

TD 783 / TDS 890

Do not sterilise



Instruction

REF 2100038-ENG/12.10

English

Devices entirely made in Switzerland by Bien-Air Dental SA.

Type

Straight laboratory turbine with or without spray.

Intended use

Product intended for professional use only. Use in for laboratory work. Any use other than that for which this device is intended is prohibited and may prove dangerous.

Technical data

Coupling

2- or 4 hole pressure gauge and direct fig. 1.

Recommended rotation speed

Up to 300,000 rpm.

Weight

60 g (2,11 oz).

Air consumption

35 noml/iter/min on average.

Air spray rate

2 noml/iter/min to 200 kPa (29 psi).

Water spray rate

100 ml/min to 200 kPa (29 psi).

Information

The technical specifications, illustrations and dimensions contained in these instructions are given only as a guide. They may not be the subject of any claim. The manufacturer reserves the right to make technical improvements to its equipment, without amending these instructions. For all additional information, please contact Bien-Air Dental SA at the address indicated on the back cover.

Using

Air pressure output

Do not use the turbine at above the required air pressure

For use without unit:

Adjust the required air pressure to 2.5 bar (36.28 psi) with the assistance of a Bien-Air Dental inspection pressure gauge - 3-hole or 4-hole version placed between hose and connection, fig. 1.

For use with the S001 unit:

Please refer to the indications of the unit's manometer. The required air pressure is 3 bar (44 psi).

Important

The device must not be started without a bur inserted into the chuck.

Bur

Diameter of shaft 1.60 mm (0.06 in), type 3 in accordance with ISO 1797; max. length 25 mm (0.98 in), code 4-6 in accordance with ISO 6360-1 fig. 2.

Inserting the tool

Place the bur in the turbine's chuck fig. 3. Then insert the turbine head in the bur securing tool, press the bur against the metal disc in the bur securing tool and press firmly until you hear a « clic » fig. 4.

Extracting the tool

Hold the central part of the straight turbine's handle firmly in one hand and press the rear part of the handle forward. Release and remove the bur fig. 5.

Seals replacement

2V: Remove the seal according to fig. 6

4V: Remove the seal according to fig. 7

Removing seal, place it on the tubes and remount the attachment fig. 1

Maintenance

Non-sterilisable

Only use maintenance products and components from Bien-Air Dental. The use of other products and components can void the guarantee.

Servicing

Never disassemble the device. For any modification and repair, we recommend that you contact your regular supplier or Bien-Air Dental directly. Bien-Air Dental asks the user to have its dynamic instruments checked or inspected at least once a year.

Cleaning

Use **Spraynet** cleaner fig. 8. Spray the inside and outside of the equipment to remove the residues and carefully clean the surfaces.

Never immerse in disinfectant solutions.

Not suitable for ultrasonic bath.

Lubrication

Lubrication at least twice a day.

Only use **Lubrimed** medical grease and greaser.

- First-time use: Remove the cap, screw the knurled back-housing until the grease appears at the end of the rod. Wipe off surplus grease and replace cap after use.
- Remove the bur and introduce the rod of the greaser to the bottom. The dose corresponds to one half-turn of the knurled backhousing. Use the guidemarks fig. 9.
- Replace a bur, turn on the air and run the turbine for about 15 seconds.

TD 783	1600161-001		1/8" (3.17 mm)	2.5 bar		4-hole REF 1600243-001
TD 783	1600162-001		2V			3-hole REF 1600242-001
TDS 890	1600163-001		4V			

fig. 1

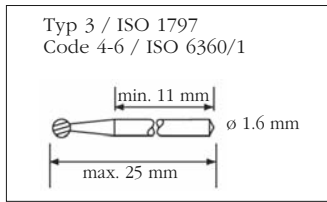


fig. 2

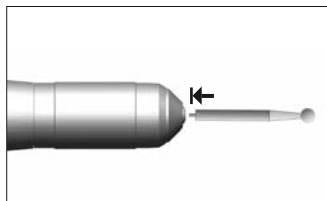


fig. 3

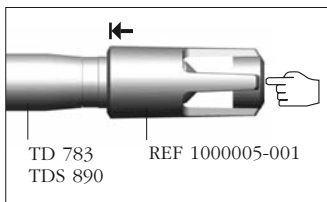


fig. 4

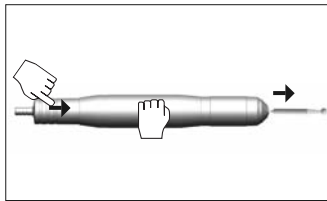


fig. 5

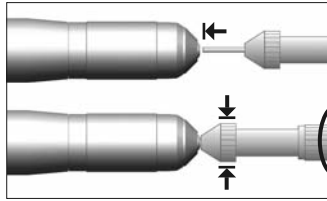


fig. 9

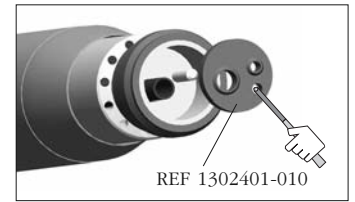


fig. 6

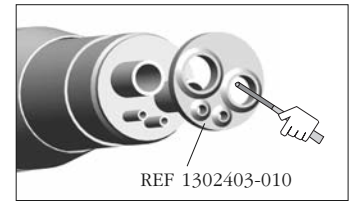


fig. 7

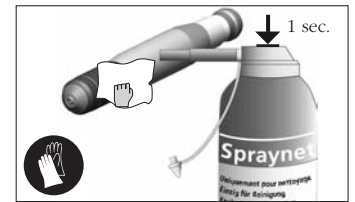


fig. 8

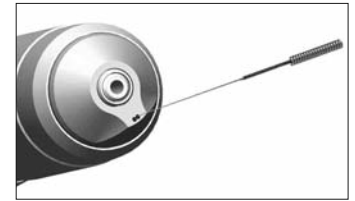


fig. 10

Important

After cleaning and disinfecting the instrument and before using it, operate at moderate speed, with a bur in the chuck, for 10 to 15 seconds to distribute, and remove, the excess lubricant.

Cleaning of spray tubes fig. 10

Wire cleaner.

Transport and storage conditions

Temperature between -40°C (-40°F) and 70°C (158°F), relative humidity between 10% and 100%, atmospheric pressure 50 kPa to 106 kPa (7.3 to 15.3 psi).

Other precautions for use

The device must be used by a qualified person in accordance with the current legal provisions concerning industrial safety, health and accident prevention measures, and these working instructions.

In accordance with these requirements, the operators:

- must only use operating devices that are in perfect working order; in the event of irregular functioning, excessive vibration, abnormal heating or other signs indicating malfunction of the device, the work must be stopped immediately; in this case, contact a repair centre that is approved by Bien-Air Dental;
- must ensure that the device is used only for the purpose for which it is intended, must protect themselves, their patients and third parties from any danger, and must avoid contamination through the use of the product.

Rest the device on a suitable support in order to eliminate the risk of injury to you yourself and to third parties.

Recommendations

It is essential to use dry, purified compressed air in order to ensure the long working life of the device. Maintain the quality of the air and the water by regular maintenance of the compressor and the filtration systems. The use of unfiltered hard water will lead to early blockage of the tubes, connectors and spray cones.

After a period of prolonged use, the device must be cleaned and serviced according to these instructions.

	STS Trimmer	S001	Without module (on the unit) in bar
TD 783 / TD 783 2-hole	Pressure of the pressure gauge in bar	Pressure of the pressure gauge in bar	
	-	3	2,5
TDS 890 4-hole	4,8	-	2,5

Adhere to the Instructions for Use, in accordance with the instructions of the tool manufacturer. Never use a tool with an incorrect rod, as there is a risk of this becoming detached during the use and causing injury to you yourself and to third parties.

The device is not intended for medical treatment; any use other than that for which this product is intended is not allowed and may prove to be dangerous. The device meets all the current European legal requirements (according to the European Directive 93/42/EEC relating to medical devices).

Guarantee

Terms of guarantee

Bien-Air Dental grants the user a guarantee covering all functional defects, material or production faults.

The device is covered by this guarantee for 12 months from the date of invoicing.

Bien-Air Dental offers a 24-month guarantee for the glass-bar light conductors.

In the event of justified claim, Bien-Air Dental or its authorised representative will fulfil the company's obligations under this guarantee by repairing or replacing the product free of charge. Any other claims, of whatever nature, in particular in the form of a claim for damages and interest, are excluded.

Bien-Air Dental shall not be held responsible for damage or injury and the consequences thereof, resulting from:

- excessive wear and tear
- improper use

- non-observance of the instructions for installation, operation and maintenance
- unusual chemical, electrical or electrolytic influences
- poor connections, whether of the air, water or electricity supply.

The guarantee does not cover flexible "fibre optic" type conductors, or any parts made of synthetic materials.

The guarantee shall become null and void if the damage and its consequences are due to improper manipulation of the product, or modifications to the product carried out by persons not authorised by Bien-Air Dental.

Claims under the terms of the guarantee will be considered only on presentation, together with the product, of the invoice or the consignment note, on which the date of purchase, the product reference and the Serial No. should be clearly indicated.







REF	Legend
1600161-001	TD 783 turbine for hose with internal Ø 1/8" (3,17mm), with Friction Grip chuck (FG)
1600162-001	TD 783 turbine with 2-hole connection, Friction Grip (FG)
1600163-001	TDS 890 turbine with spray, 4-hole connection, Friction Grip (FG)
1000005-001	Friction Grip bur-locking tool for TD 783 and TDS 890
1302401-010	Seal 3V
1302403-010	Seal 4V
1600242-001	Gauge for 3-hole attachment
1600243-001	Gauge for 4-hole attachment
1600037-006	Lubrimed medical grease cartridges, box of 6 cartridges
1000003-001	Lubrimed greaser
1600036-006	Spraynet, cleaning spray 500 ml, box of 6 cans

List of Bien-Air Dental SA registered trade mark products ®:

Aquilon®	Diamline®	Isolite®	MX®
Bora®	Eolia®	Lubrifiuid®	PowerCare®
Boralina®	Gyro®	Lubrimed®	Prestilina®
ChiroPro®	Gyrolina®	MX2®	Spraynet®

In these instructions, "Device" corresponds to the product described in the heading "Type". For example, turbine, contra-angle, handpiece, micromotor, tube, electronics, connectors, station etc.

Symbols

	Manufacturer.		CE Marking.
	Wear rubber gloves.		Move in the direction indicated.
	Attention.		Move fully to the stop, in the direction indicated.

This product may be covered by one or more of the following patents:

EP Europe: 745358 / 688539 / 948294 / 1145688 / 1563800 / 1563801 / 1675523 / 1753360 **DE Germany:** 29616023.7
DK Denmark: 9600315 **FR France:** 2722972 **CH Switzerland:** 693922 CN China: 100528099 / 100522100 / 100522099 / 100553584 **JP Japan:** 3892485 / 4298933 / 7000419 **US United States:** 5453008 / 6033220 / 6319003 / 7214060 / 7448870
RU Russia: 2361540 / 2361541 / 2372046

REF 1600161-001 TUR TD783 / REF 1600162-001 TUR TD783 2H / REF 1600163-001 TUR TDS890 4H

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