

Activation, deactivation, repairs and regular servicing of attachments should only be carried out by trained personnel using original instruments and components. Mechanically cleaning attachments with a toothbrush and toothpaste can cause premature wear and tear of the functional components.

Upon publication, these instructions for use supersede all previous editions.

The manufacturer is not liable for any damages due to the user disregarding the instructions for use below.

General information

Disinfection

This product is supplied non-sterile. The instrument and lamella retention inserts should be thoroughly cleaned and disinfected before try-in.

Requirement

The user should be familiar with the Swiss Dalbo®-System instructions for use, in particular information relating to the Dalbo®-PLUS.

Indications

– Male part gauge (Order no. 0700 0027) Fig. 1

For checking the retentive force in the denture. The nominal dimension of the ball diameter of the male part gauge is 2.245 mm, which is the same as the most popular systems on the market.

– Female part gauge (Order no. 0700 0024) Fig. 2

For checking and setting the required intraoral retentive force of the Dalbo®-PLUS female part and selecting the optimal lamella retention insert.

The products carry the CE sign.
See packaging for details.

Introduction

Retentive units in prosthetic restorations, particularly those on implants rigidly fixed in bone, are subjected to very high loading intraorally in a continually changing milieu and consequently to a varying degree of wear and tear. Though wear and tear occurs during normal use and cannot be avoided, it can be reduced. The extent to which it can be reduced depends on the system. Whether and how often it is necessary to replace a component varies from patient to patient and depends on loading, cleaning and the time between checks by a trained operator. With the Dalbo®-PLUS ball anchor design the components subject to wear and tear are in the removable unit of the restoration. This allows the component to be exchanged and the retentive force to be restored very quickly. Three lamella retention inserts with different diameters are available with the Dalbo®-PLUS. Depending on the application, retention can be created on ball anchor diameters of 2.27 mm to 2.15 mm Fig. 3.

Preparation

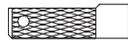
Disinfect instruments, lamella retention inserts and if required the Dalbo®-PLUS female part.

Inadequate denture retention, initial steps:

- 1) Remove and clean the denture. Check which attachment system was used.
- 2) Examine the denture to check whether the female part or its components have been damaged. Replace if required and reset the retentive force of the denture.
- 3) Check intraorally whether there are traces of wear and tear on the ball male part that could be the reason for inadequate retention.
- 4) Check whether the integrated female part fits correctly on the male part. If this is not the case, it will result in reduced retention and a very high degree of wear and tear. The female part must be refitted. The correct fit of the female part can be checked using a low viscosity silicone, e.g. GC Fit Checker.



Male part gauge 07000027
Fig. 1



Female part gauge 07000024
Fig. 2

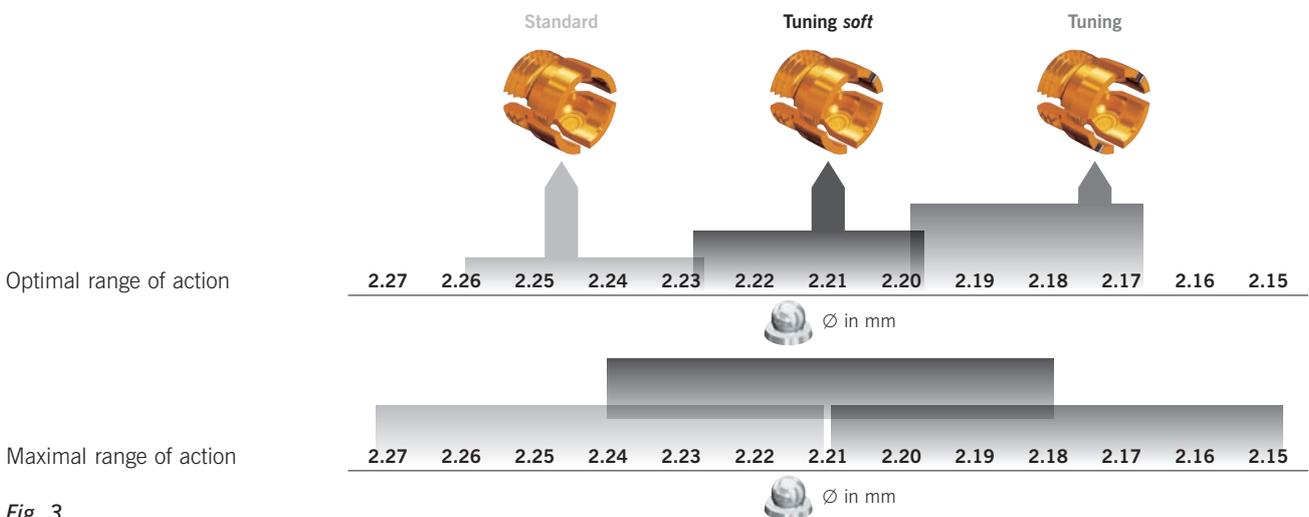


Fig. 3

Technique with a fitted Dalbo®-PLUS

Setting the retentive force with the female part gauge

- 1) Screw the Standard lamella retention insert **Fig 4** (Order no. 055 643) using the screwdriver/activator **Fig. 5** (Order no. 072 609) into the female part gauge **Fig. 2** (Order no. 07000024) to the 0 setting (housing height) **Fig. 6**.
Caution: Repeated insertion and removal of the lamella retention insert increases the likelihood of spontaneous loosening!
- 2) Check and set the retentive force intraorally with the female part gauge, which is secured with a safety cord, by increasing the retentive force gradually by quarter turns. Retention is set intuitively. The recommended retentive force is 600 g – 900 g, though this is variable depending on the number of attachments and patient situation.
- 3) If adequate retention cannot be attained using the Standard lamella retention insert, the Tuning soft insert **Fig 7** (Order no. 05000068) or the Tuning insert **Fig. 8** (Order no. 055 687) is inserted in the female part gauge and the procedure repeated.
- 4) Once the required retentive force is attained, note the number of turns. Remove the lamella retention insert and reinsert into the original housing using the same number of turns.
- 5) **Important:** Note the type of lamella retention insert used (Standard, Tuning soft or Tuning) and the batch number in the patient file!

Technique with other non-functioning ball anchor systems

- 1) Remove the female part from the denture.
- 2) Complete steps 1), 2) and 3) of the procedure described above for the Dalbo®-PLUS.
- 3) Once the required retentive force is attained, incorporate the relevant female part with the lamella retention insert in the denture. Information on how to incorporate it correctly is given in the Swiss Dalbo®-System instructions for use.

Male part gauge

For checking the retentive force setting in the denture extraorally.



Standard lamella retention insert

Standard version
(no indentation)
Fig. 4



Screwdriver/
Activator
072 609
Fig. 5

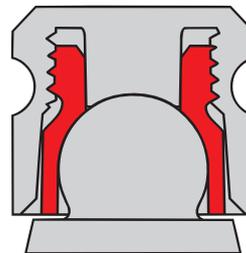


Fig. 6



Tuning soft lamella retention insert

Tuning **soft** version
(1 indentation)
Fig. 7



Tuning lamella retention insert

Tuning version
(2 indentations)
Fig. 8