THALIA®

Ball-bearing turbines
Turbine a cuscinetti a sfere
Turbine mit Kugellagern
Turbines à roulements à billes
Turbinas de cojinetes de bolas
Turbinas de rolamentos de bolas
Γωνιακή αερότορ με ρουλεμάν

REF 186.30
REF 186.40

CE 0051



Operating instructions
Istruzioni per l'uso
Gebrauchsanleitung
Mode d'emploi
Modo de empleo
Instruções de uso
Οδηγίες χρήσεως

TKD

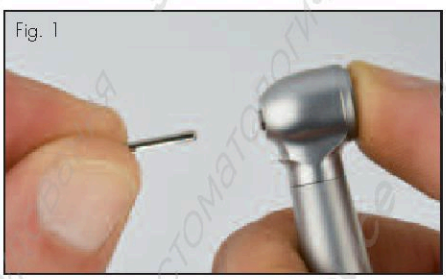

Fig. 1


Fig. 2


Fig. 3


Fig. 4

ACCESSORIES AND SPARE PARTS / ACCESSORI E RICAMBI / ZUBEHÖR UND ERSATZTEILE / ACCESSOIRES ET RECHANGES / ACCESORIOS Y RECAMBIOS / ACESSÓRIOS E PEÇAS SOBRESSELENTES / ΕΞΑΡΤΗΜΑΤΑ ΚΑΙ ΑΝΤΑΛΛΑΚΤΙΚΑ

REF 186.90	Rotor / Rotore / Rotor / Rotor / Rotor / Rotor / Ρότορας
REF 120.00	SO2000 Service Oil / Lubrificante / Schmiernippel / Lubrifiant / Lubricante / Lubrificante / Λάδι λίπανσης
REF 120.01	Nozzle / Beccuccio / Kanüle / Buse / Boquilla / Bocal / Ρύγχος
REF 129.40	Air pressure gauge for 4-hole connection / Manometro per attacco 4 vie / Manometer für 4-Wege-Anschluss / Manomètre pour raccordement 4 voies / Manómetro para enlace 4 orificios / Manómetro de 4 vias / Μανόμετρο για κορδόνι με 4 οπές

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THALIA/TKD186.XO/Rev.1.2018

ENGLISH

DESCRIPTION

High-torque ball-bearing turbine for professional dental use, compliant to EN ISO 14457 standard.
Weight: 52 g.
Maximum speed of rotation: 365000 rpm.
Maximum noise level: 66 dBA (@2.8 bar).

This medical device meets the requirements of the European Directives 93/42/EEC (Class IIa) and 2007/47/EC.

CONNECTION

The THALIA® turbine with 3-hole connection meets the requirements of Standard ISO 9168 Type 1. The THALIA® turbine with 4-hole connection meets the requirements of Standard ISO 9168 Type 2.
The turbines must be directly connected to the supply hose.

AIR PRESSURE

Recommended air pressure: 2.4 ÷ 2.8 bar (34.8 ÷ 40.5 psi).
Maximum air consumption: 55 Nl/min (@2.8 bar).
Check air pressure by means of a gauge (REF 129.40) connected between the turbine and the supply hose (Fig. 2).
Supplied air must be perfectly dry and well-filtered, kept at constant pressure.

SPRAY

One-jet type.
Water pressure: 0.8 ÷ 2.5 bar (11.6 ÷ 36.3 psi). Water must be well-filtered.
Spray air pressure: 1.0 ÷ 4.0 bar (14.5 ÷ 58.0 psi).
To clean the spray duct, use the supplied wire cleaner, as shown on Fig. 4

BUR TYPE

Shank diameter: Ø1.60 mm, Type 3 according to ISO 1797-1.
Maximum length: 25 mm, code 4 or 5 or 6 (6th digit) according to ISO 6360-1.
Minimum fitting lenght of shank: 9 mm.

BUR CHANGING

The turbine is equipped with a sophisticated push-button chuck: press the button with the thumb and subsequently insert or extract the bur (Fig. 1).

⚠ **When fitting on a bur make sure it is fully inserted.**
Before inserting a bur, make sure the bur shank is clean.
The turbine must not be started without a bur inserted into the chuck.

⚠ To avoid overheating of the push-button, which could cause burns, the button should not be pressed while the turbine is running. Internal tissues (tongue, cheeks, etc..) must then be protected by a retractor or a dental mirror.

LUBRICATION BY OIL

It is possible to lubricate instrument by means of the SO2000 service oil (REF 120.00) carrying out the following operations:
1) Disconnect turbine from the supply hose;
2) Insert the special nozzle (REF 120.01) onto the lubricant can;
3) Holding turbine by means of a cloth, fully insert the nozzle into the turbine (Fig. 3). Lubricate by pushing once only for one second.

In order for the instrument you have purchased to be helpful in your profession for a very long time, carefully repeat the described operations **before every sterilization cycle and, anyway, at least TWICE A DAY.**

STERILIZATION

Sterilize with a steam autoclave with fractioned initial vacuum phase, class B cycle according to the EN 13060 standard.
Sterilize at the nominal temperature of 134 °C (273 °F) for at least 3 min.
Use only demineralised or distilled water.
The device is supplied "not sterile".
The device can be sterilised for at least 1000 times.

CLEANING AND DISINFECTION

Clean with a cloth soaked in a disinfectant containing:
- Glutaraldehyde up to 2% - O-phenylphenol - Alcohols based on ethanol
Products not recommended: disinfectants containing benzalkonium chloride or acetone.
The instrument cannot be immersed in any kind of liquid.

SERVICE

In case of irregular noise, head vibrations, bur swinging or any other mulfunction of the instrument, and for any overhaul and repair work, please contact your usual supplier, an authorized service centre, or apply directly to TKD.

GUARANTEE

The device carry a 12-month guarantee against all defects of construction. Guarantee validity is subject to specific conditions.

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