

Two Maintenance Systems in One

Combining ultrasonic scaling and powder therapy for more effective and comfortable oral hygiene and biofilm control.



=



A Logical Combination

Bringing together advanced ultrasonic solutions
and powder therapy for truly professional results.

ULTRASONIC

POWDER





ULTRASONIC

Incorporating the Advanced iPiezo Engine

iPiezo engine®

The iPiezo engine easily and comfortably removes both soft and hard calculus by powering the tip according to the applied pressure. The ultrasonic engine features state-of-the-art software to maximize performance while minimizing patient discomfort.

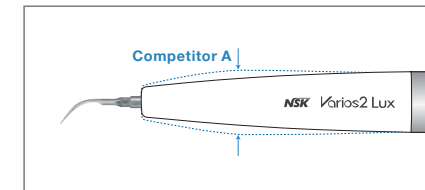


Feedback function

The iPiezo engine powers the tip according to the pressure applied by the operator and thus behaves like a hand instrument, ensuring stable scaling performance.

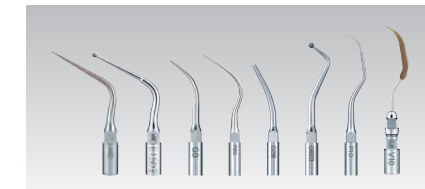
Auto tuning function

Auto tuning automatically adjusts the oscillation frequency to deliver the desired power to the tip. The tip adheres precisely to the tooth surface, enabling the clinician to properly sense the surface condition.



Slim handpiece ensures safety and accuracy

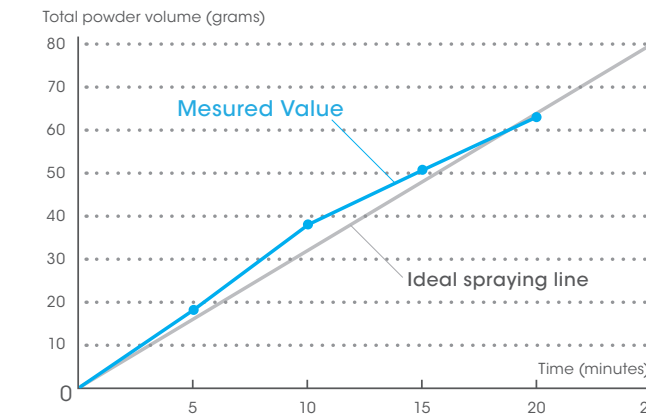
The slim, light weight and well-balanced handpiece offers outstanding accessibility and manoeuvrability and a wide operative field. The fine tip provides easy access to posterior teeth that can be hard to reach. Freer, unrestricted movement enables clinicians to maintain the right tip angle. The superior handpiece grip dramatically reduces the stress on clinicians' fingers and reduces fatigue, even during extended use.



A wide choice of tips

NSK offers more than 70 tips to optimize treatment in various clinical procedures.

Powder Therapy to Clean Supragingival Areas Efficiently and Quickly



Stable powder spraying

NSK's expertise in fluid analysis techniques, gained through developing turbines, optimize powder flows inside the chamber, streamlining sprays of powder, water and air to significantly shorten chair times.



User-friendly handpiece and nozzle

The slim handpiece provides excellent accessibility and manoeuvrability inside the oral cavity. The long, compact nozzle provides easier access to molars, reducing discomfort to both clinicians and patients by eliminating unnecessary lip and cheek stretching while maintaining a wide operative field.

A Powerful New Cleaning System



Fast and effective therapy

Clinicians can clean teeth quickly with NSK's FLASH pearl powder. NSK FLASH pearl consists of fine spherical shaped calcium-based particles which remove stains and plaque.



POWDER

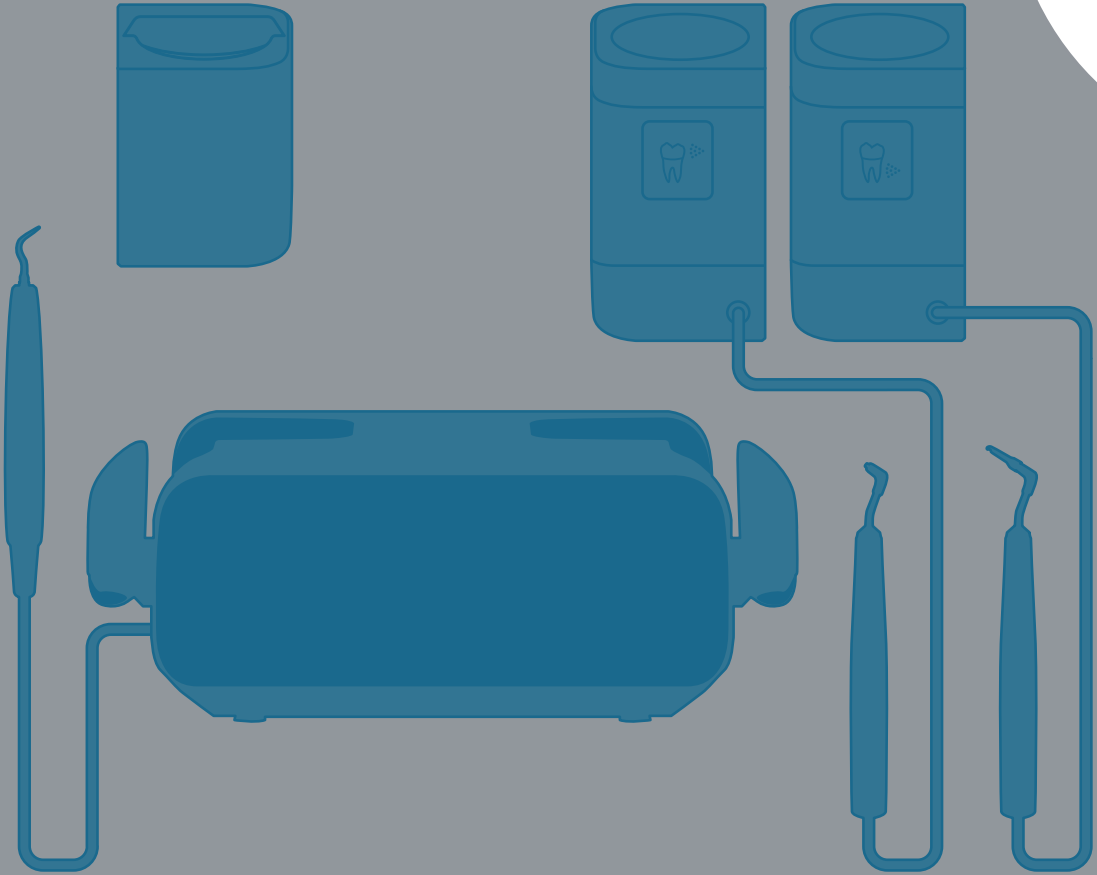
Innovative New Design Enables Clinicians to Safely and Efficiently Combine Two Applications

Two systems in one

NSK has combined ultrasonic treatment and powder therapy into a single professional treatment unit that streamlines procedures and saves time and space.

Automatically sets powder therapy functions for supragingival or subgingival applications

The clinician simply attaches the relevant powder chamber, and the unit automatically selects the functions for supragingival or subgingival applications. This prevents selection errors.



Independent unit and chamber

The detachable chamber and handpiece make it possible to easily switch between supragingival and subgingival applications and make the unit extremely user and maintenance friendly.

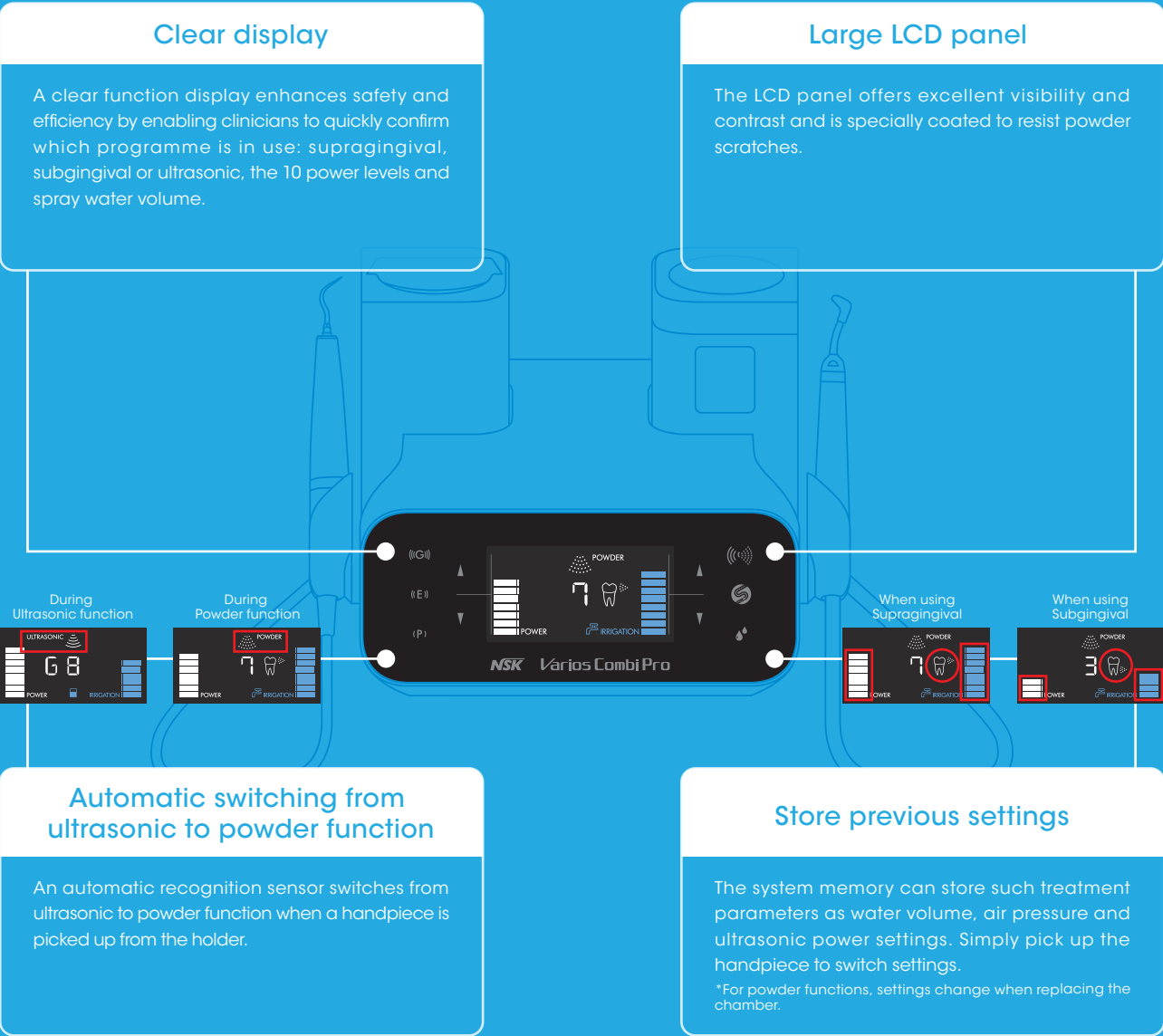
No more clogging

By keeping the control unit, handpiece and handpiece hose separate the risk of powder blockages inside the unit has been completely eliminated. The components carrying powder and water are all easily accessible for maintenance and service.

Keeps both powder types separate

Separate chambers, handpieces, and handpiece hoses for supragingival and subgingival procedures eliminate the risk of powder mixing or powder entering the control unit.

Optimizing Manoeuvrability



Easy Maintenance



Auto-cleaning function

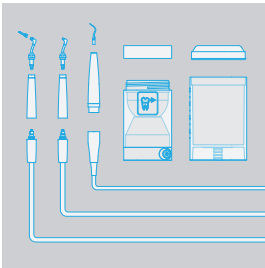
Auto-cleaning automatically cleans the handpiece and hose after powder or ultrasonic applications. During the cleaning cycle, the display shows the time remaining to complete the process which takes approximately 45 seconds from start to finish.

Powder function

Following treatment, simply press the auto-cleaning button to discharge water from the hose and handpiece to prevent possible powder blockages.

Ultrasonic function

Press the auto-cleaning button to flush the handpiece , tip and handpiece cord tip. This lowers the risk of corrosion especially when corrosive irrigants have been used.



Easy maintenance

The nozzle, handpiece, handpiece hose and chamber are easy to disassemble.



Smooth surfaces for easy cleaning

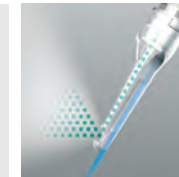
The body is seamless and smooth, making it easy to remove powder residues. The display material has been treated with a scratch resistant coating.

Option: PERIO-SYSTEM

Subgingival Application



The Powder Spray Gently Cleans Subgingival Areas



Gentle on soft tissue

Separating powder and water during application prevents periodontal damage. Powder flow is directed in all directions to remove subgingival plaque.

Automatic spray force adjustment

Connecting the subgingival chamber automatically lowers the spray pressure to 20% of the supragingival level to guarantee safe operation during subgingival application.



Safe plastic nozzle

Because the nozzle tip is flexible, it can follow tooth contours and is easy to insert into pockets thereby minimizing patient discomfort. The material is semi-transparent to help with visibility. The nozzle tips are sterile and individually packaged so they are ready to use.

Wide range of applications

Applications range from quick biofilm removal to cleaning around dental implants and periodontal pockets. With the nozzle tip removed, clinicians can remove plaque from subgingival pockets of up to 3 mm.

Biofilm removal inside periodontal pockets



Biofilm removal inside of 3 mm to 6 mm periodontal pockets after basic periodontal treatment has been completed.

Interdental and gingival margin plaque removal



- Gingival margin plaque removal (from pockets up to around 3 mm).
- Biofilm removal with rubber cup for complicated tooth alignment and other areas that are hard to access, interdental areas, and in pits and fissures.
- Cleaning around dental implants.
- Removing minor stains across large areas.

1. Used for SPT (supportive periodontal therapy) for pockets around 6 mm that result from periodontal disease.*1
2. Spraying each tooth for 20 seconds (5 seconds per surface) is best to eradicate subgingival biofilm inside delicate periodontal pockets.*1
3. Reciprocal motion of the nozzle tip and fine circular movements are vital to remove biofilm effectively.

*1.Flemmig TF, Hetzel M, Topoll H, Gerss J, Haeberlein I, Petersilka G., Subgingival debridement efficacy of glycine powder air polishing., J Periodontol. 2007 Jun; 78(6): 1002-10., Petersilka GJ, Steinmann D, Haberlein I, Heinecke A, Flemmig TF "Subgingival plaque removal in buccal and lingual sites using a novel low abrasive air-polishing powder" J Clin Periodontol. 2003 Apr; 30(4):328-33.

Powder

Powder for Effective Supragingival and Subgingival Cleaning



FLASH pearl

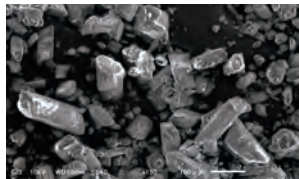
- Supragingival polishing powder
- Principal ingredient is calcium carbonate. Non-flavoured.
- Sodium-free, so no unpleasant salty taste and ideal for patients on sodium-restricted diets.
- Spherical granules are gentle on tooth surfaces.
- Average particle diameter is 54 µm.



Perio-Mate Powder

- Subgingival polishing powder
- Principal ingredient is glycine, an amino acid present in proteins.
- Highly water soluble to prevent subgingival retention.
- Lower Mohs hardness than dentin.*
- *Glycine ranks 2 on the Mohs hardness scale, while dentin is 2 to 2.5.
- Average powder particle diameter is 25 µm.

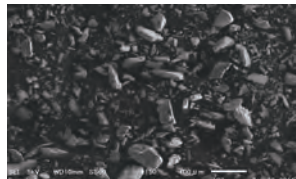
Powder Particle Comparisons The fine Perio-Mate Powder is ideal for periodontal pocket treatment.



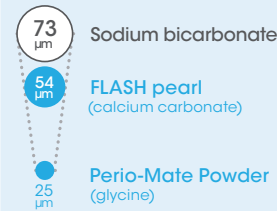
Conventional sodium bicarbonate powder
Average particle diameter: 73 µm
Scanning electron microscope image magnification of 150x



FLASH pearl (calcium carbonate)
Average particle diameter: 54 µm
Scanning electron microscope image magnification of 150x

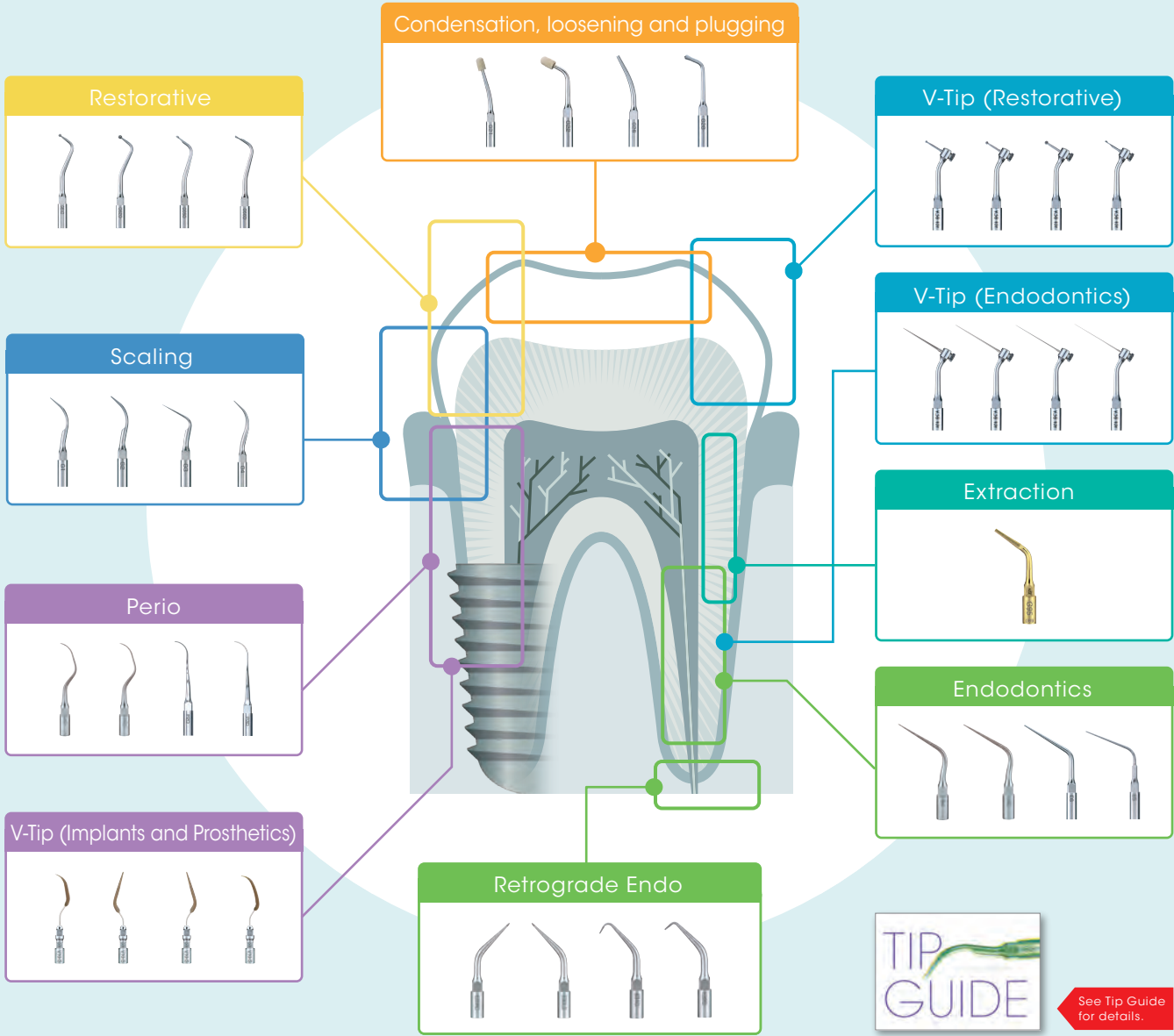


Perio-Mate Powder (glycine)
Average particle diameter: 25 µm
Scanning electron microscope image magnification of 150x



Tip Variations

NSK Offers a Wide Choice of Tips for Clinical Applications



See Tip Guide for details.

Basic Set

MODEL: Varios Combi Pro Basic Set
ORDER CODE: Y1002843

- Contents :
- PROPHY-Handpiece with 60° Nozzle
 - PROPHY-Hose
 - PROPHY-CHAMBER
 - FLASH pearl (5 pcs. x 15 g sachets)
 - Maintenance kit
 - VA2LUX-Handpiece
 - VA2LUX-Hose
 - 3 Scaling tips
 - Sterilization case
 - Irrigation bottle (400 mL)
 - Foot control

- Specifications :
- Power supply : AC 100-240 V 50/60 Hz
 - Frequency : 28-32 kHz
 - Dimensions : W 225 x D 290 x H 162 (mm) (including chamber)
 - Unit weight : 2.6 kg (Except attachment)
 - Bottle volume : 400 mL



Optional PERIO-SYSTEM

MODEL: Varios Combi Pro Perio Set
ORDER CODE: Y1003042

- Contents :
- PERIO-CHAMBER
 - PERIO-Hose
 - PERIO-Handpiece
 - Perio-Mate Nozzle tip (40 nozzle)
 - Perio-Mate Nozzle tip remover
 - Perio-Mate powder (160 g x1)



Accessories

FLASH pearl Cleaning Powder

MODEL: FLASH pearl
ORDER CODE: Y900693

- Contents :
- 100 sachets (15 g each)



MODEL: FLASH pearl (Bottle)
ORDER CODE: Y900698

- Contents :
- Four bottles (300 g each)



Perio-Mate Powder

MODEL: Perio-Mate Powder
ORDER CODE: Y900938

- Contents :
- Two bottles (160 g each)



Perio-Mate Nozzle Tip

MODEL: Perio-Mate Nozzle Tip
ORDER CODE: Y1002741

- Contents :
- 40 nozzles
- Disposable ● Sterile ● Individually packaged



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

NSK Europe GmbH www.nsk-europe.de
Elly-Beinhorn-Strasse 8, 65760 Eschborn, Germany

NSK United Kingdom Ltd www.nsk-uk.com
Office 5, Gateway 1000, Arlington Business Park
Whittle Way, Stevenage, SG1 2FP, UK

Specifications are subject to change without notice.