

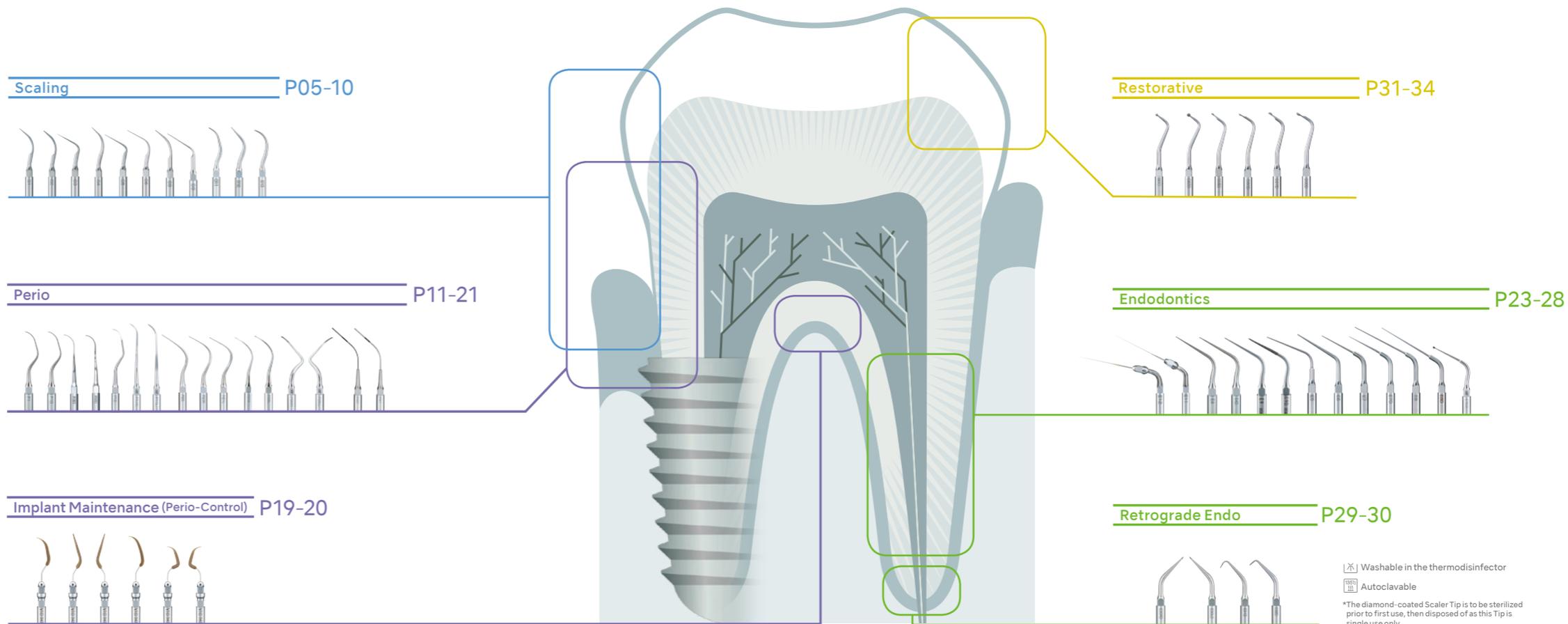
Create it 

TIP GUIDE

ULTRASONIC SCALER

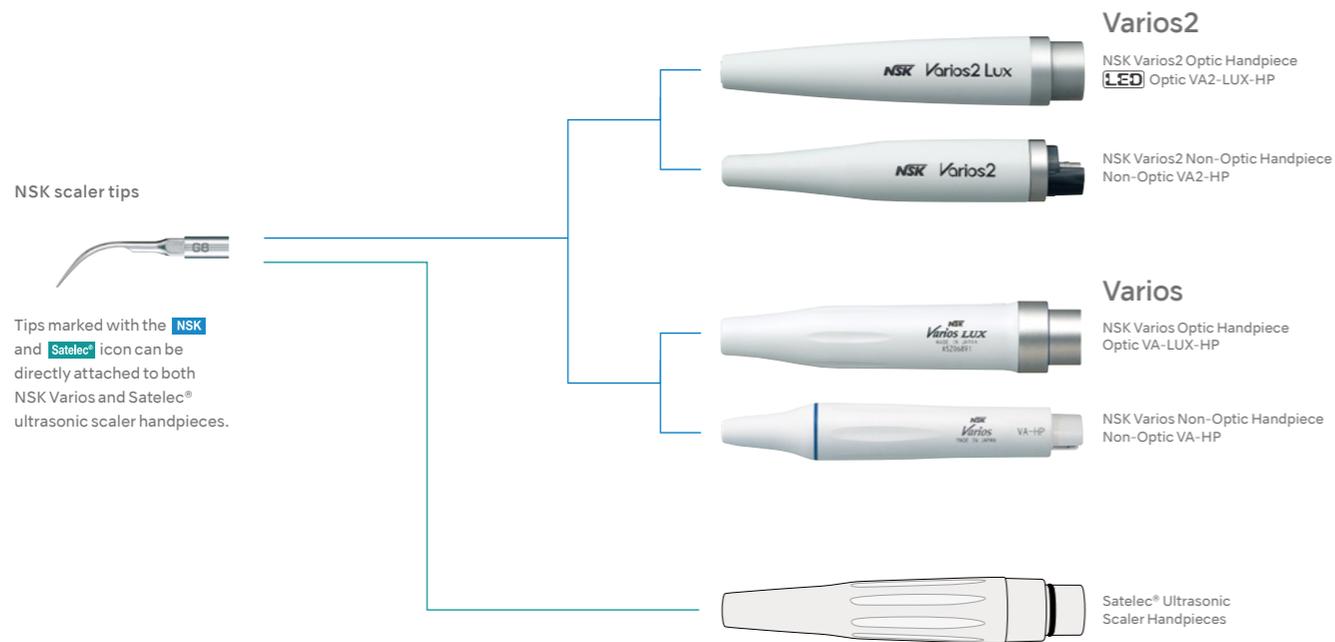
NSK

**NSK Offers
A Wide Range 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. The following is a guide to illustrate all NSK Varios tips, their applications and connectivity.

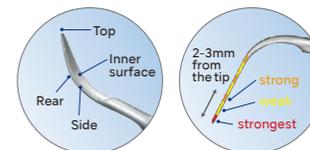


The key points for correct usage of the ultrasonic scaler

Calculus is removed efficiently by ultrasonic vibrations and the cavitation effect of the NSK ultrasonic scaler, in addition to the elimination and destruction of bacterial biofilms. Here are the "four points" for maximizing the effects:

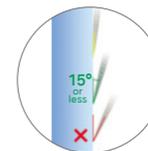
POINT 1 Correct application of the tip to a tooth

NSK ultrasonic scaler is a Piezoelectronic type, with a tip that has a linear reciprocating motion. The tip generates varying amounts of power according to the part of the tip that is applied to the tooth. The impact on the tooth surface and the results will vary depending on which part of the tip is applied to the tooth. Typically, applying the side of the tip 2-3 mm from the end can be most effective.



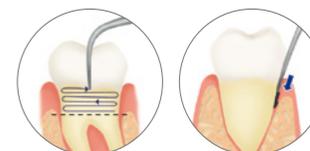
POINT 2 The angle of the tip

The tip should be applied to the tooth surface at an angle of 15 degrees or less with the last 2-3 mm of the tip in contact with the tooth. The end of the tip (the most powerful part) should not be applied to the tooth surface as this could lead to tooth sensitivity and discomfort for the patient.



POINT 3 Application and motion of the tip

The tip should be applied to the tooth in a feather-light manner. Small, overlapping motions while keeping the last 2-3 mm of the tip in contact with the tooth is the most effective way to remove calculus. When removing heavy tenacious calculus, the end of the tip may be placed against the calculus to begin to break it up. Care should be taken not to place the point of the tip against the tooth as this could damage the tooth surface. Failure to keep the tip in motion or applying excessive force to the tooth surface may damage the tooth, and/or cause patient discomfort. This also dampens the movement of the tip and decreases the efficacy of the machine.



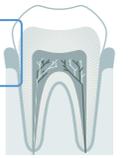
POINT 4 Power setting

The power setting adjustment is dependent on the condition of the oral cavity. Beginning on a low power setting and gradually increasing power to meet the needs of the oral cavity is recommended while maintaining the lowest effective power setting to complete calculus and biofilm removal effectively.



SCALING

SCALING



MODEL G1

- Removal of supragingival and marginal gingival calculus
- Removal of calculus in narrow interdental spaces



NSK Satelec® ORDER CODE **Z217101**



MODEL G2

- Removal of supragingival calculus

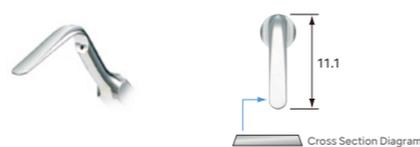
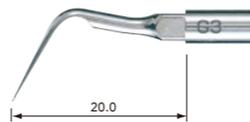


NSK Satelec® ORDER CODE **Z217102**



MODEL G3

- Removal of supragingival calculus

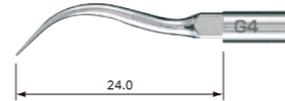


NSK Satelec® ORDER CODE **Z217103**



MODEL G4

- Removal of supragingival and marginal gingival calculus



NSK Satelec® ORDER CODE **Z217104**



MODEL G5

- Removal of supragingival calculus
- Removal of calculus in narrow interdental spaces
- Removal of marginal gingival calculus
- Removal of gingival biofilm in the sulcus or gingival pocket



NSK Satelec® ORDER CODE **Z217105**



MODEL G6

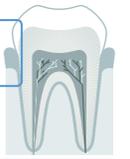
- Removal of supragingival calculus
- Removal of calculus in narrow interdental spaces
- Removal of marginal gingival calculus
- Removal of gingival biofilm in the sulcus or gingival pocket



NSK Satelec® ORDER CODE **Z217106**

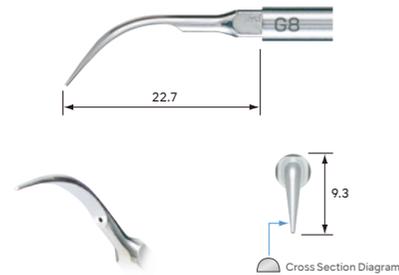


SCALING



MODEL G8

- Removal of supragingival and marginal calculus
- Removal of calculus in narrow interdental spaces

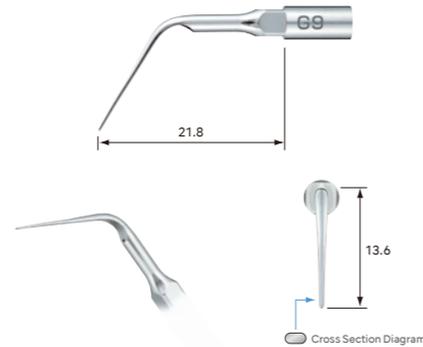


NSK Satelec® ORDER CODE **Z217108**



MODEL G9

- Removal of supragingival calculus
- Removal of calculus in narrow interdental spaces
- Removal of marginal gingival calculus
- Removal of gingival biofilm in the sulcus or gingival pocket

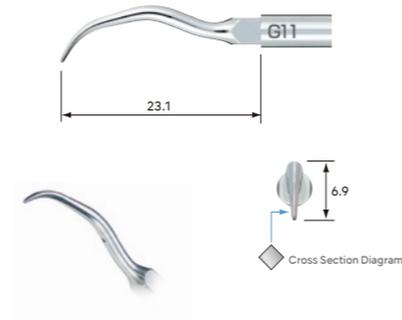


NSK Satelec® ORDER CODE **Z217109**



MODEL G11

- Removal of supragingival calculus

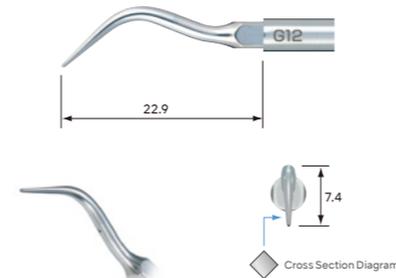


NSK Satelec® ORDER CODE **Z217411**



MODEL G12

- Removal of supragingival calculus

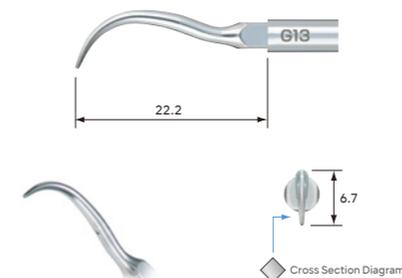


NSK Satelec® ORDER CODE **Z217412**



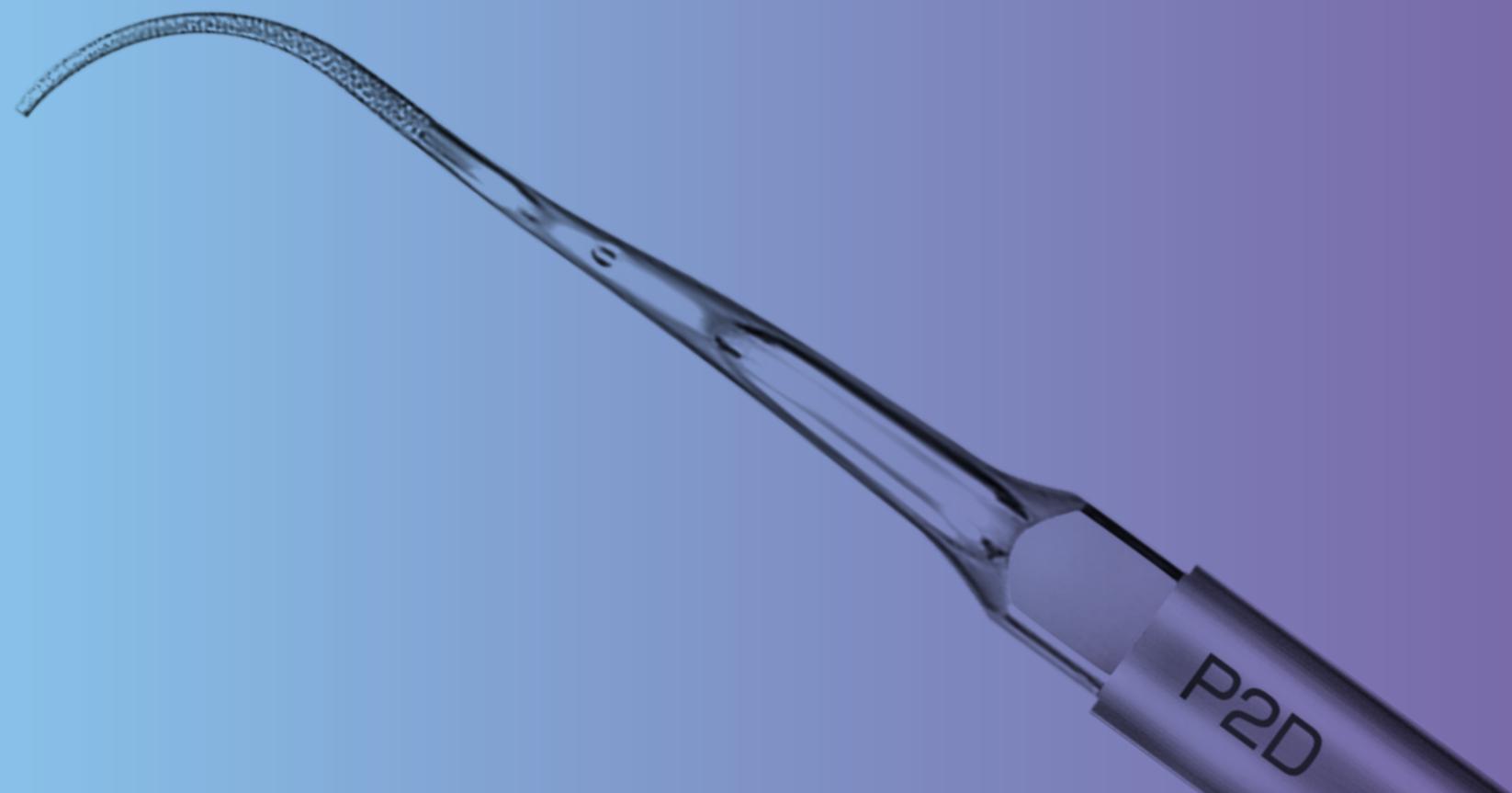
MODEL G13

- Removal of supragingival calculus

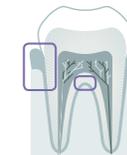


NSK Satelec® ORDER CODE **Z217413**



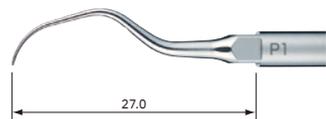


PERIO



MODEL P1

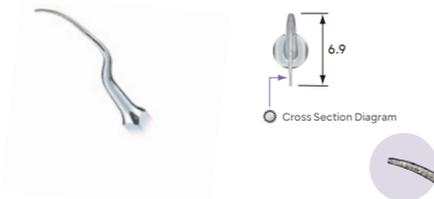
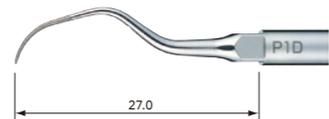
- Removal of supra and subgingival biofilm and very light calculus in narrow deep pockets and tight interproximal areas



NSK Satelec® ORDER CODE **Z217404**

MODEL P1D

- Removal of tenacious subgingival calculus in narrow deep pockets and tight interproximal areas
- Periodontal debridement



NSK Satelec® ORDER CODE **A1012972**

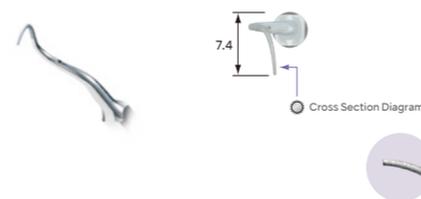
- Single use • Diamond coated



* 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 P2D

- Removal of tenacious subgingival calculus in narrow deep pockets and tight interproximal areas
- Periodontal debridement



NSK Satelec® ORDER CODE **A1012970**

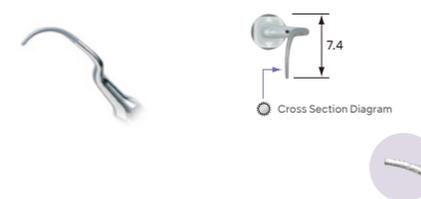
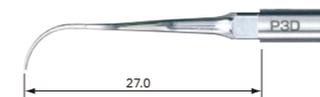
- Single use • Diamond coated
- Right curved type



Refer to the power guide on pages 35-36.

MODEL P3D

- Removal of tenacious subgingival calculus in narrow deep pockets and tight interproximal areas
- Periodontal debridement



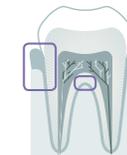
NSK Satelec® ORDER CODE **A1012971**

- Single use • Diamond coated
- Left curved type



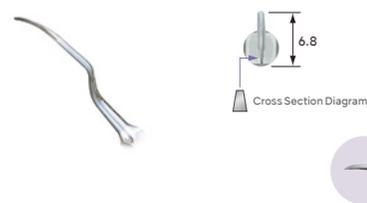
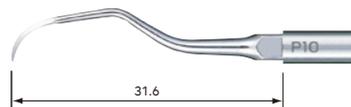
P2D / P3D (From above)





MODEL P10

- Removal of supragingival and subgingival biofilm and calculus
- Removal of subgingival calculus in narrow pockets and interproximal areas
- Removal of marginal gingival calculus



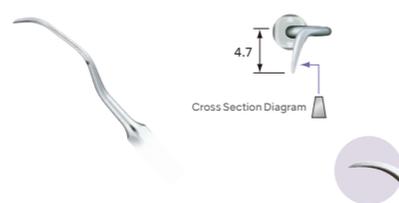
NSK Satelec® ORDER CODE **Z217410**

- Sharp edge



MODEL P11R

- Removal of supragingival and subgingival biofilm and calculus
- Removal of subgingival calculus in narrow pockets and interproximal areas
- Periodontal debridement of furcation areas

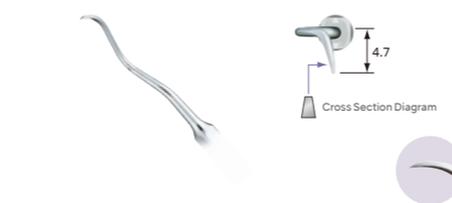
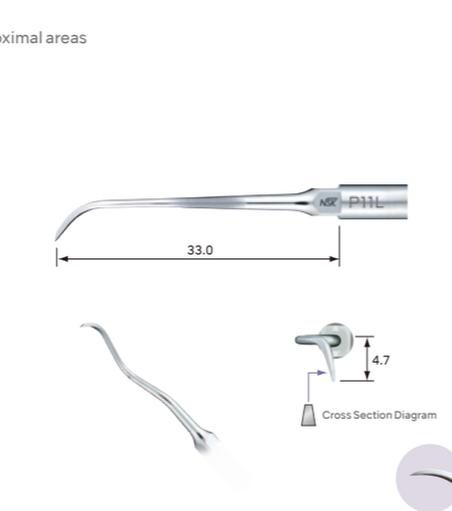


NSK Satelec® ORDER CODE **Z217408**

- Sharp edge
- Right curved type



MODEL P11L



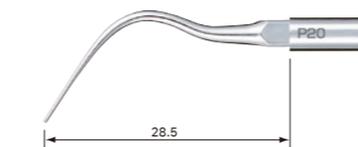
NSK Satelec® ORDER CODE **Z217409**

- Sharp edge
- Left curved type



MODEL P20

- Removal of light supra and subgingival calculus and biofilm

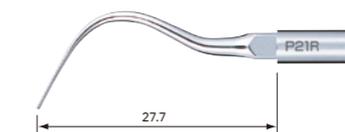


NSK Satelec® ORDER CODE **Z217420**



MODEL P21R

- Removal of light supra and subgingival calculus and biofilm

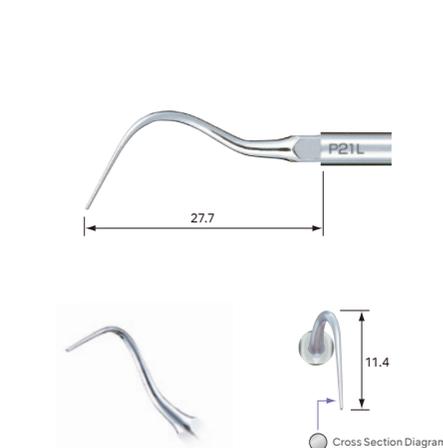


NSK Satelec® ORDER CODE **Z217422**

- Right curved type



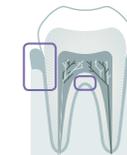
MODEL P21L



NSK Satelec® ORDER CODE **Z217421**

- Left curved type





MODEL P25R

- Removal of biofilm in furcation areas



NSK Satelec® ORDER CODE **Z217424**

- Right curved type



MODEL P25L

- Left curved type



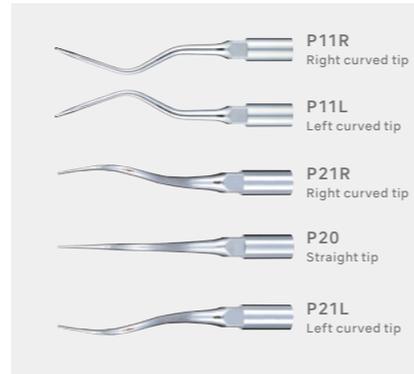
NSK Satelec® ORDER CODE **Z217425**

- Left curved type



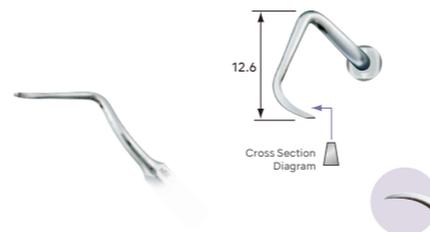
* Cross section diagram is the image of a point 1 mm from the end. The illustrated tip diagram is four times bigger than the actual size.

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



MODEL P26R

- Removal of supragingival and subgingival biofilm and calculus
- Removal of subgingival calculus in tight interproximal areas
- Removal of gingival biofilm in furcation areas



NSK Satelec® ORDER CODE **Z217426**

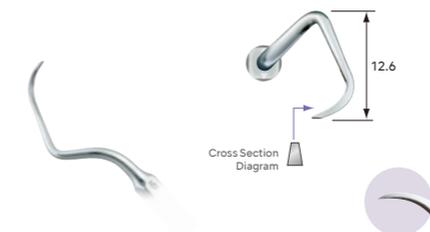
- Sharp edge
- Right curved type



Refer to the power guide on pages 35-36.

MODEL P26L

- Sharp edge
- Left curved type



NSK Satelec® ORDER CODE **Z217427**

- Sharp edge
- Left curved type



P25R / P25L / P26R / P26L (From above)



PERIO (Implant Maintenance)

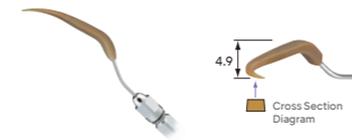


MODEL **V10** MODEL **V-P10** MODEL **V-P11R** MODEL **V-P11L**



For implant maintenance. Produced from special materials that allow safe debridement without causing damage to implants.

V-P11R/L left and right have a double bend in the shank of the instrument. This tip is extra-long to easily access difficult to reach areas and to avoid interference with adjacent teeth or contours. Its shape was designed to fit varying tooth morphologies, making this a versatile tip for a wide range of uses from anterior teeth to premolar areas.



NSK Satelec® ORDER CODE **Z217041**

ORDER CODE **Y900184**

ORDER CODE **Y1002165**

ORDER CODE **Y1002166**

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

- Pack of 3
- * V10 holder is not included

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

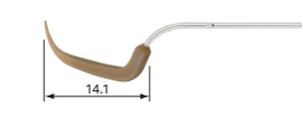
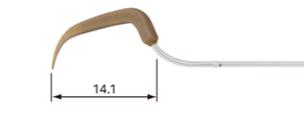
- Pack of 3
- Left curved type
- * V10 holder is not included



MODEL **V-P12** MODEL **V-P26R** MODEL **V-P26L** MODEL **Perio-Control Tips Starter Kit**

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

V-P26R/L are 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 line angles as, the end of the tip fits tooth morphology very closely.



ORDER CODE **Y1002167**

ORDER CODE **Y1002168**

ORDER CODE **Y1002169**

NSK Satelec® ORDER CODE **Y1002606**

- Pack of 3
- * V10 holder is not included

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

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

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



PERIO (Irrigation and Cleaning)

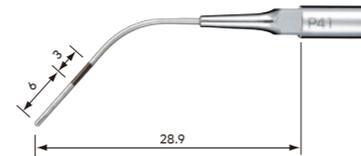
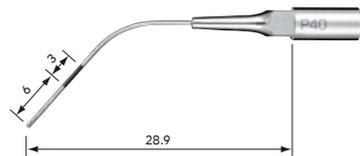
For effective cleaning following debridement or scaling. *No scaling effect.



MODEL **P40**

MODEL **P41**

Safe to use for irrigation in the periodontal pocket. Tips are color coded for depth at the 6 and 9 mm markings.



NSK Satelec®

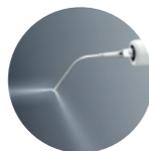
ORDER CODE **Z217550**

NSK Satelec®

ORDER CODE **Z217555**

• Tip diameter 0.6 mm

• Tip diameter 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 of the tip allows for safe entry into the periodontal pocket

* 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.

Refer to the power guide on pages 35-36.

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ENDODONTICS

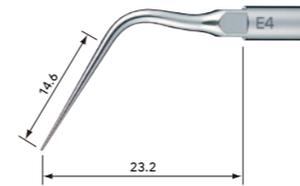


ENDODONTICS



MODEL E4

• Root canal cleaning and removal of foreign material



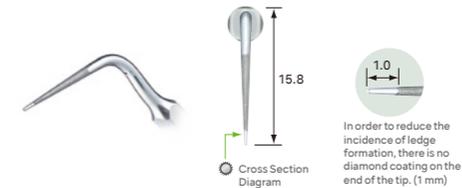
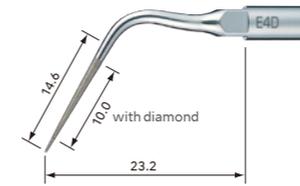
NSK Satelec®

ORDER CODE **Z217428**

• Tip diameter $\varnothing 0.6$ mm

MODEL E4D

• Root canal cleaning and root canal enlargement



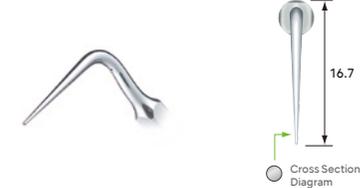
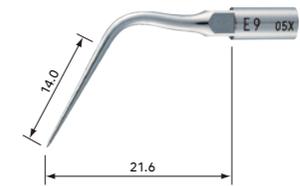
NSK Satelec®

ORDER CODE **A1012973**

• Single use • Diamond coated

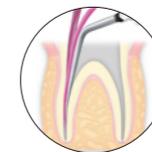
MODEL E9

• Root canal cleaning and removal of foreign material



NSK Satelec®

ORDER CODE **Z217314**

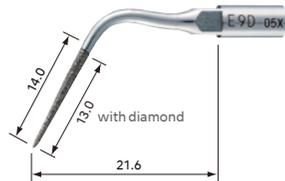


ENDODONTICS



MODEL E9D

• Root canal cleaning and root canal enlargement



NSK Satelec® ORDER CODE **A1012969**

• Single use • Diamond coated

MODEL E5

• Lateral condensation

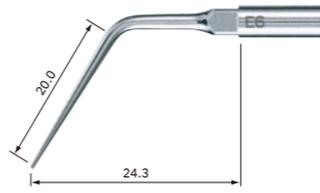


NSK Satelec® ORDER CODE **Z217305**

• Water not required

MODEL E6

• Lateral condensation



NSK Satelec® ORDER CODE **Z217306**

• Water not required

MODEL E7

• Removal of filling and foreign material



NSK Satelec® ORDER CODE **Z217307**

• Water not required

MODEL E7D

• Enlargement of root canal wall

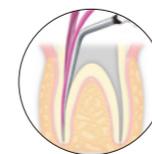


NSK Satelec® ORDER CODE **A1012966**

• Single use • Diamond coated



* 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.



Refer to the power guide on pages 35-36.

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ENDODONTICS



MODEL E8

- Removal of filling and foreign material



NSK Satelec® ORDER CODE **Z217308**

- Water not required



MODEL E8D

- Enlargement of root canal wall



NSK Satelec® ORDER CODE **A1012967**

- Single use • Diamond coated

MODEL E15D

- For locating root canals and removal of calcifications



NSK Satelec® ORDER CODE **A1012968**

- Single use • Diamond coated



MODEL E11

- 120° Angle Holder for U files



NSK Satelec® 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

MODEL E12

- 95° Angle Holder for U files



NSK Satelec® 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

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				



MODEL U Files

Length : 33 mm Shank dia. : 0.8 mm

MODEL **U files 33mm ISO 15** ORDER CODE **Y900062**
• ISO15 • Pack of 6

MODEL **U files 33mm ISO 20** ORDER CODE **Y900063**
• ISO20 • Pack of 6

MODEL **U files 33mm ISO 25** ORDER CODE **Y900064**
• ISO25 • Pack of 6

MODEL **U files 33mm ISO 30** ORDER CODE **Y900065**
• ISO30 • Pack of 6

MODEL **U files 33mm ISO 35** ORDER CODE **Y900066**
• ISO35 • Pack of 6

RETROGRADE ENDO

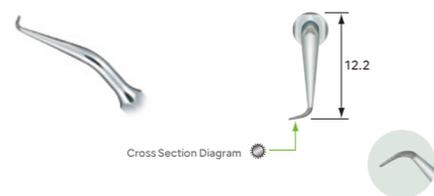
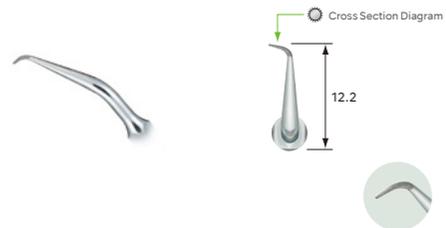
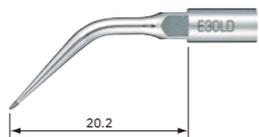
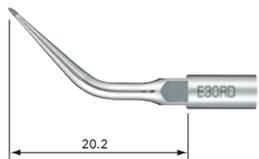
The microscopic diamond coated tip allows effective removal of dentin at the apex.
2 types of angled tips (90°, 70°) are available for anterior teeth and another 2 types of curved tips (right and left) are available for molar teeth.



MODEL E30RD

MODEL E30LD

• Diamond coated tip allows efficient cavity preparation



NSK Satelec® ORDER CODE **A1012964**

NSK Satelec® ORDER CODE **A1012965**

• Single use • Diamond coated
• For posterior teeth (right angled)

• Single use • Diamond coated
• For posterior teeth (left angled)

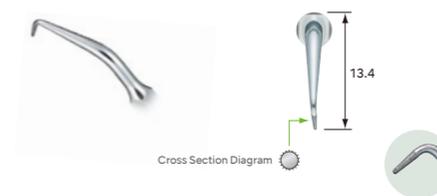
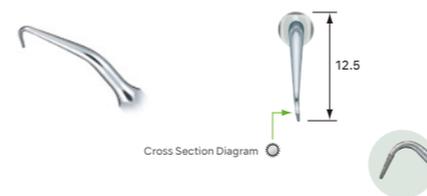
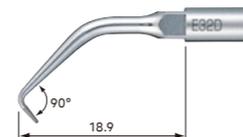
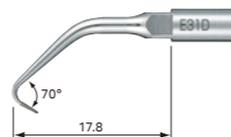


* Cross section diagram is the image of a point 1 mm from the end. The illustrated tip diagram is four times bigger than the actual size.

MODEL E31D

MODEL E32D

• Diamond coated tip allows efficient cavity preparation



NSK Satelec® ORDER CODE **A1012962**

NSK Satelec® ORDER CODE **A1012963**

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

• Single use • Diamond coated
• For anterior teeth (90°)

Refer to the power guide on pages 35-36.

Satelec® is registered trademarks of Acteon SA, France.

RESTORATIVE



RESTORATIVE



MODEL **G61D**

MODEL **G62D**

- Diamond coated ball ended tip
(Bleeding rarely occurs)



NSK Satelec®

ORDER CODE **A1012974**

NSK Satelec®

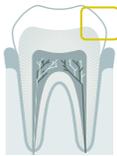
ORDER CODE **A1012975**

- Single use • Diamond coated

- Single use • Diamond coated



RESTORATIVE



MODEL G65D

- Interproximal caries removal
(The hemispherical top of the tip does not allow cutting of sound tooth)



NSK Satelec® ORDER CODE **A1012976**

- Single use • Diamond coated



MODEL G66D

- Interproximal caries removal of anterior teeth with safe cutting end



NSK Satelec® ORDER CODE **A1012977**

- Single use • Diamond coated



MODEL G67D

- For molar, interdental proximal caries
(The hemispherical top of the tip does not allow cutting of sound tooth)



NSK Satelec® ORDER CODE **A1012978**

- Single use • Diamond coated



MODEL G68D

- For anterior proximal caries
(Only decayed dentin can be removed as per for molars)



NSK Satelec® ORDER CODE **A1012979**

- Single use • Diamond coated



POWER GUIDE

TIP NO.	NSK		Satelec® P-Max XS P5 XS
	Varios2 970/370	Varios 750/560/350	
SCALING			
G1	G 7	G 3	15
G2	G 7	G Max	15
G3	G 7	G 3	15
G4	G 5	G 3	15
G5	G 6	G 3	15
G6	G 8	G 1	15
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

TIP NO.	NSK		Satelec® P-Max XS P5 XS
	Varios2 970/370	Varios 750/560/350	
P10	P 10	P Max	5
P11R	P 10	P Max	5
P11L	P 10	P Max	5
P20	P 8	P 4	5
P21R	P 8	P 4	5
P21L	P 8	P 4	5
P25R	P 10	P 4	5
P25L	P 10	P 4	5
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

TIP NO.	NSK		Satelec® P-Max XS P5 XS
	Varios2 970/370	Varios 750/560/350	
V-P26L	P 6	P 3	5
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
E9	E 6	E 4	5
E9D	E 7	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

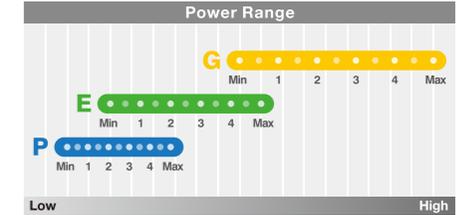
TIP NO.	NSK		Satelec® P-Max XS P5 XS
	Varios2 970/370	Varios 750/560/350	
E31D	E 6	E 3	5
E32D	E 6	E 3	5
RESTORATIVE			
G61D	G 2	G 2	15
G62D	G 2	G 3	15
G65D	G 2	G 2	15
G66D	G 2	G 2	15
G67D	G 2	G 3	15
G68D	G 2	G 3	15

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

Varios2



Varios



<Caution>

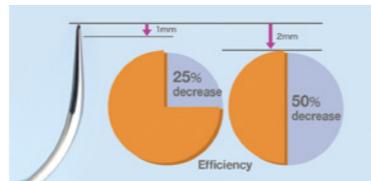
- Always consult the operating manual and attached sheets before use.
- Always use with correct power mode and power range for each individual tip.
- Always use with sufficient irrigation to prevent excessive heat generation during treatment.
- Always start out with lower power setting and then adjust 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.

The Varios Tip Card

- Easy to use guide to assess tip wear

Ultrasonic tips wear through repeated use. When tips wear, the vibration pattern changes and they lose efficacy. 2 mm of wear corresponds to a 50% reduction in efficiency of the tip. It is important to check tip wear regularly and replace as needed according to the tip guide.



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



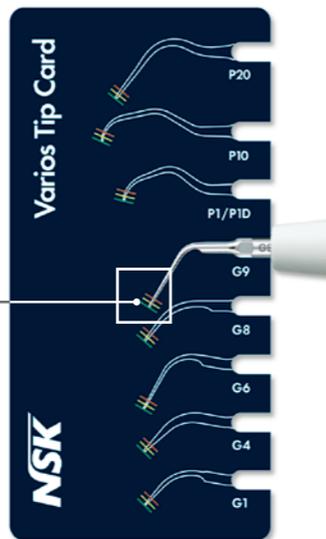
Yellow: Wear of 1mm - Tip is showing some wear

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

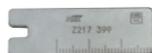
For tips G1 - G68D, P1 - P41, E15D, E30RD, E30LD, E31D and E32D.

*Please tighten the tip until it clicks.



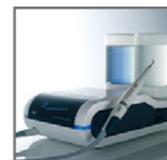
E Tip Replacement Wrench

For V10 (V-tip holder), tips E4, E4D, E5, E6, E7, E7D, E8, E8D, E9, E9D, E11 and E12.



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.



■ Series description [Varios 970]
■ Maintenance



■ Tip description

Manufacturer

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

NSK America Corp. www.nskdental.com
1800 Global Parkway, Hoffman Estates, IL 60192, USA

Specifications are subject to change without notice.