

English

Fully Swiss-manufactured devices.

Type

All the benefits of fast connection and easy rotation through 360°, for 3 and 4 way connection, of air turbines and micromotors, with or without light.

Planned use

Use in dentistry for prophylaxis, general dentistry and endodontics work.

Technical data and assembly

Connector for 2- or 3-hole attachment **fig. 2**

Connector for 4-hole attachment **fig. 3-4**

Connector for 4-hole electrified attachment/4VLM **fig. 5**

Connector for 4-hole electrified attachment/4VLM with air non-return valve **fig. 6**

Classification

Class IIa, «active medical devices», as per section III «Classification», Rule 2 of Annex IX to Directive 93/42 EEC, namely: «Non-invasive devices intended for channelling liquids or gases for the purpose of administration into the body, which may be connected to an active medical device in Class IIa».

Connections fig. 1

- Screw the tube onto the back of the STARfix.
- To place the turbine on the STARfix, push the turbine as far as the stop. Then check the coupling by pulling on the turbine.
- To remove the turbine, press the buttons of the STARfix as far as the stop and take out the turbine. Proceed to this operation once the turbine has reached a complete stop.

1a All STAR turbines for STARfix connector

1b Ring for controlling water flow-rate

1c 4 STAR electrified lines

The STARfix connectors are compatible. You can attach a turbine without light to the connector of a STARfix with light and vice versa.

Polarity **fig. 7**

Adaptor application **fig. 8**

Maintenance

Maintenance animations at www.STAR.com

Non-sterilisable

Only use maintenance products and/or components from STAR. The use of other products and components can lead to annulment of the guarantee.

Overhaul

Never disassemble the device. For all modifications and repairs, we recommend that you contact your regular supplier or STAR direct. STAR asks the user to have its dynamic instruments checked or inspected at least once a year thereafter.

Cleaning and disinfection

Use cleaner STARnet or STAR. Soak a clean cloth with a disinfectant and carefully clean the surfaces. Products containing acetone, chlorine and bleach are not recommended as disinfectants.

Environment

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).

Application

Product intended for professional use only.

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. The French original of this text conforms to the legal standards. For all additional information, please contact STAR at the address indicated on the reverse.

Generalities

The device must be used by a competent person in accordance with the current legal provisions concerning industrial safety, health and accident prevention regulations, and these working instructions. In accordance with these requirements, the operator:

- must only use working 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 STAR;
- must ensure that the device is used only for the purpose for which it is intended, must protect himself, his patients and third parties from any danger, and must avoid contamination through the use of the product. The device is intended for medical treatment only; any use other than that for which this product is intended is not allowed and may prove to be dangerous. The medical device meets all the current European legal requirements. The device is not authorised for use in an explosive atmosphere. (Anaesthetic gas) Never immerse in disinfectant solutions.

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. Rest the device on a suitable support in order to eliminate the risk of injury to you yourself, to your patient and to third parties. Only use maintenance products and/or components from STAR. The use of other products and components can lead to annulment of the guarantee.

Guarantee

Terms of guarantee

STAR grants the operator a warranty covering all functional defects, material or production faults. The device is covered by this warranty for 12 months from the date of invoicing. In the event of justified claims, STAR 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. STAR shall not be held responsible for damage or injury and the consequences thereof, resulting from:

- excessive wear and tear
- improper handling
- 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 STAR. 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.

Wear rubber gloves

Light

Hose coupling with spray-adjuster

360° rotating coupling

3-hole connection

4-hole connection

2-hole connection

4-hole connection electric

USA 5-hole connection with glass-bar light

Movement in the direction indicated

Movement fully to the stop, in the direction indicated

Legend

1600363-001 STARfix 4-hole coupling air non-return valve, for instruments with light

1600086-001 STARfix 4-hole coupling with spray adjuster for fibre-optic instruments
1600083-001 STARfix 4-hole coupling with spray adjuster
1600082-001 STARfix 4-hole coupling for fibre-optic instruments
1600081-001 STARfix 3-hole coupling
1500010-001 3-hole connector for braided or smooth hoses
1600089-001 3-hole exit adaptor for standard 4-hole hoses
009.01.17-010 Seal 3V
004.23.49-010 Seal 4 VL
705.03.01-010 Seal 4V
705.01.07-010 O-Ring Ø 1,5 mm x Ø 0.75 mm
705.01.43-010 O-Ring Ø 7 mm x Ø 1 mm
1600036-006 STARnet, cleaning spray 500 ml, box of 6 cans

List of registered trade mark products ®:

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