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HYGIENE & MAINTENANCE

NSK

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Safer and more comfortable everyday dental care.

Even the most advanced handpiece is worthless if it cannot be operated safely and reliably.
As a trusted global manufacturer of handpieces NSK strives to ensure the highest standard of performance through advanced technologies.
NSK offers solutions to cover the entire decontamination cycle - cleaning, lubrication and sterilization to help maintain safe and reliable operation.

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iCare+

Automatic system for cleaning, disinfecting and lubricating rotary instruments

Manual cleaning of instruments does not remove all deposits and residues.
Dynamic instruments that are poorly maintained or not adequately cleaned may become damaged and pass on infections to both patients and practitioners.
Any instrument used in dentistry must be perfectly cleaned, disinfected and maintained.
NSK is aware of the requirements in the daily practice of dentistry and, after many years of research, it has come up with a simple and effective solution thanks to iCare+.

Advantages

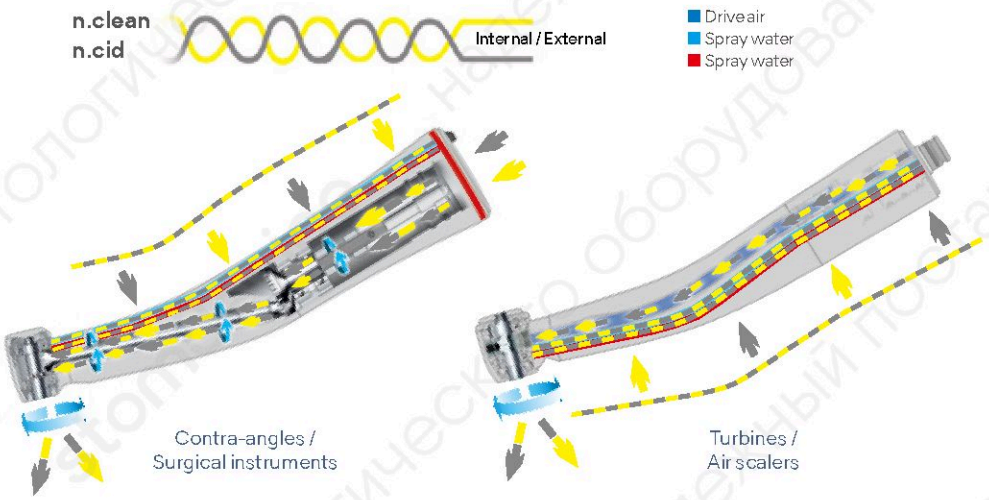
- Simplicity
- Automatic
- Speed
- Constant monitoring of working parameters for consistent performance
- Universal connection of dynamic instruments
- Validation
- Traceability
- Detects instrument type spray / water external or internal
- Consistent repetition of cycles



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Intelligence at the service of your instruments

iCare+ is smart and detects the type of instrument attached to the ports (internal/external spray or without spray), when canals are blocked or the wrong cycle has been selected for a specific instrument to ensure cycle efficiency. During the different cycles, iCare+ starts the rotation of instruments and injection of treatment products into all the internal mechanisms and tubing of the instruments to provide deep cleaning and disinfection; a pressure spray simultaneously cleans and disinfects the external surfaces. Each cycle lasts for a specific duration in compliance with EN ISO 15883/15883-5 to guarantee maximum effectiveness of the n.clean and n.cid solution for the perfect treatment of every instrument.



Security

Tests performed by the Dr. Brill Institute conducted on extremely dirty instruments (containing sheep's blood with heparine, protamine, bacteria and yeast) prove that iCare+ treatment cycles together with n.clean cleaning and n.cid disinfection guarantee proven effectiveness of the results. The validated tests realized in Germany by this accredit laboratory were done according to RKI recommendations (Robert Koch Institute) and EN ISO 15883.

99.999% of bacteria is eliminated

iCare+ makes it possible to reduce proteins to less than 100 mg per instrument after treatment. Thus, the reduction in the level of microbial contamination (> 5-log step) of the instruments treated is equivalent to eliminating over 99.999% of the bacteria.

Guaranteed consistent repetition of cycles

iCare+'s internal control system has sensors, which ensure consistency of every cycle in accordance with the parameters which were determined during the laboratory tests.
iCare+ is a medical device which has a protocol, a method of analysis, and certifiable results.

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Cleaning and Disinfection

Two Products Inextricably Linked to iCare+

iCare+ working hand in hand with n.clean and n.cid products. n.clean and n.cid have been specifically developed for rotary instruments in compliance with laboratory protocols as well European and International standards.



Validated Association of Certified Products

Extensive laboratory tests have been conducted on NSK turbines, handpieces and contra-angles, as well as on instruments from other brands: the results are identical for all tested instruments and always in compliance with EN ISO 15883. It is therefore crucial that iCare+ be used together with n.clean for cleaning and n.cid for disinfection of rotary instruments to guarantee optimal results validated by laboratories.

Targeted Action

n.clean, a cleaning and rinsing solution, acts as a detergent and has bacteriostatic and fungistatic effects. It prevents proteins from attaching to internal and external surfaces of instruments. Disinfection prior to sterilisation is carried out by n.cid, a bactericidal, fungicidal and virucidal* disinfectant solution effective against wrapped viruses, as well as unwrapped Adeno viruses.

*Bactericidal TBC, MRSA - Fungicidal Candida albicans - Virucidal HBV, HCV, HIV, Herpes simplex, influenza, H1N1 + H5N1

Complete Traceability

Internal Traceability Software

In addition to the permanent internal validation process, software is available to log all cycle data on an external device. iCare+ generates a serial number for every cycle. Once the data has been transfered to a computer you can add serial numbers of individual instruments to specific cycle records in order to establish total traceability.



Data Storage

To allow traceability and external storage of the iCare+ cycle data an easily accessible USB port is built into iCare+ unit.*

User-friendly Interface

The user friendly software interface allows easy and efficient management of all cycle data with the option of adding specific records for individual instruments at the push of a button.

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Easy to use

The clearly and intuitively arranged control panel together with the LED indicators and the internally lit treatment chamber, which clearly indicates operating mode, makes it really easy to operate iCare+.

- Yellow for cleaning
- White for disinfection
- Blue for lubrication
- When the green LED lights up, the process is complete.



iCare+ Complete Sets

Dual standard ports + Dual rotation ports	
MODEL	ORDER CODE
iCare+ C2	**S102001**

Single standard port + Triple rotation ports	
MODEL	ORDER CODE
iCare+ C3	**S103001**



Contents
• iCare+ unit • Power cord with L-shaped plug • Air tube • Notice on DVD

Specifications
• Power Supply : AC 100-230 V 50/60 Hz
• Capacity : up to 4 instruments
• Air Pressure : 0.5-0.6 MPa (5.0-6.0 kgf/cm²)
• Weight : 14 kg
• Dimension : W 400 x D 405 x H 355 mm
• Capacity of the oil tank : 500 mL
• Capacity of the bottles for the cleaning and isinfection product : 500 mL

*Connects only to Midwest 4-hole type *An airline is necessary (5.0-6.0 kgf/cm²)

iCare+ Adaptors

MODEL	ORDER CODE	
iCare+ Adaptor PTL	**Z1127010**	• For NSK high speed handpieces for PTL coupling
iCare+ Adaptor KV	**Z1127011**	• For KaVo® high speed handpieces for Multiflex® coupling
iCare+ Adaptor SR	**Z1127013**	• For Sirona® high speed handpieces for Quick coupling
iCare+ Adaptor WH	**Z1127012**	• For W&H® high speed handpieces for Roto Quick® coupling
iCare+ Adaptor BA	**Z1127014**	• For Bien Air® high speed handpieces for UNIFIX® coupling

Check with your dealer for the correct adaptors to use for your high speed handpieces.

Pressure regulator

MODEL	ORDER CODE
Pressure regulator for iCare+	**S103500**

Refill Maintenance Oil

MODEL	ORDER CODE
n.clean, 500 ml PEHD bottle (6 pcs)	**ACL600**



MODEL	ORDER CODE
n.cid, 500 ml PEHD bottle (6 pcs)	**ACD600**



MODEL	ORDER CODE
Maintenance oil for iCare+ (1 litre)	**Z016117**



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iCare

Automatically Lubricates

iCare sets a new standard for handpiece maintenance systems. In one stylish and compact body, it offers you both ease of use and multiple functions to achieve complete lubrication. The proper solution volume is preset based on handpiece type, and maintenance can be initiated at the touch of a button. The chuck cleaning system keeps chucks pristine, and the purging select mode lets you alter purge time depending on the situation for truly comprehensive maintenance. Thanks to its stylish and compact body, iCare is also space efficient and totally in harmony with your working environment.

Advantages

- Preset solution volume based on handpiece type (high-speed handpieces, low-speed handpieces)
- Chuck cleaning function ensures that the chuck is thoroughly cleaned and lubricated
- Purging select mode ensures complete removal of excess oil
- Integrated large oil tank (1.2 Liters) reduces the burden of refilling

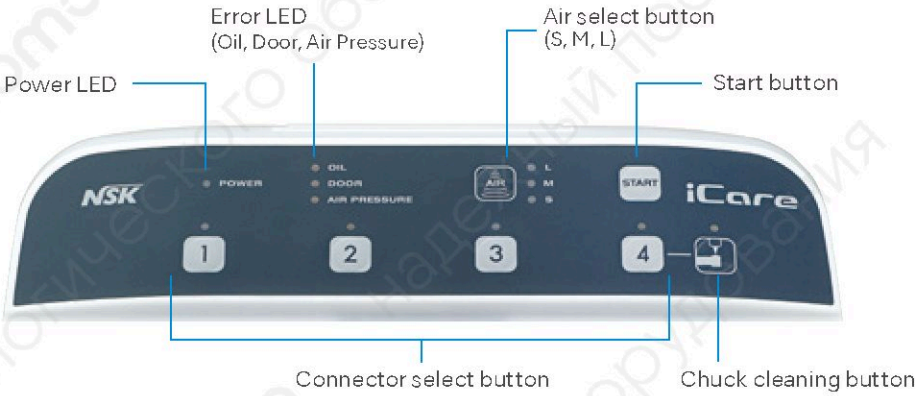


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Ergonomic and easily readable large panel

Simple one-touch operation to start lubrication.



Preset proper solution volume based on handpiece type

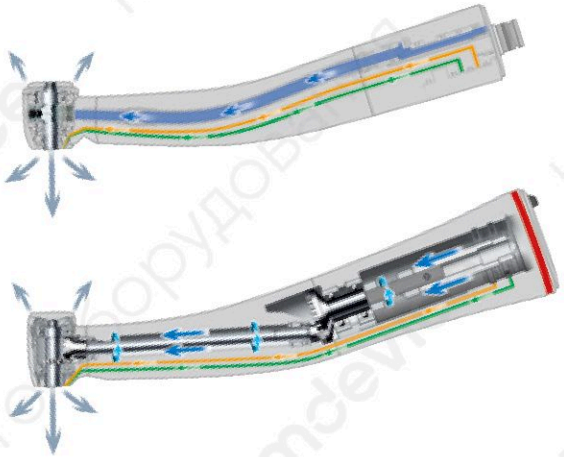
The proper solution volume is preset based on high speed and low speed handpieces, ensuring precise and thorough lubrication at the touch of a button.

High speed handpieces

iCare meticulously lubricates the components of high speed handpieces.

Low speed handpieces

Low speed handpieces incorporate gearing systems that require extra solution penetration. The NSK rotation system guarantees optimum oil delivery to the internal components of all low-speed handpieces.



Accommodates both NSK handpieces and those of other brands

NSK and all other brands of low speed handpieces connect directly to the fitting supplied. NSK high speed handpieces require the PTL adaptor. Adaptors are available for connection of most other high speed brands.

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Purging select mode

After lubrication, you can select from appropriate modes offering different purge lengths - short, medium and long.



Chuck cleaning function

The chuck cleaning function completely removes dirt and cutting powder from the chuck.



HP head filter prevents mist leaks (Optional)

Handpiece head filters are made to absorb any spray mist generated.



Easy to clean

iCare's front door can completely removed to allow fast, easy cleaning.



Solution tank

iCare's big solution tank has a capacity of 1.2 litres allowing you to pour in a full one litre bottle of maintenance solution at once, reducing the necessity for frequent refilling. The enclosed nozzle enables clean and easy refilling.



Safe operation with a range of alarm functions

The alarm LED ensures safe and secure maintenance by alerting you to various situations, including inadequate solution and an unclosed door.

Stylish and compact

In the pursuit of 'ultimate ease-of-use', the iCare performs automatic maintenance of up to four handpieces at once.
iCare is also designed to be simple to set up and space efficient, you can install it virtually anywhere.



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iCare Complete Sets



Dual standard connectors + Dual rotation connectors

MODEL	ORDER CODE
iCare C2 Type	**Y1002787**



Single standard connector + Triple rotation connectors

MODEL	ORDER CODE
iCare C3 Type	**Y1002788**



Contents
• iCare unit • Power cord • Chuck cleaning nozzle • Maintenance oil for iCare (1 Liter) • Mist filter set
• Oil absorber sheet • Air tube

Specifications
• Power supply : AC 100-240 V 50/60 Hz
• Air pressure : 0.5-0.6 MPa (5.0-6.0 kgf/cm²)
• Weight : 6.5 kg (C2 type / C3 type)
• Dimension : W 280 x D 240 x H 350 mm
• Solution tank capacity : 1.2 L

• Connects only to Midwest 4-hole type
• An air line is necessary (5.0-6.0 kgf/cm²)
• Do not use iCare to lubricate air scalers (except NSK S970 series) and Phatelus air motors. The iCare lubricating system is not designed to lubricate those particular products. Maintain air scalers and Phatelus air motors as described in the operation manual for each product.
• If blood infiltrates inside a handpiece, iCare may not totally clean the internal handpiece components, and internal blood coagulation may cause product failure. In this case, NSK recommends to immediately lubricate those handpieces manually with PANA SPRAY Plus.

iCare Adaptors

MODEL	ORDER CODE	
PTL Adaptor	**Z257010**	• For NSK high speed handpieces for PTL coupling
B2/M4 Adaptor	**T904**	• For Borden 2 hole high speed handpieces
KV Adaptor	**Z257020**	• For KaVo® high speed handpieces for Multiflex® coupling
SR Adaptor	**Z257023**	• For Sirona® high speed handpieces for Quick coupling
WH Adaptor	**Z257021**	• For W&H® high speed handpieces for Roto Quick® coupling
BA Adaptor	**Z280022**	• For Bien Air® high speed handpieces for UNIFIX® coupling
F-Type Adaptor	**Z280042**	• For ENDO-MATE TC2, DT2 heads

Check with your dealer for the correct adaptors to use for your high speed handpieces.

Refill Maintenance Oil

MODEL	ORDER CODE
Maintenance oil for iCare (1 bottle, 1 litre)	**Z016130**



MODEL	ORDER CODE
Maintenance oil for iCare (Pack of 6 bottles)	**Y1002783**

MODEL	ORDER CODE
Mist Filter Set • Pack of 12	**Y900159**



MODEL	ORDER CODE
Oil Absorber Sheet • Pack of 10	**U433135**



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iClave plus EN 13060 : Class B

The iClave's copper chamber improves efficiency and capacity.

Air turbines, contra-angles, and other dynamic dental instruments consist of high-precision micro mechanisms and therefore benefit from careful sterilization to maintain performance. NSK chose to use a highly conductive copper chamber to satisfy Class B, Europe's strictest sterilization standard. The system delivers outstanding efficiency despite its large capacity.

Advantages

- More capacity
- Faster sterilization
- More efficient drying phase
- More economical and environmentally friendly
- Gentle handpieces sterilization



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Improved Capacity

The iClave plus can fully use its 17.5 litre capacity because it maintains even temperatures throughout the autoclave chamber and constantly controls the surface temperature.



Copper chamber



Stainless steel chamber

High efficiency copper chamber improves total cycle times for faster throughput, saving time and money.



Super fast



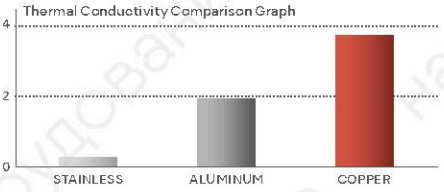
Super fast

The copper chamber's superior thermal conductivity delivers outstanding performance

Copper Chamber

Using copper to construct the chamber gives 17.7 times more heat conductivity than stainless steel. The copper chamber retains even internal temperature levels throughout, enhancing the drying performance, helping protect instruments from corrosion, discolouration and damage.

Thermal Conductivity Differences of Materials



Copper's heat conductivity is 1.9 times and 17.7 times higher than that of aluminium and stainless steel, respectively.

Adaptive Heat System

Advanced heating system leveraging excellent thermal conductivity

NSK's innovative heating system optimizes the high heat conductivity of copper. Enveloping the copper chamber is a special heater which is also used in satellites, incorporating electro-thermal material embedded in silicone to heat the entire chamber evenly without heat loss.



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Advanced safety and durability through user-friendly functions.

Vacuum sterilization for all types of instrument

A vacuum pump removes air from the chamber and handpiece cavities before sterilization.



Bacterial ventilates for greater safety

The iClave plus ventilate air through a bacterial filter during the drying phase, eliminating the possibility of re-contamination.



Designed to boost product reliability

Consistent temperatures inside the chamber eliminate fluctuation stresses and reduce the risk of problems. NSK initially reviewed product reliability to ensure safe treatment. There are three temperature sensors to control temperatures in the iClave plus. An annual maintenance service alert helps prevent breakdowns and boosts product reliability.

Stainless steel body enhances durability

The stainless steel body work, which is rare for an autoclave these days, makes iClave plus more robust. Together with the copper chamber it delivers outstanding durability.

Constantly monitoring working parameters for safe operation

The process evaluation system constantly monitors pressure, temperature, water quality and steam. Additional features include cycle counter, altitude set-up, maintenance monitoring, triple safety lock, auto switch-off, and double water tank.

User-friendly, easy to read operating panel

With a sophisticated design and excellent visibility, the panel is easy to operate and maintain, with colors changing according to conditions, enhancing sterilization reliability.

[Text colors] White: Selection screen Yellow: During operation
Green: Sterilization complete Red: Error



Sterilization cycle data recording

All sterilization cycles are recorded on a USB flash drive, and no special software is required to view and print records of all cycles. The system records all relevant cycle parameters against a unique date and time stamp.



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iClave plus Complete Set

MODEL	ORDER CODE
iClave plus 230V	**Y1003077**

Technical characteristics
- External dimensions : W 445 x D 585 x H 440 mm
- Chamber dimensions : ø240 x 384 mm
- Chamber capacity : 17.5 litre
- Net weight : 47 kg
- Maximum power consumption : 1,920 W
- Supply Voltage CE : AC 230 V - 50/60 Hz
- Air expulsion system : Vacuum pump 2, 3, 4 vacuum
- Max load : 4 kg (solid), 1.5 kg (porous)

External dimensions exclude protrusions.

	PROGRAMS	PARAMETERS			CLASS
1	UNIVERSAL	134°C	5 min	3 vacuum	B
2	DELICATE	121°C	20 min	3 vacuum	B
3	FLASH	134°C	3 min	2 vacuum	S
4	SMALL LOAD*1	134°C	4 min	3 vacuum	B
5	PRION	134°C	18 min	3 vacuum	B
6	CRITICAL 134°C	134°C	5 min	4 vacuum	B
7	CRITICAL 121°C	121°C	20 min	4 vacuum	B
8	SPECIAL	105-135°C	3-90 min	2-4 vacuum	-

• Bowie & Dick : 134°C / 3.5 min / 3 vacuum • Vacuum test : 20 min
*1 small load : included hollow instruments type A and B (MAX 0.5 kg)



Optional Accessories

Sealer Newseal

With high output, easily and automatically seals envelopes before sterilization.

- Self adjusting sealing from 10 mm
- Retracting blade cutter • Reel holder
- Visual and acoustic seal indication
- Pre-set for wall attachment

MODEL	ORDER CODE
Sealer Newseal	**Z1279**



Kit Wifi

Device for storing the sterilization cycles' data on an external memory and send to any PC, tablet or smartphone via WIFI connection.

MODEL	ORDER CODE
Kit Wifi	**599011**



Regenerating Tabs

A special effervescent tablet for cleaning the chamber. Placed inside the chamber, it removes limescale and dirt residue from the chamber upon activating the cycle.

MODEL	ORDER CODE
Regenerating Tabs	**0230050**



Helix Test

Helix Test allows you to verify steam penetration into hollow instruments. Includes a tester and 250 indicators.

MODEL	ORDER CODE
Helix Test	**9900059**



Barcode Label Writer

Increases traceability levels by combining sterile instruments and patients.

MODEL	ORDER CODE
Barcode Label Writer	**Z1281**



Purity

High quality water is essential for sterilisation. This customised RO unit fits on top of the iCare plus automatically filtering water from the mains supply.

MODEL	ORDER CODE
Purity	**Z1284**



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PANA SPRAY Plus

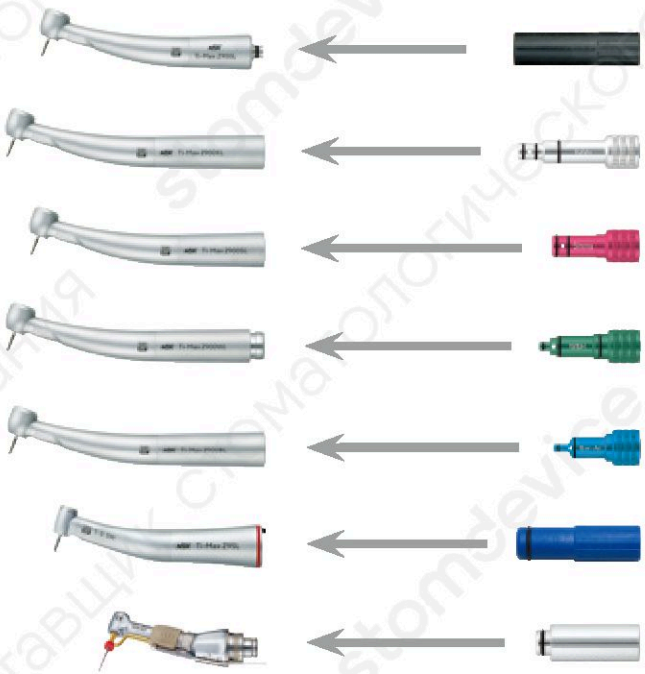
PANA SPRAY Plus is a specially formulated, highly effective general handpiece and air motor lubricant. Frequent application of PANA SPRAY Plus will assure handpiece and air motor performance and durability. Apply PANA SPRAY Plus every time before autoclaving any handpiece or air motor.



MODEL	ORDER CODE	
PANA SPRAY Plus	**Z182100**	• For high & low speed handpieces, and air motors • 500 mL • Alcohol-based lubricant
PANA SPRAY Plus Package	**Y900630**	• PANA SPRAY Plus pack of 6

MODEL	ORDER CODE
Tip Nozzle	**Z020201**

PANA SPRAY Plus Nozzles



MODEL	ORDER CODE
Phatelus Spray Nozzle • For high speed attachments and air motors which attach to Phatelus and Mach couplings	**P183090**
KV Nozzle • For KaVo® Multiflex®	**Z090051**
SR Nozzle • For Sirona® Quick coupling	**Z090052**
WH Nozzle • For W&H® Roto Quick®	**Z090054**
BA Nozzle • For Bien Air® UNIFIX®	**Z090053**
E-Type Spray Nozzle • For E-Type* attachments	**Z019090**
F-Type Spray Nozzle • For ENDO-MATE TC2 / DT2 & iSD900 heads	**Z256090**

*E-Type: Conformable to ISO 3964.

Spray Mist Absorber

A convenient way to contain mist spray from escaping into the environment. Simply insert the handpiece into the absorber pack then apply the spray lubricant.





MODEL	ORDER CODE
Spray Mist Absorber • Pack of 10	**Y900084**

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Multi Stands

NSK Multi Stand is the convenient way to organize and store NSK high and low speed handpieces and heads. Autoclavable at 135°C.





MODEL	ORDER CODE
Multi Stand Complete	**Z036**

• For NSK high speed and low speed attachments



MODEL	ORDER CODE
Multi Stand for Phatelus	**Z036002**

• 3 x adaptor A • 2 x adaptor C

Multi Stand Handpiece Adaptors

MODEL	ORDER CODE		
Adaptor A	**Z036201**		• For high speed handpieces and Phatelus air motors
Adaptor B	**Z036202**		• For E-Type* low speed handpieces and Phatelus air motor heads
Adaptor C	**Z036203**		• For Phatelus and Mach couplings
Adaptor KV	**Z036204**		• For KaVo® Multiflex®
Adaptor SR	**Z036205**		• For Sirona® Quick Coupling
Adaptor WH	**Z036207**		• For W&H® Roto Quick®
Adaptor BA	**Z036206**		• For Bien Air® UNIFIX®
Adaptor F	**Z036209**		• For ENDO-MATE TC2 / DT2 & iSD900 heads

* E-Type : Conformable to ISO 3964.

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Spare Parts and Accessories

iCare+

MODEL	PRODUCTS	ORDER CODE
Maintenance oil for iCare+ (1 litre)		**Z016117**
n.clean, 500 ml PEHD bottle (6 pcs)		**ACL600**

MODEL	PRODUCTS	ORDER CODE
n.cid, 500 ml PEHD bottle (6 pcs)		**ACD600**
E-type O-ring joint (Pack of 2)		**0312074080**

MODEL	PRODUCTS	ORDER CODE
Blister		**S103106**

iCare

MODEL	PRODUCTS	ORDER CODE
Maintenance oil for iCare (1 bottle, 1 litre)		**Z016130**
Chuck Cleaning Nozzle		**Z257301**

MODEL	PRODUCTS	ORDER CODE
Air Filter		**U508352**
HP Head Filter (Pack of 200)		**U1120118**

MODEL	PRODUCTS	ORDER CODE
Mist Filter Set (Pack of 12)		**Y900159**
Oil Absorber Sheet (Pack of 10)		**U433135**

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Specifications are subject to change without notice.

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Create it

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