

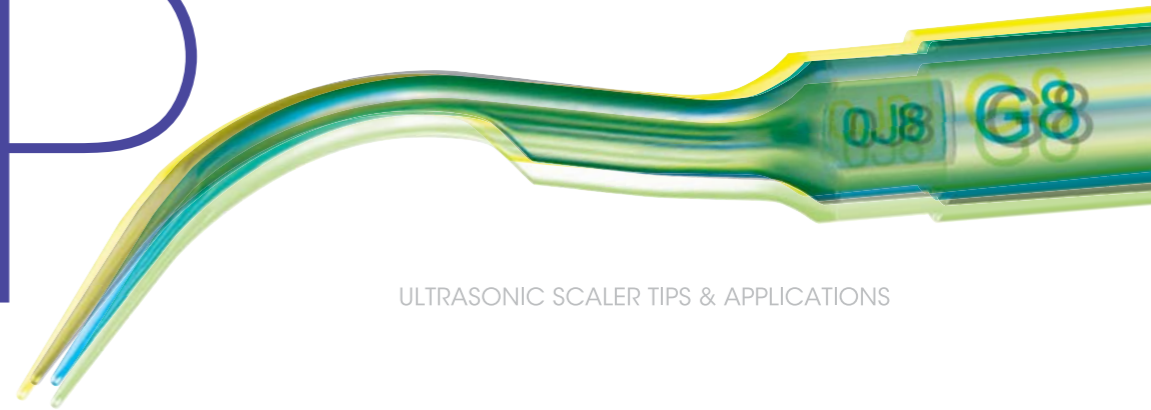


CREATE IT.

www.nsk-inc.com

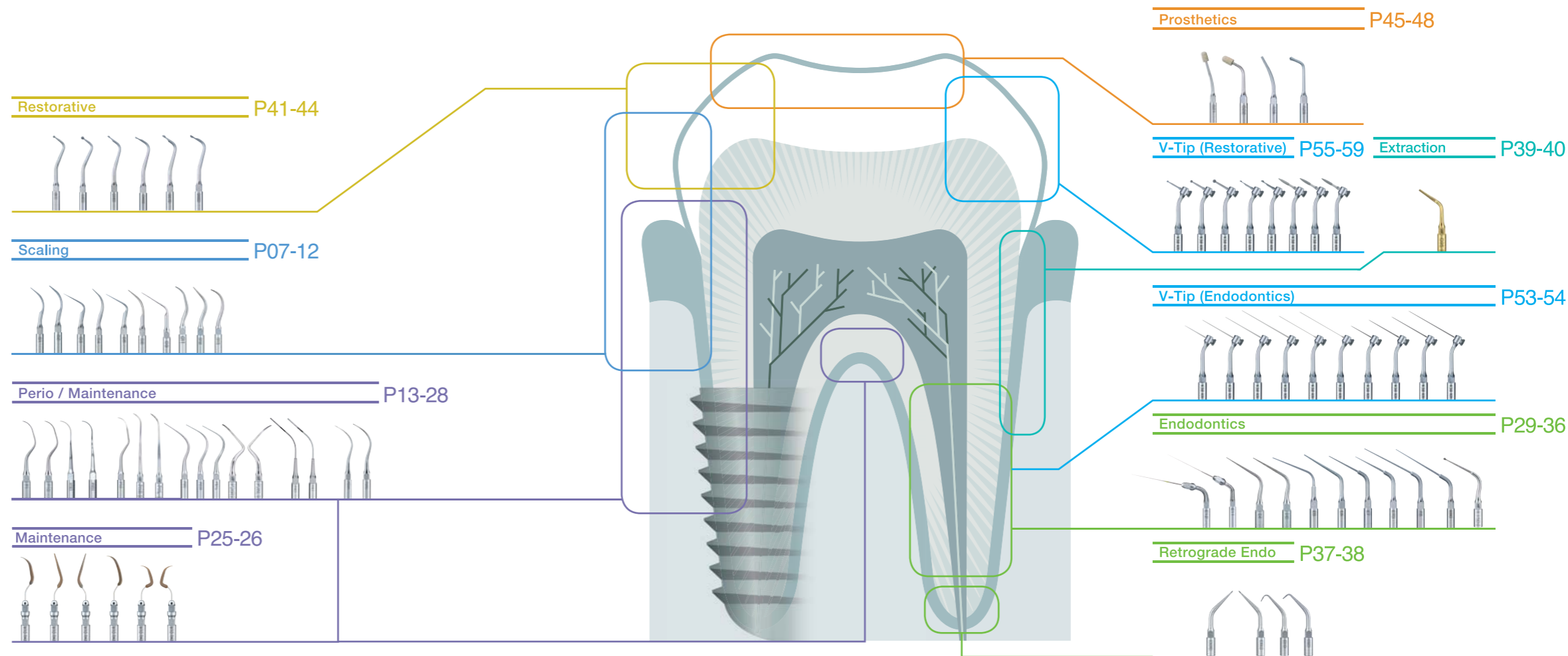
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TIP GUIDE



ULTRASONIC SCALER TIPS & APPLICATIONS

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 scaler tips



NSK V-Tip System

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

NSK scaler tips



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



Varios2

NSK Varios2 Optic Handpiece
LED Optic VA2-LUX-HP



NSK Varios2 Non-Optic Handpiece
 Non-Optic VA2-HP



Varios

NSK Varios Optic Handpiece
 Optic VA-LUX-HP



NSK Varios Non-Optic Handpiece
 Non-Optic VA-HP



Satelec® Ultrasonic
 Scaler Handpieces



EMS® Ultrasonic
 Scaler Handpieces

Varios
 iPiezo engine®



Varios 970



Varios 370

Varios



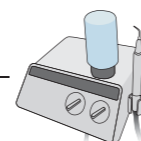
Varios 750



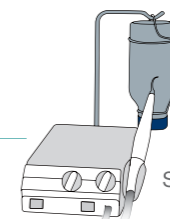
Varios 560



Varios 350



EMS®



Satelec®

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:

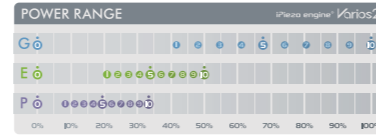
- The generator
- The handpiece
- The tip

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”.

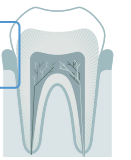
It is important to understand that the vibration movement, depending on its orientation on the work surface, has 2 clinical applications. Scanning the biofilm when the tip is tangential to the root surface. Hammering tartar when the tip is perpendicular to the debris to be removed.





SCALING

SCALING

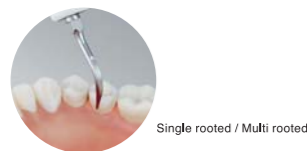


MODEL G1

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

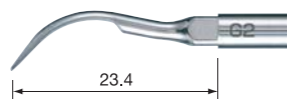


NSK Satelec® MODEL **G1** ORDER CODE **Z217101**
 EMS® MODEL **G1-E** ORDER CODE **Z291101**

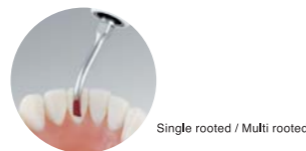


MODEL G2

- Removal of supra gingival tartar.

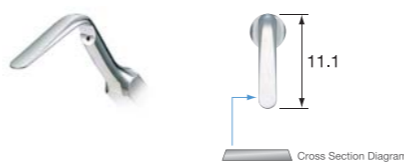
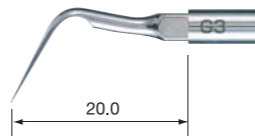


NSK Satelec® MODEL **G2** ORDER CODE **Z217102**
 EMS® MODEL **G2-E** ORDER CODE **Z291102**

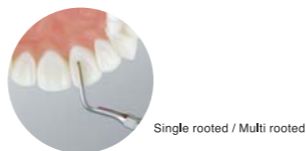


MODEL G3

- Removal of supra gingival tartar.



NSK Satelec® MODEL **G3** ORDER CODE **Z217103**
 EMS® MODEL **G3-E** ORDER CODE **Z291103**

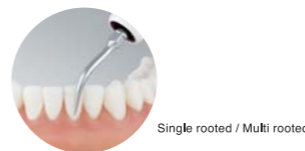


MODEL G4

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

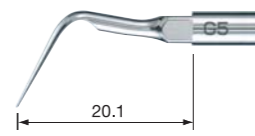


NSK Satelec® MODEL **G4** ORDER CODE **Z217104**
 EMS® MODEL **G4-E** ORDER CODE **Z291104**

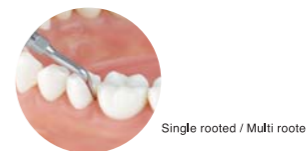


MODEL G5

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

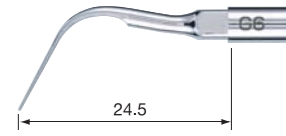


NSK Satelec® MODEL **G5** ORDER CODE **Z217105**

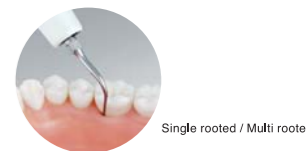


MODEL G6

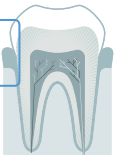
- Removal of supra gingival tartar.
- Removal of tartar narrow interdental space.
- Removal of marginal gingival calculus.
- Removal of gingival biofilm under natural tooth.



NSK Satelec® MODEL **G6** ORDER CODE **Z217106**
 EMS® MODEL **G6-E** ORDER CODE **Z291106**

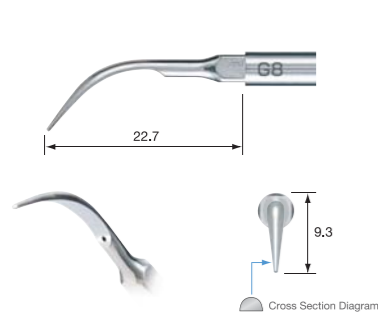


SCALING



MODEL G8

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



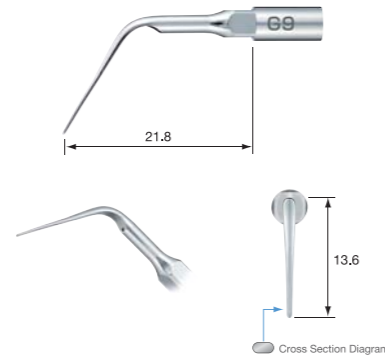
NSK Satelec® MODEL G8 ORDER CODE Z217108



Single rooted / Multi rooted

MODEL G9

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



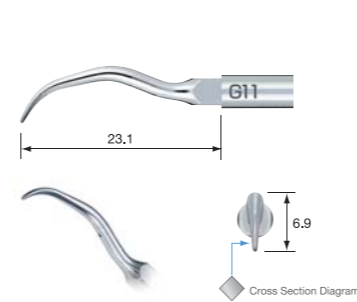
NSK Satelec® MODEL G9 ORDER CODE Z217109



Single rooted / Multi rooted

MODEL G11

- Removal of supra gingival tartar.



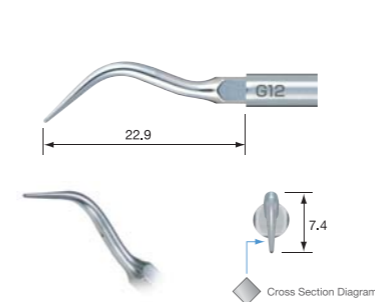
NSK Satelec® MODEL G11 ORDER CODE Z217411



Single rooted / Multi rooted

MODEL G12

- Removal of supra gingival tartar.



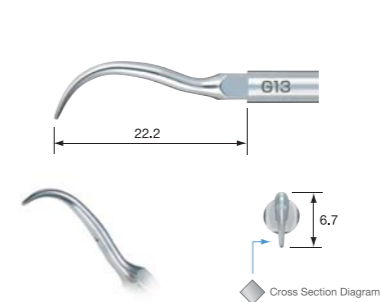
NSK Satelec® MODEL G11 ORDER CODE Z217412



Single rooted / Multi rooted

MODEL G13

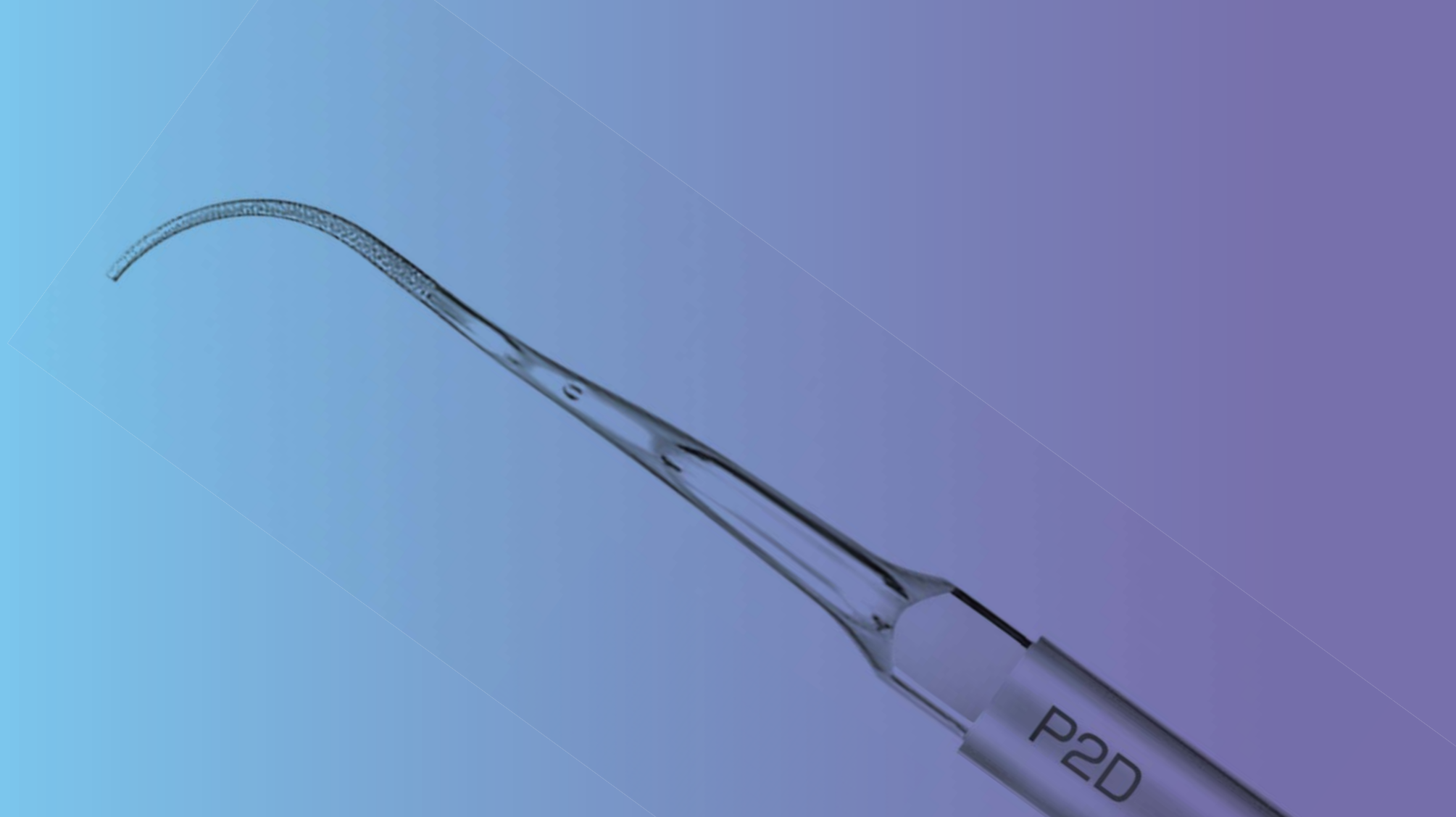
- Removal of supra gingival tartar.



NSK Satelec® MODEL G11 ORDER CODE Z217413



Single rooted / Multi rooted



PERIO

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 (Viguiet 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.

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.

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.7-12

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.19-28

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									•	•

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KOCHER T., RÜHLING A., MONSEN H., PLAGMANN HC. -Effectiveness of subgingival instrumentation with power-driven instruments in the hands of experienced and inexperienced operators. J Clin Periodontol 1997; 24: 498-504.

GAGNOT G., MICHEL JF., DARCEL J., CATHELINÉAU G. - Action de nouveaux inserts ultrasoniques sur les dômes des espaces interradiculaires. Observation au MEB. J Parodontol Implant Orale 1999; 19: 411-419

GAGNOT G., MORA F., POBLETTE M., VACHEY E., MICHEL JF., CATHELINÉAU G. -A comparative study of manual and ultrasonic instrumentation on root surfaces. J Periodontol 2002; 73: 10-1245.

BRENTSCOTT J., STEED-VEILANDS AM., YUKNA RA. -Efficacité accrue du détartrage des espaces inter-radiculaires par l'utilisation d'inserts ultrasonores diamantés. Parodontie et Dentisterie Restauratrice 1999; 19: 354-361.

HIMENO H., TSUTSUMIDA K., SATO K., HONDA M., MIYAHARA A. -A study on a new and practical ultrasonic root planning method (URM). The journal of the hokkaido Dental Association 1991; 46: 122-133.

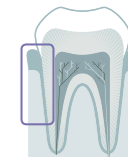
FUKAZAWA E., NISHIMURA K. -Superficial cemental curettage : its efficacy in promoting improved cellular attachment on human root surfaces previously damaged by periodontitis. J Periodontol 1994; 65: 168-176.

SMART GJ., WILSON M., DAVIES EH., KIESER JB. -The assessment of ultrasonic root surface debridement by determination of residual endotoxin levels. J Clinical Perio 1990; 17: 174-178.

JOTIKASTHIRA NE., LIE T., LEKNES KN. -Comparative in vitro studies of sonic, ultrasonic and reciprocating scaling instrument. J Clin Periodontal 1992; 19 (8) : 560-9.

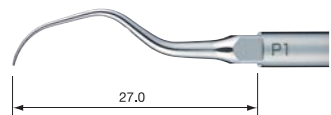
Heitz-Mayfield LJ.
How effective is surgical therapy compared with nonsurgical debridement?
Periodontol 2000. 2005;37:72-87.

Ishikawa I, Baehni P.
Nonsurgical periodontal therapy--where do we stand now?
Periodontol 2000. 2004;36:9-13.



MODEL P1

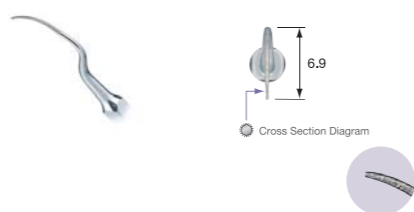
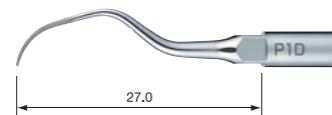
- Removal of tartar narrow interdental space.
- Removal of gingival biofilm.



NSK Satelec[®] MODEL P1 ORDER CODE Z217404

MODEL P1D

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



NSK Satelec[®] MODEL P1D ORDER CODE Z217405

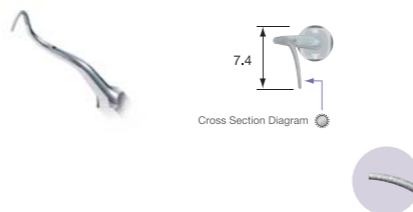
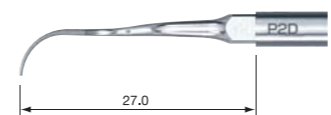
• Diamond coated



P1: Single rooted
P1D: Single rooted / Multi rooted

MODEL P2D

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



NSK Satelec[®] MODEL P2D ORDER CODE Z217402

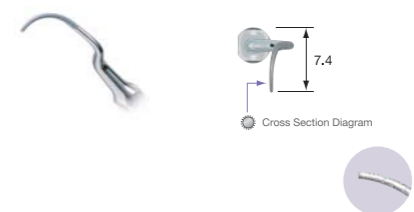
• Diamond coated • Right curved type



Single rooted / Multi rooted

MODEL P3D

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



NSK Satelec[®] MODEL P3D ORDER CODE Z217403

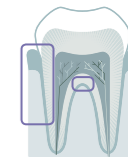
• Diamond coated • Left curved type



Single rooted / Multi rooted

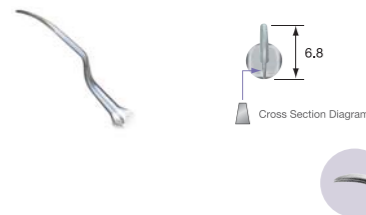
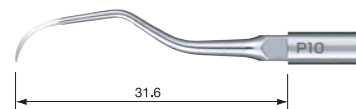
P2D / P3D (From above)





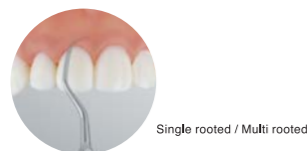
MODEL P10

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



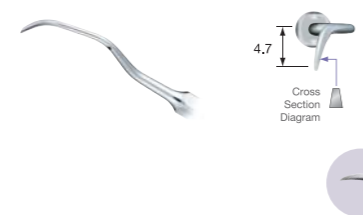
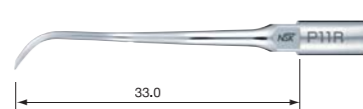
NSK Satelec® MODEL P10 ORDER CODE Z217410

- Sharp edge



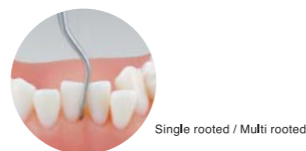
MODEL P11R

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



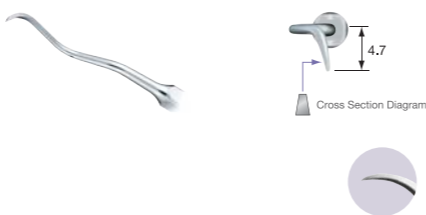
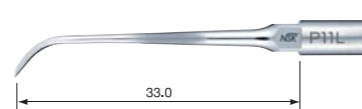
NSK Satelec® MODEL P11R ORDER CODE Z217408

- Sharp edge
- Right curved type



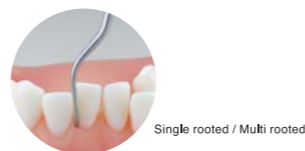
MODEL P11L

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



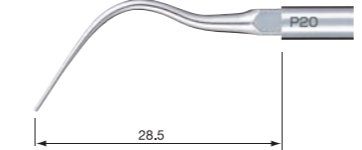
NSK Satelec® MODEL P11L ORDER CODE Z217409

- Sharp edge
- Left curved type



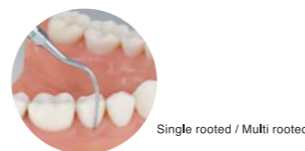
MODEL P20

- Removal of gingival biofilm.



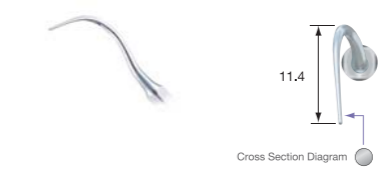
NSK Satelec® MODEL P20 ORDER CODE Z217420

EMS® MODEL P20-E ORDER CODE Z291420



MODEL P21R

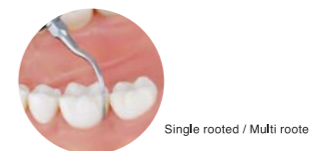
- Removal of gingival biofilm.



NSK Satelec® MODEL P21R ORDER CODE Z217422

EMS® MODEL P21R-E ORDER CODE Z291422

- Right curved type



MODEL P21L

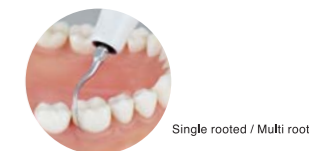
- Removal of gingival biofilm.

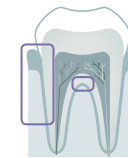


NSK Satelec® MODEL P21L ORDER CODE Z217421

EMS® MODEL P21L-E ORDER CODE Z291421

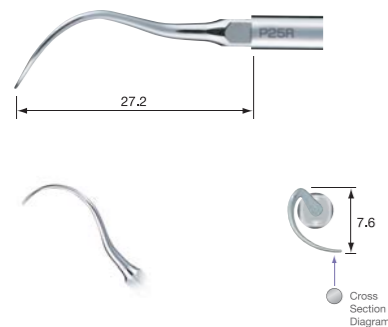
- Left curved type





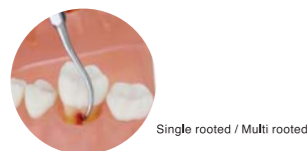
MODEL P25R

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

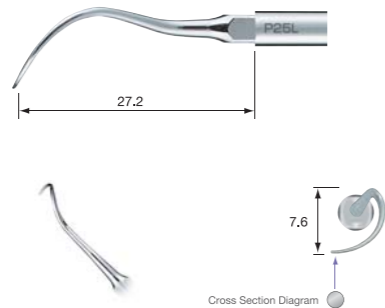


NSK Satelec® MODEL **P25R** ORDER CODE **Z217424**
 EMS® MODEL **P25R-E** ORDER CODE **Z291424**

- Right curved type

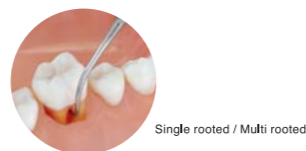


MODEL P25L

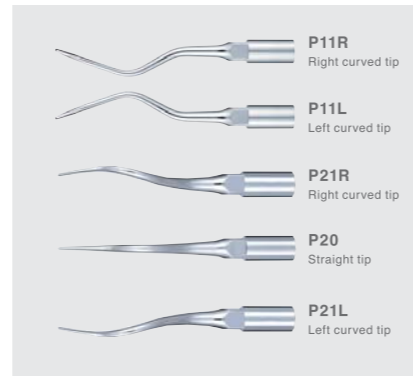


NSK Satelec® MODEL **P25L** ORDER CODE **Z217425**
 EMS® MODEL **P25L-E** ORDER CODE **Z291425**

- Left curved type

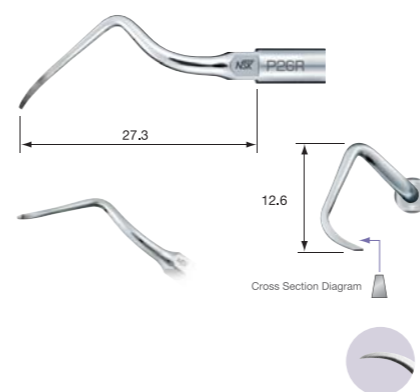


P11R / P11L / P21R / P20 / P21L (From above)



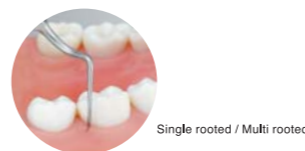
MODEL P26R

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

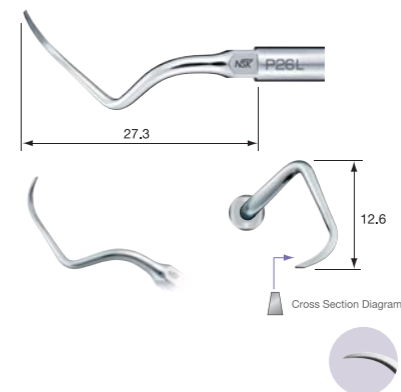


NSK Satelec® MODEL **P26R** ORDER CODE **Z217426**

- Sharp edge
- Right curved type

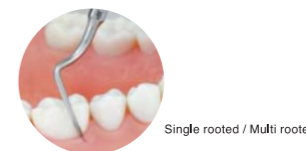


MODEL P26L

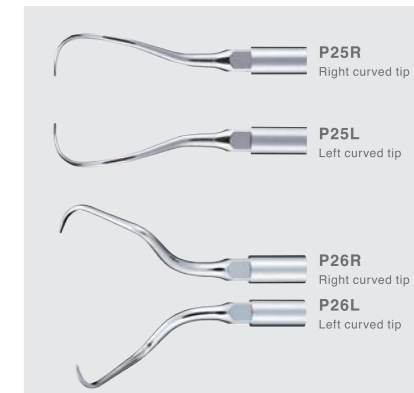


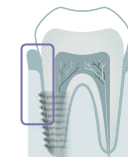
NSK Satelec® MODEL **P26L** ORDER CODE **Z217427**

- Sharp edge
- Left curved type

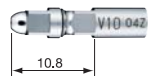


P25R / P25L / P26R / P26L (From above)





MODEL V-10



MODEL **V10** ORDER CODE **Z217041**

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

MODEL V-P10

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



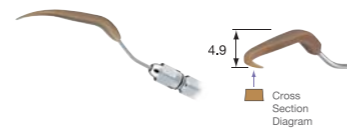
MODEL **V-P10** ORDER CODE **Y900184**

- Pack of 3
- * V10 holder is not included



MODEL V-P11R

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.



MODEL **V-P11R** ORDER CODE **Y1002165**

- Pack of 3 • Right curved type
- * V10 holder is not included



MODEL V-P11L



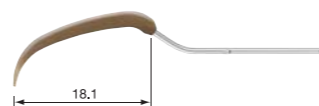
MODEL **V-P11L** ORDER CODE **Y1002166**

- 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.

MODEL 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**

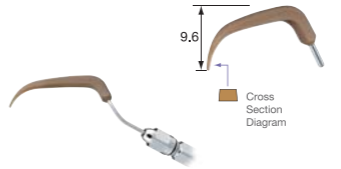
- Pack of 3
- * V10 holder is not included



Refer to the power guide on pages 63-64.

MODEL V-P26R

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.



MODEL **V-P26R** ORDER CODE **Y1002168**

- Pack of 3 • Right curved type
- * V10 holder is not included



MODEL V-P26L



MODEL **V-P26L** ORDER CODE **Y1002169**

- Pack of 3 • Left curved type
- * V10 holder is not included

Starter Kit



MODEL **Perio-Control Tips Starter Kit** ORDER CODE **Y1002606**

- 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.

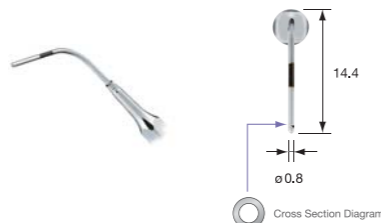
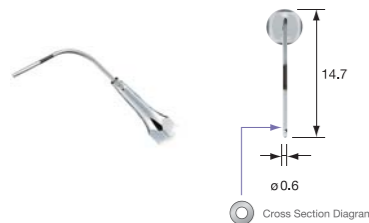
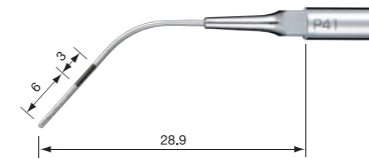
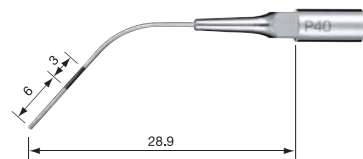
PERIO (Irrigation and Cleaning)

For effective cleaning following debridement or scaling. *No scaling effect.

MODEL **P40**

MODEL **P41**

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

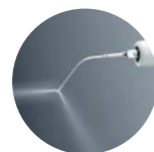


NSK Satelec® MODEL **P40** ORDER CODE **Z217550**

NSK Satelec® MODEL **P41** ORDER CODE **Z217555**

• Tip diameter \varnothing 0.6 mm

• Tip diameter \varnothing 0.8 mm

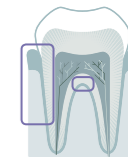


Dual irrigation points

- 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.

* 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.

PERIO



MODEL **Perio Kit A**

MODEL **Perio Kit B**



NSK Satelec® MODEL **Perio Kit A** ORDER CODE **Y900144**

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

NSK Satelec® MODEL **Perio Kit B** ORDER CODE **Y900145**

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

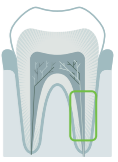
Refer to the power guide on pages 63-64.

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

ENDODONTICS



ENDODONTICS



MODEL E4

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



NSK Satelec[®] MODEL E4 ORDER CODE Z217428

• Tip diameter ϕ 0.6 mm

MODEL E7

• Removal of filling and foreign material.



NSK Satelec[®] MODEL E7 ORDER CODE Z217307

• Water not required

MODEL E8

• Removal of filling and foreign material.

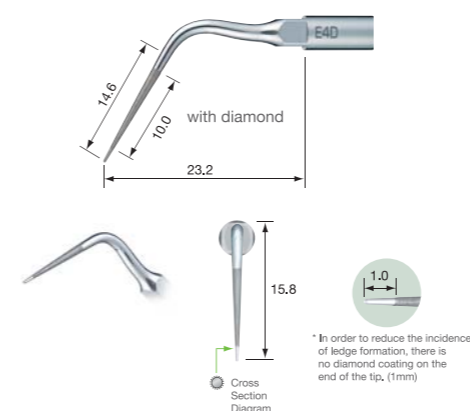


NSK Satelec[®] MODEL E8 ORDER CODE Z217308

• Water not required

MODEL E4D

• Application for root canal cleaning and root canal enlargement.



NSK Satelec[®] MODEL E4D ORDER CODE Z217528

• Diamond coated

MODEL E7D

• Enlargement of root canal wall.



NSK Satelec[®] MODEL E7D ORDER CODE Z217317

• Diamond coated

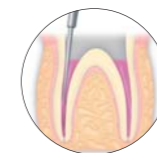
MODEL E8D

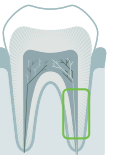
• Enlargement of root canal wall.



NSK Satelec[®] MODEL E8D ORDER CODE Z217318

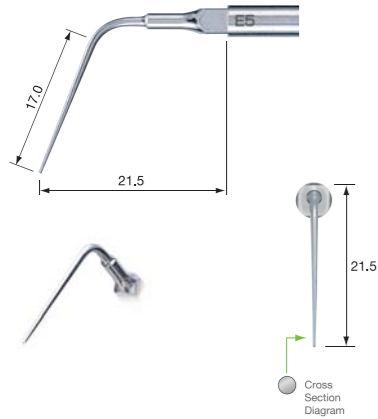
• Diamond coated





MODEL E5

• Lateral condensation.



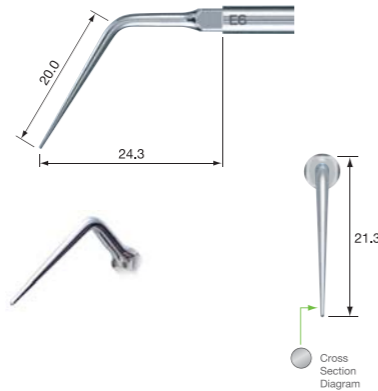
NSK Satelec[®] MODEL **E5** ORDER CODE **Z217305**

• Water not required



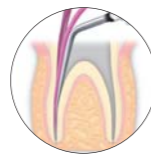
MODEL E6

• Lateral condensation.



NSK Satelec[®] MODEL **E6** ORDER CODE **Z217306**

• Water not required



MODEL E15D

• For locating root canals and removal of calcifications.

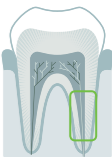


NSK Satelec[®] MODEL **E15D** ORDER CODE **Z217319**

• Diamond coated

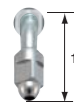
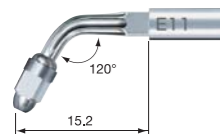


Refer to the power guide on pages 63-64.



MODEL **E11**

• 120° Angle Holder for U files

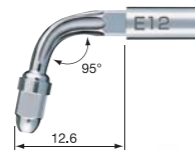


- For U files (Shank dia : 0.8 mm)
- For root canal cleaning
- For anterior teeth
- Includes E Tip replacement wrench *File is optional

NSK Satelec® MODEL **E11** ORDER CODE **Z217031**

MODEL **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

NSK Satelec® MODEL **E12** ORDER CODE **Z217032**

MODEL **U Files**

Length : 33 mm Shank dia. : 0.8 mm

MODEL **Ufiles 33 mm / #15** ORDER CODE **Y900062**
• ISO15 *Packof6

MODEL **Ufiles 33 mm / #20** ORDER CODE **Y900063**
• ISO20 *Packof6

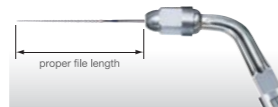
MODEL **Ufiles 33 mm / #25** ORDER CODE **Y900064**
• ISO25 *Packof6

MODEL **Ufiles 33 mm / #30** ORDER CODE **Y900065**
• ISO30 *Packof6

MODEL **Ufiles 33 mm / #35** ORDER CODE **Y900066**
• ISO35 *Packof6

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

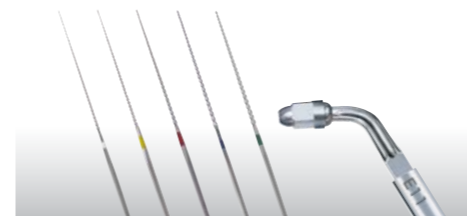
		#15	#20	#25	#30	#35
E11	Varios2	22 mm	24.5 mm	22 mm	22 mm	22 mm
	Varios	22-23 mm	22-23 mm	23-25 mm	23-25 mm	24-26 mm
E12	Varios2	22 mm	24.5 mm	24.5 mm	24.5 mm	22 mm
	Varios	21-25 mm	21-25 mm	21-25 mm	21-25 mm	21-25 mm



35 * 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.

MODEL **Endo Kit E11** For anterior teeth

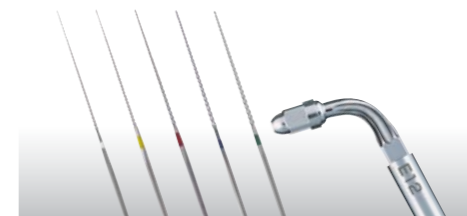


NSK Satelec® MODEL **Endo Kit E11** ORDER CODE **Y900146**

- 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

Refer to the power guide on pages 63-64.

MODEL **Endo Kit E12** For anterior teeth



NSK Satelec® MODEL **Endo Kit E12** ORDER CODE **Y900147**

- 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

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

RETROGRADE ENDO

The microscopic diamond coated tip allows effective removal of dentin at the apex.

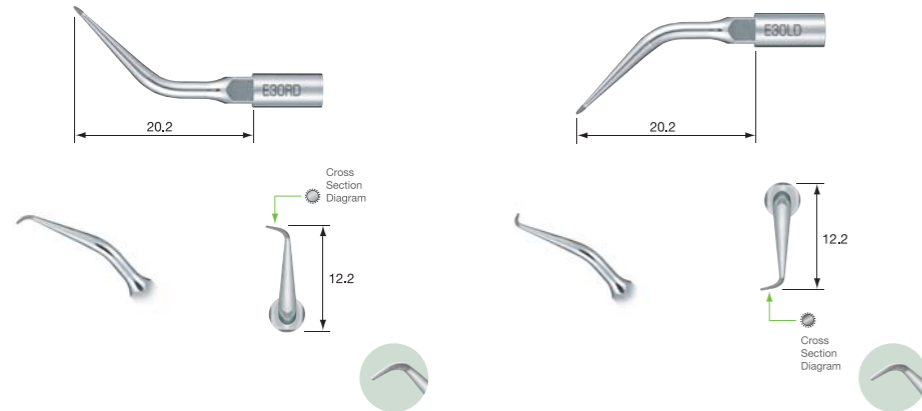
2 types of angled tips (90°, 70°) are available for anterior teeth and another 2 types of curved tips (right and left) are available for molar teeth.



MODEL E30RD

MODEL E30LD

• Diamond coated tip allows efficient cavity preparation.

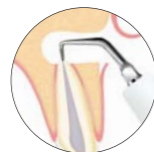


NSK Satelec[®] MODEL **E30RD** ORDER CODE **Z217212**

NSK Satelec[®] MODEL **E30LD** ORDER CODE **Z217213**

• Diamond coated • For posterior teeth (right angled)

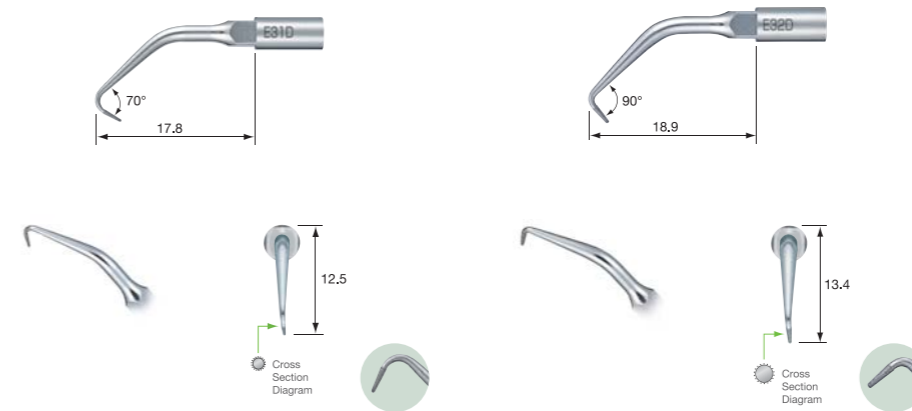
• Diamond coated • For posterior teeth (left angled)



MODEL E31D

MODEL E32D

• Diamond coated tip allows efficient cavity preparation.



NSK Satelec[®] MODEL **E31D** ORDER CODE **Z217210**

NSK Satelec[®] MODEL **E32D** ORDER CODE **Z217211**

• Diamond coated • For anterior and posterior teeth (70°)

• Diamond coated • For anterior teeth (90°)

MODEL Retro Kit



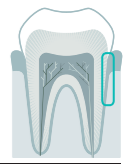
NSK Satelec[®] MODEL **Retro Kit** ORDER CODE **Y900149**

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

EXTRACTION



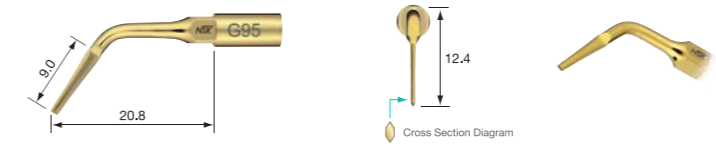
EXTRACTION



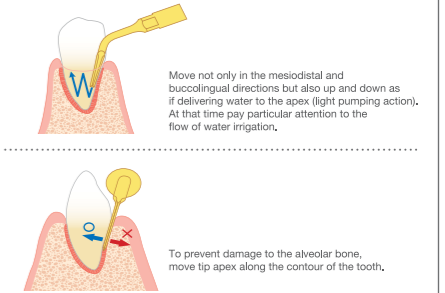
Periodontal membrane removal Tip

MODEL **G95**

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



Caution



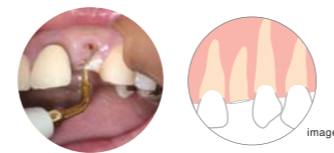
- Use of irrigation enhances performance.
- When used with Varios 970 choice of irrigation.
- Tip can be used on NSK ultrasonic units.

NSK MODEL **G95**

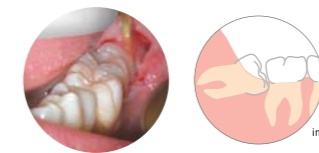
ORDER CODE **Z217705**

• 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.

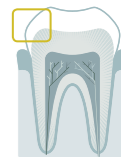
Refer to the power guide on pages 63-64.

* 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.

RESTORATIVE



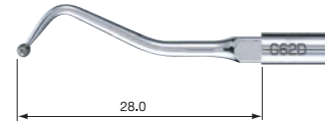
RESTORATIVE



MODEL **G61D**

MODEL **G62D**

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



NSK Satelec[®] MODEL **G61D** ORDER CODE **Z217601**

NSK Satelec[®] MODEL **G62D** ORDER CODE **Z217602**

• Diamond coated

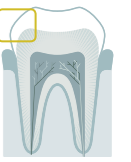
• Diamond coated



Refer to the power guide on pages 63-64.

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

RESTORATIVE



MODEL 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



MODEL G66D

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



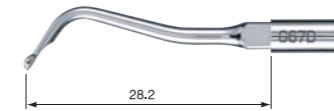
NSK Satelec® MODEL G66D ORDER CODE Z217606

• Diamond coated



MODEL G67D

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



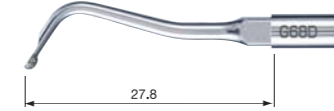
NSK Satelec® MODEL G67D ORDER CODE Z217607

• Diamond coated



MODEL 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

PROSTHETICS

Condensation / Loosening / Plugging



MODEL G21

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

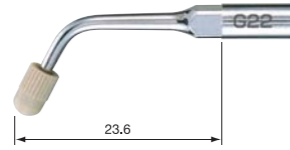


NSK Satelec® MODEL **G21** ORDER CODE **Z217010**

• For anterior teeth • Water not required • 3 caps supplied

MODEL G22

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



NSK Satelec® MODEL **G22** ORDER CODE **Z217020**

• For anterior teeth • Water not required • 3 caps supplied

MODEL Tip Cap



MODEL **Tip Cap** ORDER CODE **Y140751**

• For G21 / G22 • Pack of 10 • Autoclavable

MODEL G26

• Post removal. ($\phi 1.3$ mm thickness)

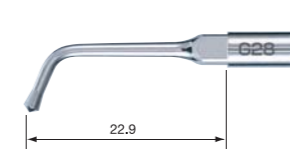


NSK Satelec® MODEL **G26** ORDER CODE **Z217206**

Refer to the power guide on pages 63-64.

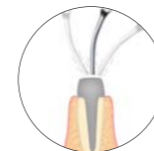
MODEL G28

• Amalgam condensation.

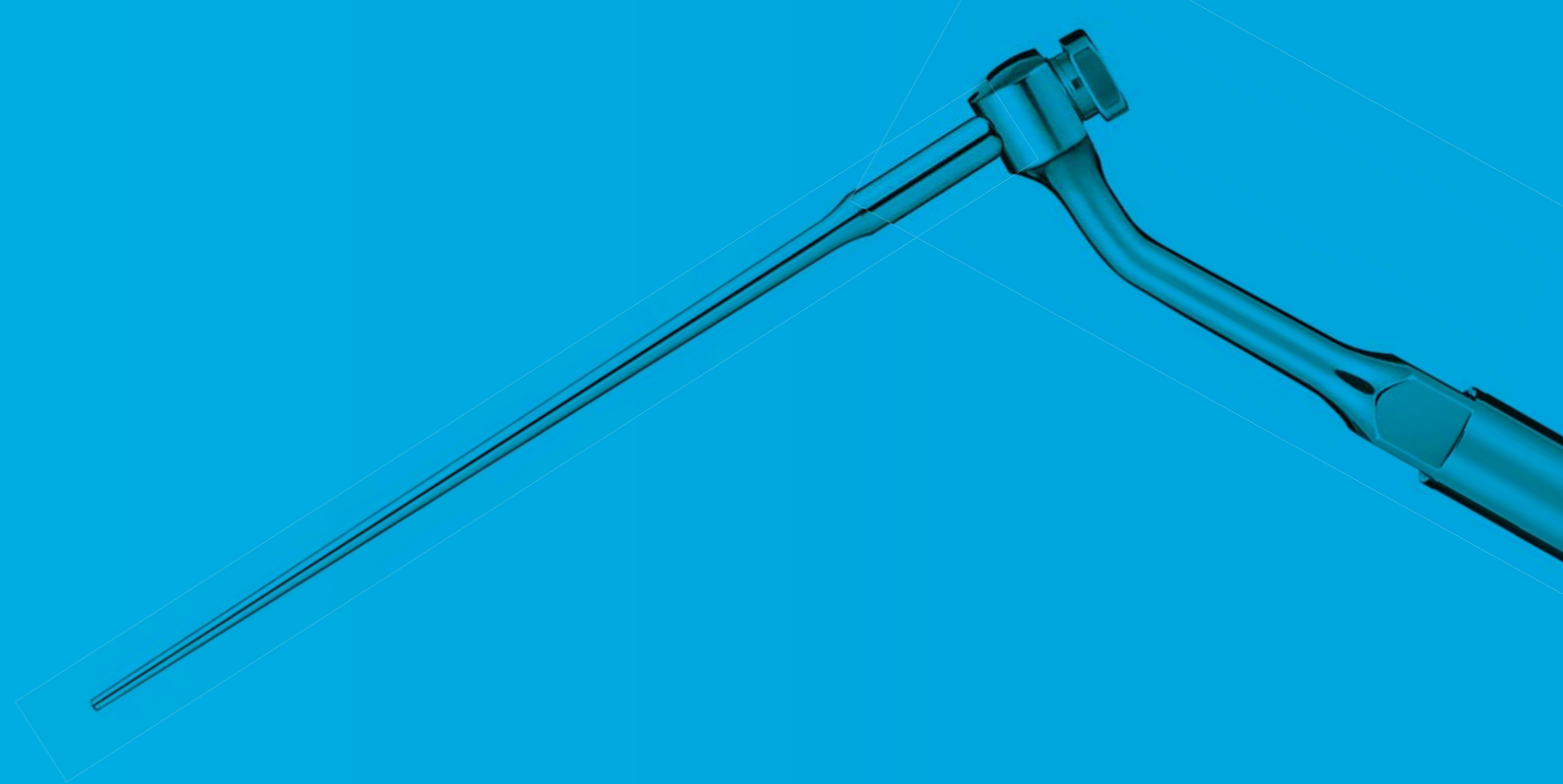


NSK Satelec® MODEL **G28** ORDER CODE **Z217208**

• Water not required



V-TIP SYSTEM



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

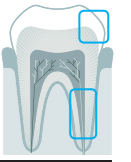
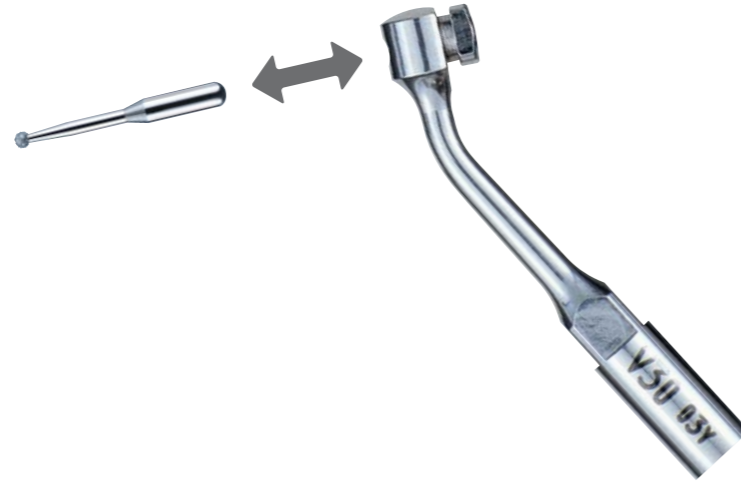
- Minimal damage to soft tissue
- Less risk of bleeding
- Cutting with ultrasonic instruments is minimally invasive

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 55~58

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

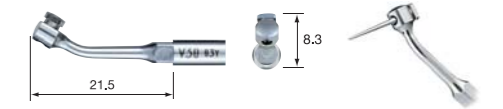


Endodontics Pages 53~54

- For Root Canal Cleaning
- For Root Canal Enlargement



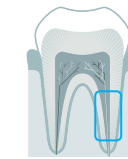
MODEL V-30



ORDER CODE **Z217030**

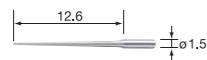
- Includes E Tip replacement wrench
- *Tip is optional





For Root Canal Cleaning

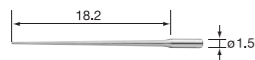
MODEL **V-S50**



ORDER CODE **Y900169**

• For root canal cleaning 17 mm • Pack of 3

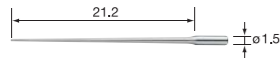
MODEL **V-S51**



ORDER CODE **Y900170**

• For root canal cleaning 23 mm • Pack of 3

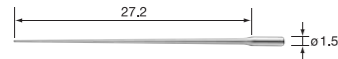
MODEL **V-S52**



ORDER CODE **Y900171**

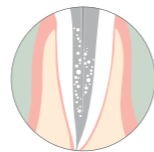
• For root canal cleaning 26 mm • Pack of 3

MODEL **V-S53**

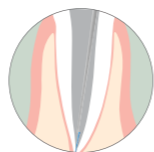


ORDER CODE **Y900172**

• For root canal cleaning 32 mm • Pack of 3



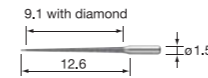
Root canal cleaning



Removal of broken files

For Root Canal Enlargement

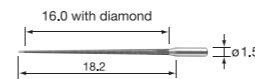
MODEL **V-S50D**



ORDER CODE **Y900173**

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

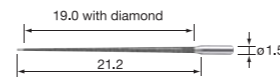
MODEL **V-S51D**



ORDER CODE **Y900174**

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

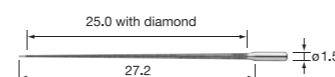
MODEL **V-S52D**



ORDER CODE **Y900175**

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

MODEL **V-S53D**

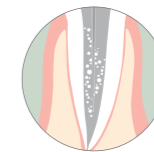


ORDER CODE **Y900176**

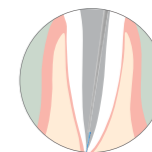
• Diamond coated • For root canal enlargement 32 mm • Pack of 3



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



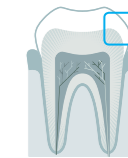
Root canal enlargement



Removal of broken files

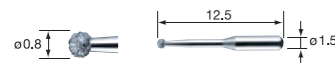
V-TIP SYSTEM^(Restorative)

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

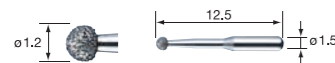
MODEL **V-G70**



ORDER CODE **Y900118**

• Diamond coated • Pack of 3

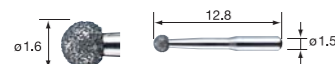
MODEL **V-G71**



ORDER CODE **Y900119**

• Diamond coated • Pack of 3

MODEL **V-G72**



ORDER CODE **Y900120**

• Diamond coated • Pack of 3



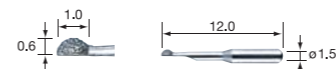
Cervical decay removal



Root decay removal

For Minimal Intervention

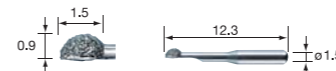
MODEL **V-G75**



ORDER CODE **Y900121**

• Diamond coated • Pack of 3

MODEL **V-G76**

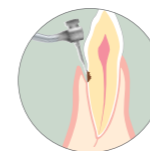


ORDER CODE **Y900122**

• Diamond coated • Pack of 3



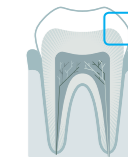
Contact surface of tooth decay removal



Root decay removal

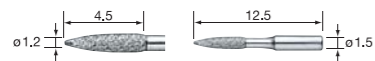
V-TIP SYSTEM (Restorative)

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

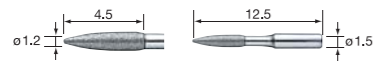
MODEL **V-G77** Normal grade



ORDER CODE **Y900165**

• Diamond coated • Pack of 3

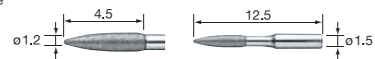
MODEL **V-G78** Fine grade



ORDER CODE **Y900166**

• Diamond coated • Pack of 3

MODEL **V-G79** Super fine grade



ORDER CODE **Y900167**

• Includes E Tip replacement wrench *Tip is optional



Root canal enlargement

For Caries Removal

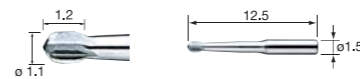
MODEL **V-S1**



ORDER CODE **Y900161**

• Stainless tip • Pack of 3

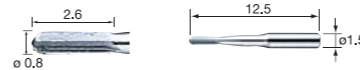
MODEL **V-S3**



ORDER CODE **Y900162**

• Stainless tip • Pack of 3

MODEL **V-S33**

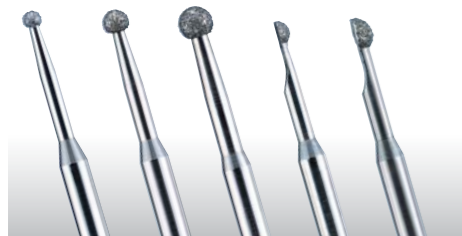


ORDER CODE **Y900163**

• Stainless tip • Pack of 3



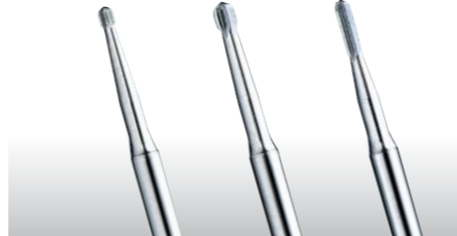
MODEL **Assorted Tip Kit**
(For Minimal Intervention)



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



MODEL **Assorted Tip Kit**
(For Caries Removal)



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

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

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

• V-G77, V-G78, V-G79 : 1 pc. each

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

• V-S1, V-S3, V-S33 : 1 pc. each

Refer to the power guide on pages 63-64.

Varios 970

iPiezo engine®

Optic
Non-Optic



Multifunction Portable Unit for Extreme Versatility

Advantages

- All-in-Stylish compact all-in one unit for Periodontic, Endodontic, Scaling, MI applications and Implant maintenance
- Stable vibration and power by newly developed iPiezo engine
- Convenient large capacity bottles of 400ml each or different solutions with independent pumps
- Excellent illumination of the treatment area is guaranteed by the twin LEDs guided through twin glass rods
- Handpiece can be repeatedly autoclaved up to 135°C and processed in a thermo disinfectant
- 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 : 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

iPiezo engine®

Optic
Non-Optic



Compact Multipurpose Control Unit at Your Fingertips

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 thermosinfectant 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 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

POWER GUIDE

TIP NO.	NSK		Satelec® P-Max XS P5 XS	EMS® Piezon Master 600 (miniMaster)
	Varios2 970/370	Varios 750/560/350		
SCALING				
G1	G 7	G 3	15	P 6
G2	G 7	G Max	15	P 6
G3	G 7	G 3	15	P 3
G4	G 5	G 3	15	P 3
G5	G 6	G 3	15	-
G6	G 8	G 1	15	P 6
G8	G 7	G 3	15	-
G9	G 5	G 1	15	-
G11	G 6	G 3	15	-
G12	G 7	G 3	15	-
G13	G 6	G 3	15	-
PERIO/MAINTENANCE				
P1	P 6	P 2	5	-
P1D	P 10	P 2	5	-
P2D	P 8	P 4	5	-
P3D	P 8	P 4	5	-
P10	P 10	P Max	5	-

TIP NO.	NSK		Satelec® P-Max XS P5 XS	EMS® Piezon Master 600 (miniMaster)
	Varios2 970/370	Varios 750/560/350		
P11R	P 10	P Max	5	-
P11L	P 10	P Max	5	-
P20	P 8	P 4	5	P 6
P21R	P 8	P 4	5	P 6
P21L	P 8	P 4	5	P 6
P25R	P 10	P 4	5	P 6
P25L	P 10	P 4	5	P 6
P26R	P 6	P 3	5	-
P26L	P 6	P 3	5	-
P40	P 3	P 1	5	-
P41	P 3	P 1	5	-
V-P10	P 6	P 3	5	-
V-P11R	P 6	P 3	5	-
V-P11L	P 6	P 3	5	-
V-P12	P 6	P 3	5	-
V-P26R	P 6	P 3	5	-
V-P26L	P 6	P 3	5	-

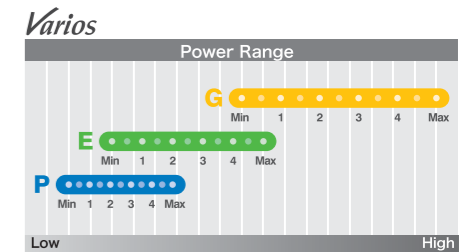
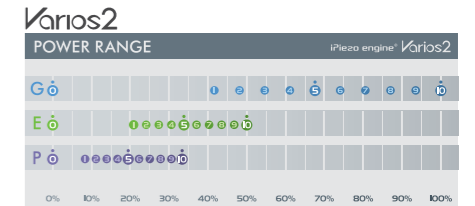
TIP NO.	NSK		Satelec® P-Max XS P5 XS	EMS® Piezon Master 600 (miniMaster)
	Varios2 970/370	Varios 750/560/350		
ENDODONTICS				
E4	E 6	E 3	5	-
E4D	E 7	E 3	5	-
E5	E 10	E 3	5	-
E6	E 10	E 4	5	-
E7	E 6	E Max	5	-
E7D	E 6	E Max	5	-
E8	E 2	E 4	5	-
E8D	E 2	E 4	5	-
E15D	E 6	E 3	5	-
E11	E 4	E 3	5	-
E12	E 3	E 3	5	-
E30RD	E 6	E 3	5	-
E30LD	E 6	E 3	5	-
E31D	E 6	E 3	5	-
E32D	E 6	E 3	5	-
EXTRACTION				
G95	G 10	-	-	-

TIP NO.	NSK		Satelec® P-Max XS P5 XS	EMS® Piezon Master 600 (miniMaster)
	Varios2 970/370	Varios 750/560/350		
RESTORATIVE				
G61D	G 2	G 2	15	-
G62D	G 2	G 3	15	-
G65D	G 2	G 2	15	-
G66D	G 2	G 2	15	-
G67D	G 2	G 3	15	-
G68D	G 2	G 3	15	-
PROSTHETICS				
G21	G 4	G 2	20	-
G22	G 4	G 2	20	-
G26	G 10	G Max	20	-
G28	G 10	G 2	20	-
V-TIP(ENDODONTICS)				
V-S50	E 5	E 3	10	-
V-S50D	E 5	E 3	10	-
V-S51	E 3	E 1	10	-
V-S51D	E 3	E 1	10	-
V-S52	E 5	E 2	10	-

TIP NO.	NSK		Satelec® P-Max XS P5 XS	EMS® Piezon Master 600 (miniMaster)
	Varios2 970/370	Varios 750/560/350		
V-S52D	E 5	E 2	15	-
V-S53	E 5	E 2	15	-
V-S53D	E 5	E 2	15	-
V-TIP(RESTORATIVE)				
V-G70	G 6	G 3	15	-
V-G71	G 6	G 3	15	-
V-G72	G 6	G 3	15	-
V-G75	G 6	G 1	15	-
V-G76	G 6	G 3	15	-
V-G77	G 6	G 3	15	-
V-G78	G 6	G 3	15	-
V-G79	G 6	G 3	15	-
V-S1	G 6	G 3	15	-
V-S3	G 4	G 3	15	-
V-S33	G 6	G 3	15	-

: 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.

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.

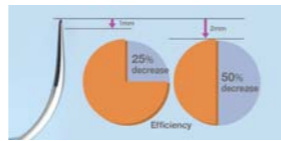
*Incorrect operation may cause tip breakage even if tip is used within the recommended power range. Consult the operating manual before use.

Satelec® & P-Max are registered trademarks of Acteon SA, France. EMS®, Piezon & miniMaster are registered trademarks of Electro Medical Systems SA, Switzerland.

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.

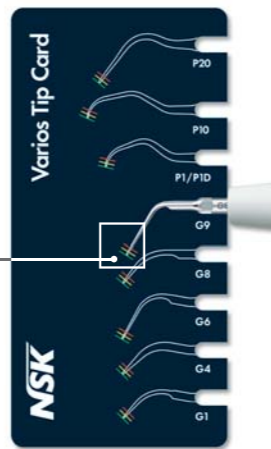


How to use the Varios Tip Card

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.

<p>Green: No wear - Tip is OK Tip replacement is not necessary</p>	
<p>Yellow: Wear of 1mm - Tip is showing some wear Tip replacement is recommended</p>	
<p>Red: Wear of 2mm - Tip is badly worn Tip replacement is necessary</p>	



*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).



NAKANISHI INC. www.nsk-inc.com 700 Shimohinata, Kanuma, Tochigi 322-8666, Japan

NSK Europe GmbH

Elly-Beinhorn-Strasse 8
65760 Eschborn, Germany

NSK United Kingdom Ltd

Office 5, Gateway 1000, Arlington Business Park
Whittle Way, Stevenage, SG1 2FP, UK

NSK America Corp

1800 Global Parkway, Hoffman Estates
IL 60192, USA

NSK America Latina Ltda

Dr. Placido Gomes, 610-Sala 104, A. Garibaldi
Joinville SC 89202-050, Brazil

NSK Oceania Pty Ltd

Unit 22, 198-222 Young St.
Waterloo, Sydney, NSW 2017, Australia

NSK Asia

1 Maritime Square, #09-33 HarbourFront Centre
099253, Singapore

NSK Middle East

Room 6EA701, 7th Floor, East Wing No.6
Dubai Airport Free Zone, PO Box 54316, Dubai, UAE

Specifications are subject to change without notice.

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.

Ultrasonic scaler Varios series



- Series description [Varios 970]
- Maintenance

Varios tip



- Tip variations
- Tip description

Doctors Comments



▶▶▶ NSK Web site

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