

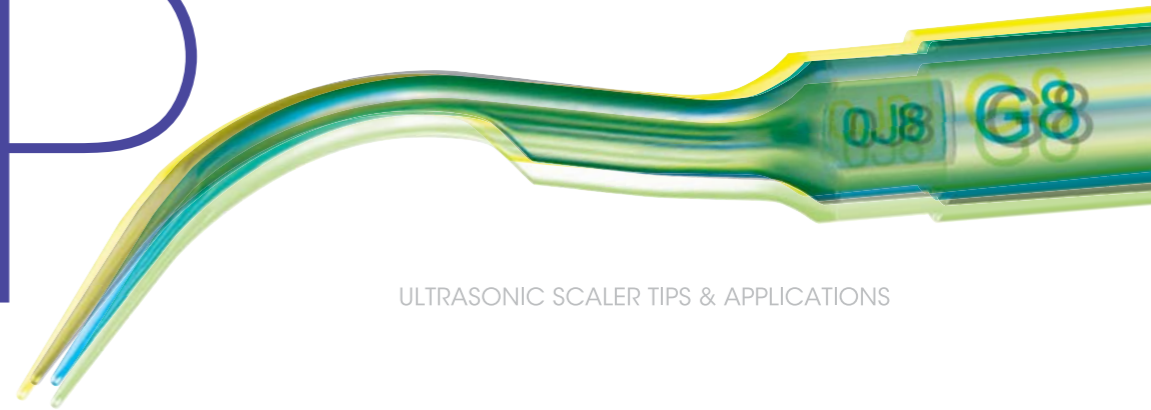


CREATE IT.

[www.nsk-inc.com](http://www.nsk-inc.com)

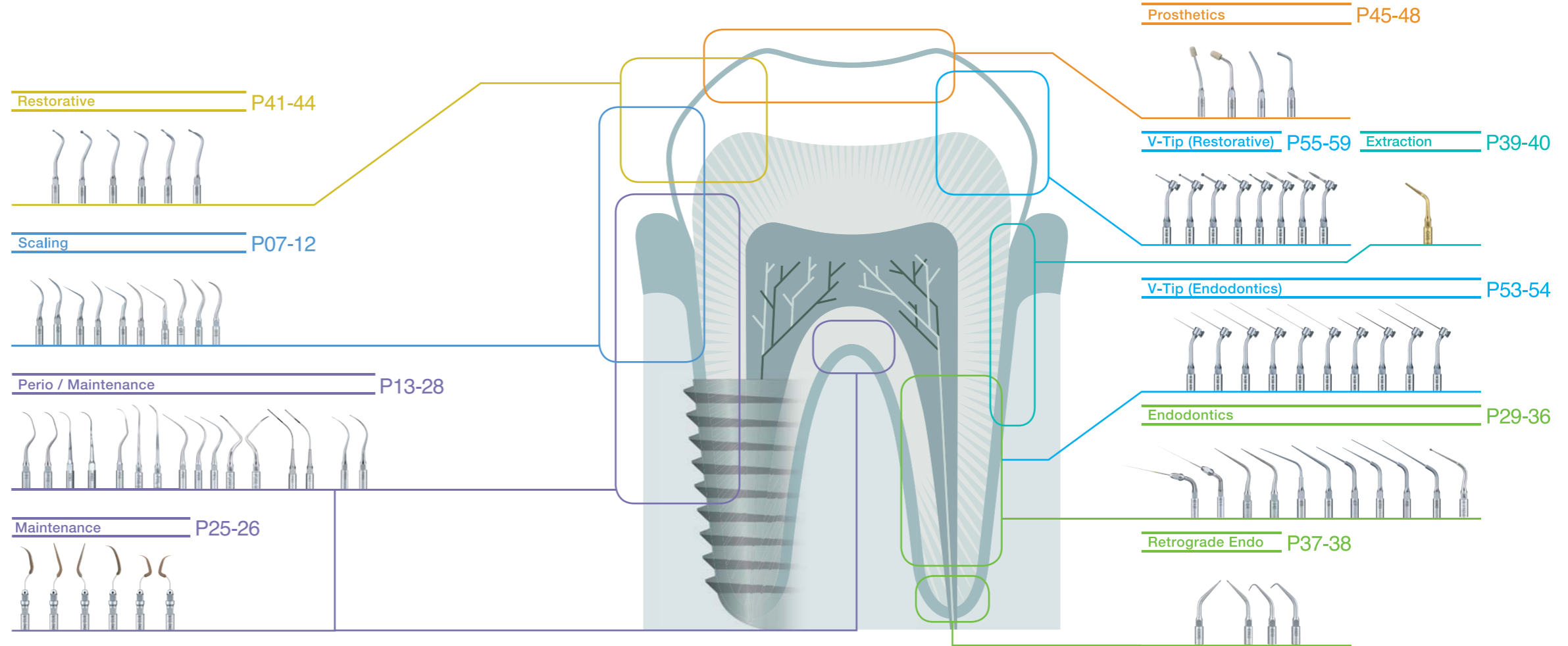
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# TIP GUIDE



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**



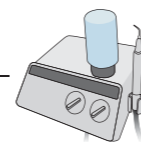
Varios 750



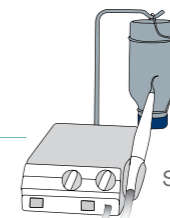
Varios 560



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:

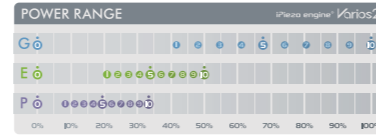
- The generator
- The handpiece
- The tip

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”.

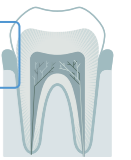
It is important to understand that the vibration movement, depending on its orientation on the work surface, has 2 clinical applications. Scanning the biofilm when the tip is tangential to the root surface. Hammering tartar when the tip is perpendicular to the debris to be removed.





SCALING

# SCALING

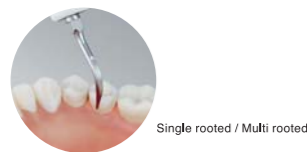


## MODEL G1

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

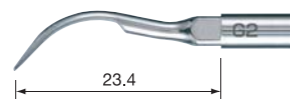


NSK Satelec® MODEL **G1** ORDER CODE **Z217101**  
 EMS® MODEL **G1-E** ORDER CODE **Z291101**

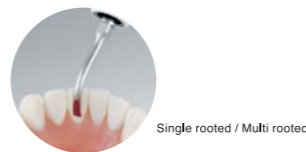


## MODEL G2

- Removal of supra gingival tartar.

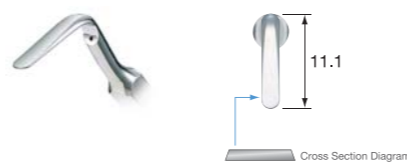
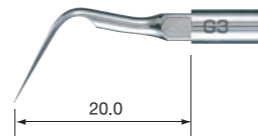


NSK Satelec® MODEL **G2** ORDER CODE **Z217102**  
 EMS® MODEL **G2-E** ORDER CODE **Z291102**

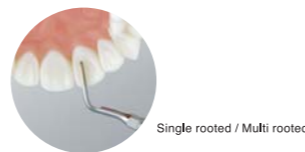


## MODEL G3

- Removal of supra gingival tartar.



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

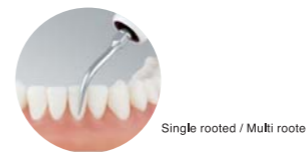


## MODEL G4

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

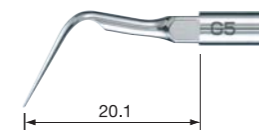


NSK Satelec® MODEL **G4** ORDER CODE **Z217104**  
 EMS® MODEL **G4-E** ORDER CODE **Z291104**

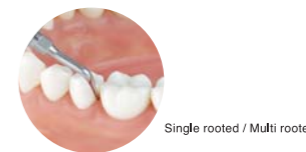


## MODEL G5

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

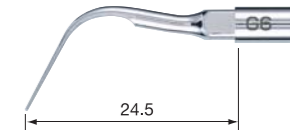


NSK Satelec® MODEL **G5** ORDER CODE **Z217105**

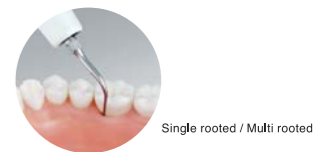


## MODEL G6

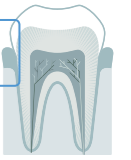
- Removal of supra gingival tartar.
- Removal of tartar narrow interdental space.
- Removal of marginal gingival calculus.
- Removal of gingival biofilm under natural tooth.



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

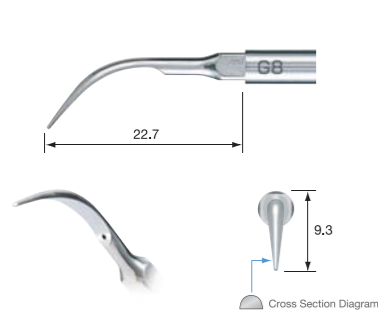


# SCALING



## MODEL G8

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



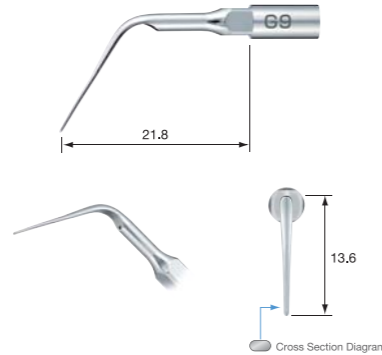
NSK Satelec® MODEL G8 ORDER CODE Z217108



Single rooted / Multi rooted

## MODEL G9

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



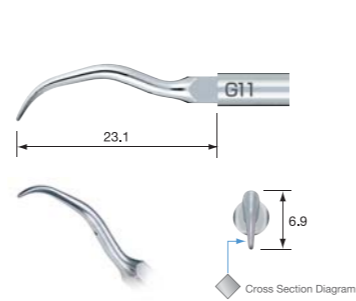
NSK Satelec® MODEL G9 ORDER CODE Z217109



Single rooted / Multi rooted

## MODEL G11

- Removal of supra gingival tartar.



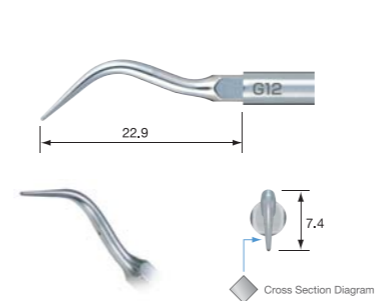
NSK Satelec® MODEL G11 ORDER CODE Z217411



Single rooted / Multi rooted

## MODEL G12

- Removal of supra gingival tartar.



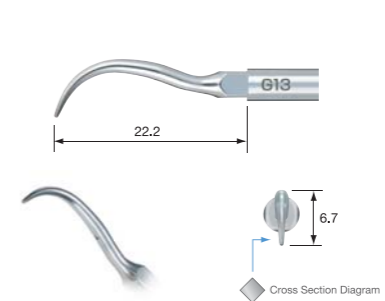
NSK Satelec® MODEL G11 ORDER CODE Z217412



Single rooted / Multi rooted

## MODEL G13

- Removal of supra gingival tartar.



NSK Satelec® MODEL G11 ORDER CODE Z217413



Single rooted / Multi rooted