



MAINTENANCE

# iCare+

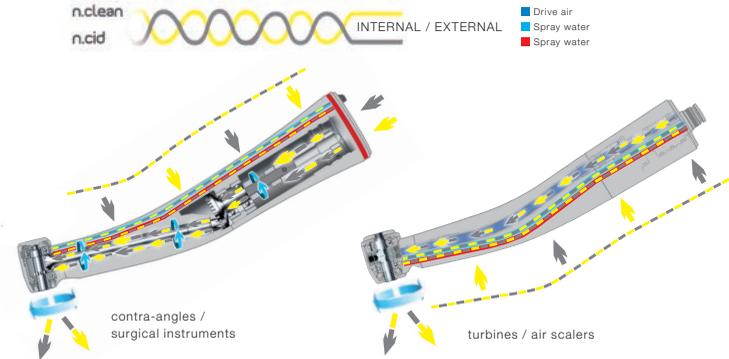


## Automatic System for Cleaning, Disinfecting and Lubricating Rotary Instruments

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 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+'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+ 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 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

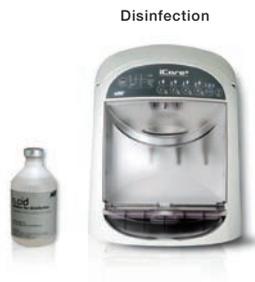
The user friendly software interface allows easy and efficient management of all cycle data with the option of adding specific records for individual instruments at the push of a button.



## Easy to Use

The clearly and intuitively arranged control panel together with the LED indicators and the internally lit treatment chamber makes it really easy to operate iCare+ the treatment chamber:

- Yellow for cleaning
- White for disinfection
- Blue for lubrication
- When the green LED lights up at the end of has been completed correctly and rest assured and maintained to the highest standards



## iCare+ Complete Sets

### Dual Standard Ports + Dual Rotation Ports

MODEL	ORDER CODE
<b>iCare+ C2</b>	<b>S102001</b>

### Single Standard Port + Triple Rotation Ports

MODEL	ORDER CODE
<b>iCare+ C3</b>	<b>S103001</b>

#### 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/cm<sup>2</sup>)
- 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/cm<sup>2</sup>)

## iCare+ Adaptors

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

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

## Pressure regulator

MODEL	ORDER CODE
<b>Pressure regulator for iCare+</b>	<b>S103500</b>

## Refill Maintenance Oil

MODEL	PRODUCTS	ORDER CODE
<b>n.Clean, 500 mL PEHD bottle (6 pcs)</b>		<b>ACL600</b>
<b>n.Cid, 500 mL PEHD bottle (6 pcs)</b>		<b>ACD600</b>

MODEL	PRODUCTS	ORDER CODE
<b>Maintenance Oil, 1 L PEHD bottle</b>		<b>Z016117</b>

# 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.

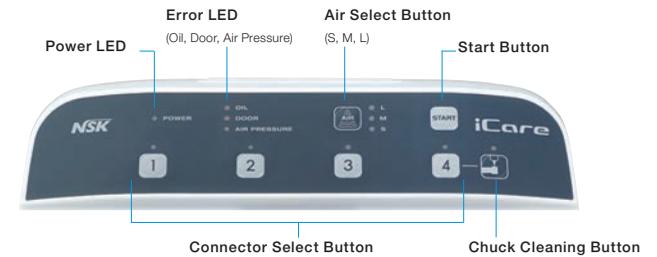
## Preset Proper Solution Volume Based on Handpiece Type

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.



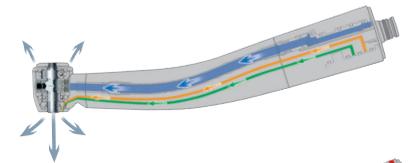
## Ergonomic and Easily Readable Large Panel

Simple One-Touch Operation to Start Lubrication.



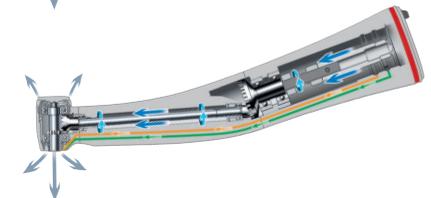
## High Speed Handpieces

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.



### Chuck Cleaning Function

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



### Hp Head Filter Prevents Mist Leaks (Optional)

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



### Easy to Clean

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



### 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.



### 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



#### 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/cm<sup>2</sup>) • 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/cm<sup>2</sup>)
- 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
<b>PTL Adaptor</b>	• For NSK High Speed Handpieces for PTL-CL-LED Coupling	<b>Z257010</b>
<b>B2/M4 Adaptor</b>	• For Borden 2 hole High Speed Handpieces	<b>T904</b>
<b>KV Adaptor</b>	• For KaVo® High Speed Handpieces for MULTIflex® LUX Coupling	<b>Z257020</b>
<b>SR Adaptor</b>	• For Sirona® High Speed Handpieces for Quick Coupling	<b>Z257023</b>
<b>WH Adaptor</b>	• For W&H® High Speed Handpieces for Roto Quick Coupling	<b>Z257021</b>
<b>BA Adaptor</b>	• For Bien-Air® High Speed Handpieces for Unifix® Coupling	<b>Z280022</b>
<b>F-Type Adaptor</b>	• For ENDO-MATE TC2, DT Heads	<b>Z280042</b>

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

**Refill Maintenance Oil**

MODEL	PRODUCTS	ORDER CODE
<b>Maintenance Oil for iCare (1 Bottle, 1 Liter)</b>		<b>Z016130</b>
<b>Maintenance Oil for iCare (Pack of 6 Bottles)</b>		<b>Y1002783</b>

MODEL	PRODUCTS	ORDER CODE
<b>Mist Filter Set</b>	 • Pack of 12	<b>Y900159</b>
<b>Oil Absorber Sheet</b>	 • Pack of 10	<b>U433135</b>

**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
<b>Multi Stand Complete</b>	<b>Z036</b>

• For NSK high speed and low speed attachments

MODEL	ORDER CODE
<b>Multi Stand for Phatelus</b>	<b>Z036002</b>

• 3 x Adaptor A • 2 x Adaptor C

**Multi Stand Handpiece Adaptors**



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

\*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
<b>Pana Spray Plus</b>	<b>Z182100</b>

- For High & Low speed handpieces, and air motors
- 500 mL • Alcohol-contained lubricant

MODEL	ORDER CODE
<b>Pana Spray Plus Package</b>	<b>Y900630</b>

- PANA SPRAY Plus pack of 6

MODEL	ORDER CODE
<b>Tip Nozzle</b>	<b>Z020201</b>

## Spray Mist Absorber

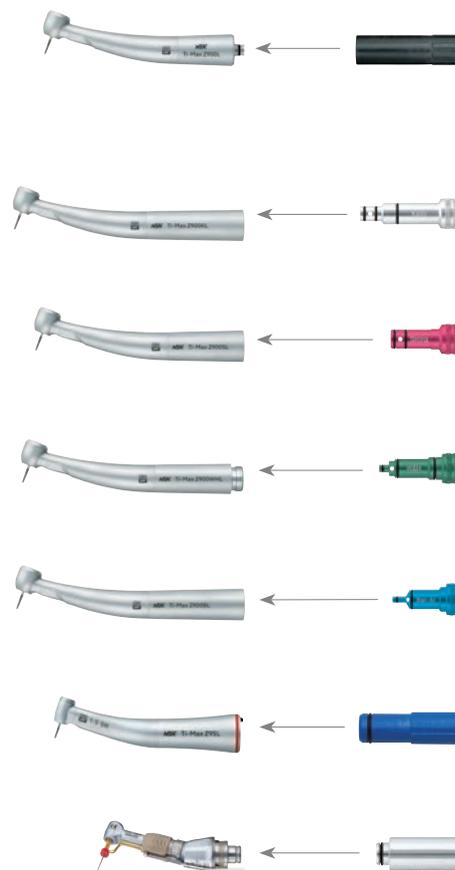
A convenient way to contain mist spray from escaping into the environment. Simply insert the handpiece into the Absorber Pack then apply the spray lubricant.



MODEL	ORDER CODE
<b>Spray Mist Absorber</b>	<b>Y900084</b>

- 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 <sup>2</sup> )
<b>Air Turbine</b>	
 Ti-Max Z	<b>0.25-0.30 MPa</b> (2.5-3.0 kgf/cm <sup>2</sup> )
 S-Max M	<b>PTL:</b> <b>0.20-0.25 MPa</b> (2.0-2.5 kgf/cm <sup>2</sup> )
 S-Max pico	<b>K, KL, SL, W, WL, WLED, BL, BLED:</b> <b>0.25-0.30 MPa</b> (2.5-3.0 kgf/cm <sup>2</sup> )
 Ti-Max X450	<b>0.25-0.30 MPa</b> (2.5-3.0 kgf/cm <sup>2</sup> )
 Pana-Max PLUS	<b>0.18-0.22 MPa</b> (1.8-2.2 kgf/cm <sup>2</sup> )
 Pana-Max2	<b>PTL, M4, B2:</b> <b>0.20-0.25 MPa</b> (2.0-2.5 kgf/cm <sup>2</sup> )
	<b>KV:</b> <b>0.25-0.30 MPa</b> (2.5-3.0 kgf/cm <sup>2</sup> )
 PRESTO AQUA LUX	<b>0.25-0.30 MPa</b> (2.5-3.0 kgf/cm <sup>2</sup> )
 PRESTO AQUA II	
 PRESTO II	<b>0.20-0.25 MPa</b> (2.0-2.5 kgf/cm <sup>2</sup> )
<b>Air Motor</b>	
 Ti-Max X205L	
 DynaLED M205LG	
 S-Max M205	<b>0.20-0.25 MPa</b> (2.0-2.5kgf/cm <sup>2</sup> )
 FX205m	

MODEL	Air Pressures MPa (kgf/cm <sup>2</sup> )
<b>Oral Hygiene</b>	
 Ti-Max S970	<b>0.30 MPa</b> (3.0 kgf/cm <sup>2</sup> )
 AS2000	<b>0.28 MPa</b> (2.8 kgf/cm <sup>2</sup> )
 Prophy-Mate neo	<b>0.27-0.40 MPa</b> (2.7-4.0 kgf/cm <sup>2</sup> )
 Perio-Mate	<b>0.30-0.40 MPa</b> (3.0-4.0 kgf/cm <sup>2</sup> )