

Fibertech Medical Australia P/L Power Tools Care and Maintenance

Fibertech is a repairer of Medical Power Tools in Australia. These tools are precision instruments that require special handling by trained personnel. Strict adherence to maintenance procedures recommended by the manufacturer can prevent premature failure. In addition to the manufacturer recommendation, we included here a few supplements to their recommendation.

NOTE: This is only a supplement to the manufacturer's recommended maintenance guidelines.

Preoperative:

- Inspect handpiece and attachments for damage, corrosion, and fluid
- Inspect air hose or cable for leaks and damage
- Inspect all safety mechanism
- Do not use if instrument runs while safety mode is on
- Test run the instrument with attachment for 30 second
- Do not use if excessive noise and heat is detected
- Do not use if instrument damage is apparent

Intra-operative:

- Place instrument on a dry open tray, avoid crowding with other instrument
- Do not use excessive force while cutting or drilling
- Excessive force will damage gears and motor
- Minimize exposure to fluid
- Fluid such as saline will accelerate the oxidation process
- Make sure safe mode is ON while not in use
- Avoid using reprocessed blades and burs
- Damaged blade and bur, usually undetectable, causes damage to gears and motor
- Monitor temperature at collet (Luke warm is OK)

Postoperative:

- Immediately Following Procedure
 - The handpiece should be in a horizontal position during transport to prevent fluids from entering
 - Avoid crowding with other instruments
 - To avoid contamination, place a towel moistened with enzymatic cleaner over the instrument
 - Wipe down the handpiece and air hose with enzymatic detergent
 - Remove all attachments and bur, but not the hose or cable
 - The hose and cable, while attached, acts as a seal preventing fluid from entering the handpiece

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- Rinsing
 - Rinse the handpiece with warm running water while pointing the collet downward to prevent fluid from entering
 - Distilled water is recommended, rinse briefly
 - For electrical handpiece: wipe thoroughly with enzymatic detergent until all contaminants are removed
 - Rinse should remove all blood, fluids, and tissue
 - NEVER IMMERSER THE HANDPIECE IN ANY TYPE OF FLUID
 - If accidentally immersed in fluid, then take the following steps:
 - immerse in distilled water to remove contamination
 - shake off excessive water
 - sterilize as recommended by the manufacture twice to remove fluid
 - *An immersed instrument most likely will fail, however, the above steps sometimes can restore the instrument to working order
- Disinfecting
 - Use a mild enzymatic cleaner (neutral pH) with warm water and a sponge or towel to remove the remaining contaminants
 - Do not use any acidic cleaner such as bleach, 409, amonia, etc...
 - Acidic cleaners cause corrosion and severe pitting
 - Rinse the handpiece under warm running water (collet facing downward with the hose still attached)
 - Rinse briefly
 - NEVER EXPOSE THE HANDPIECE TO BLEACH OR OTHER CORROSIVE CHEMICALS
 - EXPOSURE WILL CAUSE SEVERE PITTING AND WILL VOID ALL WARRANTIES
 - Always use proper sterile techniques in handling instruments
- Sterilization
 - Prior to autoclaving, check functionality of the handpiece.
 - Check for air leaks from hose and handpiece
 - Make sure the bur locks in properly, if you can pull the bur out with your hand while it is in the lock position then the handpiece needs service
 - Run the handpiece for 30 seconds. If an inconsistent sound frequency and heat are detected, then the handpiece needs service
 - Lubricate instrument according to manufacturer's guideline
 - Do not lube instrument that does not require lubrication, otherwise damage to the motor and bearing will occur
 - Autoclave the instrument according to the manufacturers' guideline
 - Make sure the dry cycle has been completed to ensure the complete removal of internal moisture. Any moisture left internally will lead to corrosion and pitting
 - Allow the instrument to cool down at room temperature. Forced cooling may trap moisture inside the handpiece

**For all your power tool repairs please contact
Fibertech Medical Australia on 1800 241 881**