

AS5000 AIR SCALER



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SAFETY WARNINGS

- Before making use of this tool, read the safety warnings, obey the signs and use the tool correctly.
- Security warnings are that the instrument be used securely to prevent and avoid the patient, you and others to suffer physical injuries. They are classified according to the severity of the injuries. Anyway, they refer to personal security, which must be properly obeyed given indications. In relation to the indications of danger.

In regards to the Danger indications

Classification	Severity of Injury
 Danger	Serious Bodily Injury and Property Damage
 Warning	Slight Bodily injuries and Property Damage Possibility



Danger

- Obey the directions of the correct air pressure. If air pressure is too high may lead to break off the tip and produce unsuspected lesions in the mouth.
- Even with the correct air pressure, uses carefully the instrument not to hurt the patient, because the tip can vibrate occasionally exceeding 200
- Do not use rusty tips. During use, the tip can break from the rusty point and cause injury to the patient.



Warning

- Thinking that patient safety is first, use the instrument with care using this instrument only for dental treatments in patients that needed dental treatment.
- Use unit so that the air pressure does not exceed 0.28 MPa (2.9 kgf/cm²) If you notice any abnormality during use, stop it immediately and contact your dealer.
- Never disassemble or try to repair this instrument.
- Take care of the instrument not receiving strong blows, especially avoid falls to the floor.
- Always perform a careful inspection, putting the instrument into operation out of the mouth of the patient, check for abnormal vibration, noise, temperature, etc.
- If you notice any abnormality at the moment, stop their use and contact your dealer.
- When you perform changes of tips or disconnection of the handpiece of the hose, always make sure to close the passage of air.
- Handle with care manipulating elements, such as tips, avoiding nailed

1. Specifications

Model	Air Pressure	Air Consumption	Frequency	Weight
AS5000	+ 0,28 MPa (2,9 kgf/cm ²)	20 ~ 30 L/min	6.200 ~ 6.450 Hz	64 – 67g

2. Connection & Air Pressure

Connect the handpiece direct into the tubing of the dental unity. Adjust the air pressure at least at 0,28 MPa (2,9 kgf/cm²) on the pressure gauge (see Fig. 1) If during the use of the high speed handpiece the air pressure pressure gauge is at 0,25MPa (2,5 kgf/cm²) AS5000 can be use directly.



Danger

- Do not adjust the air pressure above 0,28MPa (2,9 kgf/cm²) in the gauge. Increasing the pressure can caused increased frequency and damage to the tooth surface, and will produce severe pain to the patient. It can also cause malfunctions of the handpiece and break of tips that can harm the patient.
- Even with the correct air pressure, use the instrument carefully to avoid any harm to the patient, because the tip can vibrates occasionally exceeding 200 µm.



Warning

Because of the difference of structures between the high-speed handpiece and the AS5000, the pressure gauge may show that the pressure is elevated in approximately 0.03 MPa

3. Air Driver

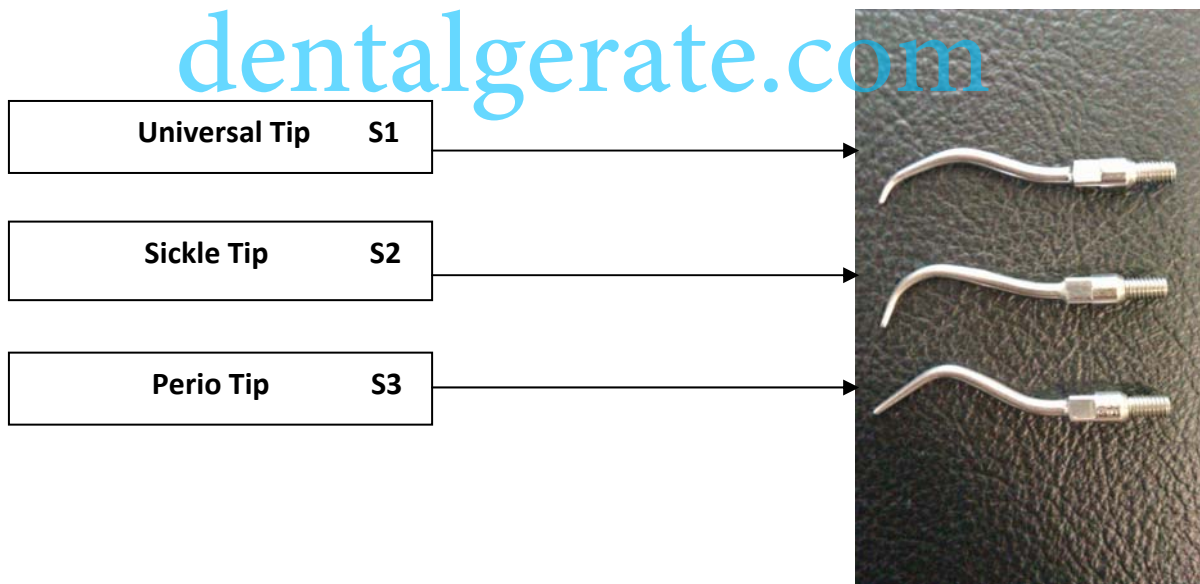
The AS5000 Scaler would not work normally if the driver air contains water or dirt particles. Purge the compressor air tank periodically even if it has filter or drying systems.

4. Tips

As shown in the Fig. 2, the set contains 3 different types of tips. Use the tips according to the following indications:

- Tip S 1 – Universal Occlusal face, curved surfaces, and surfaces of anterior teeth exposed roots, molars with vertical displacement towards the tongue.
- Tip S 2 - Sickle Anterior teeth of the lower jaw, surfaces to give toward the tongue, cases where the tartar are large and are firmly attached.
- Tip S 3 - Perio For all types of treatment, especially tartar located below and on the gingival line, deposits of tar by smoking, etc.

After Use , remove the tip of the AS5000 handpiece, dry completely with the 3-wy syringe or other item. Take special care to well dry areas such as the hole in the water outlet and screw fastening threads.



Warning

There is the possibility of oxidation of the tips , If the drying process is not done well, the tip can break due to the oxidization and cause accidents and harm to the patient and user.

5. Tip Replacement

Installation: When you place the tip in the handpiece AS5000, using first hand thigh until it its slightly (Fig. 3). Then place the torque tool passing the tip through the hole, and then match square parts. Adjust the tip with the tool until feeling that turns false and click sound is heard (Fig. 4).

Removing: Turn the torque tool counter clockwise, as indicated by the figure 4.



Fig. 3

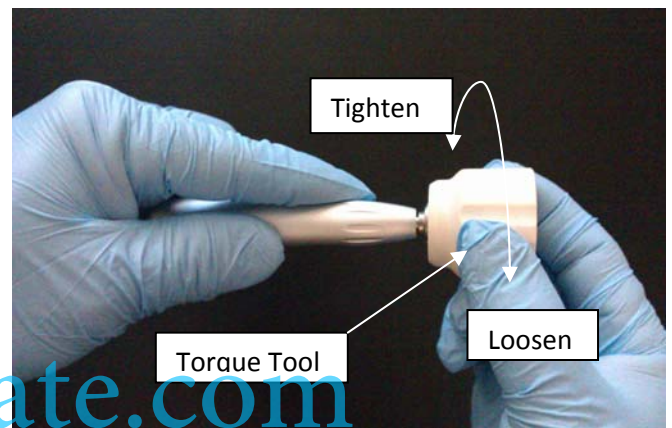


Fig. 4



Danger

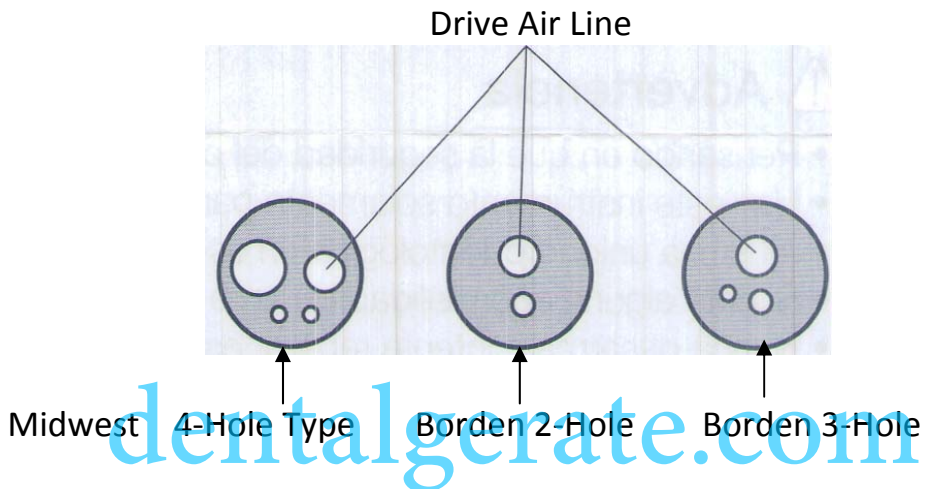
- Firmly set the tip. If it's loose, can break during treatment and cause injury to the patient or the operator.
- The tip is a wearable item . Immediately replace the tip with a new one in case any of the following situations:
 1. Tip is worn and dull
 2. Tip is corroded, indented or oxidized
 3. Tip is deformed as a result of bumps or falls
- Do not sharpen nor polish the tip trying to reuse.

6. Lubrication

Lubricate the handpiece AS5000 at least once every 3 days, inevitably, using handpiece oil lubricant. We recommend using the oil lubricant:

How to lubricate:

Disconnect the AS5000 from the tubing. Put 2-3 drops of oil in the drive air hole of the handpiece (fig. 5) Reconnect the handpiece in the tubing and run it normally for about 5 seconds.



Warning

Do not use lub oil in a pressure spray can. This Scaler has not many holes where the pressure can scape. For that reason it can be violently pushed forward.

7. Sterilization

The manufacturer recommends the sterilization by autoclave. Requires sterilization before first use and after each patient.

1. Sterilization procedure by autoclave
2. Clean the dust and the particles from the handpiece with a brush (do not use metal brushes), and then wipe with a cloth moistened with disinfectant alcohol.

3. Lubricate the handpiece with lubricating oil (see section 6, lubrication)
4. Placed the handpiece in a bag or pouch for sterilization and sealed properly.
5. Maximum autoclave temperature: 135 ° C

Exe. Autoclave for 20 min at 121 ° C 6 for 15 min at 132 ° C.

Conserve the handpiece in the bag of sterilization until the time of its use.



Warning During Sterilization

- If the Autoclave has a drying cycle with temperature above 135°C, avoid this step.
- Placed the AS5000 Scaler in the top or middle tray in the autoclave, avoid using lowest tray. In General, heat source is located underneath the bottom of the chamber and near this area temperature can easily go above 135°C.
- Do not sterilize the AS5000 in an autoclave along with other instruments cleaned with chemicals that has not been eliminated completely. Chemical products can cause damage to the silver finishing of the AS5000, discoloration and can penetrate and damage the internal components.

Caution should be taken to avoid chemical inside the autoclave.

- Do not use liquid acids, oxidizing, disinfectant solutions, etc. to clean the AS5000.

8. Warranty

TPC guarantees this product only against any defect in material and manufacturing. the causes of the problems with the instrument will be adequately determined by the Distributor, the warranty will lose effect if the product has been used carelessly or improperly maintained.

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