



TIP GUIDE

Ultrasonic Scaler Tips & Applications



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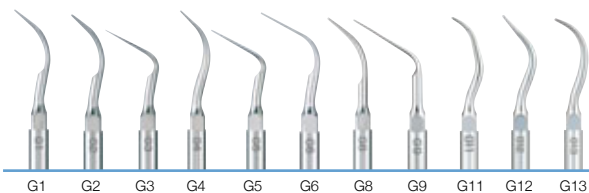


Powerful Partners®

NSK Offers A Wide Choice of VARIOS Ultrasonic Scaler Tips For Clinical Applications.

Scaling

Pages 6-11



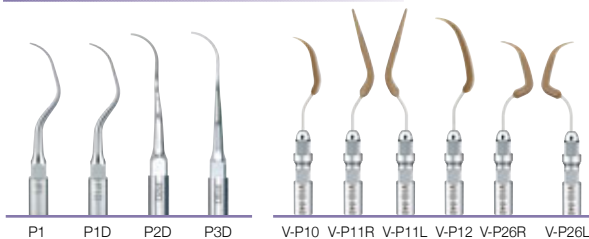
Restorative

Pages 40-43



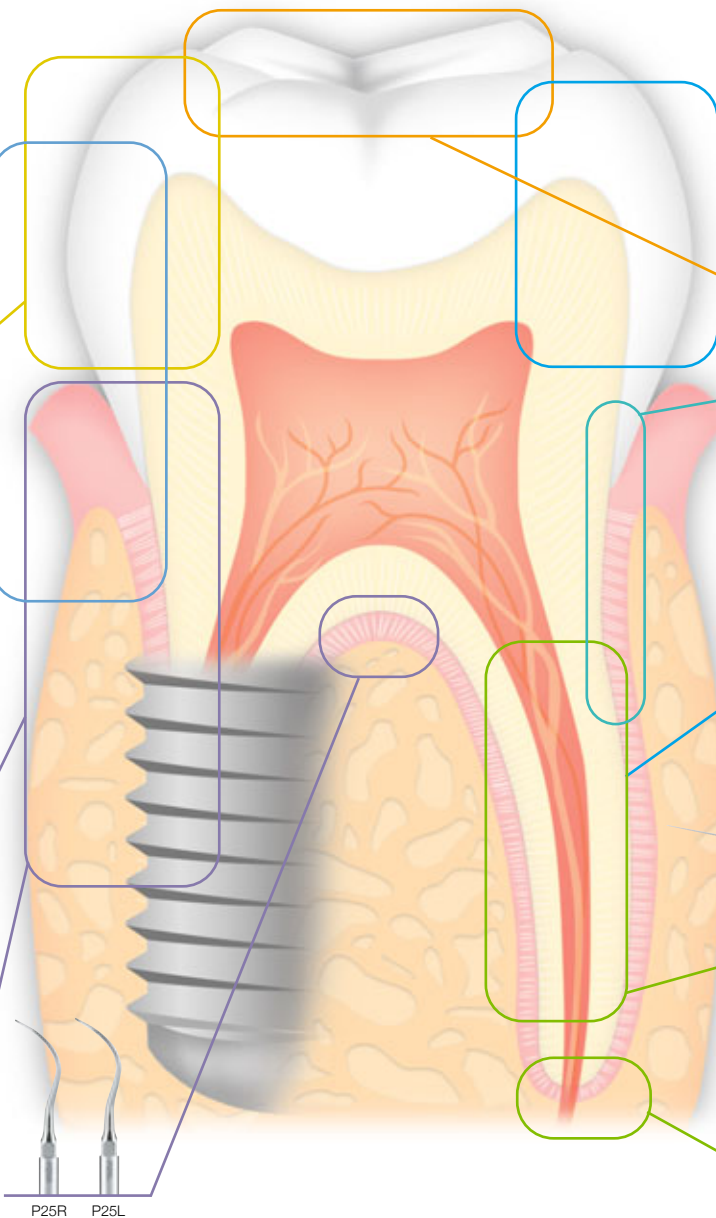
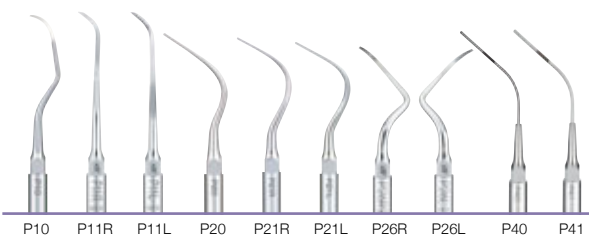
Perio / Maintenance

Pages 12-27



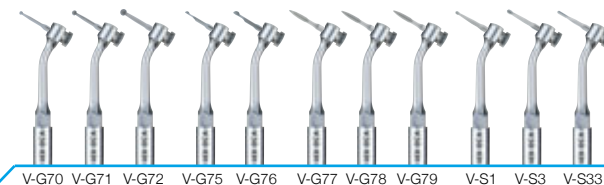
Perio / Maintenance

Pages 12-27



V-Tip (Restorative)

Pages 54-58

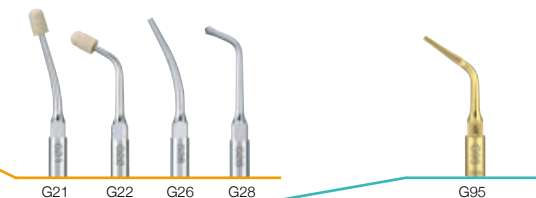


Prosthetics

Pages 44-47

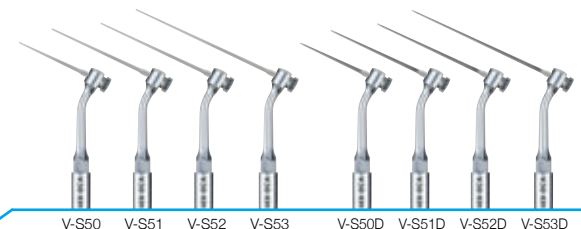
Extraction

Page 38



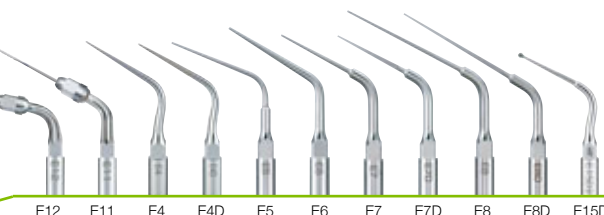
V-Tip (Endodontics)

Pages 48-53



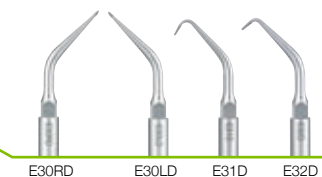
Endodontics

Pages 28-35



Retrograde Endo

Pages 36-37



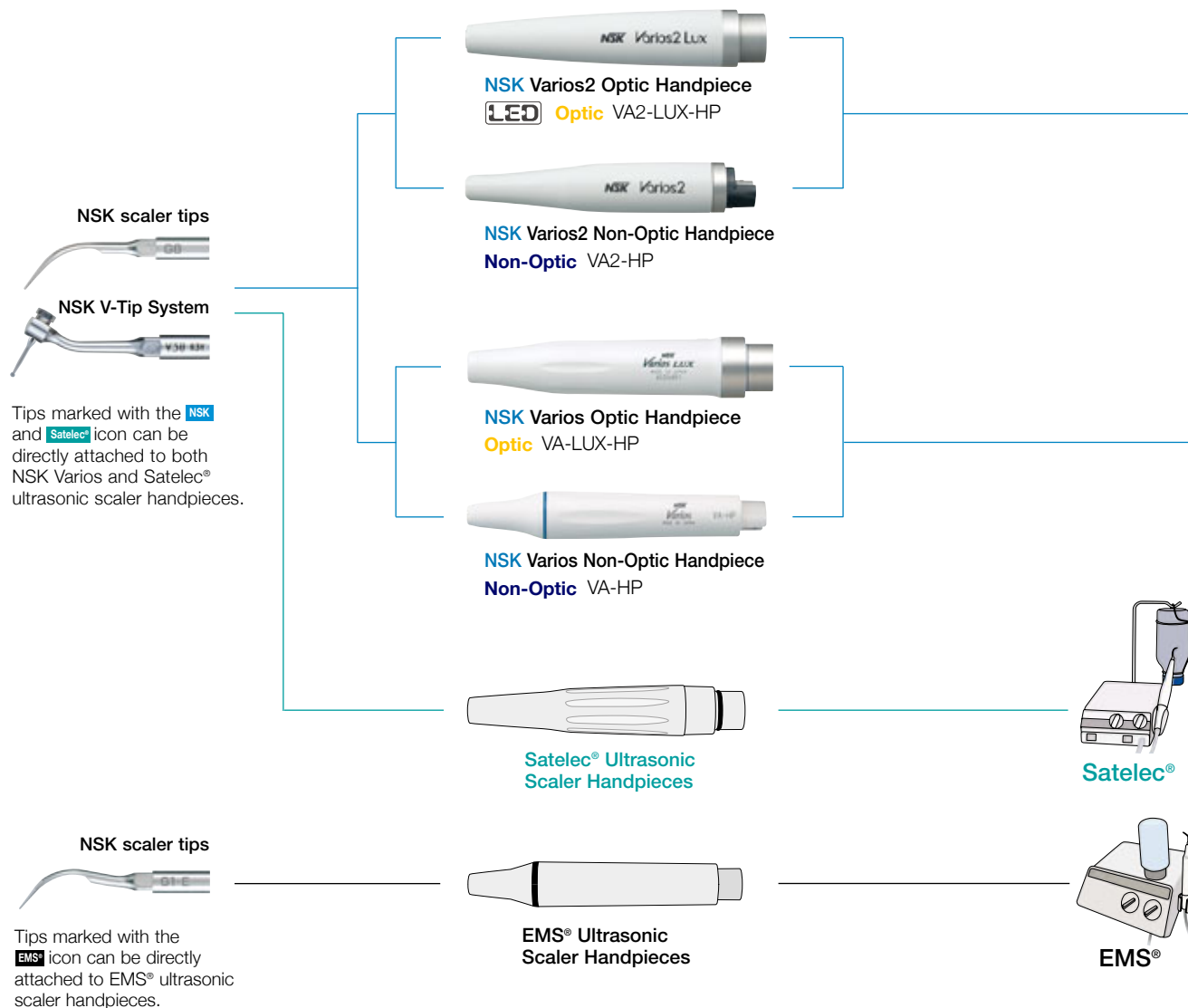
Washable in the thermosensor



Autoclavable up to 135°C

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.



Varios series

Powered by
iPiezo engine®



Varios 970
Clinical Multi Function
Ultrasonic Scaler with 2Bottles



Varios 370
Compact Multipurpose
Control Unit at Your Fingertips

Varios

Varios 750
Clinical Ultrasonic Scaler with Bottle

Varios 560
Compact Multi Function Ultrasonic Scaler

Varios 350
Compact Multi Function Ultrasonic Scaler

INTRODUCTION

This manual aims to help you choose ultrasonic tips and advises you on their use. For decades, ultrasonics have been used in odonto-stomatology as well as in many surgical specialities. However, this technology is still underused in treatment in comparison with its numerous clinical applications.

NSK offers a range of “non-specialised” tips and specialised micro-tips. For increased effectiveness, these micro-tips require a stand-alone generator with adjustable and reproducible power together with an independent irrigation system.

The system is broken down into 3 elements:

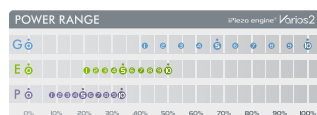
- The generator
- The handpiece
- The tip

The piezoelectric generator provides an accurate and reproducible power scale with 3 operating ranges. The different modes, P (perio), E (endo) and G (general) allow the power to be selected according to the tip's clinical indication.

The independent reservoirs enable irrigation by specific antiseptics at suitable temperatures.

NSK handpieces, whether optic or non-optic are lightweight and easy to handle. They provide improved tactile sensitivity in areas with no visual access. The smaller diameter, particularly in the optic handpiece, gives access to even the most posterior areas of the oral cavity.

There are many tips for dealing with various clinical indications. They are designed to provide access and thus optimise the action of the working end fitting. Tip selection is guided by the treatment objective. (ref tables)



Application power range for NSK varios tips when used with NSK Varios2 ultrasonic scaler



Easily interchangeable Solution bottles



Twin LED lights

FUNDAMENTAL BASIS OF ULTRASONICS

The physics of ultrasonics on the same template as the piezosurgery handbook:

Ultrasonic equipment which combines irrigation with the movement of the tip in a single area produces 6 distinct effects:

Scanning: acts on the biofilm

Hammering: acts on mineralised deposits

Abrasion: acts on mineralised deposits and granulation tissue

Washing: acts on the biofilm and mineralised deposits

Micro-streaming: acts on the biofilm

Cavitation: acts on decontaminating the pocket

Depending on the treatment objectives, these effects are sought “more or less”.

It is important to understand that the vibration movement, depending on its orientation on the work surface, has 2 clinical applications. Scanning the biofilm when the tip is tangential to the root surface. Hammering tartar when the tip is perpendicular to the debris to be removed.





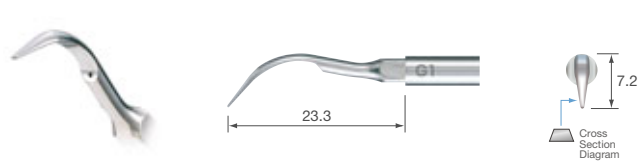
SCALING

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.



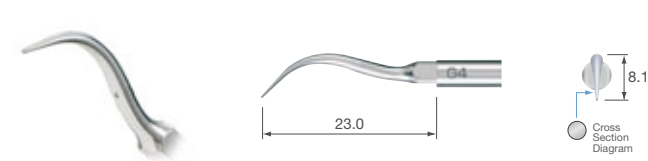
NSK Satelec® MODEL G1 ORDER CODE Z217101

EMS® MODEL G1-E ORDER CODE Z291101



Single rooted / Multi rooted

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



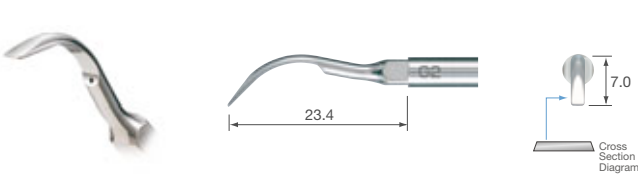
NSK Satelec® MODEL G4 ORDER CODE Z217104

EMS® MODEL G4-E ORDER CODE Z291104



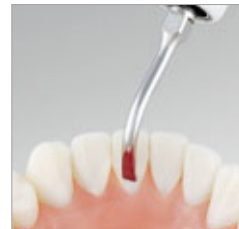
Single rooted / Multi rooted

- G2**
- Removal of supra gingival tartar.



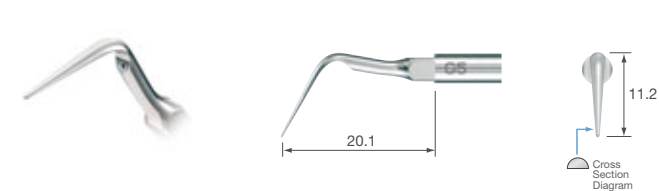
NSK Satelec® MODEL G2 ORDER CODE Z217102

EMS® MODEL G2-E ORDER CODE Z291102



Single rooted / Multi rooted

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

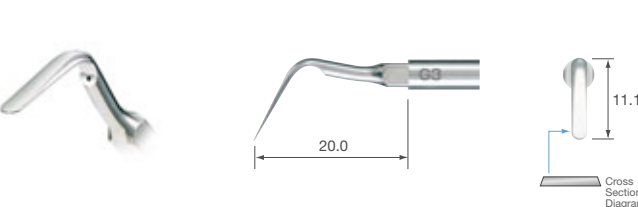


NSK Satelec® MODEL G5 ORDER CODE Z217105



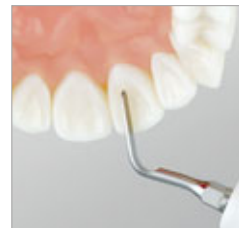
Single rooted / Multi rooted

- G3**
- Removal of supra gingival tartar.



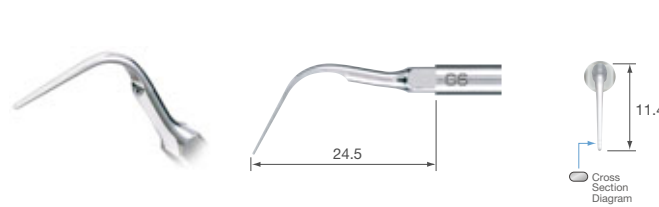
NSK Satelec® MODEL G3 ORDER CODE Z217103

EMS® MODEL G3-E ORDER CODE Z291103



Single rooted / Multi rooted

- 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

EMS® MODEL G6-E ORDER CODE Z291106

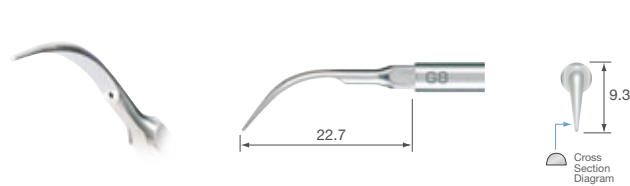


Single rooted / Multi rooted

SCALING



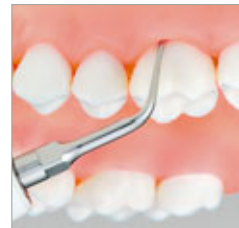
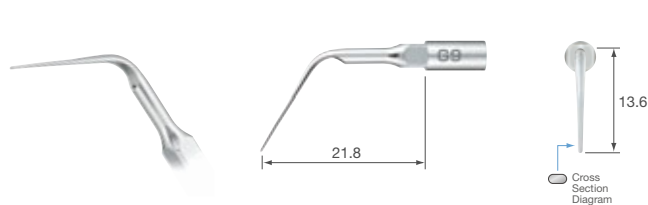
- G8**
- Removal of supra gingival tartar.
 - Removal of tartar narrow interdental space.
 - Removal of marginal gingival calculus.



Single rooted / Multi rooted

NSK Satelec® MODEL G8 ORDER CODE Z217108

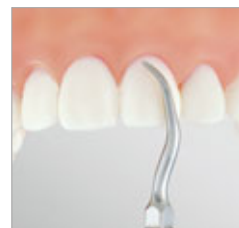
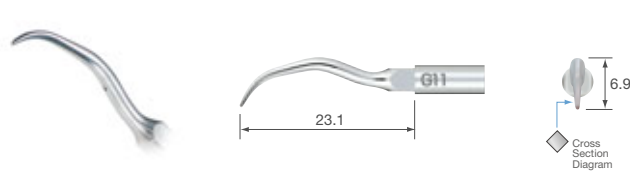
- G9**
- Removal of supra gingival tartar.
 - Removal of tartar narrow interdental space.
 - Removal of marginal gingival calculus.
 - Removal of gingival biofilm under natural tooth.



Single rooted / Multi rooted

NSK Satelec® MODEL G9 ORDER CODE Z217109

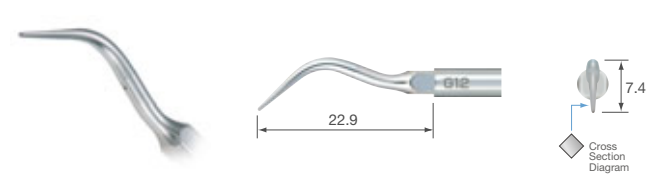
- G11**
- Removal of supra gingival tartar.



Single rooted / Multi rooted

NSK Satelec® MODEL G11 ORDER CODE Z217411

- G12**
- Removal of supra gingival tartar.



Single rooted / Multi rooted

NSK Satelec® MODEL G12 ORDER CODE Z217412

- G13**
- Removal of supra gingival tartar.



Single rooted / Multi rooted

NSK Satelec® MODEL G13 ORDER CODE Z217413

* 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.

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Refer to the power guide on pages 64-65.



PERIO

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.

THE PHILOSOPHY OF ULTRASONIC TREATMENTS IN PERIODONTICS

Since the beginning of time, man has continually sought to push his boundaries. The desire for progress and the use of new technologies is particularly challenging for dentists who must now be able to integrate periodontics into their general practice.

While conventional, non-surgical treatment is considered as the "Gold Standard", the fact remains that if access to a certain site is difficult, disinfection is not comprehensive and the quality of the curettage is still sometimes insufficient. These manual treatments are often tedious for the dentist and uncomfortable for the patient.

Knowledge and understanding of ultrasonics and advances in the design of micro-tips are just some of the elements which mark the superiority of the ultrasonics treatment (Kocher, 1997 Gagnot et al in 1999 Gagnot, JPIO 2002) and push the boundaries of periodontal surgery. (Brent Scott et al 1999, Himeno 1994)(Ishikawa and Baehni, 2004; Heitz-Mayfield 2005)

We understand that the chances of reattachment and regeneration are related to the biocompatibility of tissues (cementum, gingival wall, periodontal ligament). Therefore the clinical challenge lies in the disruption of the biofilm and plaque retention elements (mineralised debris), while protecting tissues vital to healing (Goncalves and coll, 2008) (Fuzaka and Nishimura 1994. Smart et al 1990).

Unlike other systems, the piezoelectric system provides a tip movement in the spindle of the handpiece. This movement controls the tip and allows the status of the surfaces to be respected by limiting iatrogenic effects. (Joki Kasthira et al 92)

The preserved tissues will allow the formation of a new attachment.

This control of ultrasonics and the movement of the tip allows us to tackle the idea of "tissue ecology", preserving the periodontal environment in order to permit long-term healing.

RECOMMENDATIONS FOR THE USE OF MICRO-TIPS IN PERIODONTICS

These usage recommendations aim to increase the effectiveness of the vibrating action and develop tactile sensitivity. These concepts are fundamental in optimising the effectiveness of the debridement.

ERGONOMICS

Adjustment in perio mode at low speed

Micro-irrigation adjustment.

Brush socket of the handpiece with three fingers:
thumb on the NSK handpiece of the handpiece



Easing the weight of the cord
Perioral pressure points



USING the tips

Light lateral pressure against the cemental surface

Work on the last two mm

Put in the salient line on the root surface (Viguié photos: file position 2mm from the tip)

Always remain in contact with the surface

Remember the concept of methodical, slow, limited scanning

Coronary access and lateral access of hard deposits.

PRESENTATION OF THE RANGE OF MICRO-TIPS IN PERIODONTICS

The micro-tips used in the treatment of periodontitis (reference P) are different from the non-specialised tips (reference G) used on enamel for scaling. The P micro-tips are used at low speeds in order to reduce iatrogenic effects on the cementum and to develop the dentist's tactile sensitivity.

■ Scaling Tips ➔ P.8-11

The profile of the tip's active area, located in the last 2mm, allows us to differentiate between them. A suitable profile makes it possible to work effectively at low speeds in deep pockets without injected anaesthetic.

There are three main families of micro-tip: Curette micro-tips, round micro-tips and diamond micro-tips (ref Gilles Gagnot book). These tips are used carefully and methodically. (ref tables)

Curette micro-tips (P10, P26R, P26L) are used in the initial stages of treatment. Round (P1, P20, P21R, P21L, P25R, P25L) and composite (V-P10) micro-tips are appropriate for the maintenance stage and diamond micro-tips (P1D, P2D, P3D) are kept for the treatment of abscesses, persistent inflammatory and furcation areas. ■ Perio Tips ➔ P.18-27

The table presents the different indications for each of the tips and their usage speed.

This guide gives details of the tips in combination with clinical videos in order to improve the learning curve.

The equipment offered by NSK is suited to the implementation of current cleaning techniques by fully meeting the specifications.

TIP No.	Scaling tip									
	G1	G2	G3	G4	G5	G6	G8	G11	G12	G13
Mode selection	G	G	G	G	G	G	G	G	G	G
Single rooted	●	●	●	●	●	●	●	●	●	●
Multirooted	●	●	●	●	●	●	●	●	●	●
Removal supra gingival tartar	●	●	●	●	●	●	●	●	●	●
Removal tartar interdental narrow space	●				●	●	●			
Removal marginal gingival calculus	●			●	●	●	●			
Removal tartar in deep gingival										
Removal gingival biofilm					●	●				
Removal on Biofilm furcation area										
Removal of Implant Biofilm										
Removal on junction biofilm prosthetic tooth										
Removal on biofilm dental erosion										
Incising of furcations										
Incising of abscess										
Peeling internal wall of pocket										

TIP No.	Micro tip round					Micro tip Curette			Micro tip diamond	
	P1	P20	P21R/L	P25R/L	V-P10	P10	P11R/L	P26R/L	P1D	P2D/3D
Mode selection	P	P	P	P	P	P	P	P	P	P
Single rooted	●	●	●	●	●	●	●	●	●	●
Multirooted		●	●	●	●	●	●	●	●	●
Removal supra gingival tartar						●				
Removal tartar interdental narrow space	●					●	●	●	●	●
Removal marginal gingival calculus						●				
Removal tartar in deep gingival							●	●	●	●
Removal gingival biofilm	●	●	●	●		●	●	●		
Removal on Biofilm furcation area				●			●	●		
Removal of Implant Biofilm					●					
Removal on junction biofilm prosthetic tooth					●					
Removal on biofilm dental erosion					●					
Incising of furcations							●	●		●
Incising of abscess									●	●
Peeling internal wall of pocket									●	●

BIBLIOGRAPHY

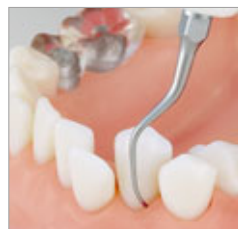
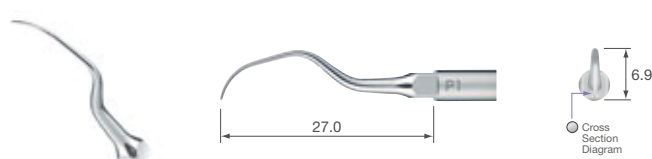
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How effective is surgical therapy compared with nonsurgical debridement?
Periodontol 2000. 2005;37:72-87.
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Nonsurgical periodontal therapy--where do we stand now?
Periodontol 2000. 2004;36:9-13.

PERIO



P1

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

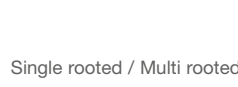
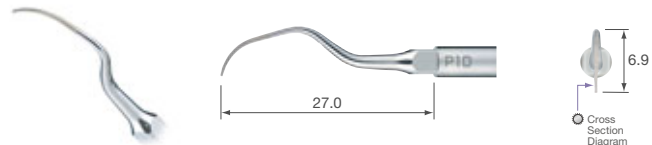


Single rooted

NSK Satelec® MODEL P1 ORDER CODE Z217404

P1D

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

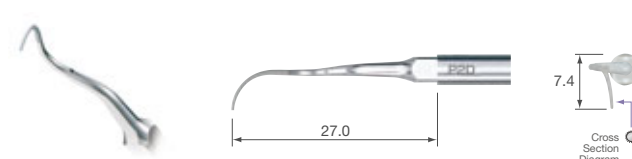


Single rooted / Multi rooted

NSK Satelec® MODEL P1D ORDER CODE Z217405 • Diamond coated

P2D

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

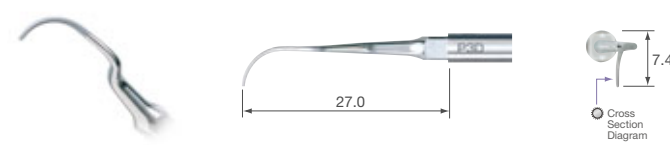


Single rooted / Multi rooted

NSK Satelec® MODEL P2D ORDER CODE Z217402 • Diamond coated
• Right curved type

P3D

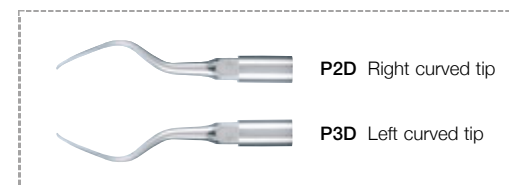
- Removal of tartar narrow interdental space.
- Removal of tartar in deep gingival.
- Debridement of furcations.
- Debridement of abscess.
- Peeling wall internal pocket.



Single rooted / Multi rooted

NSK Satelec® MODEL P3D ORDER CODE Z217403 • Diamond coated
• Left curved type

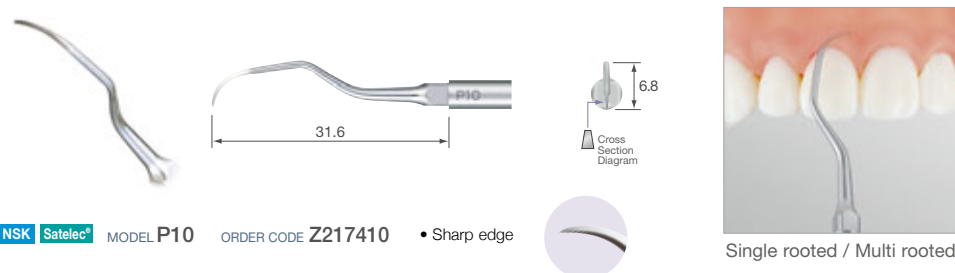
P2D / P3D (From above)



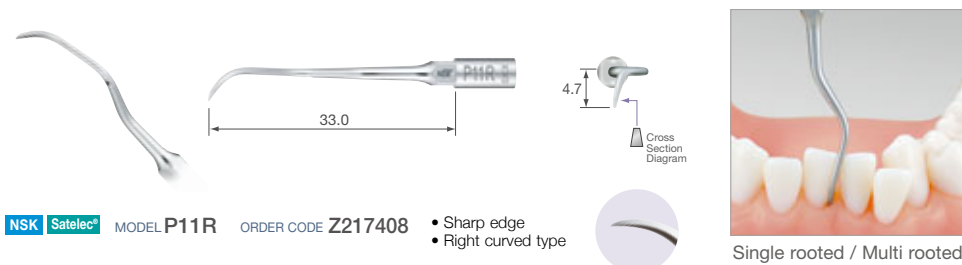
PERIO



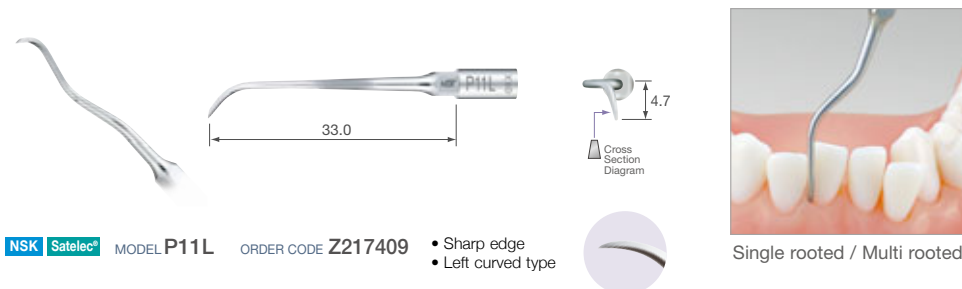
- P10**
- Removal of supra gingival tartar.
 - Removal of tartar narrow interdental space
 - Removal of marginal gingival calculus.
 - Removal of gingival biofilm.



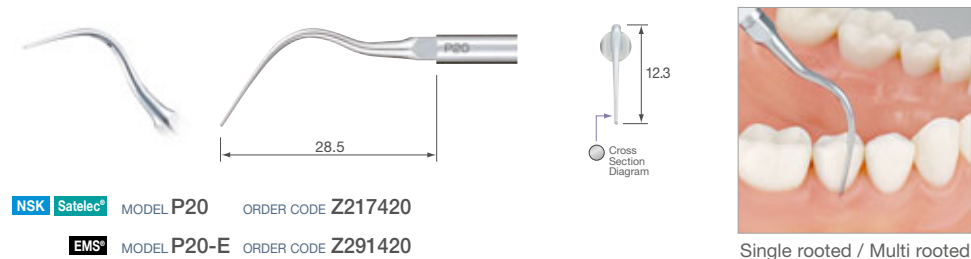
- P11R**
- Removal of tartar narrow interdental space.
 - Removal of tartar in deep gingival.
 - Removal of gingival biofilm.
 - Removal of Biofilm furcation area.
 - Debridement of furcations.



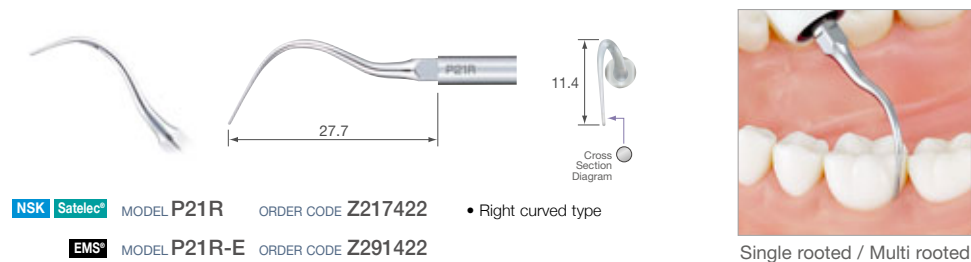
- P11L**
- Removal of tartar narrow interdental space.
 - Removal of tartar in deep gingival.
 - Removal of gingival biofilm.
 - Removal of Biofilm furcation area.
 - Debridement of furcations.



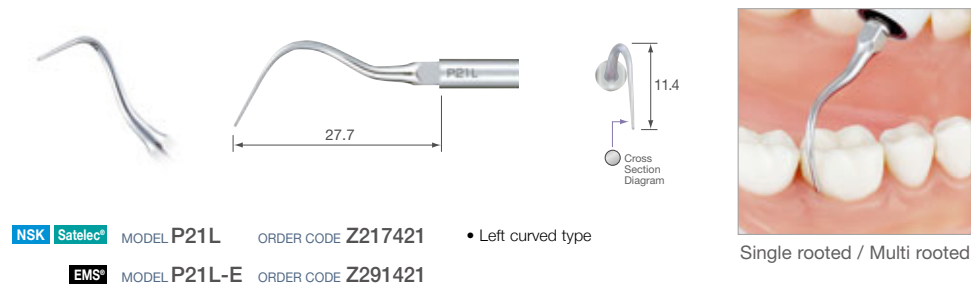
- P20**
- Removal of gingival biofilm.



- P21R**
- Removal of gingival biofilm.



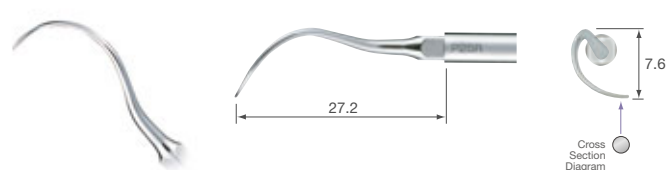
- P21L**
- Removal of gingival biofilm.



PERIO



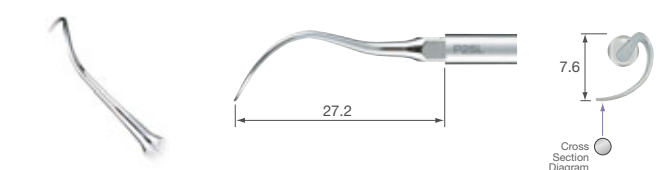
P25R • Removal of gingival biofilm. • Removal of Biofilm furcation area.



Single rooted / Multi rooted

NSK Satelec® MODEL P25R ORDER CODE Z217424 • Right curved type
EMS® MODEL P25R-E ORDER CODE Z291424

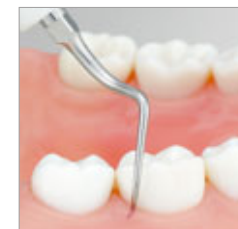
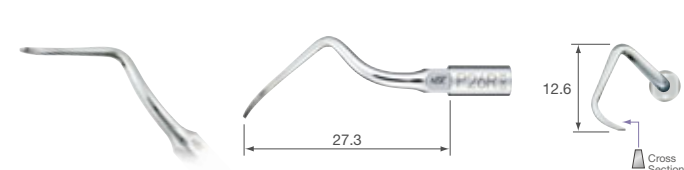
P25L • Removal of gingival biofilm. • Removal of Biofilm furcation area.



Single rooted / Multi rooted

NSK Satelec® MODEL P25L ORDER CODE Z217425 • Left curved type
EMS® MODEL P25L-E ORDER CODE Z291425

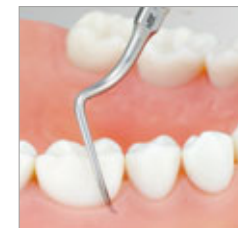
P26R • Removal of tartar narrow interdental space. • Removal of tartar in deep gingival. • Removal of gingival biofilm. • Removal of Biofilm furcation area. • Debridement of furcations.



Single rooted / Multi rooted

NSK Satelec® MODEL P26R ORDER CODE Z217426 • Sharp edge
• Right curved type

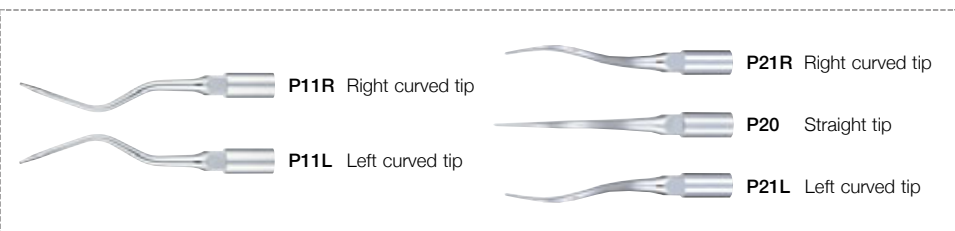
P26L • Removal of tartar narrow interdental space. • Removal of tartar in deep gingival. • Removal of gingival biofilm. • Removal of Biofilm furcation area. • Debridement of furcations.



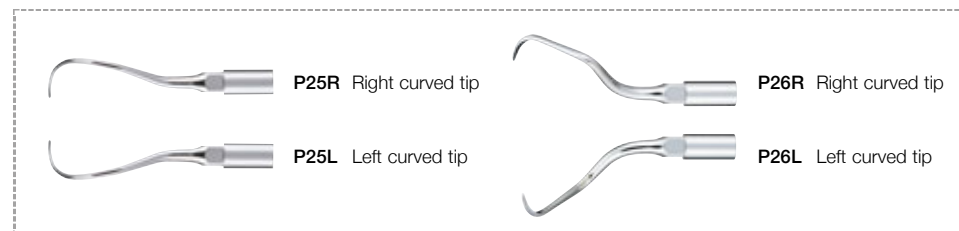
Single rooted / Multi rooted

NSK Satelec® MODEL P26L ORDER CODE Z217427 • Sharp edge
• Left curved type

P11R / P11L / P21R / P20 / P21L (From above)



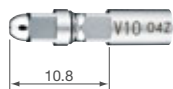
P25R / P25L / P26R / P26L (From above)



Perio-Control (Maintenance Tip)

■ V-Tip System → Pages 48-51

V10



NSK Satelec® MODEL V10 ORDER CODE Z217041

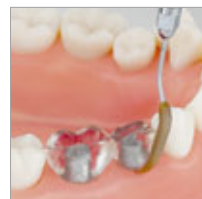
- Includes E-Tip replacement wrench
- * Plastic Tip is not included

V-P10

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



MODEL V-P10 ORDER CODE Y900184 • Pack of 3
* V10 holder is not included

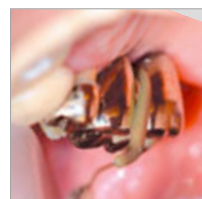


V-P11R/L left and right are double bent tips. This tip is extra long to easily access difficult to reach areas and to avoid interference with neighbouring teeth or contours. Its shape was designed to best fit different tooth morphologies, making this a versatile tip for a wide range of uses from anterior teeth to premolars.

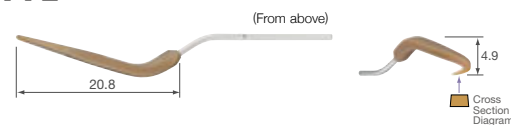
V-P11R



MODEL V-P11R ORDER CODE Y1002165 • Pack of 3 • Right curved type
* V10 holder is not included



V-P11L



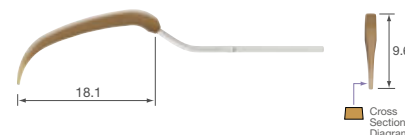
MODEL V-P11L ORDER CODE Y1002166 • Pack of 3 • Left curved type
* V10 holder is not included

* 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.



V-P12

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.



MODEL V-P12 ORDER CODE Y1002167 • Pack of 3
* V10 holder is not included



V-P26R/L is a double-bent tips. 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-P26R



MODEL V-P26R ORDER CODE Y1002168 • Pack of 3 • Right curved type
* V10 holder is not included



V-P26L



MODEL V-P26L ORDER CODE Y1002169 • Pack of 3 • Left curved type
* V10 holder is not included

Starter Kit

NSK Satelec® MODEL Perio-Control Tips ORDER CODE Y1002606
Starter Kit

- V10 holder : 1 pc.
- V-P11R, V-P11L, V-P12, V-P26R, V-P26L : 1 pc. each
- Includes E-Tip replacement wrench

Satelec® is registered trademarks of Acteon SA, France.

Refer to the power guide on pages 64-65.

PERIO (Irrigation and Cleaning)

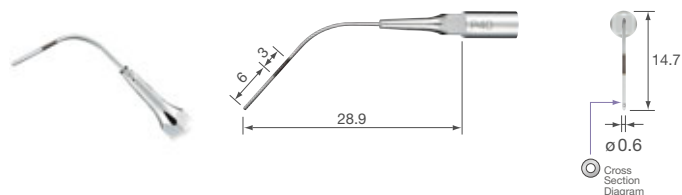
For effective cleaning following debridement or scaling.

*No scaling effect



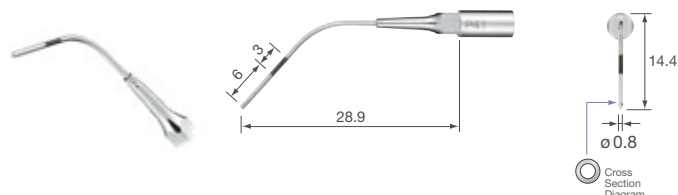
P40

- Safe to use regardless of the pocket condition due to the marking guideline of 3 mm from the position of 6 mm.



NSK Satelec® MODEL P40 ORDER CODE Z217550 • Tip diameter \varnothing 0.6 mm

P41



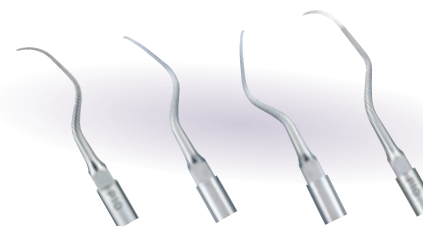
NSK Satelec® MODEL P41 ORDER CODE Z217555 • Tip diameter \varnothing 0.8 mm

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.

Perio Kit A



NSK Satelec® MODEL Perio Kit A ORDER CODE Y900144

- P1D, P2D, P3D, P10 : 1 pc. each
- Tip holder : 1 pc.

Perio Kit B



NSK Satelec® MODEL Perio Kit B ORDER CODE Y900145

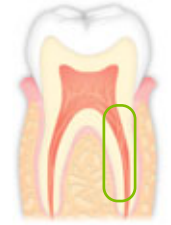
- P20, P25R, P25L : 1 pc. each
- Tip holder : 1 pc.



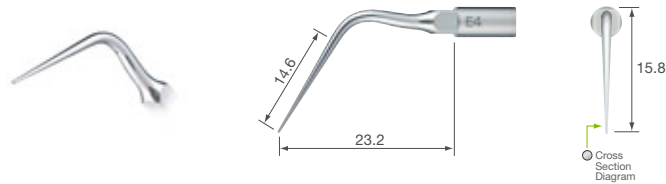
ENDODONTICS

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.



NSK Satelec® MODEL E4 ORDER CODE Z217428

E7 • Removal of filling and foreign material.



NSK Satelec® MODEL E7 ORDER CODE Z217307 • Water not required

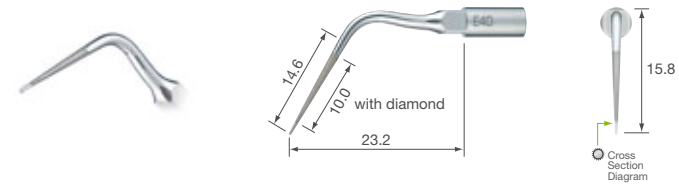


E8 • Removal of filling and foreign material.

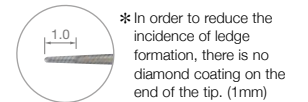


NSK Satelec® MODEL E8 ORDER CODE Z217308 • Water not required

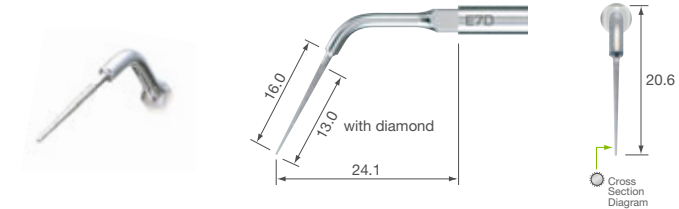
E4D • Application for root canal cleaning and root canal enlargement.



NSK Satelec® MODEL E4D ORDER CODE Z217528 • Diamond coated



E7D • Enlargement of root canal wall.



NSK Satelec® MODEL E7D ORDER CODE Z217317 • Diamond coated

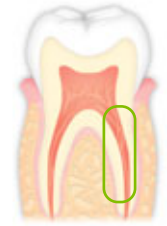


E8D • Enlargement of root canal wall.

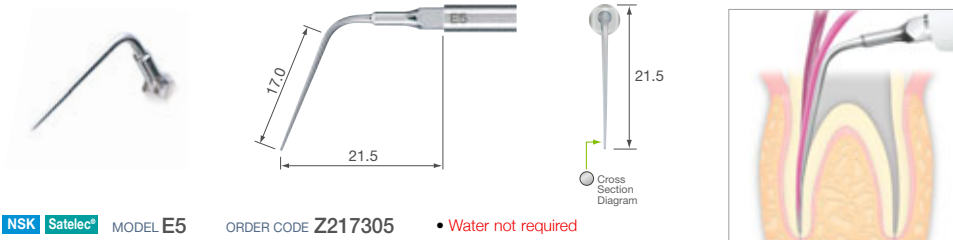


NSK Satelec® MODEL E8D ORDER CODE Z217318 • Diamond coated

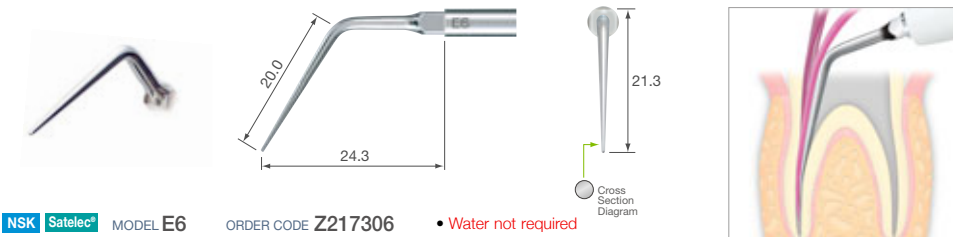
ENDODONTICS



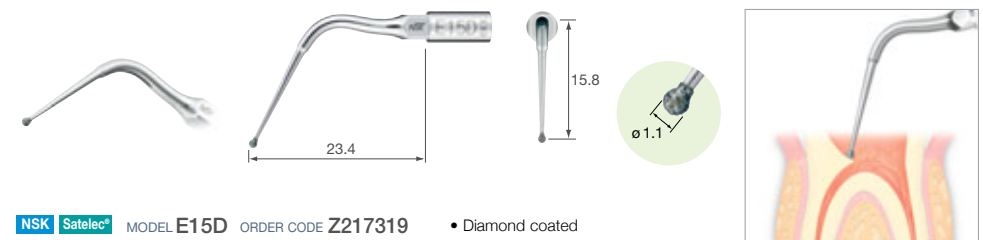
E5 • Lateral condensation.



E6 • Lateral condensation.



E15D • For locating root canals and removal of calcifications.



ENDODONTICS



E11 • 120° Angle Holder for U files



NSK Satelec® MODEL E11 ORDER CODE Z217031

- 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



NSK Satelec® MODEL E12 ORDER CODE Z217032

- 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

- ISO15 • Pack of 6
- ISO20 • Pack of 6
- ISO25 • Pack of 6
- ISO30 • Pack of 6
- ISO35 • Pack of 6

MODEL U files 33 mm / #15 ORDER CODE Y900062

MODEL U files 33 mm / #20 ORDER CODE Y900063

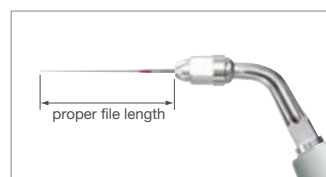
MODEL U files 33 mm / #25 ORDER CODE Y900064

MODEL U files 33 mm / #30 ORDER CODE Y900065

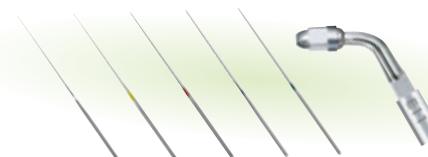
MODEL U files 33 mm / #35 ORDER CODE Y900066

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

	#15	#20	#25	#30	#35
E11	22 mm	24.5 mm	22 mm	22 mm	22 mm
E12	22 mm	24.5 mm	24.5 mm	24.5 mm	22 mm



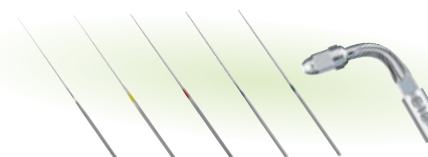
Endo Kit E11 For anterior teeth



NSK Satelec® MODEL Endo Kit E11 ORDER CODE Y900146

- 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



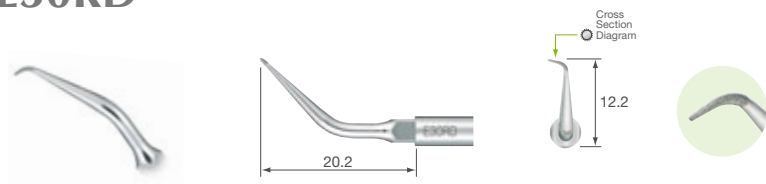
NSK Satelec® MODEL Endo Kit E12 ORDER CODE Y900147

- 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

RETROGRADE ENDO

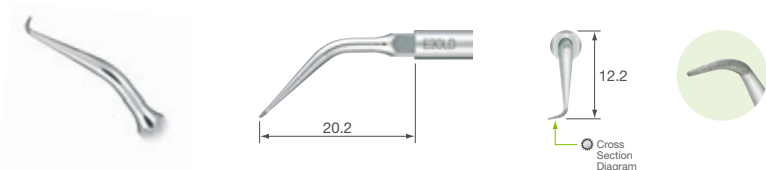
The microscopic diamond coated tip allows effective removal of dentin at the apex.
2 types of angled tips (90°, 70°) are available for anterior teeth and another 2 types of curved tips (right and left) are available for molar teeth.

E30RD • Diamond coated tip allows efficient cavity preparation.



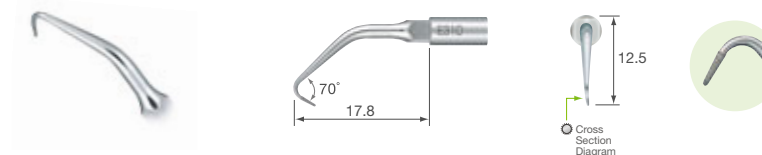
NSK Satelec® MODEL E30RD ORDER CODE Z217212 • Diamond coated • For posterior teeth (right angled)

E30LD • Diamond coated tip allows efficient cavity preparation.



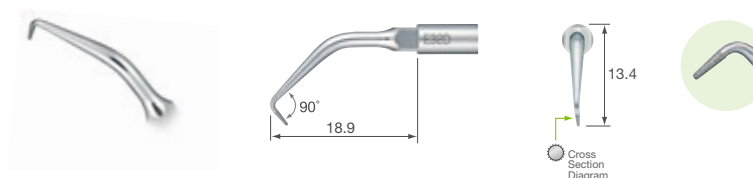
NSK Satelec® MODEL E30LD ORDER CODE Z217213 • Diamond coated • For posterior teeth (left angled)

E31D • Diamond coated tip allows efficient cavity preparation.



NSK Satelec® MODEL E31D ORDER CODE Z217210 • Diamond coated • For anterior and posterior teeth (70°)

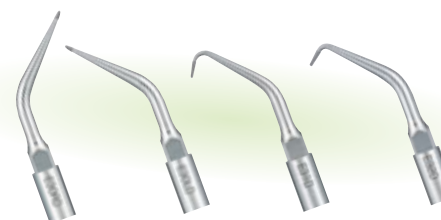
E32D • Diamond coated tip allows efficient cavity preparation.



NSK Satelec® MODEL E32D ORDER CODE Z217211 • Diamond coated • For anterior teeth (90°)



Retro Kit



NSK Satelec® MODEL Retro Kit ORDER CODE Y900149

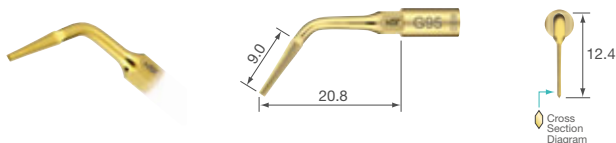
- E30RD, E30LD, E31D, E32D : 1 pc. each
- Tip holder : 1 pc.

EXTRACTION

Periodontal membrane removal Tip



G95 • Tooth extraction is possible without excessively cutting the alveolar bone around the remaining root, retaining the morphology of the alveolar bone.



NSK MODEL G95

ORDER CODE Z217705

- TiN coating • 0.7mm thick
- A double edge, which is sharp in three directions

● Root extraction
(upper left No. 2 tooth removal)

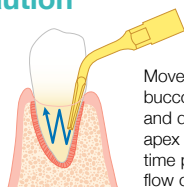


● Impacted tooth
(lower left No. 8 tooth removal)

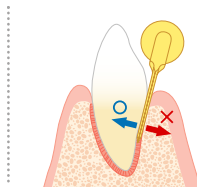


Be careful not to apply excessive force, as in cases of using elevators.

Caution



Move not only in the mesiodistal and buccolingual directions but also up and down as if delivering water to the apex (light pumping action). At that time pay particular attention to the flow of water irrigation.



To prevent damage to the alveolar bone, move tip apex along the contour of the tooth.

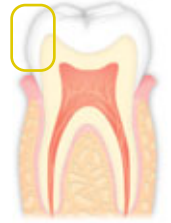
- Use of irrigation enhances performance.
- When used with Varios 970 choice of irrigation.

- Tip can be used on NSK ultrasonic units.

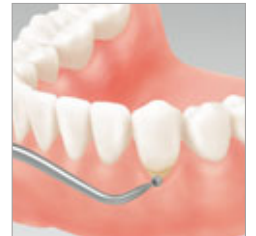
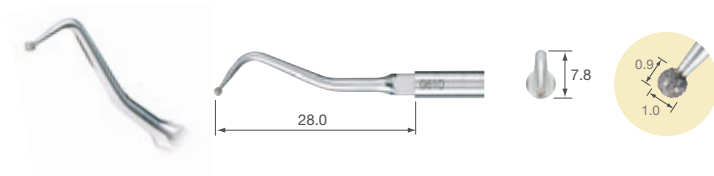
RESTORATIVE

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.

RESTORATIVE



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



NSK Satelec® MODEL **G61D** ORDER CODE **Z217601** • Diamond coated

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

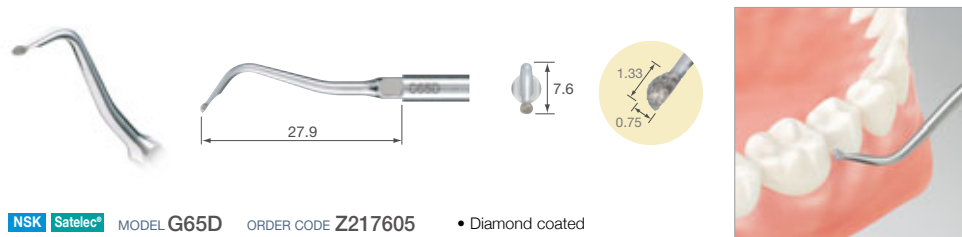


NSK Satelec® MODEL **G62D** ORDER CODE **Z217602** • Diamond coated

RESTORATIVE

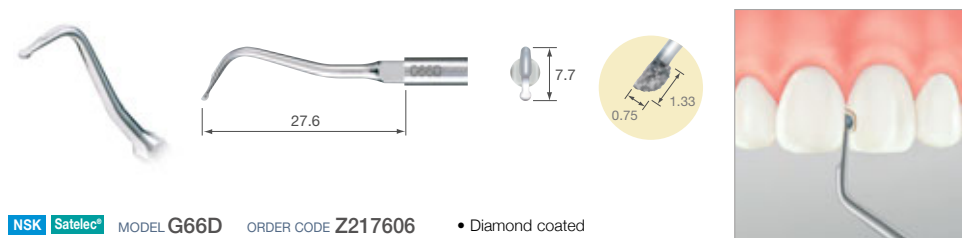


G65D • For molar, interdental proximal caries. The hemispherical top of the tip does not allow cutting of sound tooth.



NSK Satelec® MODEL G65D ORDER CODE Z217605 • Diamond coated

G66D • For anterior proximal caries. Only decayed dentin can be removed as per for molars.



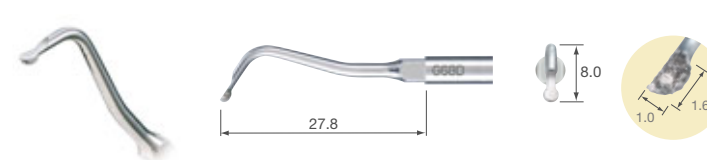
NSK Satelec® MODEL G66D ORDER CODE Z217606 • Diamond coated

G67D • For molar, interdental proximal caries. The hemispherical top of the tip does not allow cutting of sound tooth.



NSK Satelec® MODEL G67D ORDER CODE Z217607 • Diamond coated

G68D • For anterior proximal caries. Only decayed dentin can be removed as per for molars.



NSK Satelec® MODEL G68D ORDER CODE Z217608 • Diamond coated



PROSTHETICS

Tips for the removal of prostheses, for amalgam condensation are provided as well as for scaling, perio and endodontic.

PROSTHETICS

Condensation / Loosening / Plugging



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

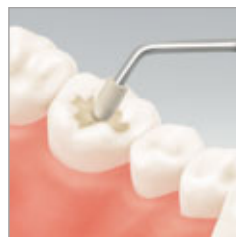


NSK Satelec® MODEL G21 ORDER CODE Z217010 • For anterior teeth • Water not required
• 3 caps supplied

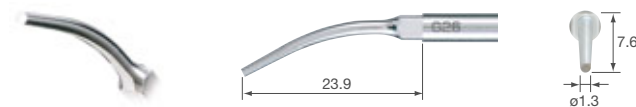
G22 • For cementing a large prosthesis such as an onlay or a crown for molar teeth.



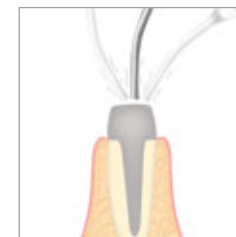
NSK Satelec® MODEL G22 ORDER CODE Z217020 • For posterior teeth • Water not required
• 3 caps supplied



G26 • Post removal. (ø1.3 mm thickness)



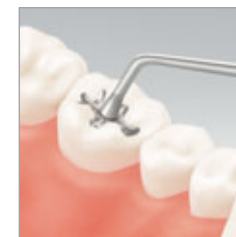
NSK Satelec® MODEL G26 ORDER CODE Z217206



G28 • Amalgam condensation.



NSK Satelec® MODEL G28 ORDER CODE Z217208 • Water not required



Tip Cap



MODEL Tip Cap ORDER CODE Y140751

- For G21 / G22
- Pack of 10
- Autoclavable



V-TIP SYSTEM

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

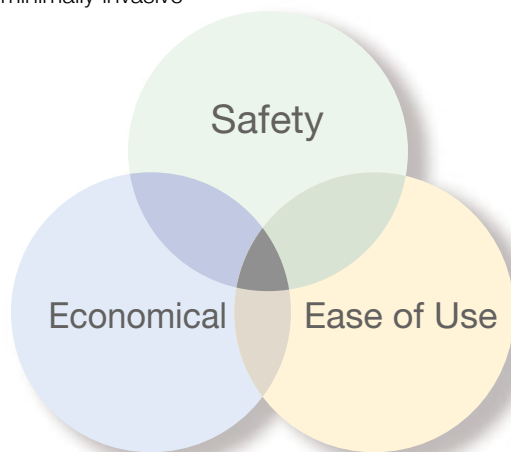
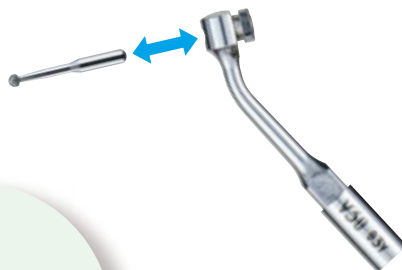


NSK Varios V-Tip holder system is innovative, multi-functional and economical. The V-Tip holder is a separate component to the actual cutting tips and can be easily and inexpensively replaced. NSK V-Tip holder system offers the flexibility and expandability to meet the wide requirements for multi-purpose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

3 Features

Safety

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



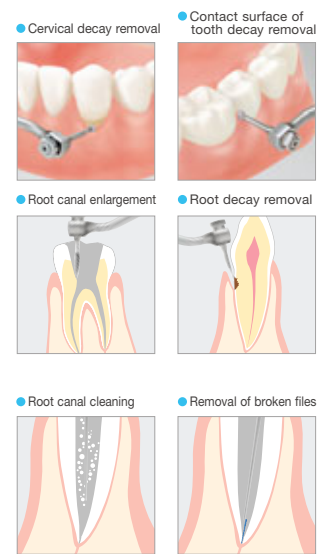
Economical

- 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 54-58

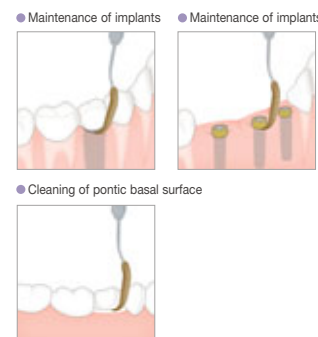
- For Minimal Intervention
- For Finishing / Trimming / Polishing
- For Caries Removal



Endodontics

Pages 52-53

- For Root Canal Cleaning
- For Root Canal Enlargement



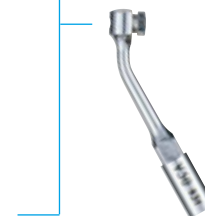
Maintenance

Pages 24-25

- Perio-Control • For Prostheses or Implant Maintenance



V10
Straight



V30
120° Angle type

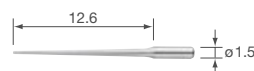


V-TIP SYSTEM (Endodontics)



For Root Canal Cleaning

V-S50



MODEL **V-S50** ORDER CODE **Y900169**

- For root canal cleaning 17 mm
- Pack of 3

V-S51



MODEL **V-S51** ORDER CODE **Y900170**

- For root canal cleaning 23 mm
- Pack of 3

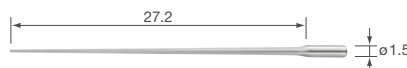
V-S52



MODEL **V-S52** ORDER CODE **Y900171**

- For root canal cleaning 26 mm
- Pack of 3

V-S53



MODEL **V-S53** ORDER CODE **Y900172**

- For root canal cleaning 32 mm
- Pack of 3

V30

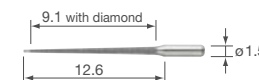


NSK Satelec® MODEL **V30** ORDER CODE **Z217030**

- Includes E Tip replacement wrench
- * Tip is optional

For Root Canal Enlargement

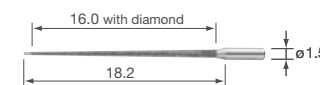
V-S50D



MODEL **V-S50D** ORDER CODE **Y900173**

- Diamond coated
- For root canal enlargement 17 mm
- Pack of 3

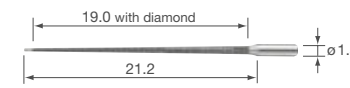
V-S51D



MODEL **V-S51D** ORDER CODE **Y900174**

- Diamond coated
- For root canal enlargement 23 mm
- Pack of 3

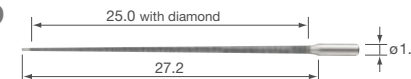
V-S52D



MODEL **V-S52D** ORDER CODE **Y900175**

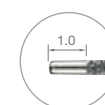
- Diamond coated
- For root canal enlargement 26 mm
- Pack of 3

V-S53D



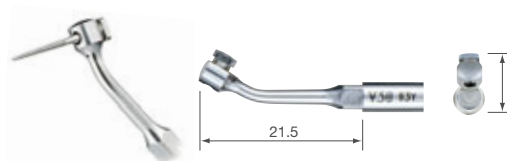
MODEL **V-S53D** ORDER CODE **Y900176**

- Diamond coated
- For root canal enlargement 32 mm
- Pack of 3



*In order to reduce the incidence of ledge formation, there is no diamond coating on the end of the tip. (1mm)

V30



NSK Satelec® MODEL **V30** ORDER CODE **Z217030**

- Includes E Tip replacement wrench
- * Tip is optional

V-TIP SYSTEM (Restorative)



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.

For Minimal Intervention

V-G70

MODEL **V-G70** ORDER CODE **Y900118**

- Diamond coated
- Pack of 3

V-G71

MODEL **V-G71** ORDER CODE **Y900119**

- Diamond coated
- Pack of 3

V-G72

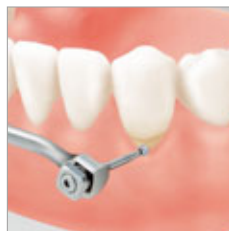
MODEL **V-G72** ORDER CODE **Y900120**

- Diamond coated
- Pack of 3

V30

NSK Satelec® MODEL **V30** ORDER CODE **Z217030**

- Includes E Tip replacement wrench
- * Tip is optional



For Minimal Intervention

V-G75

MODEL **V-G75** ORDER CODE **Y900121**

- Diamond coated
- Pack of 3

V-G76

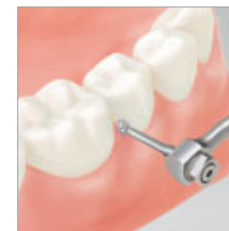
MODEL **V-G76** ORDER CODE **Y900122**

- Diamond coated
- Pack of 3

V30

NSK Satelec® MODEL **V30** ORDER CODE **Z217030**

- Includes E Tip replacement wrench
- * Tip is optional



V-TIP SYSTEM (Restorative)



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.



For Finishing / Trimming / Polishing

V-G77 Normal grade		MODEL V-G77 ORDER CODE Y900165 • Diamond coated • Pack of 3
V-G78 Fine grade		MODEL V-G78 ORDER CODE Y900166 • Diamond coated • Pack of 3
V-G79 Super fine grade		MODEL V-G79 ORDER CODE Y900167 • Diamond coated • Pack of 3

V30		NSK Satelec® MODEL V30 ORDER CODE Z217030 • Includes E Tip replacement wrench * Tip is optional
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For Caries Removal

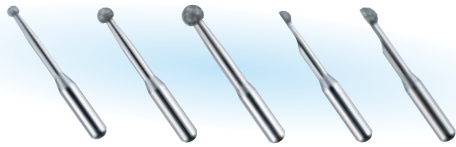
V-S1		MODEL V-S1 ORDER CODE Y900161 • Stainless tip • Pack of 3
V-S3		MODEL V-S3 ORDER CODE Y900162 • Stainless tip • Pack of 3
V-S33		MODEL V-S33 ORDER CODE Y900163 • Stainless tip • Pack of 3

V30		NSK Satelec® MODEL V30 ORDER CODE Z217030 • Includes E Tip replacement wrench * Tip is optional
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V-TIP SYSTEM (Restorative)



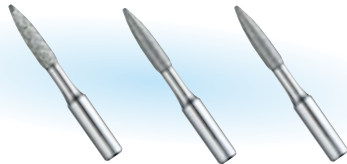
Assorted Tip Kit (For Minimal Intervention)



MODEL **Assorted Tip Kit** ORDER CODE **Y900158**

- V-G70, V-G71, V-G72, V-G75, V-G76 : 1 pc. each

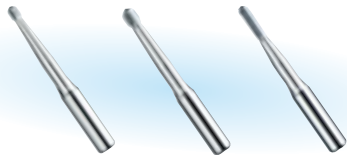
Assorted Tip Kit (For Finishing / Trimming / Polishing)



MODEL **Assorted Tip Kit** ORDER CODE **Y900168**

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

Assorted Tip Kit (For Caries Removal)



MODEL **Assorted Tip Kit** ORDER CODE **Y900164**

- V-S1, V-S3, V-S33 : 1 pc. each

Varios 970 Optic / Non-Optic

iPiezo engine®



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 all new Varios features the latest developments in piezo technology; The iPiezo 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

* as of Nov. 2009

Specifications

- Power Supply : AC 120V or 230V 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)



Varios 970 Complete Sets



Optic Varios 970 Optic Complete Sets

MODEL VA970 LUX (120V) ORDER CODE Y1001166

MODEL VA970 LUX (230V) ORDER CODE Y1001168

Non-Optic Varios 970 Non-Optic Complete Sets

MODEL VA970 (120V) ORDER CODE Y1001174

MODEL VA970 (230V) ORDER CODE Y1001175

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

Varios 370 Optic / Non-Optic

iPiezo engine®



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
- Large water adjustment and power knob for easy operation
- Holders are available for various installation
- Handpiece is washable in the thermosinfector 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 : W80 x D115 x H32 (mm)
(with out knob and cord)
- Unit weight : 0.43 kg (without attachment)

Varios 370 Units Installation Examples



On the dental console arm with Stand (optional).



On/Under the dental bracket table with Control Unit Holder

Varios 370 Complete Sets



Optic Varios 370 Optic Complete Sets

MODEL VA370 LUX (120V) ORDER CODE Y1001956

MODEL VA370 LUX (230V) ORDER CODE Y1001343

Non-Optic Varios 370 Non-Optic Complete Sets

MODEL VA370 (120V) ORDER CODE Y1001958

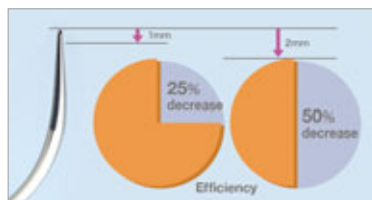
MODEL VA370 (230V) ORDER CODE Y1001340

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, G6, G8) • Tip wrench with torque limiter

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



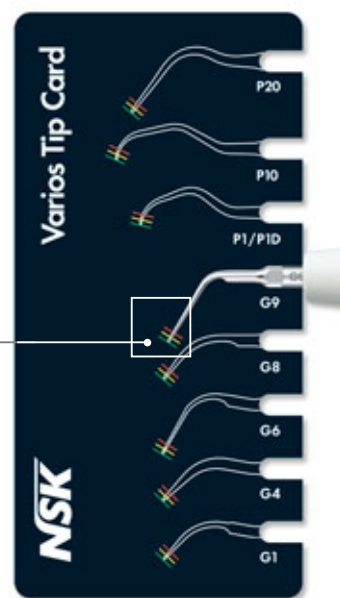
Yellow: Wear of 1mm - Tip is showing some wear

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/P1D, P10, and P20



Tip Replacement Wrench with Torque Limiter

For tips G1- G68D, G95, P1- P41, E4, E4D, E15D, E30RD, E30LD, E31D, E32D and V-tip replaceable insets.

*Please tighten the tip until it clicks.



E Tip Replacement Wrench

For V10 (V-tip holder), tips E5, E6, E7, E7D, E8, E8D, E11, E12 and the inserts of V30 (V-tip holder).

The Varios Tip Videos

Please watch the videos about the Varios tip range at the below websites to experience the precision and quality that is synonymous with NSK.

NSK Web site

INTERNATIONAL	http://www.nsk-dental.com
GERMANY	http://www.germany.nsk-dental.com
UNITED KINGDOM	http://www.nsk-uk.com
FRANCE	http://www.nsk.fr
SPAIN	http://www.spain.nsk-dental.com
RUSSIA	http://www.russia.nsk-dental.com
USA / CA	http://www.nsk-dental.com
Latin America & Caribbean	http://www.latin-america.nsk-dental.com



Varios 970 product description

- Features of the Varios 970 Varios series
- Maintenance



Varios tip descriptions

- Tip variations
- Choose according to the case
- Choose according to the tip



Doctors Comments

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.

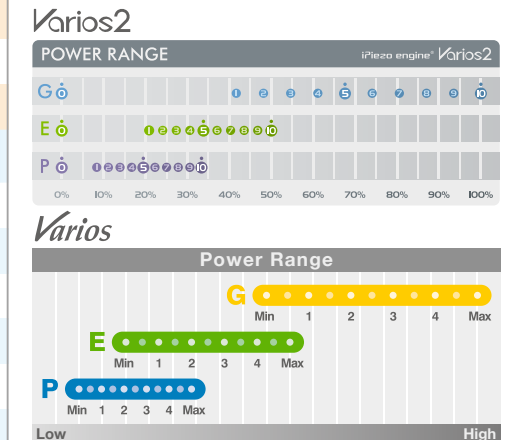
Tip No.	NSK		Satelec® P-Max XS P5 XS	EMS® Piezon Master 600 (miniMaster)
	Varios2 970/370	Varios 750/560/350		
SCALING				
G1	Ⓒ 7	Ⓒ 3	15	Ⓔ 6
G2	Ⓒ 7	Ⓒ Max	15	Ⓔ 6
G3	Ⓒ 7	Ⓒ 3	15	Ⓔ 3
G4	Ⓒ 5	Ⓒ 3	15	Ⓔ 3
G5	Ⓒ 6	Ⓒ 3	15	—
G6	Ⓒ 8	Ⓒ 1	15	Ⓔ 6
G8	Ⓒ 7	Ⓒ 3	15	—
G9	Ⓒ 5	Ⓒ 1	15	—
G11	Ⓒ 6	Ⓒ 3	15	—
G12	Ⓒ 7	Ⓒ 3	15	—
G13	Ⓒ 6	Ⓒ 3	15	—
PERIO / MAINTENANCE				
P1	Ⓔ 6	Ⓔ 2	5	—
P1D	Ⓔ 10	Ⓔ 2	5	—
P2D	Ⓔ 8	Ⓔ 4	5	—
P3D	Ⓔ 8	Ⓔ 4	5	—
P10	Ⓔ 10	Ⓔ Max	5	—
P11R	Ⓔ 10	Ⓔ Max	5	—
P11L	Ⓔ 10	Ⓔ Max	5	—
P20	Ⓔ 8	Ⓔ 4	5	Ⓔ 6
P21R	Ⓔ 8	Ⓔ 4	5	Ⓔ 6
P21L	Ⓔ 8	Ⓔ 4	5	Ⓔ 6
P25R	Ⓔ 10	Ⓔ 4	5	Ⓔ 6
P25L	Ⓔ 10	Ⓔ 4	5	Ⓔ 6
P26R	Ⓔ 6	Ⓔ 3	5	—

Tip No.	NSK		Satelec® P-Max XS P5 XS	EMS® Piezon Master 600 (miniMaster)
	Varios2 970/370	Varios 750/560/350		
P26L	Ⓔ 6	Ⓔ 3	5	—
P40	Ⓔ 3	Ⓔ 1	5	—
P41	Ⓔ 3	Ⓔ 1	5	—
V-P10	Ⓔ 6	Ⓔ 3	5	—
V-P11R	Ⓔ 6	Ⓔ 3	5	—
V-P11L	Ⓔ 6	Ⓔ 3	5	—
V-P12	Ⓔ 6	Ⓔ 3	5	—
V-P26R	Ⓔ 6	Ⓔ 3	5	—
V-P26L	Ⓔ 6	Ⓔ 3	5	—
ENDODONTICS				
E4	Ⓔ 6	Ⓔ 3	10	—
E4D	Ⓔ 7	Ⓔ 3	10	—
E5	Ⓔ 10	Ⓔ 3	10	—
E6	Ⓔ 10	Ⓔ 4	10	—
E7	Ⓔ 6	Ⓔ Max	10	—
E7D	Ⓔ 6	Ⓔ Max	10	—
E8	Ⓔ 2	Ⓔ 4	10	—
E8D	Ⓔ 2	Ⓔ 4	10	—
E15D	Ⓔ 6	Ⓔ 3	10	—
E11	Ⓔ 4	Ⓔ 3	10	—
E12	Ⓔ 3	Ⓔ 3	10	—
E30RD	Ⓔ 6	Ⓔ 3	10	—
E30LD	Ⓔ 6	Ⓔ 3	10	—
E31D	Ⓔ 6	Ⓔ 3	10	—
E32D	Ⓔ 6	Ⓔ 3	10	—

Tip No.	NSK		Satelec® P-Max XS PS XS	EMS® Piezon Master 600 (miniMaster)
	Varios2 970/370	Varios 750/560/350		
EXTRACTION				
G95	Ⓒ 10	Ⓒ Max	—	—
RESTORATIVE				
G61D	Ⓒ 2	Ⓒ 2	15	—
G62D	Ⓒ 2	Ⓒ 3	15	—
G65D	Ⓒ 2	Ⓒ 2	15	—
G66D	Ⓒ 2	Ⓒ 2	15	—
G67D	Ⓒ 2	Ⓒ 3	15	—
G68D	Ⓒ 2	Ⓒ 3	15	—
PROSTHETICS				
G21	Ⓒ 4	Ⓒ 2	20	—
G22	Ⓒ 4	Ⓒ 2	20	—
G26	Ⓒ 10	Ⓒ Max	20	—
G28	Ⓒ 10	Ⓒ 2	20	—
V-TIP (ENDODONTICS)				
V-S50	Ⓔ 5	Ⓔ 3	10	—
V-S50D	Ⓔ 5	Ⓔ 3	10	—
V-S51	Ⓔ 3	Ⓔ 1	10	—
V-S51D	Ⓔ 3	Ⓔ 1	10	—
V-S52	Ⓔ 5	Ⓔ 2	10	—
V-S52D	Ⓔ 5	Ⓔ 2	10	—
V-S53	Ⓔ 5	Ⓔ 2	10	—
V-S53D	Ⓔ 5	Ⓔ 2	10	—
V-TIP (RESTORATIVE)				
V-G70	Ⓒ 6	Ⓒ 3	15	—
V-G71	Ⓒ 6	Ⓒ 3	15	—
V-G72	Ⓒ 6	Ⓒ 3	15	—

Tip No.	NSK		Satelec® P-Max XS P5 XS	EMS® Piezon Master 600 (miniMaster)
	Varios2 970/370	Varios 750/560/350		
V-G75	Ⓒ 6	Ⓒ 1	15	—
V-G76	Ⓒ 6	Ⓒ 3	15	—
V-G77	Ⓒ 6	Ⓒ 3	15	—
V-G78	Ⓒ 6	Ⓒ 3	15	—
V-G79	Ⓒ 6	Ⓒ 3	15	—
V-S1	Ⓒ 6	Ⓔ 3	15	—
V-S3	Ⓒ 4	Ⓔ 3	15	—
V-S33	Ⓒ 6	Ⓔ 3	15	—

● Applicable power range for NSK Varios tips when used with NSK Varios and Varios2 ultrasonic scaler.



<Caution>

- 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 start out with lower power setting and then adjust to higher setting if necessary.
 - 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.

Maximum power Ⓒ3 : Figures in the power guide indicate the appropriate power range and maximum power level for each tip. Do not exceed the maximum power level to avoid possible tip breakage.