

Airmotor Handpiece MM-50M, MM-50B

! This product is designed for dental use only. Its operation and maintenance should be conducted under dentist's supervision.

SPECIFICATION:

• Maximum Rotation Speed (Gear Ratio)	: 5,000rpm (4 to 1)	• Connection with Hose	: MM-50M ISO standard B-type (4H)
• Applicable Bur	: HP type ISO standard (2.35φ)		MM-50B ISO standard A-type (2H)
• Chuck Ability	Force to withdraw : more than 45N	• Sterilization	: 135°C autoclave for 20 min.
	Rotating Direction : more than 4N·cm		

HOW TO USE:**1. Coupling with Hose**

Check that the connection type of Airmotor Handpiece matches that of hose. Screw tight a hose coupler at the back end of Airmotor Handpiece. Make trial run at low speed to check proper connection with neither air- nor water leak.

2. Bur Change

At the bur-locking position, where the dot on the chuck locking ring meets the dot on Airmotor Handpiece body, turn the chuck locking ring to the direction indicated by allow with the Airmotor Handpiece held fixed, all the way till it couldn't go any further. Pull off the test bur, and insert a clean bur. Turn back the chuck locking ring, with the Airmotor Handpiece held fixed, all the way till it couldn't go any further, where the two points meet each other.

3. Operation

Maximum Air-Pressure : 0.2MPa

MAINTENANCE

! To keep Airmotor Handpiece under good condition, the lubricate oil specifically made for dental Handpiece should be used. Use the spray as instructed by its manufacturer. Lubrication should be conducted every day.

1. Lubrication

Be sure to lubricate before autoclave, in the case that water and/ or dust gets inside. Spray lubrication could also make inside cleaning. It should be conducted twice each time. Spray lubricate oil in the drive-air at the back end of Airmotor Handpiece. (It has the same effect with spray lubrication that air, with the hose attached, is blown into after 2 drop of lubricate oil is put at the back end of Airmotor Handpiece.)

! Without being held firm by hand, Airmotor Handpiece could be pushed away by air-pressure of spray. Accidental drop could cause damage on the Airmotor handpiece.

2. Surface Cleaning

Clean with brush and wipe off by cloth. Lubrication should be conducted every time after surface cleaning. Although it is effective to apply a little alcohol on the cloth, excessive amount, by seeping inside Airmotor Handpiece, could take off lubricate oil on ball-bearing. If it happens, lubricate again.

3. Inside Cleaning

Take the same steps with the process of spraying lubricate oil. Operate trial run at low speed every after lubrication. In order to drive dirt out of exhaust air tube, repeat the process at least twice. Conduct the cleaning once a day.

STERILIZATION

! Do not put Airmotor Handpiece through ultrasonic disinfection solution cleaning procedure. Use neither cold nor dry heat sterilization.

1. Clean with brush and wipe off by cloth. Refer to the section, Maintenance, 2. Surface Cleaning.
2. Lubricate with Spray. Refer to the section, Maintenance, 1. Lubrication.
3. Autoclave at temperature 132-135°C(2Mpa) for 20min.
4. Take the Airmotor Handpiece out of Autoclave and dry it in room temperature. ! Do not operate Autoclave dry cycle at temperature higher than 135°C
5. After the Airmotor Handpiece is completely dried, lubricate it twice. Refer to the section, Maintenance, 1. Lubrication.
6. Repeat chuck-open, -close a few times.

WARNING

1. Do not drop Airmotor Handpiece nor apply excessive force or impact on the bur connected. Warranty is invalid for the trouble caused by those acts. (Prevent the bur on Airmotor Handpiece from hitting others in time of autoclave.)
2. When water gets inside the Handpiece, lubricate more than three times.
3. Do not run Handpiece without locking the bur.
4. Do not run Handpiece with open chuck .
5. For safety, mount Test Bur, the standard accessory, on the Airmotor Handpiece, when it is not in use.
6. In using the bur with its working diameter more than 5mm, gradually increase the speed in order to assure positive retention.

! In high speed use, the bur with large operating diameter could fly off and cause serious damage on human body.

WARRANTY ~Airmotor Handpiece: 1 year

Trouble, which occurs due to material defect or despite with correct use as the instruction manual states, during the period specified below, is covered under warranty by the manufacturer. Quality deterioration caused by drop of Airmotor Handpiece will be excluded from warranty coverage.