

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 detergent wipes e.g. Apro's Minuten or Plastisept wipes. DO NOT USE SPRAYS
- When using external disinfectant, rinse off residues afterwards under 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 1-2 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
- Drain



6. Packaging

- Pack in accordance with current applicable standards/legislation if using a B or S type autoclave. If using an N type autoclave, pack 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 packaged, see page 12 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 applicable standards/legislation
- Rotary instruments MUST be stored dry



PANA SPRAY plus Nozzles

Always choose the right one for your handpiece



Automatic cleaning and lubrication using NSK iCare / iCare+ is simple

NSK iCare

Handpiece lubricator and cleaner



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. When the cycle is finished, before removing the handpieces, flush with air by pressing the 'air' button as required.

figure 1

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

figure 3

Always select the correct adaptor before cleaning and lubrication



E-Type Handpiece
For all brands ISO E-Type and E-Type LUX low speed handpiece attachments - Z280035 E-Type



NSK coupling
For high speed handpieces that connect to NSK Couplings - Z257010 NSK



Borden 2 hole
For Borden 2 hole high speed handpieces - T904001 Borden®



Kavo coupling
For high speed handpieces that connect to Kavo® Multiflex Lux Couplings® - Z257020 Kavo®



Sirona coupling
For all high speed handpieces that connect to a Sirona® Quick Coupling - Z090052



W&H coupling
For all high speed handpieces that connect to a W&H® Rota Quick Coupling- Z090054



Bien-Air coupling
For all high speed handpieces that connect to a Bien-Air® Unifix® Coupling- Z090053



Endo-Mate Head Nozzle
For ENDO-MATE DT, TC, TC2 heads - Z256090 F-type

NSK iCare+

Handpiece cleaner, disinfector 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 is Ext or w-o spray, press Ext w-o button and joint selection button simultaneously until the indicator light comes on.
- Press the 'Start' button. The door should not be opened until the cycle is finished.

figure 2

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)