

MANIPOLO DA LABORATORIO

CERTIFICATO DI GARANZIA
GUARANTEE CERTIFICATE
CERTIFICAT DE GARANTIE
GARANTIEZERTIFIKAT
CERTIFICADO DE GARANTIA



L'ODONTOTECNOLOGIA

FARO s.p.a
Via Faro 15
20876 Ornago (MB) Italia
Tel: 039/6878.1 (r.a.)
Fax: 039/6010540

Internet: <http://www.faro.it>



MANIPOLO DA LABORATORIO

MANUALE DI ISTRUZIONI
INSTRUCTION MANUAL
MODE D'EMPLOI
GEBRAUCHS ANWEISUNGEN
MANUAL DE MANEJO



L'ODONTOTECNOLOGIA

ED. 9/11
Rev. 0
cod. 988.060

6 mesi - months - mois - monaten - meses

nome - name - nom - vorname - nombre *cognome - surname - prenom - nachname - apellido*

indirizzo - address - adresse - auschrift - direccion *città - town - ville - ort - ciudad*

data di produzione - production date *data d'acquisto - purchase date - date d'achat - einkau-
fdatum - fecha de compra*

Manipolo/Handpiece:

- 010.000 012.000
- 011.000 014.000
- 011.020

versione - version - version - modell - versión

- FARO S.p.A. si riserva il diritto di modificare, senza preavviso, le caratteristiche indicate nel presente manuale.
- FARO S.p.A. reserves the right to change the specifications of this equipment without notice.
- FARO S.p.A. se reserve le droit de modifier, sans préavis, les caractéristiques dans ce manuel.
- FARO S.p.A. behält sich das Recht vor, jederzeit stillschweigend technische oder bauliche Änderungen vorzunehmen.
- FARO S.p.A. se reserva el derecho de modificar sin aviso previo las características incluidas en el presente manual de uso.

*Timbro del rivenditore - Dealer's stamp - Cachet d'achat -
Stempel der Fachhändlers - Sello del revendedor*

**FARO laboratory handpieces conform to
CEE machine directive 89 / 392**



IMPORTANT !

Before installing the handpiece read this manual carefully

13

TABLE OF CONTENTS

Safety rules	page	15
Features	page	17
Operating Instructions	page	18
Maintenance	page	21
Troubleshooting	page	22
Technical particulars	page	23
Guarantee Certificate	page	24

14

SAFETY RULES



- Follow all the instructions set forth in this manual.
- ◆ To avoid undue wear on the handpiece do not brake rotation by using the collet opening lever for any reason.
 - ◆ Do not open the collet when the shaft is rotating.
 - ◆ Do not use the handpiece with the front ring nut partially unscrewed.
 - ◆ The handpiece must not rotate without the fitted tool.
 - ◆ It is recommended to wear protective clothing, eyeglasses and gloves while using thehandpiece.
 - ◆ Do not attempt any maintenance while the shaft is rotating.
 - ◆ Insert only tools of the correct diameter in the handpiece collet.

15



- ◆ Do not attempt to repair the handpiece personally but only perform those operations explained in the manual; in all other cases call on our Service Department.
- ◆ Use only tools designed to resist a rotation speed higher than that of the handpiece (see the tool manual).
- ◆ When working on crumbly materials it is recommended to use an exhaust located near the place the tool is working in.

16

FEATURES

- ◆ Rotation axle on self-adjusting bearings.
- ◆ Easy tool change.
- ◆ The handpiece is available in the following models:

handpiece slip connection with collet \varnothing 2,35 mm	(cod. 010.000)
handpiece flexible connection with collet \varnothing 2,35 mm	(cod. 011.000)
handpiece duplex connection with collet \varnothing 2,35 mm	(cod. 011.020)
handpiece USA connection with collet \varnothing 2,35 mm	(cod. 012.000)
handpiece slip connection with collet \varnothing 3 mm	(cod. 014.000)

17

OPERATING INSTRUCTIONS

Check packing to see that all parts of the laboratory handpiece are received, as follows:

- ◆ Handpiece
- ◆ Annexed documentation

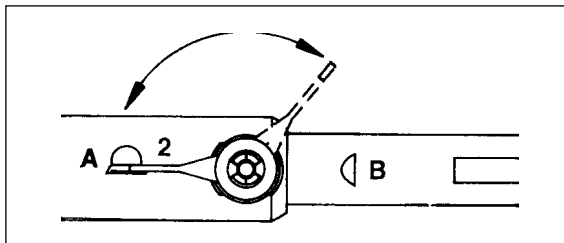
INSTALLATION OF HANDPIECE

- ◆ **Fit the handpiece by pushing it into the flexible shaft connection by taking care to position the reference notch with the connection system.**

18

CHANGING TOOL

To insert the tool shank in the handpiece collet move the lever (2) to position B (collet open). To lock the tool move the lever (2) to position A (collet close).



If you have difficulty in withdrawing the tool shank, do not force it but on the contrary push it inward to facilitate opening of the collet.

19

Run the handpiece without load for a few seconds to make sure it rotates properly.



**HANDPIECE MUST ROTATE ONLY WITH THE FITTED TOOL.
NEVER BRAKE ROTATION BY USING THE LEVER.**

20

MAINTENANCE

Periodically loosen the front knurled ringnut to bare the collet locking system.
Move the collet locking lever to position B (fig. 1) and blow a strong air jet into the collet.



SELF-LUBRICATING HANDPIECE

Do not lubricate

21

TROUBLESHOOTING

The tool shank does not lock in the closed collet.

- Make sure the shank diameter is compatible with the collet.
- Call our Service Department to have the collet calibrated.

The tool does not rotate correctly and the handpiece tends to heat up.

- Clean the handpiece as explained under MAINTENANCE.
- Call our Service Department.

22

TECHNICAL PARTICULARS

Maximum rotation speed	: 22000 rpm
Handpieces various models	: for tools diameter 2,35 / 3 mm
Maximum transmissible torque	: 4,9 Ncm
Noise level	: < 60 dB (A)
Vibrations	: < 2,5 m / s ²
Connection transmission shaft side,	: type slip / flexible / duplex / USA
Dimensions	: length 154 mm - diameter 17 mm (mod. 010.000)
Weight	: 110 grams (mod. 010.000)

23

GUARANTEE CERTIFICATE

FARO offers the final customer a **6 month** guarantee starting from the date of purchase.
Repairs under guarantee must be performed at FARO; expenses and transport risks are at the risk of the purchaser.
Repair under guarantee is considered valid only when:

- **all sections of the certificate have been filled in and sent in advance to FARO by Fax (039.6010540).**

The guarantee covers faults due to the bad quality of the material or manufacturing defects; in the case of valid claims, the guarantee covers free repair or replacement. **Claims for damages and/or interest are excluded.**
The guarantee is not considered valid, at the sole discretion of FARO, if the fault is due to tampering, damage, incorrect use, improper maintenance and normal wear and tear.

24