the handpiece; “G” (general), “E” (endo) and “P” (peri). Power level can be fine-tuned within the range of given power mode. In particular, P mode offers minimal yet steady power for more effective periodontic treatment.

Advantages
- Powered by iPiezo engine
- Compact and appropriate-sized body design
- User-friendly and intuitive operation control panel

Specifications
- Power Supply: AC 100-240 V, 50/60 Hz
- Frequency: 28-32 KHz
- Max. output: 11 W (G mode)
- Dimensions: W 80 x D 115 x H 32 (mm) (without knob and cord)
- Unit weight: 0.43 kg (without attachment)

Varios 370 Non-Optic

Compact Multipurpose Control Unit at Your Fingertips

Varios 370 has been especially developed to offer a compact, portable control unit allowing easy installation into any dental unit. It is simple to operate and suitable for a variety of clinical procedures.

Advantages
- Powered by iPiezo engine
- Potable ultra compact body
- Simple and intuitive operation control panel

Specifications
- Power Supply: AC 100-240 V, 50/60 Hz
- Frequency: 28-32 KHz
- Max. output: 11 W (G mode)
- Dimensions: W 160 x D 135 x H 65 (mm)
- Unit weight: 0.43 kg

Varios 570 Complete Sets

Optic Varios 570 Optic Complete Sets
MODEL: VA570 LUX (120 V) ORDER CODE: Y1001432
MODEL: VA570 LUX (230 V) ORDER CODE: Y1001273

Contents
- Control unit with handpiece cord
- AC adaptor
- Handpiece
- Water filter set
- Water supply connector
- Foot control (FC-70)
- 3 Scaling tips (G4, G6, G8)
- Tip wrench with torque limiter

Varios 370 Complete Sets

Non-Optic Varios 370 Non-Optic Complete Sets
MODEL: VA370 (120 V) ORDER CODE: Y1001958
MODEL: VA370 (230 V) ORDER CODE: Y1001340

Contents
- Control unit with handpiece cord
- Control unit holder
- AC adaptor
- Handpiece
- Handpiece holder
- Water filter set
- Foot control (FC-71)
- 3 Scaling tips (G4, G6, G8)
- Tip wrench with torque limiter
Varios 170 Optic / Non-Optic

Integrated Multi Function Ultrasonic Scaler

The Smallest Module for Easy Integration into New and Existing Dental Equipment

Varios 170 is the world's smallest built-in optic control module. It features the NSK iPiezo engine which ensures stable power output all the times. The slimmer and extremely lightweight handpiece with twin LED is easily added to the existing handpiece delivery unit and is controlled via the existing foot control.

Specifications

- Power Supply: AC 24 V ±10% (or DC 24-36 V)
- Frequency: 28-32 KHz
- Max. output: 11 W
- Dimensions: W 63 x D 54 x H 26 (mm)
- Module weight: 59 g

Sterilization Case

The handpiece, tips and tip wrenches can be sterilized together for your convenience.

Varios 170 Complete Sets

Optic  Varios 170 Optic Complete Set
MODEL: VA170LUXS1  ORDER CODE: Y1001351

Non-Optic  Varios 170 Non-Optic Complete Set
MODEL: VA170S1  ORDER CODE: Y1001352

Contents

- Built in module
- Handpiece
- Handpiece cord
- 3 Scaling tips (G4, G6, G8)
- 3 x Tip replacement wrench with torque limiter
- Sterilization case
**Varios Tips**

NSK tips fit Varios2 ultrasonic scaler handpieces as well as Satelec® ultrasonic scaler handpieces. NSK make a number of tips which will fit on EMS® ultrasonic scaler handpieces.

The following is a guide to illustrate all NSK Varios tips, their applications and connectivity.

**NSK scaler tips**

- **NSK V-Tip System**

  Tips marked with the icon can be directly attached to both NSK Varios and Satelec® ultrasonic scaler handpieces.

**Satelec®**

- **Satelec® Ultrasonic Scaler Handpieces**

**NSK scaler tips**

- **NSK Varios2 Optic LED Handpiece**

  - **VA2-LUX-HP**

  - **Varios Combi Pro**

    - **Varios 970/570**
    - **370/170**

**EMS®**

- **EMS® Ultrasonic Scaler Handpieces**

- **EMS®**

  - **VA2-HP**

  - **V-Tip (Restorative)**

  - **V-Tip (Endodontic)**

**NSK Offers a Wide Choice of Varios Ultrasonic Scaler Tips for Clinical Applications.**

- **Restorative**

- **Scaling**

- **Prosthetics**

- **Extraction**

- **Maintenance**

- **Perio**

- **Retrograde Endo**

- **Endodontics**

**NSK Tips fit Varios2 ultrasonic scaler handpieces as well as Satelec® ultrasonic scaler handpieces. NSK make a number of tips which will fit on EMS® ultrasonic scaler handpieces.**
The illustrated tip diagram is three times bigger than the actual size.

Cross section diagram is the image of a point 1 mm from the end.

Ultrasonic Scaler Tips

**Varios**

<table>
<thead>
<tr>
<th>Cross Section Diagram</th>
<th>NSK</th>
<th>Satelec®</th>
<th>EMS®</th>
</tr>
</thead>
</table>

**Perio (Root Planing)**

<table>
<thead>
<tr>
<th>Cross Section Diagram</th>
<th>Satelec®</th>
<th>Satelec®</th>
<th>Satelec®</th>
</tr>
</thead>
</table>

**Scaling**

- **Cross section diagram**
- **EP**
- **Washable in the thermodisinfector**
- **Autoclavable up to 135°C**

**Varios**

- Diamond coated
- Right curved type
- Sharp edge
- Left curved type
- Washable in the thermodisinfector
- Autoclavable up to 135°C
**Cross Section Diagram**

The illustrated tip diagram is three times bigger than the actual size.

### Varios Ultrasonic Scaler Tips

**Perio (Root Planing)**

- **Model P20**
  - Order Code: Z217420
  - NSK Satelec
- **Model P20-E**
  - Order Code: Z291420
  - EMS

- **Model P21R**
  - Order Code: Z217422
  - NSK Satelec
- **Model P21R-E**
  - Order Code: Z291422
  - • Right curved type

- **Model P21L**
  - Order Code: Z217421
  - NSK Satelec
- **Model P21L-E**
  - Order Code: Z291421
  - • Left curved type

- **Model P25R**
  - Order Code: Z217424
  - NSK Satelec
- **Model P25R-E**
  - Order Code: Z291424
  - • Right curved type

- **Model P25L**
  - Order Code: Z217425
  - NSK Satelec
- **Model P25L-E**
  - Order Code: Z291425
  - • Left curved type

- **Model P26R**
  - Order Code: Z217426
  - NSK Satelec

- **Model P26L**
  - Order Code: Z217427
  - • Left curved type

### Varios Ultrasonic Scaler Tips

**Perio (Irrigation and Cleaning)**

- **Model P40**
  - Order Code: Z217550
  - NSK Satelec
  - • Tip diameter ø0.6 mm

- **Model P41**
  - Order Code: Z217555
  - NSK Satelec
  - • Tip diameter ø0.8 mm

### Notes

- Cross section diagram is the image of a point 1 mm from the end.
- The illustrated tip diagram is three times bigger than the actual size.

**ORAL HYGIENE**

**Perio** (Root Planing)

- Ultrasonic Scaler Tips
- Varios

**Perio** (Irrigation and Cleaning)

- Ultrasonic Scaler Tips
- Varios

**Satelec®**

**NSK**

**EMS**

**Washable in the thermodisinfector**

**Autoclavable up to 135°C**
For the maintenance of prostheses and implants. Produced from special material to allow safe debridement without causing damage to metals and implants.

V-P12 is a longer version of the popular V-P10 tip. It serves a wide range of applications, including the maintenance of implants and other prosthetic devices. Its shape offers easy access to all treatment areas.

V-P11 left and right are double bent tips. This tip is extra long to easily access difficult to reach areas and to avoid interference with neighbouring teeth or contours. Its shape was designed to best fit different tooth morphologies, making this a versatile tip for a wide range of uses from anterior teeth to premolars.

V-P26R is a double-bent tips. The wide angles offer access to areas that cannot be reached with V-P11 tips or other conventional instruments. These tips are ideally suited to access the distal surfaces of molars and corner areas as, the end of the tip fits tooth morphology very closely.

Cross section diagram is the image of a point 1 mm from the end. The illustrated tip diagram is three times bigger than the actual size.
## Endodontics

### Ultrasonic Scaler Tips

<table>
<thead>
<tr>
<th>Model</th>
<th>Order Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>E4</td>
<td>Z217428</td>
<td>For root canal cleaning</td>
</tr>
<tr>
<td>E4D</td>
<td>Z217528</td>
<td>Diamond coated, for root canal enlargement</td>
</tr>
<tr>
<td>E5</td>
<td>Z217305</td>
<td>Water not required, for lateral condensation</td>
</tr>
<tr>
<td>E6</td>
<td>Z217306</td>
<td>Water not required, for lateral condensation</td>
</tr>
<tr>
<td>E7</td>
<td>Z217307</td>
<td>Water not required, for removal of filling and foreign material</td>
</tr>
<tr>
<td>E7D</td>
<td>Z217317</td>
<td>Diamond coated, for enlargement of root canal wall</td>
</tr>
<tr>
<td>E8</td>
<td>Z217308</td>
<td>Water not required, for removal of filling and foreign material</td>
</tr>
<tr>
<td>E8D</td>
<td>Z217318</td>
<td>Diamond coated, for enlargement of root canal wall</td>
</tr>
</tbody>
</table>

### Notes
- Cross section diagram is the image of a point 1 mm from the end. The illustrated tip diagram is three times bigger than the actual size.
- For tips E5, E7, E7D, E8, and E8D, please use the attached E Tip Replacement Wrench.
- Washable in the thermodisinfector.
- Autoclavable up to 135°C.
Varios Ultrasonic Scaler Tips

Endodontics

120˚ Angle Holder for U files

MODEL: E11
ORDER CODE: Z217031
- For U files (ø0.8 mm)
- For root canal cleaning
- For anterior teeth • File is optional

95˚ Angle Holder for U files

MODEL: E12
ORDER CODE: Z217032
- For U files (ø0.8 mm)
- For root canal cleaning
- For posterior teeth • File is optional

U files 33 mm / #15 ORDER CODE: Y900062
- ISO 15 • Pack of 6

U files 33 mm / #20 ORDER CODE: Y900063
- ISO 20 • Pack of 6

U files 33 mm / #25 ORDER CODE: Y900064
- ISO 25 • Pack of 6

U files 33 mm / #30 ORDER CODE: Y900065
- ISO 30 • Pack of 6

U files 33 mm / #35 ORDER CODE: Y900066
- ISO 35 • Pack of 6

Each pack of E11, E12 or V30 includes 1 x E Tip replacement wrench. Replacement wrench is not included when ordering other tips. Please order the replacement wrench separately in this instance.

Always refer to this reference chart to ensure correct and accurate proper file length to avoid file breakage.

<table>
<thead>
<tr>
<th>Tip</th>
<th>#15</th>
<th>#20</th>
<th>#25</th>
<th>#30</th>
<th>#35</th>
</tr>
</thead>
<tbody>
<tr>
<td>E11</td>
<td>22 mm</td>
<td>24.5 mm</td>
<td>22 mm</td>
<td>22 mm</td>
<td>22 mm</td>
</tr>
<tr>
<td>E12</td>
<td>22 mm</td>
<td>24.5 mm</td>
<td>24.5 mm</td>
<td>24.5 mm</td>
<td>22 mm</td>
</tr>
</tbody>
</table>

Cross section diagram is the image of a point 1 mm from the end. The illustrated tip diagram is three times bigger than the actual size.

Autoclavable up to 135°C

Washable in the thermodisinfector

Endodontics

Retrograde Endo

Varios Ultrasonic Scaler Tips

Cross Section Diagram

MODEL: E30RD
ORDER CODE: Z217212
- Diamond coated • For posterior teeth (right angled)

MODEL: E30LD
ORDER CODE: Z217213
- Diamond coated • For posterior teeth (left angled)

MODEL: E31D
ORDER CODE: Z217210
- Diamond coated • For anterior and posterior teeth (70˚)

MODEL: E32D
ORDER CODE: Z217211
- Diamond coated • For anterior teeth (90˚)

120˚ Angle Holder

95˚ Angle Holder

Each pack of E11, E12 or V30 includes 1 x E Tip replacement wrench. Replacement wrench is not included when ordering other tips. Please order the replacement wrench separately in this instance.

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<th>#25</th>
<th>#30</th>
<th>#35</th>
</tr>
</thead>
<tbody>
<tr>
<td>E11</td>
<td>22 mm</td>
<td>24.5 mm</td>
<td>22 mm</td>
<td>22 mm</td>
<td>22 mm</td>
</tr>
<tr>
<td>E12</td>
<td>22 mm</td>
<td>24.5 mm</td>
<td>24.5 mm</td>
<td>24.5 mm</td>
<td>22 mm</td>
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</table>

Autoclavable up to 135°C

Washable in the thermodisinfector

ORAL HYGIENE

Ultrasonic Scaler Tips

Varios

Endodontics
Varios  Ultrasonic Scaler Tips

Extraction

Because the tip and the bilateral edges of the G95 tip are sharp it can be inserted without applying excessive force. Furthermore, because the abrasion of the periodontal ligaments using the tip creates a space between the tooth root surface and alveolar bone, tooth extraction can be conducted without injuring the bone around the root.

Features

- Access to a surgical site is improved by thinning the tip apex shape and sharpening both edge flanks.
- Adhesion areas of periodontal membrane can be removed smoothly.
- Tooth removal can be performed smoothly so that patient discomfort can be reduced.
- Approaches from angles hard to reach with hand instruments are also possible.

Root extraction (upper left No. 2 tooth removal)

Tooth extraction is possible without excessively cutting the alveolar bone around the remaining root, retaining the morphology of the alveolar bone.

Impacted tooth (lower left No. 8 tooth removal)

The use of the tip prior to extraction will mobilise the tooth and make extraction easier.

Be careful not to apply excessive force, as in cases of using elevators.
Nishikawa-guchi dental clinic

Cross section diagram is the image of a point 1 mm from the end.
The illustrated tip diagram is three times bigger than the actual size.

Varios  Ultrasonic Scaler Tips

Restorative (For Minimal Intervention)

Varios  Ultrasonic Scaler Tips

Root extraction (upper left No. 2 tooth removal)
**Varios Ultrasonic Scaler Tips**

**Condensation**

- **MODEL G21**
  - ORDER CODE: Z217010
  - Water not required
  - For anterior teeth
  - 3 caps supplied

- **MODEL G22**
  - ORDER CODE: Z217020
  - Water not required
  - For posterior teeth
  - 3 caps supplied

- **MODEL Tip Cap**
  - ORDER CODE: Y140751
  - Autoclavable
  - For G21 / G22 (Pack of 10)

**Varios Ultrasonic Scaler Tips**

**Loosening / Plugging**

- **MODEL G26**
  - ORDER CODE: Z217206
  - For post removal

- **MODEL G28**
  - ORDER CODE: Z217208
  - Water not required
  - For amalgam condensation
Each pack of E11, E12, or V30 includes 1 x E Tip replacement wrench. Replacement wrench is not included when ordering other tips. Please order the replacement wrench separately in this instance.

**Endodontics V-Tip**

<table>
<thead>
<tr>
<th>Model</th>
<th>Order Code</th>
<th>Description</th>
<th>Pack Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>V-S50</td>
<td>Y900169</td>
<td>For root canal cleaning 17 mm</td>
<td>Pack of 3</td>
</tr>
<tr>
<td>V-S51</td>
<td>Y900170</td>
<td>For root canal cleaning 23 mm</td>
<td>Pack of 3</td>
</tr>
<tr>
<td>V-S52</td>
<td>Y900171</td>
<td>For root canal cleaning 26 mm</td>
<td>Pack of 3</td>
</tr>
<tr>
<td>V-S53</td>
<td>Y900172</td>
<td>For root canal cleaning 32 mm</td>
<td>Pack of 3</td>
</tr>
</tbody>
</table>

**Restorative**

<table>
<thead>
<tr>
<th>Description</th>
<th>Pages</th>
</tr>
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<tbody>
<tr>
<td>For Minimal Intervention</td>
<td>130-131</td>
</tr>
<tr>
<td>For Finishing / Trimming / Polishing</td>
<td></td>
</tr>
<tr>
<td>For Caries Removal</td>
<td></td>
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**Endodontics**

<table>
<thead>
<tr>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>For Root Canal Cleaning</td>
<td>129</td>
</tr>
<tr>
<td>For Root Canal Enlargement</td>
<td></td>
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</table>

**Maintenance**

<table>
<thead>
<tr>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>For Prostheses or Implant Maintenance</td>
<td>118-119</td>
</tr>
</tbody>
</table>

In order to reduce the incidence of ledge formation, there is no diamond coating on the end of the tip. (1.0 mm)
Each pack of E11, E12 or V30 includes 1 x E Tip replacement wrench. Replacement wrench is not included when ordering other tips. Please order the replacement wrench separately in this instance.
**Tip Kits**

**Varios Ultrasonic Scaler Tips**

### Application PERIO

- **Perio Kit A**  
  **MODEL** Y900144  
  **Contents**  
  - P1D, P2D, P3D, P10 : 1 pc. each  
  - Tip holder : 1 pc.

### Application PERIO  
Furcation and curved root face

- **Perio Kit B**  
  **MODEL** Y900145  
  **Contents**  
  - P20, P26R, P25L : 1 pc. each  
  - Tip holder : 1 pc.

### Application MAINTENANCE  
For Prostheses or Implant Maintenance

- **Perio-Control Tips Starter Kit**  
  **MODEL** Y1002606  
  **Contents**  
  - V10 holder : 1 pc.  
  - VP1R, VP11L, VP12, V-P20R, V-P20L : 1 pc. each  
  - E Tip replacement wrench : 1 pc.

### Application ENDODONTICS  
For anterior root canal irrigation

- **Endo Kit E11**  
  **MODEL** Y900146  
  **Contents**  
  - E11 : 1 pc. 120° angle holder for anterior teeth  
  - E Tip replacement wrench : 1 pc.  
  - U files 33 mm #15, #20, #25, #30, #35 : 6 types  
  - Pack of 6 each size

### Application ENDODONTICS  
For posterior root canal irrigation

- **Endo Kit E12**  
  **MODEL** Y900147  
  **Contents**  
  - E12 : 1 pc. 95° angle holder for posterior teeth  
  - E Tip replacement wrench : 1 pc.  
  - U files 33 mm #15, #20, #25, #30, #35 : 6 types  
  - Pack of 6 each size

### Application ENDODONTICS  
4 kinds of Retrograde Root filling tips

- **Retro Kit**  
  **MODEL** Y900149  
  **Contents**  
  - E30RD, E30LD, E31D, E32D : 1 pc. each  
  - Tip holder : 1 pc.

### Application MINIMAL INTERVENTION  
Starter kit for Minimal Intervention - with V-Tip holder

- **MI Starter Kit**  
  **MODEL** Y900150  
  **Contents**  
  - V30 V-tip holder : 1 pc.  
  - E tip replacement wrench : 1 pc.  
  - V-G70, V-G71, V-G72 : 1 pc. each  
  - V-S1, V-S3, V-S33 : 1 pc. each  
  - V-G77, V-G78, V-G79 : 1 pc. each

**Oral Hygiene**

- **Satelec® NSK**  
  **Autoclavable up to 135°C**  
  **Washable in the thermodisinfector**
The S970 air scaler offers a wide power range with easy swivel power adjustment and an extensive tip range for a wide variety of applications ranging from general scaling and root canal irrigation to minimally invasive procedures. The wide range of applications, comfortable grip and ease of maintenance makes the S970 air scaler the instrument of choice for dentists and hygienists alike. A titanium body and sleek, seamless design make the S970 really comfortable to hold even during long procedures whilst allowing for excellent visibility of the operating site at all times.

The S970 air scaler provides stable power output and constant oscillating movement across the entire power range at approximately 6,000 Hz. S970 air scalers are extremely gentle and therefore very popular in cases involving peri or high sensitivity.

Excellent Visibility
The sleek design of the S970 allows for unrestricted visibility of the treatment area and excellent access to even the most hard to reach areas.

Smooth and Easy Power Control Ring
NSK Power Ring offers three different power level settings for diverse clinical needs. While the gentle minimum mode is for delicate procedures, the maximum power mode is good for general scaling.

The dotted green line shows the outline of a conventional scaler.

The above power level is standard. Please start use from a low level to correspond to the symptoms.
Ti-Max S970 Air Scalers

- Titanium Body with Scratch Resistant DURACOAT
- 3 level Power Ring
- Frequency of oscillation: 5,800–6,200 Hz
- Cellular Glass Optics
- Includes 3 tips (S1, S2 & S3), Tip Wrench (CR-20) and Tip Cover (L)

Connect to NSK Couplings

Optic MODEL S970L ORDER CODE T1005
Non-Optic MODEL S970 ORDER CODE T1020

AS2000 Air Scalers

- Frequency of oscillation: 5,600–5,850 Hz
- Includes 3 tips (S1, S2 & S3), Tip Wrench (CR-20) and Tip Cover (L)

Connect Direct to KaVo® Coupling

Optic MODEL S970KL ORDER CODE T1013

Connect Direct to Sirona® Coupling

Optic MODEL S970SL ORDER CODE T1015

Connect to NSK Couplings

Non-Optic MODEL AS2000 M4 ORDER CODE T698
- For Midwest 4 hole
- Weight: 67 g

Non-Optic MODEL AS2000 B2/3 ORDER CODE T697
- For Borden 2/3 hole
- Weight: 64 g

Washable in the thermodisinfector
Autoclavable up to 135°C
Air Scaler Tips

Scaling

Cross Section Diagram

- **MODEL S1**  ORDER CODE Z252411
  - Universal Type

- **MODEL S2**  ORDER CODE Z252413
  - Sickle Type

- **MODEL S3**  ORDER CODE Z252412
  - Perio Type

Air Scaler Tips

Perio

Cross Section Diagram

- **MODEL S10**  ORDER CODE Z252420
  - Universal Type Slim Line

- **MODEL S20**  ORDER CODE Z252441
  - Root Planning (Straight tip)

- **MODEL S21R**  ORDER CODE Z252442
  - Root Planning (Right curved tip)

- **MODEL S21L**  ORDER CODE Z252443
  - Root Planning (Left curved tip)

Air Scaler Tips

Perio-Control

Cross Section Diagram

- **V-Tip Holder**
  - Includes E-Tip replacement wrench
  - Plastic Tip is not included

- **MODEL V-P10**  ORDER CODE Y900184
  - Pack of 3  • S35 holder is not included

- **MODEL V-P11R**  ORDER CODE Y1002165
  - Right curved type  • Pack of 3  • S35 holder is not included

- **MODEL V-P11L**  ORDER CODE Y1002166
  - Left curved type  • Pack of 3  • S35 holder is not included

Air Scaler Kit

- **MODEL Perio-Control Tips**  ORDER CODE Y1002754
  - Includes E-Tip replacement wrench
Air Scaler Tips  

**Restorative (For Minimal Intervention)**

Unlike rotary instruments these tips oscillate and are designed to only cut on one surface allowing minimally invasive site preparation and thereby greatly reducing the risk of damaging adjacent teeth and soft tissue. The spherical shape of these tips make them suitable for delicate adjustments as well as caries removal in the cervical and interproximal region.

**Air Scaler Tips  

**Restorative (For Preparation of Crown Cores)**

The tips can be used for finishing margins after prepping the area with a conventional dental bur. That enables you to finish minute sharp edges and gingival sulcus without damage, something that cannot be accomplished with rotary instruments alone. Three types of tips are available for deep chamfer, light chamfer and shoulder work, respectively.

These tips are safe sided and flat for minimal mesial or distal preparations.
V-TIP System Lineup

NSK V-Tip system is innovative, multi-functional and economical. The V-Tip holder is a separate component to the actual cutting tips and can be easily and inexpensively replaced. NSK V-Tip holder system offers the flexibility and expandability to meet the wide requirements for multi-purpose clinical applications.

Restorative  Pages 144-145
- For Minimal Intervention
- For Finishing / Trimming / Polishing
- For Caries Removal

Endodontics  Page 143

Maintenance  Page 139
- For Prostheses or Implant Maintenance

Perio-Control

Air Scaler Tips

Endodontics V-Tip

V-Tip Holder

MODEL: S75  ORDER CODE: Z252035
- Includes E-Tip replacement wrench

V-U15  ORDER CODE: Y900177
- V-file Irrigation 23 mm #15  • ISO 15  • Pack of 6

V-U20  ORDER CODE: Y900178
- V-file Irrigation 23 mm #20  • ISO 20  • Pack of 6

V-U25  ORDER CODE: Y900179
- V-file Irrigation 23 mm #25  • ISO 25  • Pack of 6

V-U30  ORDER CODE: Y900180
- V-file Irrigation 23 mm #30  • ISO 30  • Pack of 6

V-U35  ORDER CODE: Y900181
- V-file Irrigation 23 mm #35  • ISO 35  • Pack of 6

V-N50  ORDER CODE: Y900182
- Ni-Ti Irrigation 17 mm  • Pack of 3

V-N51  ORDER CODE: Y900183
- Ni-Ti Irrigation 21 mm  • Pack of 3

S75  120° Angle type

S35  Straight
NSK | ORAL HYGIENE

Air Scaler Tips

Restorative (For Minimal Intervention)

- **V-Tip Holder**
  
  **Model S75**  
  **Order Code:** Z252035

  • Includes E-Tip replacement wrench
  • Tip is optional

- **Model V-G70**  
  **Order Code:** Y900118

  • Diamond coated
  • Pack of 3

- **Model V-G71**  
  **Order Code:** Y900119

  • Diamond coated
  • Pack of 3

- **Model V-G72**  
  **Order Code:** Y900120

  • Diamond coated
  • Pack of 3

- **Model V-G75**  
  **Order Code:** Y900121

  • Diamond coated
  • Pack of 3

- **Model V-G76**  
  **Order Code:** Y900122

  • Diamond coated
  • Pack of 3

- **Model Assorted Tip Kit**  
  **Order Code:** Y900158

  • Pack of 1 each

Restorative (For Finishing / Trimming / Polishing)

- **Model S75**  
  **Order Code:** Z252035

  • Includes E-Tip replacement wrench
  • Tip is optional

- **Model V-G77**  
  **Order Code:** Y900165

  • Diamond coated
  • Normal Grade
  • Pack of 3

- **Model V-G78**  
  **Order Code:** Y900166

  • Diamond coated
  • Fine Grade
  • Pack of 3

- **Model V-G79**  
  **Order Code:** Y900167

  • Diamond coated
  • Super Fine Grade
  • Pack of 3

- **Model Assorted Tip Kit**  
  **Order Code:** Y900168

  • Pack of 1 each

Restorative (For Caries Removal)

- **Model S75**  
  **Order Code:** Z252035

  • Includes E-Tip replacement wrench
  • Tip is optional

- **Model V-S1**  
  **Order Code:** Y900161

  • Stainless Tip
  • Pack of 3

- **Model V-S3**  
  **Order Code:** Y900162

  • Stainless Tip
  • Pack of 3

- **Model V-S33**  
  **Order Code:** Y900163

  • Stainless Tip
  • Pack of 3

- **Model Assorted Tip Kit**  
  **Order Code:** Y900164

  • Pack of 1 each

Washable in the thermodisinfector  Autoclavable up to 135°C
Prophy-Mate neo, The Best Polishing Tool for Beautiful White Teeth

Supragingival powder polishing is highly effective when used in combination with "FLASH pearl." NSK's unique twin nozzle achieves powerful powder discharge.

The long and slim handpiece in conjunction with the small nozzle tip dramatically improves accessibility around all tooth surface. Cleaning can be performed quickly even in interproximal areas teeth and in usually difficult to reach areas. The ergonomically designed grip is comfortable to hold and allows for flexible operation.

Improved Polishing Power

With NSK original twin nozzles, greater polishing power is realized. With powerful jet, cleaning time is greatly shortened thus reduces treatment time.

Easy Detachable Nozzles with 60° and 80°

Selectable 60° and 80° nozzles maximize the cleaning ability. 60° nozzle works especially well for molar area and occluding surface and 80° nozzle for anterior tooth.

Smooth, Easy 360° Swivel

Twin joints rotate smoothly 360 degrees for easy operability, responding flexibly to minute fingertip movements with effortless adjustment of the nozzle angle.

Simple One-touch Connection

The Prophy-Mate neo is designed for a one-touch attachment to NSK couplings and other major coupling brands. The handpiece also can be attached to the powder case with one-touch operation.
Contents
• Handpiece with 60° nozzle head  • Powder case  • Replacement nozzle head 80°
• 5 pcs. x 15 g sachets of FLASH pearl cleaning powder  • Maintenance kit

Prophy-Mate neo Complete System

<table>
<thead>
<tr>
<th>Model</th>
<th>ORDER CODE</th>
</tr>
</thead>
<tbody>
<tr>
<td>NSK</td>
<td>PMNG-PTL-P</td>
</tr>
<tr>
<td>KaVo</td>
<td>PMNG-KV-P</td>
</tr>
<tr>
<td>Sirona</td>
<td>PMNG-SR-P</td>
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<td>W&amp;H</td>
<td>PMNG-WH-P</td>
</tr>
<tr>
<td>Bien-Air</td>
<td>PMNG-BA-P</td>
</tr>
<tr>
<td>M4</td>
<td>PMNG-M4-P</td>
</tr>
<tr>
<td>B2</td>
<td>PMNG-B2-P</td>
</tr>
</tbody>
</table>

Features
• Fast cleaning in tight spaces
• Zero salinity, gentle ingredients with low impact on patients
• Clogging is also minimized

Sparkling Results Every Time
FLASH pearl, a cleaning powder for Prophy-Mate neo and Varios Combi Pro, is a spherical particulate powder designed to roll smoothly over tooth surfaces and penetrate all corners for rapid cleaning. The spherical shape of the powder granules lessens the likelihood of damage to teeth and soft tissue while removing stains and plaque quickly and safely.

Adverse reactions to this product are rare.

Do not wash the powder case or the powder case’s cap in a thermo-disinfector. The handpiece can be washed in the thermolavator. Autoclavable up to 135°C

Flash pearl Cleaning Powder
Outstanding Cleaning Results with Gentle Powder
Not salty! The powder has less impact due to the delicate flavour and provides patients with gentle tooth surface cleaning. The secret behind intense cleaning and a smooth finish? Calcium-based spherical particles. Fine powder with an average particle size of 54 μm move as if rolling across the surface of the tooth, limiting damage to the tooth surface and rapidly removing plaque and staining. The “FLASH pearl” treatment is effective in a short space of time which encourages patients to schedule regular cleaning appointments.

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Cleaning Powder

Whiter Teeth for a Brilliant Smile

Fresh lemon flavored Cleaning Powder removes stains, plaque, and calculus quickly and effectively. Put a shine on your clients’ smiles with Cleaning Powder.

Features

- Cleaning powder tastes like fresh lemon
- Humidity-resistant sodium bicarbonate content
- Quickly removes persistent plaque and stains

Cleaning Powder

MODEL Cleaning Powder ORDER CODE Y900052

- Contains 100 x 12 g sachets
Flexible Plastic Nozzle Tip Design Ensures Accessibility and is Gentle to The Pocket

The slim nozzle tip possesses just the right degree of flexibility to pass smoothly over tooth surfaces, and can be easily inserted into tight pockets and the root surfaces of adjacent teeth without causing the patient discomfort.

Optimize Dusing Powder Flow Analysis

Turbine development technology uses accumulated fluid analysis which allows ‘spraying’ that takes into account the powder flow in the pocket. It is not mono-directional, rather the flow is even and all-directional, minimising soft-tissue damage and subgingival plaque and biofilm can be removed efficiently. With respect to potential damage, powder (air) and water are separately discharged onto periodontal tissue.

Slim Nozzle Facilitates Operation in The Narrow Confines of The Oral Cavity

The long, narrow nozzle shape is designed to allow easy access to areas that require inserting the handpiece at an angle, such as between molars.

Smooth 360-degree Rotation for Safe and Accurate Operation

The handpiece can easily be rotated using the fingertips even while performing complex operations. The nozzle tip allows easy access to difficult to reach areas, and does not adversely affect neighbouring teeth and contours.

Powder Flow Volume Adjustment

The Perio-Mate’s convenient Powder Control Ring makes fine-tuning powder flow simple and intuitive with quick fingertip adjustments. In addition to easily controlling and stopping the flow of powder in this way, you can cleanse the treatment area from biofilm uninterruptedly.

Product Maintenance

The user can easily disassemble the nozzle, handpiece and powder case. Powder clogging is unlikely when handled and maintained correctly but is easy to manage by following the maintenance guidelines and the relevant accessories included with the product. All the parts of the handpiece (other than the nozzle tip) can be repeatedly cleaned ultrasonically or sterilized in an autoclave.

Extensive Range of Applications Ranging from Supragingival to Subgingival Use

By removing the Perio-Mate nozzle tip, the subgingival area up to 3 mm from the gum line that requires the most frequent maintenance can be treated. In addition, there is a powder flow rate adjustment function to match operational site conditions, to enable a wide range of possible treatments from fast precise removal of biofilm to gentle and efficient biofilm removal around implants and in the delicate periodontal pocket.

Features

- The “handy type” can be connected to the chair unit during use in one action.
- The nozzle tip is designed for safety and operability.
- The powder flow channel is short and direct with low risk of blockage.
- Fast and effective biofilm removal.
Perio-Mate Complete System

- **NSK**: MODEL PER-PTL-P ORDER CODE Y1002654
- **KaVo**: MODEL PER-KV-P ORDER CODE Y1002655
- **Sirona**: MODEL PER-SR-P ORDER CODE Y1002656
- **W&H**: MODEL PER-WH-P ORDER CODE Y1002657
- **Bien-Air**: MODEL PER-BA-P ORDER CODE Y1002658
- **M4**: MODEL PER-M4-P ORDER CODE Y1002659
- **B2**: MODEL PER-B2-P ORDER CODE Y1002660

Contents:
- Handpiece
- Powder case
- Nozzle tip (40 pcs)
- Maintenance kit
- Perio-Mate Powder 160 g x 1

**Perio-Mate Nozzle Tip**

- **MODEL** Perio-Mate Nozzle Tip
- **ORDER CODE** Y1002741
- **40 pcs per pack**

**Perio-Mate Powder**

Features:
- Subgingival airpolishing powder
- Principal ingredient is glycine, an amino acid present in proteins.
- Highly water soluble to prevent subgingival retention.
- Lower Mohs hardness than dentin.
- Glycine ranks 2 on the Mohs hardness scale, while dentin is 2 to 2.5.
- Average powder particle diameter is 25 μm.

**Reduction of Bacteria**

- The air-polish process with Perio-Mate Powder (glycine-based) results in significantly better bacterial reduction than manual plaque removal.


**Conventional Sodium Bicarbonate Powder**
- Average particle diameter: 73 μm
- Scanning electron microscope image magnification of 150 X

**Perio-Mate Powder** (glycine)
- Average particle diameter: 25 μm
- Scanning electron microscope image magnification of 150 X

**Powder Particle Comparisons**

- The fine Perio-Mate Powder is ideal for periodontal pocket treatment.

**Reduction of Bacteria**

- **Glycine Powder Hand Instrument**
- **No Treatment**
- **Mean reduction of CFU**

<table>
<thead>
<tr>
<th>CFU (log)</th>
<th>Glycine Powder</th>
<th>Hand Instrument</th>
<th>No Treatment</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.8</td>
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</table>

**Autoclavable up to 135ºC**

The handpiece can be washed in the thermodisinfector.

- **Do not wash the powder case or the powder case’s cap in a thermo-disinfector**
- **Autoclavable up to 135ºC**

**Perio-Mate Powder**

- **ORDER CODE** Y900938
- **Contents**: Two bottles (160 g each)