NSK Offers A Wide Choice of VARIOs Ultrasonic Scaler Tips For Clinical Applications.
**Varios2 / Varios Tips**

NSK tips fit Varios and 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 Varios2 Non-Optic Handpiece**

**Non-Optic VA-2-HP**

**NSK Varios2 Optic Handpiece**

**Optic VA2-LUX-HP**

**Satelec® Ultrasonic Scaler Handpieces**

**EMS® Ultrasonic Scaler Handpieces**

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

Tips marked with the **EMS®** icon can be directly attached to EMS® ultrasonic scaler handpieces.

Tips marked with the **Satelec®** icon can be directly attached to Satelec® ultrasonic scaler handpieces.

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Satelec® is a registered trademark of Acteon SA, France. EMS® is a registered trademark of Electro Medical Systems SA, Switzerland.
Varios tips are designed for initial periodontal treatment, and are mainly used for supragingival scaling. Eleven versions of NSK Varios tips allow the removal of supragingival calculus, interdental calculus, and calculus at the neck of the tooth.
SCALING

G1
- Removal of supra gingival tartar.
- Removal of tartar narrow interdental space.
- Removal of marginal gingival calculus.

**NSK Satelec**
- MODEL: G1
- ORDER CODE: Z217101
- MODEL: G1-E
- ORDER CODE: Z291101

MODEL ORDER CODE
- Z217101
- Z291101

G2
- Removal of supra gingival tartar.

**NSK Satelec**
- MODEL: G2
- ORDER CODE: Z217102
- MODEL: G2-E
- ORDER CODE: Z291102

MODEL ORDER CODE
- Z217102
- Z291102

G3
- Removal of supra gingival tartar.

**NSK Satelec**
- MODEL: G3
- ORDER CODE: Z217103
- MODEL: G3-E
- ORDER CODE: Z291103

MODEL ORDER CODE
- Z217103
- Z291103

G4
- Removal of supra gingival tartar.
- Removal of marginal gingival calculus.

**NSK Satelec**
- MODEL: G4
- ORDER CODE: Z217104
- MODEL: G4-E
- ORDER CODE: Z291104

MODEL ORDER CODE
- Z217104
- Z291104

G5
- Removal of supra gingival tartar.
- Removal of tartar narrow interdental space.
- Removal of marginal gingival calculus.
- Removal of gingival biofilm under natural tooth.

**NSK Satelec**
- MODEL: G5
- ORDER CODE: Z217105
- MODEL: G5-E
- ORDER CODE: Z291105

MODEL ORDER CODE
- Z217105
- Z291105

G6
- Removal of supra gingival tartar.
- Removal of tartar narrow interdental space.
- Removal of marginal gingival calculus.
- Removal of gingival biofilm under natural tooth.

**NSK Satelec**
- MODEL: G6
- ORDER CODE: Z217106
- MODEL: G6-E
- ORDER CODE: Z291106

MODEL ORDER CODE
- Z217106
- Z291106

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Refer to the power guide on pages 52-53.

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

G8
• Removal of supra gingival tartar.
• Removal of tartar narrow interdental space.
• Removal of marginal gingival calculus.

G9
• Removal of supra gingival tartar.
• Removal of tartar narrow interdental space.
• Removal of marginal gingival calculus.
• Removal of gingival biofilm under natural tooth.

G10

G12
• Removal of supra gingival tartar.

G13

G14
• Removal of supra gingival tartar.

NSK Satelec

MODEL ORDER CODE
Z217108

MODEL ORDER CODE
Z217109

MODEL ORDER CODE
Z217411

MODEL ORDER CODE
Z217412

MODEL ORDER CODE
Z217413

MODEL ORDER CODE
Z217414

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Refer to the power guide on pages 52-53.
Varios Perio Tips are thin and designed for root planing and maintenance (breaking up biofilm), to provide the best access to furcation and curved roots.
PERIO

P1
- Removal of tartar narrow interdental space.
- Removal of gingival biofilm.

P1D
- Removal of tartar narrow interdental space.
- Removal of tartar in deep gingival.
- Debridement of abscess.
- Peeling wall internal pocket.

P2D
- Removal of tartar narrow interdental space.
- Removal of tartar in deep gingival.
- Debridement of furcations.
- Debridement of abscess.
- Peeling wall internal pocket.

P3D
- Removal of tartar narrow interdental space.
- Removal of tartar in deep gingival.
- Debridement of furcations.
- Debridement of abscess.
- Peeling wall internal pocket.

Satelec® is a registered trademark of Acteon SA, France.

Refer to the power guide on pages 52-53.
PERIO

**P10**
- Removal of supra gingival tartar.
- Removal of supra gingival calculus.
- Removal of gingival biofilm.

**P11R**
- Removal of tartar narrow interdental space.
- Removal of tartar in deep gingival.
- Removal of gingival biofilm.
- Removal of Biofilm furcation area.
- Debridement of furcations.

**P11L**
- Removal of tartar narrow interdental space.
- Removal of tartar in deep gingival.
- Removal of gingival biofilm.
- Removal of Biofilm furcation area.
- Debridement of furcations.

**P20**
- Removal of gingival biofilm.

**P21R**
- Removal of gingival biofilm.

**P21L**
- Removal of gingival biofilm.

---

*Cross section diagram is an image of a point 1 mm from the end. The illustrated tip diagram is four times larger than the actual size.

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**PERIO**

**P25R**
- Removal of gingival biofilm.
- Removal of Biofilm furcation area.

**P25L**
- Removal of gingival biofilm.
- Removal of Biofilm furcation area.

**P26R**
- Removal of tartar narrow interdental space.
- Removal of tartar in deep gingival.
- Removal of gingival biofilm.
- Removal of Biofilm furcation area.
- Debridement of furcations.

**P26L**
- Removal of tartar narrow interdental space.
- Removal of tartar in deep gingival.
- Removal of gingival biofilm.
- Removal of Biofilm furcation area.
- Debridement of furcations.

**P25R / P25L / P26R / P26L (From above)**

- **P11R / P11L / P21R / P20 / P21L**
  - Right curved tip
  - Left curved tip
  - Straight tip

- **P21R / P20**
  - Right curved tip
  - Straight tip

**P25R / P25L / P26R / P26L (From above)**

- **P25R / P25L / P26R / P26L**
  - Right curved tip
  - Left curved tip

---

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

---

*Satelec® is registered trademarks of Acteon SA, France. EMS® is registered trademarks of Electro Medical Systems SA, Switzerland.
Refer to the power guide on pages 52-53.*
MAINTENANCE (V-Tip)

V10

V-P10
For the maintenance of prostheses and implants. Produced from special material to allow safe debridement without causing damage to metals and implants.

V-P11R

V-P11L

V-P12
V-P26R
V-P26L

V-P26R/L is a double-bent tip. The wide angles offer access to areas that cannot be reached with V-P11R/L 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.

V-P26L

Satelec® is a registered trademark of Acteon SA, France.

Refer to the power guide on pages 52-53.
**PERIO (Irrigation and Cleaning)**

For effective cleaning following debridement or scaling.

- No scaling effect

### Perio Kit A

- P40, P50, P50D, P10: 1 pc. each
- Tip holder: 1 pc.

**MODEL ORDER CODE**

Y900144

### Perio Kit B

- P20, P25R, P25L: 1 pc. each
- Tip holder: 1 pc.

**MODEL ORDER CODE**

Y900145

### Dual Irrigation Points

- Irrigation from dual points on lateral areas of the apex.
- Effective cleaning regardless of the insertion angle.
- The rounded apex shape for safety in periodontium.

---

*Satelec® is registered trademarks of Acteon SA, France.

Refer to the power guide on pages 52-53.
NSK offers endodontic file and tips to achieve quick and effective treatments for root canal enlarging, irrigation, and filling.
ENDODONTICS

E4  • Application for root canal cleaning and removal of foreign particles.

E7  • Removal of filling and foreign material.

E8  • Removal of filling and foreign material.

E4D • Application for root canal cleaning and root canal enlargement.

E7D • Enlargement of root canal wall.

E8D • Enlargement of root canal wall.

For tips E5, E6, E7, E7D, E8, E8D, E11 and E12, please use the attached E Tip Replacement Wrench.

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

Satelec® is registered trademark of Airoco SA, France.

Refer to the power guide on pages 52-53.
**ENDODONTICS**

**E5**
- Lateral condensation.

![Cross Section Diagram](image1)

**E15D**
- For locating root canals and removal of calcifications.

![Cross Section Diagram](image2)

**E6**
- Lateral condensation.

![Cross Section Diagram](image3)

**E15D**
- Diamond coated

![Cross Section Diagram](image4)

- For tips E5, E6, E7, E7D, E8, E8D, E11 and E12, please use the attached E Tip Replacement Wrench.
- Cross section diagram is the image of a point 1 mm from the end. The illustrated tip diagram is four times bigger than the actual size.

*Satelec® is registered trademark of Acteon SA, France. Refer to the power guide on pages 52-53.*
ENDODONTICS

**E11**  • 120° Angle Holder for U files

- For U files (Shank dia : 0.8 mm)
- For root canal cleaning
- For anterior teeth
- Includes E Tip replacement wrench
- File is optional

**E12**  • 95° Angle Holder for U files

- For U files (Shank dia : 0.8 mm)
- For root canal cleaning
- For posterior teeth
- Includes E Tip replacement wrench
- File is optional

**U Files**

- Length : 33 mm
- Shank dia. : 0.8 mm

<table>
<thead>
<tr>
<th>Model</th>
<th>Order Code</th>
<th>Lengths</th>
<th>Shank dia.</th>
</tr>
</thead>
<tbody>
<tr>
<td>U files 33 mm / #15</td>
<td>Y900062</td>
<td>22 mm</td>
<td>24.5 mm</td>
</tr>
<tr>
<td>U files 33 mm / #20</td>
<td>Y900063</td>
<td>22 mm</td>
<td>24.5 mm</td>
</tr>
<tr>
<td>U files 33 mm / #25</td>
<td>Y900064</td>
<td>22 mm</td>
<td>24.5 mm</td>
</tr>
<tr>
<td>U files 33 mm / #30</td>
<td>Y900065</td>
<td>22 mm</td>
<td>24.5 mm</td>
</tr>
<tr>
<td>U files 33 mm / #35</td>
<td>Y900066</td>
<td>22 mm</td>
<td>24.5 mm</td>
</tr>
</tbody>
</table>

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

**Endo Kit E11**  For anterior teeth

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

**Endo Kit E12**  For posterior teeth

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

*Satelec® is registered trademarks of Acteon SA, France.

Refer to the power guide on pages 52-53.
**RETOGRADE ENDO**

The microscopic diamond coated tip allows effective removal of dentin at the apex. 2 types of angled tips (90°, 70°) are available for anterior teeth and another 2 types of curved tips (right and left) are available for molar teeth.

- **E30RD**  • Diamond coated tip allows efficient cavity preparation.
  - Cross section diagram is the image of a point 1 mm from the end. The illustrated tip diagram is four times larger than the actual size.

- **E30LD**  • Diamond coated tip allows efficient cavity preparation.

- **E31D**  • Diamond coated tip allows efficient cavity preparation.

- **E32D**  • Diamond coated tip allows efficient cavity preparation.

**Retro Kit**

- **E30RD, E30LD, E31D, E32D**  • 1 pc. each
- **Tip holder**  • 1 pc.

---

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Refer to the power guide on pages 52-53.
RESTORATIVE

Ultrasonic vibration is applied to the tooth surface. The compact handpiece is ideal for small mouths and at sites where a rotary handpiece is difficult to access. A variety of tips are available for caries removal and tooth surface detailing.

G61D  • Use the tip with the spherical diamond at the top. Bleeding occurs rarely.

G62D  • Use the tip with the spherical diamond at the top. Bleeding occurs rarely.

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Refer to the power guide on pages 52-53.
Tips for the removal of prostheses, for amalgam condensation are provided as well as for scaling, periio and endodontic.

PROSTHETICS
PROSTHETICS
Condensation / Loosening / Plugging

G21
- For cementing a small prosthesis such as an inlay for anterior teeth.

G22
- For cementing a large prosthesis such as an onlay or a crown for molar teeth.

Tip Cap

G25
- Crown removal. [ø1.05 mm thickness]

G26
- Post removal. [ø1.3 mm thickness]

G28
- Amalgam condensation.

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Refer to the power guide on pages 52-53.
The V-Tip System is unique to NSK. This tip features interchangeable inserts. The replaceable inserts make the tip suitable for various applications such as enlarging, shaping, and cleaning root canals, removal of broken files and identifying root canals. It is very economical to replace because only worn parts need to be replaced.
V-TIP SYSTEM

NSK Varios V-Tip holder 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.

3 Features

Safety
- Minimal damage to soft tissue
- Less risk of bleeding
- Cutting with ultrasonic instruments is minimally invasive

Economical
- One tip - Replaceable inserts
- Inserts are inexpensive

Ease of Use
- Small tip head guarantees excellent visibility
- Small head enables great access to distal sides of molar teeth and buccal area
- One tip meets the wide requirements of many clinical applications

V-TIP System Line Up

Restorative Pages 44-48
- For Minimal Intervention
- For Finishing, Tonning, Polishing
- For Caries of Dentin
- For Root Canal Cleaning
- Removal of broken files
- Maintenance of implants

Endodontics Pages 42-43
- For Root Canal Cleaning
- For Root Canal Enlargement

Maintenance Pages 18-19
- For Prosthese or Implant Maintenance
- Cleaning of pontic basal surface

Pages 18-19

V30
120° Angle type

V10
Straight
V-TIP SYSTEM (Endodontics)

For Root Canal Cleaning

<table>
<thead>
<tr>
<th>Model</th>
<th>Size (mm)</th>
<th>Order Code</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>V-S50</td>
<td>12.6</td>
<td>Y900169</td>
<td>For root canal cleaning 17 mm, Pack of 3</td>
</tr>
<tr>
<td>V-S51</td>
<td>18.2</td>
<td>Y900170</td>
<td>For root canal cleaning 22 mm, Pack of 3</td>
</tr>
<tr>
<td>V-S52</td>
<td>21.2</td>
<td>Y900171</td>
<td>For root canal cleaning 26 mm, Pack of 3</td>
</tr>
<tr>
<td>V-S53</td>
<td>27.2</td>
<td>Y900172</td>
<td>For root canal cleaning 32 mm, Pack of 3</td>
</tr>
</tbody>
</table>

V30

Includes E Tip replacement wrench
Tip is optional

For Root Canal Enlargement

<table>
<thead>
<tr>
<th>Model</th>
<th>Size (mm)</th>
<th>Order Code</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>V-S50D</td>
<td>12.6 with diamond</td>
<td>Y900173</td>
<td>Diamond coated, For root canal enlargement 17 mm, Pack of 3</td>
</tr>
<tr>
<td>V-S51D</td>
<td>18.2 with diamond</td>
<td>Y900174</td>
<td>Diamond coated, For root canal enlargement 22 mm, Pack of 3</td>
</tr>
<tr>
<td>V-S52D</td>
<td>21.2 with diamond</td>
<td>Y900175</td>
<td>Diamond coated, For root canal enlargement 26 mm, Pack of 3</td>
</tr>
<tr>
<td>V-S53D</td>
<td>27.2 with diamond</td>
<td>Y900176</td>
<td>Diamond coated, For root canal enlargement 32 mm, Pack of 3</td>
</tr>
</tbody>
</table>

For Root Canal Enlargement

V30

Includes E Tip replacement wrench
Tip is optional

Send™ is registered trademark of Acteon SA, France.

Refer to the power guide on pages 52-53.
The advantage of ultrasonic cutting is that tip movement is minute allowing only decayed dentine to be removed, while sound dentine is preserved. Cervical decay can be treated with minimum bleeding enabling quicker recovery.

**V-TIP SYSTEM** *(Restorative)*

For Minimal Intervention

- **V-G70**
  - Diamond coated
  - Pack of 3
  - MODEL V-G70 ORDER CODE Y900118

- **V-G71**
  - Diamond coated
  - Pack of 3
  - MODEL V-G71 ORDER CODE Y900119

- **V-G72**
  - Diamond coated
  - Pack of 3
  - MODEL V-G72 ORDER CODE Y900120

- **V30**
  - Includes E Tip replacement wrench
  - Tip is optional
  - MODEL V30 ORDER CODE Z217030

Refer to the power guide on pages 52-53.
The NSK Varios V-Tip System has been developed to carry out "Minimally Invasive" dental procedures. As an alternative to rotary cutting, the Varios V-Tip offers precise and effective ultrasonic technology cutting.

V-TIP SYSTEM (Restorative)

For Finishing / Trimming / Polishing

- **V-G77**
  - Normal grade
  - Diamond coated
  - Pack of 3
  - Model: Y900165

- **V-G78**
  - Fine grade
  - Diamond coated
  - Pack of 3
  - Model: Y900166

- **V-G79**
  - Super fine grade
  - Diamond coated
  - Pack of 3
  - Model: Y900167

- **V30**

For Caries of Dentin

- **V-S1**
  - Stainless tip
  - Pack of 3
  - Model: Y900161

- **V-S3**
  - Stainless tip
  - Pack of 3
  - Model: Y900162

- **V-S33**
  - Stainless tip
  - Pack of 3
  - Model: Y900163

- **V30**
  - Includes E Tip replacement wrench
  - Tip is optional
  - Model: Z217030

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Refer to the power guide on pages 52-53.
**V-TIP SYSTEM** *(Restorative)*

**Assorted Tip Kit** *(For Minimal Intervention)*

```markdown
- V-G77, V-G78, V-G79 : 1 pc. each
```

**Assorted Tip Kit** *(For Finishing / Trimming / Polishing)*

```markdown
- V-G77, V-G78, V-G79 : 1 pc. each
```

**Assorted Tip Kit** *(For Caries of Dentin)*

```markdown
- V-G70, V-G71, V-G75, V-G76 : 1 pc. each
```

---

**The Varios Tip Card - Easy to use guide to assess tip wear**

Ultrasonic scaler's tips wear through repeated use. Worn tips swing differently to new tips and do not perform as effectively. To check the condition of the tip, use the Varios Tip Card.

---

**How to use the Varios Tip Card**

1. Place the neck of the tip in the cut out.
2. Check wear of the tip.
3. See the green, yellow and red line to check wear of the tip. *(See below what each color means.)*

At NSK we recommend to replace a tip when the tip meets the yellow line (wear of 1mm) to guarantee safe and effective use.

- **Green:** No wear - Tip is OK
  - Tip replacement is not necessary

- **Yellow:** Wear of 1mm - Tip is showing some wear
  - Tip replacement is recommended

- **Red:** Wear of 2mm - Tip is badly worn
  - Tip replacement is necessary

---

*The Tip Card can be used to check the following tips: G1, G4, G6, G8, G9, P1-P10, P11, and P50*
Varios 970 Complete Sets

Optic
- VA970 LUX (120V) order code Y1001166
- VA970 LUX (230V) order code Y1001168

Non-Optic
- VA970 (120V) order code Y1001174
- VA970 (230V) order code Y1001175

Contents
- Control unit
- Handpiece
- Handpiece cord
- 3 Scaling tips (G4, G8, G9)
- Foot control (FC-70)
- 2 x Irrigation bottles
- 3 x Tip wrench with torque limiter
- AC power cord
- Sterilization case

Varios 370 Complete Sets

Optic
- VA370 LUX (120V) order code Y1001958
- VA370 LUX (230V) order code Y1001343

Non-Optic
- VA370 (120V) order code Y1001956
- VA370 (230V) order code Y1001340

Contents
- Control unit with handpiece cord
- Control unit holder
- AC adaptor
- Handpiece
- Handpiece holder
- Water filter set
- Water supply connector (120V only)
- Foot control (FC-71)
- 3 Scaling tips (G4, G8, G9)
- Tip wrench with torque limiter
- Foot control (FC-71)
- 3 Scaling tips (G4, G8, G9)
- Tip wrench with torque limiter

Multifunction Portable Unit for Extreme Versatility

All-in-one - Stylish compact all-in-one unit for Periodontic, Endodontic, Scaling, MI applications and Implant maintenance. The new Varios features the latest developments in piezo technology. The Piezo engine from NSK assures stable output by automatically adjusting to the optimum frequency depending on the loading of the tip.

Advantages
- Slimmest and lightest handpiece with LED illumination
- Extensive tip range for a wide range of applications
- Easily Interchangeable Solution Bottles
- Simple Unit Design for Clean Maintenance

Specifications
- Power Supply: AC 120V or 230V 50/60 Hz
- Frequency: 28-32 KHz
- Max. output: 11 W (G mode)
- Dimensions: W80 x D115 x H32 (mm) (without knob and cord)
- Unit weight: 0.43 kg (without attachment)

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 Piezo engine
- Portable ultra compact body
- Simple and intuitive operation control panel
- Large water adjustment and power knobs for easy operation
- Holders are available for various installation
- Handpiece is washable in the thermofinsektor and autoclavable up to 135°C

Specifications
- Power Supply: 100-240V AC 50/60 Hz
- Frequency: 28-32 KHz
- Max. output: 11 W (G mode)
- Dimensions: W160 x D270 x H190 (mm) (Including Bottle)
- Unit weight: 2.1 kg (Except attachment)
- Bottle volume: 400 mL (x 2 bottles)
### Power Guide

According to Clinical Applications

Please always select and do not exceed correct power setting for each tip. Power level setting should not be more than indicated.

<table>
<thead>
<tr>
<th>Tip No.</th>
<th>NSK</th>
<th>Satelec®</th>
<th>EMS®</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>SCALING</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>G1</td>
<td>7</td>
<td>3</td>
<td>15</td>
</tr>
<tr>
<td>G2</td>
<td>7</td>
<td>Max</td>
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<td>7</td>
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<td>G11</td>
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<td>G13</td>
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<tr>
<td><strong>PERIO / MAINTENANCE</strong></td>
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*Applicable power range for NSK Varios tips when used with NSK Varios and Varios2 ultrasonic scaler.

**Varios2**

Power Range

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**Vario**

Power Range

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**Cautions**

- Always consult the operating manual and attached sheets before use.
- Always use with correct power mode and power range for each individual tip.
- Always use with sufficient irrigation to prevent excessive heat generation during treatment.
- Always make sure that tips are securely tightened with the appropriate wrench and the power is set to and does not exceed the appropriate level before use.
- Incorrect operation may cause tip breakage even if tip is used within the recommended power range. Consult the operating manual before use.

Figure 1 to the power guide indicates the appropriate power range and maximum power level for each tip. It is not intended to define the maximum power level to avoid possible tip breakage.

Satelec® & P-Max, Acteon SA, France. EMS®, Paxxon & miniMaster, Acteon SA, Switzerland.