



IPR Kit 4594

For interproximal enamel reduction (IPR) according to Dr. Drechsler



These days, interproximal enamel reduction (IPR) is increasingly used in all sectors of modern orthodontics. This not only applies to all fixed buccal and lingual appliances but also to treatments with aligners. Interproximal enamel reduction has become an invaluable aid in orthodontics, preventing extractions and ensuring successful straightening of teeth, especially in adults.

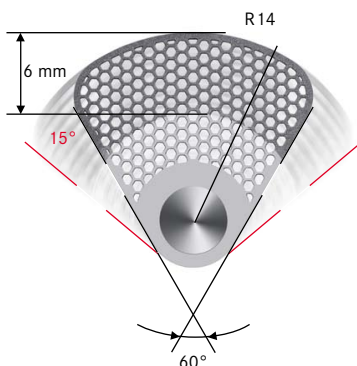
A professional IPR kit has been developed in close collaboration with Dr. Thomas Drechsler, Germany. Kit 4594 combines easier handling with an optimised clinical treatment, considerably facilitating the work of orthodontists and dental assistants.

It contains patented oscillating discs which come clearly arranged in a modular storage box with an innovative, practice-orientated design.

The ergonomic storage box fulfils all criteria of efficiency and hygiene in dental practices.

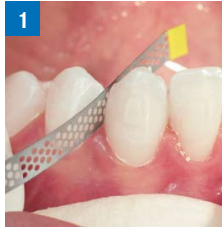
Coated on one or both sides, oscillating discs are suited to remove any amount of interproximal substance between 0.2 and 0.4 mm as required. Thanks to their logical arrangement in the storage box, it is guaranteed that the amounts of interproximal substance that usually need to be removed (i.e. 0.2, 0.3, 0.4 or 0.5 mm) can be defined and achieved even more accurately.

This easy step-by-step technique not only produces reliable, reproducible results, it also provides greater comfort to both orthodontist and patient during enamel reduction.



Clinical sequence

1. Gentle, manual separation of the contact point: first of all, a thin abrasive strip WS37EF with honeycomb design coated with extra fine grit (yellow) is inserted between the two teeth.



2. This is followed by a slightly thicker strip WS37 (0.13 mm) coated with medium grit (blue).



3. Once the interproximal contact has been eliminated with the abrasive strips, the first oscillating disc OS1FV (0.13 mm, coated on one side only) can be used without jamming.



The oscillating angle of the discs is 30° (15° in each direction). The sequence of use is such that each disc is 0.05 mm thicker than the previous disc. This allows a smooth, gradual increase of the interdental distance in complete safety.

4. The next step is using the oscillating disc OS15FV, which is – like its predecessor – only coated on one side. This allows the selective removal of dental enamel on one side of the tooth only, according to requirement.



Oscillating discs with coating on their rear side only are available for work on distal surfaces (figure numbers feature the letter “H” instead of “V”). If an even substance removal on both sides is required, the oscillating disc OS15 with coating on both sides (thickness: 1.5 mm) is recommended.



If you intend to reduce the dental enamel by a total of 0.2 mm, just use the discs in the first section of the storage box marked 0.2.

To enable the removal of the exact amount of enamel, the thickness of the oscillating discs is 0.05 mm less than the required dimension. This is because the enamel reduction is followed by an interproximal polishing step. Together, these two steps will result in the removal of the exact amount of enamel required, largely eliminating the need for a subsequent dimensional check.

If you wish to reduce the dental enamel by 0.3 mm or 0.4 mm, use the discs in section 0.2 first and work through the subsequent sections – starting at the top of each sector – until you have reached the last disc at the bottom of the section that corresponds to the required target size:

5. Oscillating disc OS20F coated on both sides (thickness: 0.2 mm),

6. ... oscillating disc OS25M coated on both sides (thickness: 0.25 mm),

7. ... oscillating disc OS1M coated on both sides (thickness: 0.30 mm), and

8. ... finally, the oscillating disc OS35M coated on both sides (thickness: 0.35 mm) is used.

9. Result after use of the oscillating discs.

10. The IPR kit also contains a rotary instrument 8392.314.016 (red ring) if the interproximal enamel is to be reduced by more than 0.5 mm. This instrument is stored in the section marked 0.5. Applied horizontally, this finisher has a particularly short working part to enable quick, yet precise interproximal enamel reduction between neighbouring teeth.



11. Stored in the “contouring” section of the IPR kit, the instrument 850.314.012 is used prior to polishing for contouring and bevelling of edges and beads. This instrument is designed to give dental surfaces a natural, aesthetically pleasing look.



12. The essential final step is the polishing of the interproximal enamel (IPP), for which our composite polishing discs (Kit 4564) are recommended. To create a perfectly smooth surface, first use the blue polishing disc, followed by the red one and finally by the white one, i.e.: CC1M.900.130 ...



13. ... followed by the fine Polishing disc CC1F.900.130 ... ,

14. ... and finally by the ultra fine Polishing disc CC1UF.900.130.



15. Apply fluoride to the enamel to conclude the treatment.



Recommendations:

- The segmented discs are exclusively designed for use in the oscillating Komet contra-angle OS30.
- When using the full capacity of the micromotor (40,000 rpm), an effective performance of 5,000 oscillations/min. is reached.
- It is also possible to use the instruments in an air motor: In this case, at maximum capacity of the motor (20,000 rpm), an effective performance of 2,500 oscillations/min. can be reached.
- Start the oscillating discs before they are applied to the tooth.
- Insert the segmented discs from occlusal and guide down slowly.
- Make sure to use sufficient water-spray coolant at all times (at least 50 ml/min.).
- Segmented discs with coating on the face side are identified by the letter "V" on their shanks, whereas discs with a coated rear side are marked with the letter "H". The thickness of the disc is also laser marked on the shank.
- Segmented discs coated with medium grit can be identified by a blue ring, whereas discs coated with fine grit bear a red mark.

Advantages:

- Much faster and more effective than manual enamel reduction with diamond strips.
- The enamel can be reduced by exactly the required amount.
- Patented oscillating discs for unobstructed view and excellent chip removal.
- Clearly arranged instrument tray.
- Our polishing discs (KIT 4564) is recommended for subsequent interproximal polishing of the enamel.
- To complete the treatment, fluoride should be applied to the enamel.

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Elimination of the interproximal contact

● **WS37EF** ● **WS37**

IPR 0.2 mm

- **OS1FV.000.140** 0.13 mm coated at the front
- **OS1FH.000.140** 0.13 mm coated at the back
- **OS15FV.000.140** 0.15 mm coated at the front
- **OS15FH.000.140** 0.15 mm coated at the back
- **OS1F.000.140** 0.15 mm


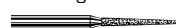
IPR 0.3 mm

- **OS20FV.000.140** 0.20 mm coated at the front
- **OS20FH.000.140** 0.20 mm coated at the back
- **OS20F.000.140** 0.20 mm
- **OS25M.000.140** 0.25 mm

IPR 0.4 mm

- **OS1M.000.140** 0.30 mm
- **OS35M.000.140** 0.35 mm

IPR 0.5 mm

- **8392.314.016** 
- **850.314.012** 



OS30
Oscillating contra-angle



Tip: Please also ask for the product information "OS Discs" to see the whole range of discs!