

Manual cleaning and lubrication of handpieces

1. Preparation

- Remove rotary instrument from tubing
- Remove bur
- Do not submerge rotary instrument in any solution



2a. Automatic cleaning and disinfection using a thermo/washer disinfectant



- Always ensure that rotary instruments are placed on the correct adaptors
- Cleaning agent pH level must be between 2.5-10.5
- Rinse cycle must be activated

OR (if automatic method is not available, see 2b below)

2b. Manual cleaning and decontaminating using tap water, brushes and detergent



- Clean rotary instrument under cold running water using a soft to medium brush
- Disinfect externally using wipes e.g. Alpro's MinutWipes or PlastiSept wipes. DO NOT USE SPRAYS
- When using external disinfectant, rinse off residues afterwards under cold running water
- Disinfect internally using ALPRO WL-Clean/WL-Cid followed by WL-Dry or WL-Blow
- You MUST finish by using WL-DRY or WL-Blow at all times if using internal disinfectant

3. Inspect

- Inspect rotary instruments for debris and repeat above process if necessary

4. Drying

- The drying procedure is normally part of the cleaning programme of the thermo/washer disinfectant. Alternatively, dry manually using a tissue.

5. Manual lubrication using NSK PANA SPRAY Plus

- Select correct nozzle for rotary instrument (see list adjacent)
- Shake spray can
- Keep spray can in upright position
- Insert nozzle into rotary instrument
- Always lubricate straight handpieces with closed chuck and blanking piece inserted
- Spray rotary instrument for 2-3 seconds holding a clean tissue over the head end
- Check tissue for debris and if oil is not running clean repeat process until rotary instrument is clean and free of debris
- Lubricate chuck mechanism using PANA SPRAY Plus with tip nozzle weekly
- Always complete steps 2, 3, 4, 5 in quick succession



6. Packaging

- Pouch in accordance with current applicable standards/legislation if using a B or S type autoclave. If using an N type autoclave, pouch AFTER sterilisation.

7. Sterilisation



Sterilise in a steam steriliser (autoclave) at a temperature not exceeding 138°C in accordance with current applicable standards. Always remove from autoclave as soon as cycle is complete.



8. Storage

- If not pouched, see HTM 01-05
- Store rotary instruments protected from dust, dirt and micro-organisms, ideally in an upright position (head up)
- Always comply with expiry dates of sterilised items in accordance with current standards/legislation
- Rotary instruments MUST be stored dry



PANA SPRAY Plus Nozzles

Always choose the right one for your handpiece



KV Nozzle - Z090051
For KaVo® MULTiflex Coupling



SR Nozzle - Z090052
For Dentsply Sirona® Quick Coupling



BA Nozzle - Z090053
For Bien-Air® Unifix® Coupling



WH Nozzle - Z090054
For W&H® Roto Quick® Coupling



QD Nozzle - Z096090
For QD Couplings



Standard E-Type Nozzle - Z019090
For E-Type attachments



NSK Surgical Head Nozzle - Z114090
For E-Type attachments and surgical heads: SGM-I, SGMS-I and SGQ-H



F-Type nozzle - Z256090
For ENDO-MATE, iPROPHY and iSD900 heads



Tip Nozzle - Z020201
Tip nozzle for direct connection turbines (Midwest 4 and Borden 2/3 hole), air motors, and handpiece chuck mechanisms



NSK Nozzle - P183090
For high speed instruments which attach to NSK PTL Coupling



Automatic cleaning and lubrication using NSK iCare / iCare+

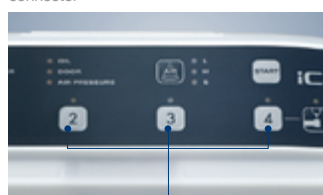
NSK iCare Handpiece lubricator



Maintenance oil tank



Instrument connector



Port selection buttons



Start button

- Check oil level indicator. Add more oil if required.
- Open the door and connect 1, 2, 3 or 4 handpieces to the correct handpiece adaptor (ensure you are using the correct adaptor, illustrated in figure 3 below). Close the door.
- Press the Port Select button, to select the port to which the handpiece is attached. The relevant LED light will illuminate.
- Press the Air Select button to select an air purge mode from S, M and L, until the required mode light is illuminated. (See figure 1 below)
- Press the 'Start' button. The door should not be opened until the cycle is finished.

figure 1

Play video

Mode	Port	Lubrication and Cleaning Time per Handpiece
S mode (Short)	Air Turbine Port	28 sec.
	E-type Contra-angle Port	50 sec.
M mode (Medium)	Air Turbine Port	30 sec.
	E-type Contra-angle Port	64 sec.
L mode (Long)	Air Turbine Port	33 sec.
	E-type Contra-angle Port	84 sec.

figure 3

Always select the correct adaptor before iCare lubrication



E-Type handpiece adaptor
For all brands ISO E-Type and E-Type LUX slow speed Contra-angle attachments - Z280035



NSK coupling adaptor
For high speed turbines that connect to NSK PTL Couplings - Z257010



Borden 2 hole adaptor
For Borden 2 hole high speed turbines - T904001



Kavo coupling adaptor
For high speed turbines that connect to KaVo® Multiflex Lux Couplings® - Z257020

NSK iCare+ Handpiece cleaner, disinfectant and lubricator



Maintenance oil tank



Instrument connector



Port selection buttons



Start button

- Check the indicator lights for n.clean, n.cid and oil. Refill as applicable.
- Open the door and connect 1, 2, 3 or 4 handpieces to the correct handpiece adaptor (ensure you are using the correct adaptor, illustrated in figure 3 below). Close the door.
- Select the appropriate cycle using the cycle selection button (see figure 2 below for cycle options).
- Press the port selection button to select the port to which the handpiece is attached. If the handpiece has an external or no spray facility, press the ext w-o button and port selection button simultaneously until the indicator light comes on.
- Press the 'Start' button. The door should not be opened until the cycle has finished.



figure 2

Play video

Cycle	Treatment	Treatment Time
Full	Cleaning	6 min. (for 4 instruments)
	Disinfection	6 min. (for 4 instruments)
	Lubrication	1.5 min. (for 4 instruments)
Partial	Cleaning	6 min. (for 4 instruments)
	Lubrication	1.5 min. (for 4 instruments)
Short	Lubrication	1.5 min. (for 4 instruments)

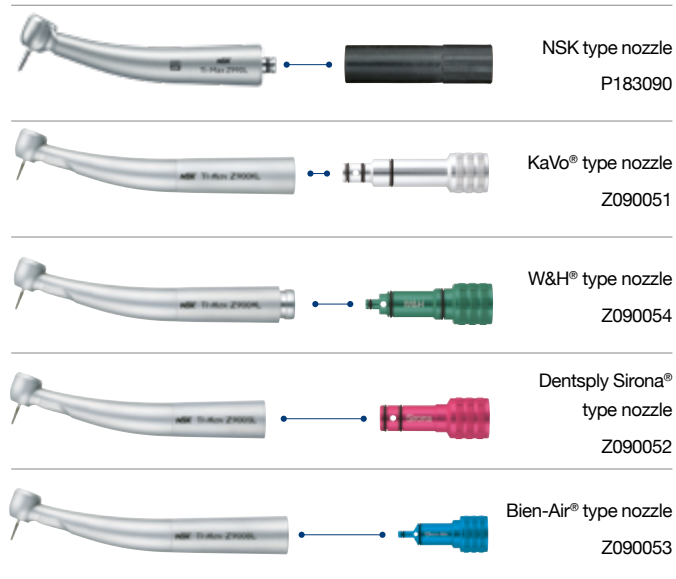
Note: the above codes are for iCare adaptors. The adaptors for iCare+ have different codes.



Always select the correct spray nozzle manual lubrication

It is preferable to purge any excess solution by briefly operating the handpiece. When purging cover the handpiece head with a tissue. Firmly attach the nozzle onto the valve at the top of the Pana Spray Plus can. Keep the spray can in an upright position

High Speed Optic & Non Optic turbines that connect to:



Contra-angles, Straights, Direct Connection Turbines, Air Motors & handpiece chucks:

