



E-type Straight Handpiece ES-30A, ESG-30AR, ES-30B, MWS-30A, STS-30H



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

⚠ Please read this Operation Manual carefully before use, and file for future reference.

SPECIFICATION:

• Maximum Rotation Speed	: 40,000rpm	ES-30A, MWS-30A
(Maximum Motor Speed)	: 30,000rpm	ES-30B
	: 20,000rpm	ESG-30AR, STS-30H
• Chuck Ability	Force to withdraw	: more than 45N
	Rotating Direction	: more than 4N·cm
• Applicable Bur	: HP type ISO standard (2.35φ)	
• coupling for Airmotor	: ISO Standard (E type)	ES-30A, ESG-30AR, ES-30B
	: MIDWEST TYPE	MWS-30A
	: STAR TYPE	STS-30H
• Sterilization	: 135°C autoclave for 15 min.	

How to use:

⚠ Check for vibration, noise and overheating outside the patient's mouth before use. And if any abnormalities are found in use, stop using immediately and contact your dealer.

⚠ Please avoid disassembling or modifying the product.

⚠ Do not drop, apply excessive force / impact on ST Handpiece. Warranty is invalid for the trouble caused by those acts.

1. Coupling with Motor

Push the nose of Airmotor into the Handpiece to be coupled, all the way until it stops.

(fig.1, fig.2)

Verify proper coupling by pulling the ST Handpiece and the Airmotor.

Please refer to the operation manual of Airmotor, for its use.



fig.1



fig.2

2. Bur Change

At bur-locking position where two dots are lined(fig.3), twist upper body to the direction

indicated by arrow all the way to the end. Release a dummy bur and insert a clean bur.

Twist back upper body till both of the two dots are lined. In twisting upper body, please

hold bottom body tightly by a hand.



fig.3

3. Operation

1. Repeat chuck-open and close a few times.

2. Use with motor running at below Maximum Rotation Speed.

⚠ Do not run Handpiece without locking bur.

⚠ Do not run Handpiece with chuck opened.

⚠ In high speed use, the bur with large operating diameter could fly off and cause serious damage on human body. Please observe speed limit of bur.

4. Un-coupling with Motor

Push release button. (fig.4)

Pull out Handpiece. (fig.5)

⚠ For safety, mount Test Bur, the standard accessory, on the ST Handpiece, when it is not in use.



fig.4



fig.5

5. Spray attachment

1. Straight handpiece(ST) spray attachment

Clip the spray attachment on the nose of straight handpiece.(fig.6)

Connect the tube with the spray pipe on Airmotor. (fig.7)

⚠ Tube included is made long on purpose. Please cut it at the best length for your use.



fig.6



fig.7



Maintenance:

- ⚠ To keep ST Handpiece under good condition, lubricate oil specifically made for dental Handpiece should be used. Use the spray as instructed by its manufacturer.

1. Lubrication

• Before autoclave	: Every time	• After Cleaning	: Every time	• After use	: Every time
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Be sure to lubricate every time after use, before autoclave, or in case that water and/ or dust gets inside. Spray lubrication could also make inside cleaning. It should be conducted twice each time. Please spray lubrication oil for more than 2 seconds.

- ⚠ When water goes inside the ST Handpiece, lubricate more than three times.
 ⚠ Without being held firm by hand, ST Handpiece could be pushed away by air-pressure of spray. Accidental drop could cause damage on the device.

2. Surface Cleaning

Clean with brush and wipe off by cloth. Lubrication should be done every time after surface cleaning. Although it has effect to apply a little alcohol on the cloth, excessive amount, by seeping inside ST Handpiece, could take off the lubricate oil on ball-bearing. If so, 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 nose, repeat the process at least twice. Do the cleaning once a day.

STERILIZATION

- ⚠ Do not put ST Handpiece through ultrasonic disinfection solution cleaning procedure. Do not use cold sterilization or dry heat.
 ⚠ Please use Class B sterilizing device stated in EN13060.
 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.
 ⚠ Blood, debris, other substance left inside ST Handpiece, can be solidified during sterilization and cause break-down. Please clean and lubricate well before autoclave.
 3. Place ST Handpiece in sterilization pouch. Autoclave at temperature 134-137°C(2Mpa) for 15min.
 ⚠ Prevent the bur on handpiece from hitting others in time of autoclave.
 ⚠ Please operate Autoclave dry cycle at temperature 135°C.
 4. Leave ST Handpiece in the sterilization pouch stand till excessive oil inside flows out.

WARRANTY ~ Straight Handpiece : 1 year

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

- ⚠ Please ask the store the product is purchased from, for repair.

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