

HYGIENE & MAINTENANCE

Create it 

HYGIENE & MAINTENANCE



NSK

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

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.

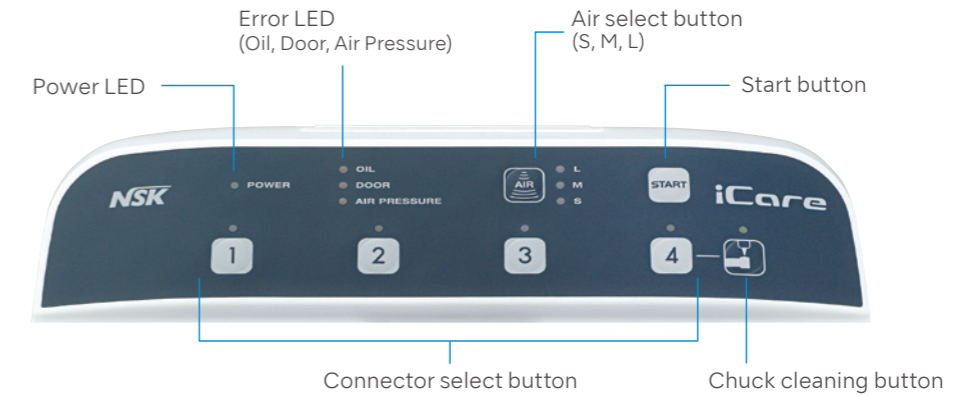
Advantages

- 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



Ergonomic and easily readable large panel

Simple one-touch operation to start lubrication.

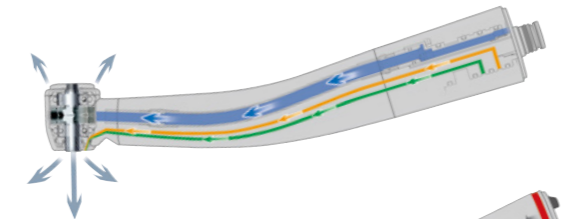


Preset proper solution volume based on handpiece type

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.

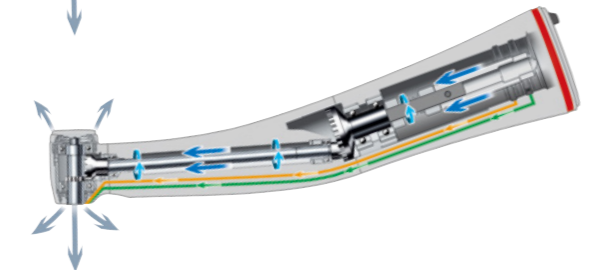
High speed handpieces

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.

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.



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
MH Adaptor	Z257048	• For Morita® High Speed Handpieces for Morita 4H Coupling
F-Type Adaptor	Z280042	• For ENDO-MATE TC2, AT 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
Mist Filter Set	Y900159
• Pack of 12	

MODEL	ORDER CODE
Oil Absorber Sheet	U433135
• Pack of 10	



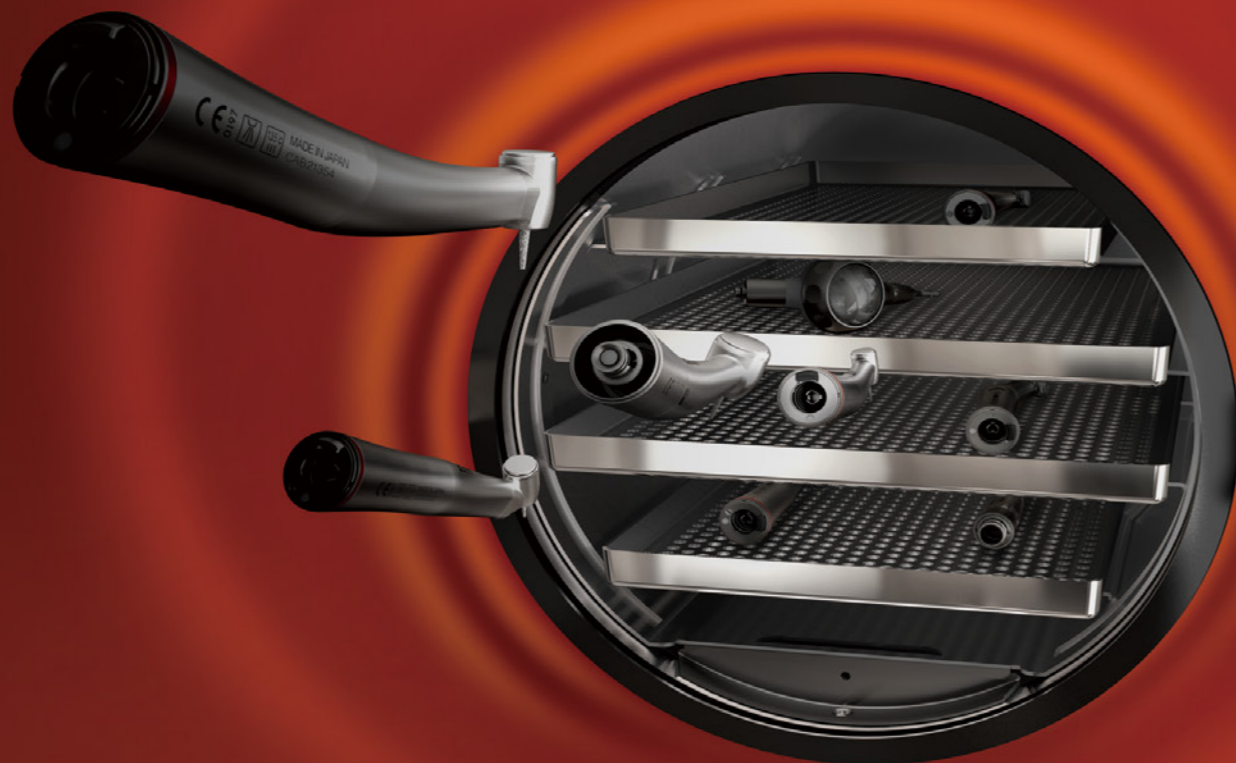
iClave plus EN 13060 : Class B

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



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

CLASS B



Super fast

CLASS S



Super fast

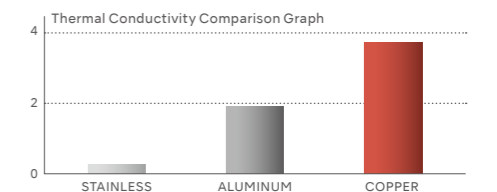
High efficiency copper chamber improves total cycle times for faster throughput, saving time and money.

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, discoloration and damage.

Thermal Conductivity Differences of Materials

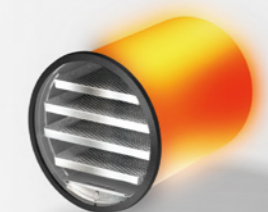


Copper's heat conductivity is 1.9 times and 17.7 times higher than that of aluminium and stainless steel, respectively.

Adaptive Heat System

Advanced heating system leveraging excellent thermal conductivity

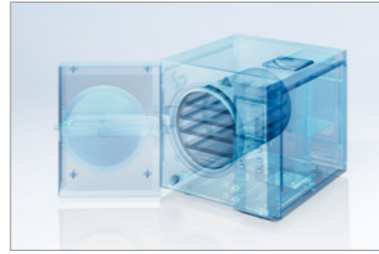
NSK's innovative heating system optimizes the high heat conductivity of copper. Enveloping the copper chamber is a special heater which is also used in satellites, incorporating electro-thermal material embedded in silicone to heat the entire chamber evenly without heat loss.



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
Green: Sterilization complete
Yellow: During operation
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.



iClave plus Complete Set

MODEL	ORDER CODE
iClave plus 230 V	Y1003077

Technical characteristics

- External dimensions : W 445 x D 584 x H 438 mm
- Chamber dimensions : ø240 x 384 mm
- Chamber capacity : 17.5 litre
- Net weight : 45 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
		TEMPERATURE	TIME	VACUUM	
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

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



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



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.

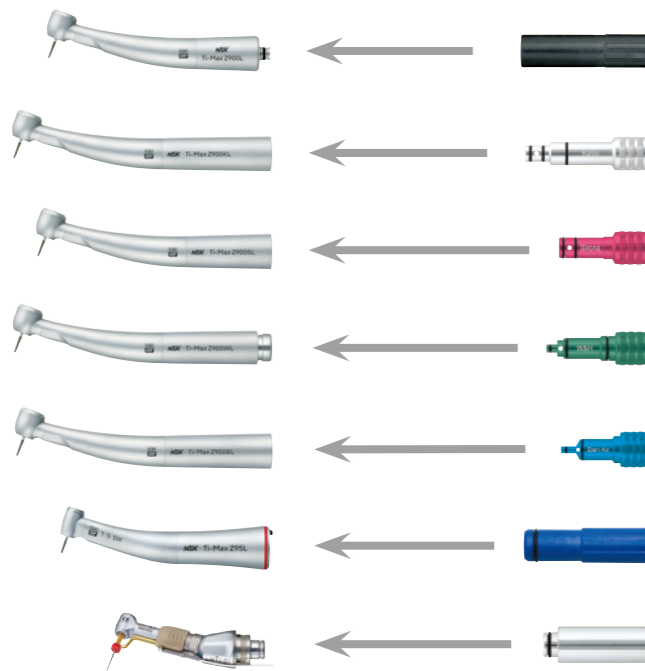
MODEL	ORDER CODE
PANA SPRAY Plus Package	Y900630

- For high & low speed handpieces, and air motors
- 500 mL
- Alcohol-based lubricant
- Pack of 6

MODEL	ORDER CODE
Tip Nozzle	Z020201



PANA SPRAY Plus Nozzles



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

* E-Type : Conformable to ISO 3964.

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 / AT & iSD900 heads

* 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	Y900084
• Pack of 10	



Spare Parts and Accessories

iCare

MODEL	PRODUCTS	ORDER CODE	MODEL	PRODUCTS	ORDER CODE	MODEL	PRODUCTS	ORDER CODE
	Maintenance oil for iCare (1 bottle, 1 litre)	Z016130		Air Filter	U508352		Mist Filter Set (Pack of 12)	Y900159
	Chuck Cleaning Nozzle	Z257301		HP Head Filter (Pack of 200)	U1120118		Oil Absorber Sheet (Pack of 10)	U433135

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