



MAINTENANCE

iCare+



Automatic System for Cleaning, Disinfecting and Lubricating Rotary Instruments

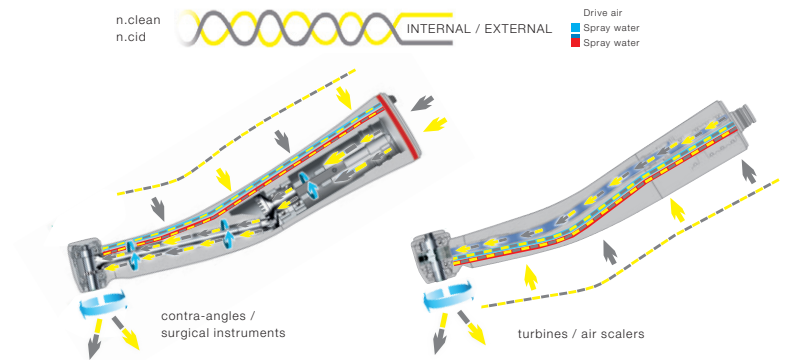
Manual cleaning of instruments does not remove all deposits and residues. Dynamic instruments that are poorly maintained or not adequately cleaned may become damaged and pass on infections to both patients and practitioners. Any instrument used in dentistry must be perfectly cleaned, disinfected and 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+.

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 accredited laboratory were done according to RKI recommendations (Robert Koch Institute) and EN ISO 15883.

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+'s Medicals device witch are a protocol, an analyse method and a result of certification.

Cleaning and Disinfection

Two products Inextricably Linked to iCare+

iCare+ works 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 strict protocols as well as 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 laboratory testing.

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 sterilization is carried out by n.cid, a bactericidal, fungicidal and virucidal* disinfectant solution effective against wrapped viruses, as well as unwrapped Adenoviruses.

*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 cycles. Once the data has been transferred 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.





Cleaning



Disinfection



Lubrication



iCare+ Complete Sets

2 High speed ports + 2 slow speed ports

MODEL	ORDER CODE
iCare+ C2	S102001

1 High speed port + 3 slow speed ports

MODEL	ORDER CODE
iCare+ C3	S103001

Contents

- iCare+ unit
- Power cord with L-shaped plug
- Air tube

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 disinfection product: 500 mL






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

iCare+ Adaptors

MODEL		ORDER CODE
iCare+ Adaptor PTL	• For NSK High Speed Handpieces for PTL-CL-LED Coupling	Z1127010
iCare+ Adaptor KV	• For KaVo® High Speed Handpieces for MULTIflex® LUX Coupling	Z1127011
iCare+ Adaptor SR	• For Sirona® High Speed Handpieces for Quick Coupling	Z1127013
iCare+ Adaptor WH	• For W&H® High Speed Handpieces for Roto Quick Coupling	Z1127012
iCare+ Adaptor BA	• For Bien-Air® High Speed Handpieces for Unifix® Coupling	Z1127014

Check with the dealer for the adaptors to mount other manufactures' handpieces.

Refill Maintenance Oil

MODEL	PRODUCTS	ORDER CODE	MODEL	PRODUCTS	ORDER CODE
n.Clean, 500 mL PEHD bottle (6 pcs)		ACL600	Maintenance Oil, 1 L PEHD bottle		Z016117
n.Cid, 500 mL PEHD bottle (6 pcs)		ACD600			

iCare



Automatically Clean

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.

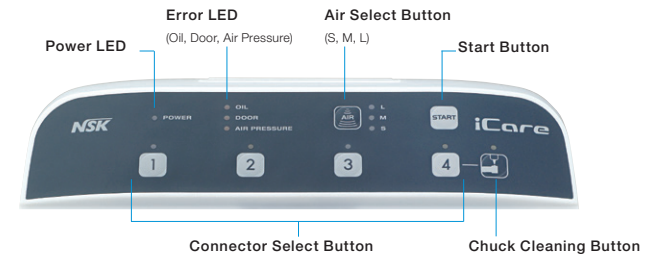
Preset Proper Solution Volume Based on Handpiece Type

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.



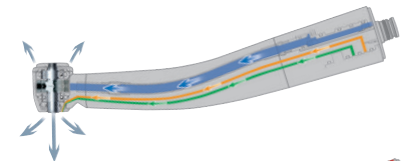
Ergonomic and Easily Readable Large Panel

Simple One-Touch Operation to Start Lubrication.



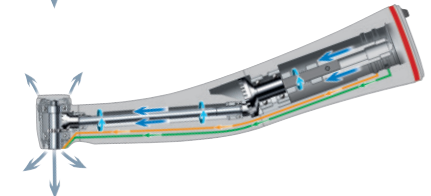
High Speed Handpieces

iCare meticulously cleans 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.



Purging Select Mode

After lubrication, you can select from appropriate modes offering different purge lengths.



Hp Head Filter Prevents Mist Leaks (Optional)

HP Head Filter is made to absorb any spray mist generated, which prevents mist leaks.



Solution Tank

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

Chuck Cleaning Function

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



Easy to Clean

iCare's front door can be completely removed to allow fast, easy cleaning of the system.



Accommodates Both NSK Handpieces and Those of Other Brands

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

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 quantity and an un locked front door.

Stylish and Compact

In the pursuing ultimate ease of use, NSK has given iCare the power to perform automatic maintenance for 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



2 High speed ports + 2 slow speed ports

MODEL	ORDER CODE
iCare C2 Type	Y1002787

1 High speed port + 3 slow speed ports

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 • Air piping is necessary (5.0-6.0 kgf/cm²)
- Do not use iCare to lubricate air scalers 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 with PANA SPRAY Plus.

iCare Adaptors

MODEL		ORDER CODE
PTL Adaptor	• For NSK High Speed Handpieces for PTL-CL-LED Coupling	Z257010
KV Adaptor	• For KaVo® High Speed Handpieces for MULTIflex® LUX Coupling	Z257020
SR Adaptor	• For Sirona® High Speed Handpieces for Quick Coupling	Z257023
WH Adaptor	• For W&H® High Speed Handpieces for Roto Quick Coupling	Z257021
BA Adaptor	• For Bien-Air® High Speed Handpieces for Unifix® Coupling	Z257022
F-Type Adaptor	• For ENDO-MATE TC2, DT Heads	Z280042
B2/M4 Adaptor	• For Borden 2 hole High Speed Handpieces	T904
QD Adaptor	• For NSK High Speed handpieces for QD couplings	Z257011

Check with the dealer for the adaptors to mount other manufactures' handpieces.

Refill Maintenance Oil

MODEL	PRODUCTS	ORDER CODE	MODEL	PRODUCTS	ORDER CODE
Maintenance Oil for iCare (1 Bottle, 1 litre)		Z016130	Mist Filter Set (door sponges)	 • Pack of 12	Y900159
Maintenance Oil for iCare (Pack of 6 Bottles)		Y1002783	Oil Absorber Sheet	 • Pack of 10	U433135

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		• For High speed handpieces and Phatelus air motors Z036201
Adaptor B		• For E-Type *Low speed handpieces and Phatelus air motor heads Z036202
Adaptor C		• For Phatelus and Mach couplings Z036203
Adaptor KV		• For KaVo® MULTIflex® LUX Z036204
Adaptor SR		• For Sirona® Quick Coupling Z036205
Adaptor WH		• For W&H® Roto Quick Z036207
Adaptor BA		• For Bien-Air® Unifix® Z036206
Adaptor F		• For Endo-Mate TC2 / DT & iSD900 heads Z036209

*E-Type: Conformable to ISO 3964.

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-contained lubricant

MODEL	ORDER CODE
Pana Spray Plus Package	Y900630

- For high & low speed handpieces, and air motors
- Alcohol-based lubricant • 500ml PANA SPRAY Plus pack of 6

MODEL	ORDER CODE
Tip Nozzle	Z020201

- For oiling handpiece chucks, air motors, and Midwest or Borden direct connection turbines.

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.

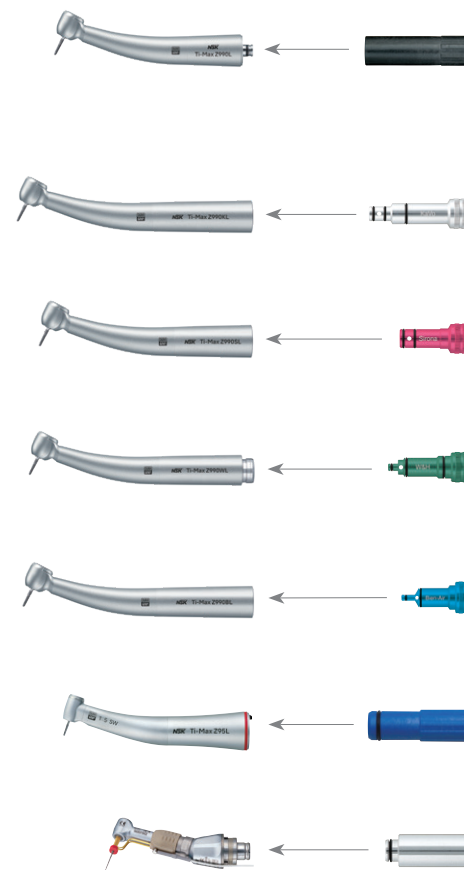


MODEL	ORDER CODE
Spray Mist Absorber	Y900084

- Pack of 10



PANA SPRAY Plus Nozzles

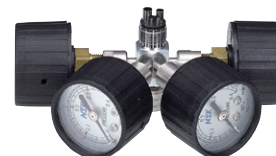


*E-Type: Conformable to ISO 3964.

Multi Gauge

Measures handpiece tubing pressure. This includes drive air and water pressures.

Where applicable it also measures exhaust air and coolant air. Midwest 4 hole and Borden 2/3 hole fittings are available.



MODEL	ORDER CODE
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Phatelus Spray Nozzle P183090

- For High speed attachments and air motors which attach to Phatelus and Mach Couplings

MODEL	ORDER CODE
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KV Nozzle Z090051

- For KaVo® MULTIflex® LUX

MODEL	ORDER CODE
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SR Nozzle Z090052

- For Sirona® Quick Coupling

MODEL	ORDER CODE
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WH Nozzle Z090054

- For W&H® Roto Quick

MODEL	ORDER CODE
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BA Nozzle Z090053

- For Bien-Air® Unifix®

MODEL	ORDER CODE
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E-Type Spray Nozzle Z019090

- For E-Type *attachments

MODEL	ORDER CODE
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F-Type Spray Nozzle Z256090

- For Endo-Mate TC2 / DT & iSD900 heads

MODEL	ORDER CODE
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MG-4H Z109400










- For Midwest 4 hole & LUX Coupling









MODEL	ORDER CODE
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MG-2/3H Z109200

- For Borden 2/3 hole

Handpieces Air Pressures

MODEL	Air Pressures MPa (kgf/cm ²)
Air Turbine	
 Ti-Max Z	PTL, KL: 0.25-0.42 MPa (2.5-4.2 kgf/cm ²) SL: 0.25-0.30 MPa (2.5-3.0 kgf/cm ²) BL: 0.25-0.32 MPa (2.5-3.2 kgf/cm ²) WL: 0.25-0.33 MPa (2.5-3.3 kgf/cm ²)
 S-Max M	PTL: 0.20-0.25 MPa (2.0-2.5 kgf/cm ²)
 S-Max pico	K, KL, SL, W, WL, WLED, BL, BLED: 0.25-0.30 MPa (2.5-3.0 kgf/cm ²)
 Ti-Max X450	0.25-0.30 MPa (2.5-3.0 kgf/cm ²)
 Pana-Max PLUS	0.18-0.22 MPa (1.8-2.2 kgf/cm ²)
 Pana-Max2	PTL, M4, B2: 0.20-0.25 MPa (2.0-2.5 kgf/cm ²) KV: 0.25-0.30 MPa (2.5-3.0 kgf/cm ²)
 PRESTO AQUA LUX	0.25-0.30 MPa (2.5-3.0 kgf/cm ²)
 PRESTO AQUA II	
 PRESTO II	0.20-0.25 MPa (2.0-2.5 kgf/cm ²)

MODEL	Air Pressures MPa (kgf/cm ²)
Air Motor	
 Ti-Max X205L	
 DynaLED M205LG	
 S-Max M205	0.20-0.25 MPa (2.0-2.5kgf/cm ²)
 FX205m	
Oral Hygiene	
 Ti-Max S970	0.30 MPa (3.0 kgf/cm ²)
 AS2000	0.28 MPa (2.8 kgf/cm ²)
 Prophy-Mate neo	0.27-0.40 MPa (2.7-4.0 kgf/cm ²)
 Perio-Mate	0.30-0.40 MPa (3.0-4.0 kgf/cm ²)