# **High-Speed Air Turbine Handpiece OPERATION** MANUAL

Please read this User Manual carefully before use, which will make your product last longer.

Consists of handpiece head, handle, caudal thread, cartridge.

High-speed turbine handpieces intended for removing carious material, excess filling material, cavity and crown preparation, finishing tooth preparations and restorations, root canal preparations and polishing teeth.

1) Air pressure:0.2-0.3MPa 2)Bur diameter: φ 1.59-1.60mm (Applicable burs should be in compliance with Type 3 of ISO 1797-1) 4)Clamping force:>22N 5)Water supply:>50ml/min

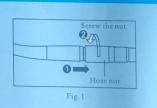
WARNING:Do not exceed air pressure required in the technical parameters.

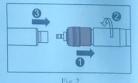
4-1 M4/B2 series 4-1-1 Connection

- 4-1-1 Connection
  Insert the handpiece coupling correctly onto the hose connector and screw the hose nut. (Fig. 1)
  i) Ensure the handpiece is connected firmly to the hose by pulling and pushing it gently.
  4-2-2 Disconnection
  Unsertew the hose nut and remove the handpiece from the hose.

# 4-2 QD Series

- 4-2-1 Connection
  i) Insert the quick coupler onto the hose and screw the hose nut. (Fig.2)
  ii) Pull the interface ring of quick coupling and insert the handpiece into it,
- then release the interfacering. iii) Ensure the handpiece is connected firmly by pulling and pushing it gently.
- Pull the interface ring of quick coupling and remove the handpiece.





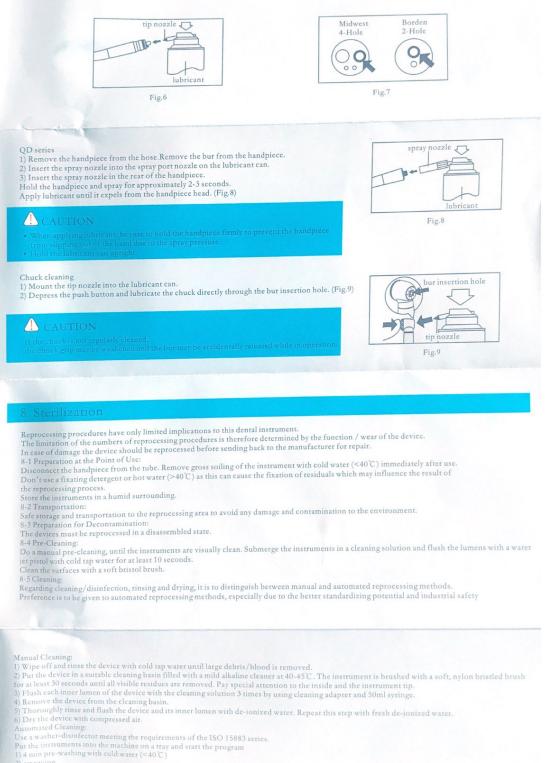
A 5-1 To insert the bur
i) Depress the push button and insert the bur into bortom of the cartridge, then release the button. (Fig. 3)
ii) Ensure that the bur is inserted securely by gently pulling and pushing



Lubricate the handpieceas below after each use and before autoclaving.

### M4/B2 series

M4/ be series
1) Remove the handpiece from the hose.Remove the bur from the handpiece.
2) Mount the tip nozzle into the lubricant can. (Fig.6)
3) Insert the tip nozzle into the drive air port of the handpiece. Hold the handpiece and spray for approximately 2-3 seconds. Apply lubricant until it expels from the handpiece head. (Fig.7)



5) 3 min neutralising with warm water (>40°C);

5 min intermediate rinsing with warm water (>40°C)

9) Emptying The manual and automated cleaning processes have been validated by using 0.5% neodisher MediClean forre (Dr. Weigert).

A disinfection cycle of 5 min disinfection at 93'C After manual cleaning, the instrument should be 8-7 Drying Automated Drying: Deense of outside of instrument through drying	infector under consideration of national requirem has been validated for the device to achieve an A sterilized immediately. A manual disinfection is r cycle of washer/disinfector.	0 value of 3000.
If needed, additional manual drying can be perfored insuffare cavities of instruments by using steril 8-8 Functional Testing, Maintenance: Visual inspection for cleanliness of the instrument	rmed through lint free towel. e compressed air.	ng to instructions of use. If necessary
Before packaging and autoclaving, make sure th	nent is visibly clean. at the handpiece has been lubricated. g material for sterilization. The packaging materia	
Sterilization of instruments by applying a fraction consideration of the respective country requirer Minimum requirements: 3 min as 134/2		cording to EN 285/EN 13060/EN ISO 17665) u
Maximum sterilization temperature: 137'C Flash sterilization is not allowed on lumen instr	iments!	
8-11 Storage: Storage of sterilized instruments in a dry, clean	and dust free environment at modest temperatures	, refer to label and instructions for use.
9.Replacing the cartridge		
1) Locate the correct wrench toolon to the reat then turn the wrench counter clockwise to loo 2) Use the but to granty layer the series of the	sen the cap. Remove the cap.	wrench
<ol> <li>Clean the head interior with spray lubricant</li> <li>Wipe the spray lubricant from the interior or</li> <li>Insert the new cartridge into the head by ali with the slot on the head. (Fig. 10)</li> </ol>		
		Pin cap Fig. 10
10.Replacing the O-rings		
Replace the O-rings if water is present in the e Always change the complete set of O-rings.	shaust air line. This is an indication of possible wat	er leakage within the coupling.
1) Remove O-rings by hand. (Fig. 11) 2) Insert the complete set of new O-rings in th	e correct grooves.	
HAN		
	Fig. 11	
<b>A</b> CAUTION	1.5.11	
Do not force the new replacement O-ring w When inserting new O-rings, make sure the	ith excessive pressure are inserted in the correct grooves.	
11. Environmental Condition	ns	
	luding but not limited with harmful chemicals like lity: 10~80%RH, Atmospheric Pressure: 50~106 F	acids and alkali. CPa
Storage Conditions: Temperature: -25~70°C	fumidity: 10~90%RH,	
	4umidity: 10~90%RH,	
Storage Conditions: Temperature: -25~70°C, J Storage Conditions: Temperature: -25~70°C, J Atmospheric Pressure: 50~106 KPa	fumidity: 10-90%RH, Cause	Solution
Storage Conditions: Temperature: 25-70°C, 1 Atmospheric Pressure: 50~106 KPa		Solution Clean and lubricate the head; replace the cartridge

Handpiece leaks water	O-rings damage	Replace the damaged component
Reduction in speed	Air pressure too low	Check and correct working air pressur
Handpiece will not engage bur or hold bur in chuck	Non-standard burs or damaged chuck	Replace burs or chuck
Abnormal bur rotation or failure to cut	O-rings or cartridge damage	Replace damaged components

Please read these precautions carefully before use. The device is only to be used for its specified intended use. Safety instructions are intended to avoid potential hazards that could result in personal injury or damage to the device and are classified as below in accordance with the level of potential risk.

Class	Degree of Risk
A WARNING	Hazards that may result in serious injury/device damage if instructions are not correctly followed
<b>A</b> CAUTION	Hazards that may result in mild or moderateinjury/devicedamageif instructions are not correctly followed

### **CAUTION**

- All precautions should be read and understood before use.
  Handpiece operation should be in compliance with all precautions and instructions.
  This handpiece can only be used for dental treatment.
  This handpiece can only be used by professional dentists.
  Check the handpiece before each use. If any abnormalities are found such as loose parts, vibration, noise and overheat, stop using the device immediately and contact your authorized dealer.
  Damaged cartridge will generate much noise, and long-term use will affect the hearing. Please replace it as soon as possible. Burs used should be in compliance with the requirements of ISO 1797-1.
  Air/water pressure and flow should follow this instruction. Excess pressure will result in high speed rotation and damage shaft. Insert and remove burs until handpiece tops.
  Handpiece is supplied in a non-sterile state and must be autoclaved before use.
  The maximum time for using the device is 2 hours per day(24h).

## **WARNING**

- Under normal operating conditions, air is exhausted from the back of the head of this handpiece. If air is directed into an open soft tissue wound or beneath the mucosa or dermis, injury to the patient could result from air emphysema or air embolism.
  Do not activate the press button of the handpiece during operation or slowing down. This leads to detachment of the rotary instrument and overheating of the press button.
  Do not replace any component without permission that could result in unforeseeable hazard. Please contact us for service if the handpiece or any other components are needed. We will provide circuit diagrams, component part lists, descriptions, calibration instructions to assist to service personnel in parts repair.
  Supply coolant water and coolant air while using the handpiece. No supplying the coolant water and air may lead to overheating, causing burn injuries or function failure.

No.	Symbols	Description
1	Ti	Consult instructions for use
2	M	DATE OF MANUFACTURE. This symbol shall be accompanied by a date to indicate the date of manufacture.
3	m	Symbol for "MANUFACTURER". This symbol shall be accompanied by the name and the address of the manufacturer.
4	CE	CE Mark.
	EC REP	Symbol for "AUTHORISED REPRESENTATIVE IN THE EUROPEAN COMMUNITY". This symbol shall be accompanied by the name and the address of the authorized representative in the European Community, adjacent to the symbol.

No.	Symbols	Description
6	134°C 555	Sterilizable up to 134°C
7		Warning
8	R	For prescription use only
9	artive a	Non-sterile
10	「下」	This device can be washed via thermos disinfector
11		For water adjustment. The water flow is the largest on the coincided position and no water flow in the 180 degrees position, both side is the same. After adjusting 180 degrees, there is no water.

	Symbols	
106 KPa	100 × 100	
	N. S.	
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5 years (can withstand 250 reprocessing cycles)

In order to avoid the health risks to operators handling the disposal of medical equipment, and the risks of environmental contamination caused by the waste, a surgeon or a dentist is required to confirm the equipment is sterile. Entrust firms which are licensed to disposal of specially controlled industrial wastes to dispose the product for you. If you do not understand, please contact dealers or us.

This device complies with Medical EMC Standard IEC 60601-1-2:2014.

Guidance and manufacturer's declaration - electromagnetic emissions

The High Speed Air Turbine Handpieces is intended for use in the electromagnetic environment specified below. The customer or the user of the High Speed Air Turbine Handpieces should assure that it is used in such an environment.

Emissions	Compliance	Electromagnetic environment guidance
RF emissions CISPR 11	Group 1	The High Speed Air Turbine Handpieces uses RF energy only for its internal function. Therefore, its RF emissions are very low and are not likely to cause any interference in nearby electronic equipment.
RF emissions CISPR 11	Class B	
Harmonic emissions IEC 61000-3-2	Class A	The High Speed Air Turbine Handpieces is suitable for use in all establishments, including domestic establishments and those directly connected to the public low-voltage power supply
Voltage fluctuations/ licker emissions EC 61000-3-3	Not Applicable	network that supplies buildings used for domestic purposes.

e	Guidance and manufactu	rer's declaration - ele	ctromagnetic immunity
an a Courd A	a Tuble II I I I I I I I I I I I I I I I I I	al former in the electromeen	etic environment specified below.
The High Speed A The customer or t	he user of the High Speed Air T	urbine Handpieces should ass	ure that it is used in such an environment.
Immunity test	IEC 60601 test level	Compliance level	
Electrostatic discharge (ESD)IEC 61000-4-2	±8 kV contact ±15 kV air	± 8 kV contact ± 15 kV air	Floors should be wood, concrete or ceramic tile. If floors are covered with synthetic material, the relative humidity should be at least 30 %.
Electrical fast transient/ burst IEC 61000-4-4	±2 kV for power supply line ±1 kV for	Not Applicable	Mains power quality should be that of a typical commercial or hospital environment or typical home environment
Surge IEC 61000-4-5	input/output lines ± 1 kV line(s) and neutral	Not Applicable	Mains power quality should be that of a typical commercial or hospital environment or typical home environment
Voltage dips,short	<5 % UT (>95 % dip in UT)	Not Applicable	Mains power quality should be that of a typical commercial or
			Hospital environment or typical home environment.
interruptions	for 0,5 cycle		If the user of the High Speed Air Turbine Handpicce
and	40 % UT		requires continued operation during power mains interruptions, it is recommended that the
voltage	(60 % dip in UT)		Itigh Speed Air Turbine Handpieces be Dowered
variations	for 5 cycles		from an uninterruptible power supply or a battery.
on power supply	70 % UT		
input lines	(30 % dip in UT)		
IEC 61000-4-11	for 25 cycles		
	<5% UT		
	(>95 % dip in UT)		
	for 5s		
	for 5s		
Power	for 5s 3 A/m	3 A/m	Power frequency magnetic
Power frequency		3 A/m	fields should be at levels
frequency		3 A/m	fields should be at levels characteristic of a typical
frequency (50/60 Hz)		3 A/m	fields should be at levels
frequency (50/60 Hz) magnetic field		3 A/m	fields should be at levels characteristic of a typical
frequency (50/60 Hz)		3 A/m	fields should be at levels characteristic of a typical location in a typical commercial
frequency (50/60 Hz) magnetic field	3 A/m	3 A/m mains voltage prior to app	fields should be at levels characteristic of a typical location in a typical commercial or hospital environment or typical home environment.
frequency (50/60 Hz) magnetic field	3 A/m NOTE UT is the a.c.	mains voltage prior to app	fields should be at levels characteristic of a typical location in a typical commercial or hospital environment or typical home environment. lication of the test level
frequency (50/60 Hz) magnetic field IEC 61000-4-8	A A/m NOTE UT is the a.c.	mains voltage prior to app cturer's declaration — e	fields should be at levels characteristic of a typical location in a typical commercial or hospital environment or typical home environment. lication of the test level
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		according to the and d is the reco	nsmitter in watts (W) transmitter manufacturer mmended separation
		as determined by survey, should l level in each free	rom fixed RF transmitters, y an electromagnetic site be less than the compliance
		Equipment marl symbol:	ed with the following
		(((•)))	
NOTE 2 These guidelines may r objects and people.		netic propagation is affected by absorp lio (cellular/cordless) telephones and	
Speed Air Turbine Handpieces i observed to verify normal opera- telocating the High Speed Air T	is used exceeds the applicable RF com ation. If abnormal performance is obs	Ito (cellular/cordless) telephones and coretically with accuracy. To assess th sidered. If the measured field strength pliance level above, the High Speed Ai erved, additional measures may be nec d be less than 10 V/m.	in the location in which the High
portabl	Recommended separ e and mobile RF communical	ation distances between ions equipment and the MOE	DEL ST261
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a. MEDICAL ELECTRICAL EQUIPMENT needs special precautions regarding EMC and needs to be installed and put into service according to the EMC information provided in the ACCOMPANYING DOCUMENTS. b. Portable and mobile RF communications equipment can affect MEDICAL ELECTRICAL EQUIPMENT.