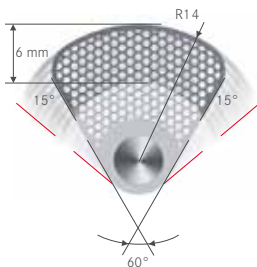




# Interproximal enamel reduction | OS Discs



US patent 6, 241, 522



## Oscillating segment disc for interproximal enamel reduction.

Interproximal enamel reduction - also referred to as IPR or "stripping" - has a variety of different orthodontic applications. When appropriately performed, IPR can correct disproportionate tooth sizes in both the upper and the lower jaw, eliminate crowding and increase the durability of orthodontic treatment results by adapting the proximal contact areas, particularly in lower anteriors.

Traditionally, IPR/stripping has been accomplished with diamond strips or rotary discs. Because diamond strips can jam or be impeded by inadequate space for grinding movements, rotary discs are often used instead. The discs have their own drawbacks, however: like the risk of damaging the soft tissue and they can obstruct operator vision, particularly when using a disc guard.

In cooperation with Prof. Dr. Jost-Brinkmann of the Berlin Charité Dental Hospital, Komet® has developed the 60°, oscillating OS segment disc, a reliable solution for safe, efficient IPR. With a radius of just 1.4 cm and a pivoting angle of 30°, the OS disc does not require a disc guard, and it is ideal for use in exceptionally narrow areas. Unlike full-radius rotary discs that require disc guards and that have diameters of up to 2.2 cm, the innovative, patented OS disc offers optimal vision as well as excellent grinding efficiency.

#### Scientific advice:

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## Application:

1. To minimize the risk of removing excessive amount of enamel, the tooth width should be measured with a sliding caliper both prior to use and during enamel reduction. Alternatively, a thickness gauge can be used to measure the thickness of the removed enamel.



2. The appropriate segment disc is selected according to the amount of enamel to be removed. The disc is moved in an occlusal to cervical direction. The teeth to be treated should be aligned and straight.



3. Start with a medium-grain disc, keeping in mind that more substance will be removed during the finishing stage.

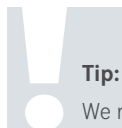


4. The final result after polishing and fluoridation.



## Recommendations for use:

- The segment disc is to be used in the oscillating Komet® contra-angle OS30 electric handpiece.
- When used at full capacity (40,000 rpm) the micromotor achieves an effective performance of 5,000 oscillations/min.
- It also is possible to use the instruments in an air motor: In this case, when used at maximum capacity (20,000 rpm), the motor offers an effective performance of 2,500 oscillations/min.
- The disc must be inserted from occlusal or vestibular and guided down through the contact point in a slow but continuous movement.
- Apply sufficient spray coolant.
- We recommend using the composite polishing discs (Kit 4564) for subsequent interproximal enamel polishing.



### Tip:

We recommend the IPR Kit 4594 with selected segment discs



**IPR-Kit 4594**  
developed in cooperation with Dr. Drechsler

## Single sided discs:

- **OS18MV.000.110**  
Thickness: 0,18 mm, coated at the front
- **OS18MH.000.110**  
Thickness: 0,18 mm, coated at the back
- **OS1MV.000.140**  
Thickness: 0,20 mm, coated at the front
- **OS1MH.000.140**  
Thickness: 0,20 mm, coated at the back
- **OS1FV.000.140**  
Thickness: 0,13 mm, coated at the front
- **OS1FH.000.140**  
Thickness: 0,13 mm, coated at the back
- **OS15FV.000.140**  
Thickness: 0,15 mm, coated at the front
- **OS15FH.000.140**  
Thickness: 0,15 mm, coated at the back
- **OS20FV.000.140**  
Thickness: 0,20 mm, coated at the front
- **OS20FH.000.140**  
Thickness: 0,20 mm, coated at the back

## Double sided discs:

- **OS25M.000.140**  
Thickness: 0,25 mm
- **OS1M.000.140**  
Thickness: 0,30 mm
- **OS35M.000.140**  
Thickness: 0,35 mm
- **OS2M.000.140**  
Thickness: 0,45 mm
- **OS1F.000.140**  
Thickness: 0,15 mm
- **OS20F.000.140**  
Thickness: 0,20 mm
- **OS2F.000.140**  
Thickness: 0,30 mm



**OS30**  
Oscillating contra-angle