JOTA SWITZERLAND

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jota kit 1424

Universal Prep Kit

acc. to Prof. Dr. Brägger, University of Bern

Universally usable shoulder preparation

- Clinically tested work method of the University of Bern/Switzerland
- Ideal sequence of diamond preparation and finishing burs
- Modified diamond shoulder bur with optimised tip geometry and reduced angle
- Extended diamond football bur for easier access to oral surfaces of the incisivi
- Optimum storage and sterilisation of the instruments in an aluminium bur block

swiss dentistry

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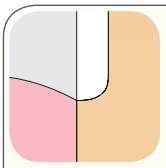


The newly designed and essentially minimised **Universal Prep Kit** for preparations across the entire indication range of crown and bridge prosthetics, developed and tested at the University of Bern, Switzerland.

A kit for all preparations with reduced convergence for tissue-conserving reduction and defined preparation margin for PFM crowns with fused-on shoulder and all-ceramic CAD/CAM restorations. When developing the universal preparation method, consideration was given to the key aspects relating to a defined removal of tissue, the biological guidelines, the geometric guidelines, contouring of the margins and accuracy of fit. The aim is a minimally-invasive preparation with optimum retention and resistance to tilting forces.

The internally rounded shoulder preparation proves in this case to be a tooth-tissue-conserving preparation method offering optimum stability. A clearly visible preparation margin and excellent marginal fit can be achieved. With CAD/CAM restorations especially, it is possible to obtain maximum accuracy of fit. The preparation effort is also comparatively less than for a 90° shoulder preparation.

The following points should be borne in mind with a shoulder preparation:

- 10°-15° conicity
- All edges rounded
- Surface smooth and shoulder finished
- Margin epigingival or ≤0.5 mm subgingival (aesthetic range)
- Minimum wall height 3-4 mm, excluding adhesive fixation

Preparation:

Try-in of the silicone key from the diagnostic wax-up

Determining the structure removal

859L.FG.012
Interdental separation

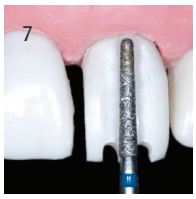
Remove contact point

558.FG.013/015
2-3 Labial vertical depth grooves

Approx. 1 mm deep (reference: key)

558.FG.013/015
2 Incisal depth grooves

1 mm deep (reference: key)



558.FG.013/015
Rough circular preparation

Reduction:
Shoulder: 1.0 mm to the wax-up buccal and proximal
0.8 – 1.0 mm oral
Axial wall: 1.5 mm to the wax-up

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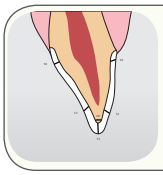
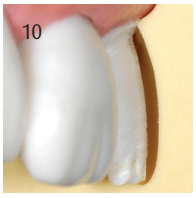
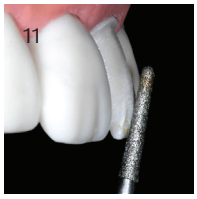


Successful results are only guaranteed if the preparation guidelines and layer thicknesses specified by the manufacturers are observed! At the same time, however, consideration must also be given to the biological aspect of the residual dentine thickness to prevent preparation trauma. Histologically identifiable damage occurs with < 1 mm of residual dentine.



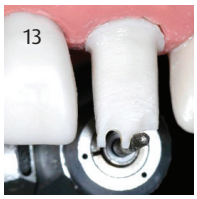
Control of the axial preparation



558.FG.013/015
Buccal-incisal bevel

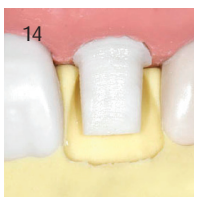
833.FGL.023
Cingulum preparation

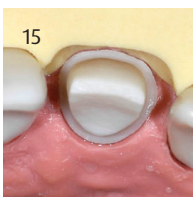
Reduction: 1.2 mm



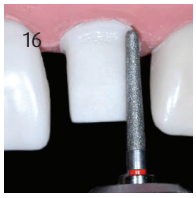
558.FG.013/015
Incisal reduction

Reduction:
1.5 mm-2.5 mm

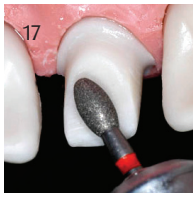




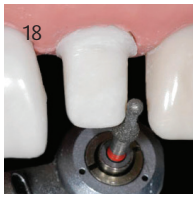
Control of conicity and structure removal



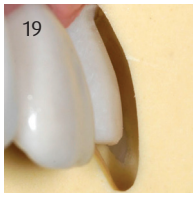
558F.FG.013/015
Adjustment of the conicity, fine preparation of the shoulder, finishing

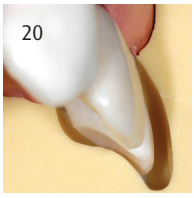


833F.FGL.023
Palatal/lingual fine preparation, finishing



893F.FG.023
Rounding off/ finishing incisal edges





Final control of the preparation

Preparation result
buccal and occlusal

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558.FG.015
558.FG.013

Optimised and matched diamond preparation and finishing burs with a significantly reduced flank angle (α) to minimise the risk of excessive conicity, the largest possible flattened tip diameter (d1) to ensure optimum support, an edge radius (R) for shaping the inner roundness and the narrowest possible nominal diameter (d2) for working even where space is restricted.

558F.FG.015
558F.FG.013

↺ 280'000-300'000 rpm

833.FGL.023
833F.FGL.023

Football-shaped diamond preparation and finishing burs with elongated shank for easier access to oral surfaces of the incisivi and for working on occlusal surfaces.

↺ 190'000 rpm

893F.FG.023

Diamond finishing bur with fine natural grain. This instrument is ideally suited to finishing and rounding off the edges, especially incisal edges.

↺ 19'000 rpm

859L.FG.012

Long needle-shaped diamond bur for interdental separation.

↺ 300'000 rpm

JOTA-Dealer:

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CE 0483

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Zertifiziertes QM-System mdc ISO 13485

Zertifiziertes QM-System mdc ISO 9001

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