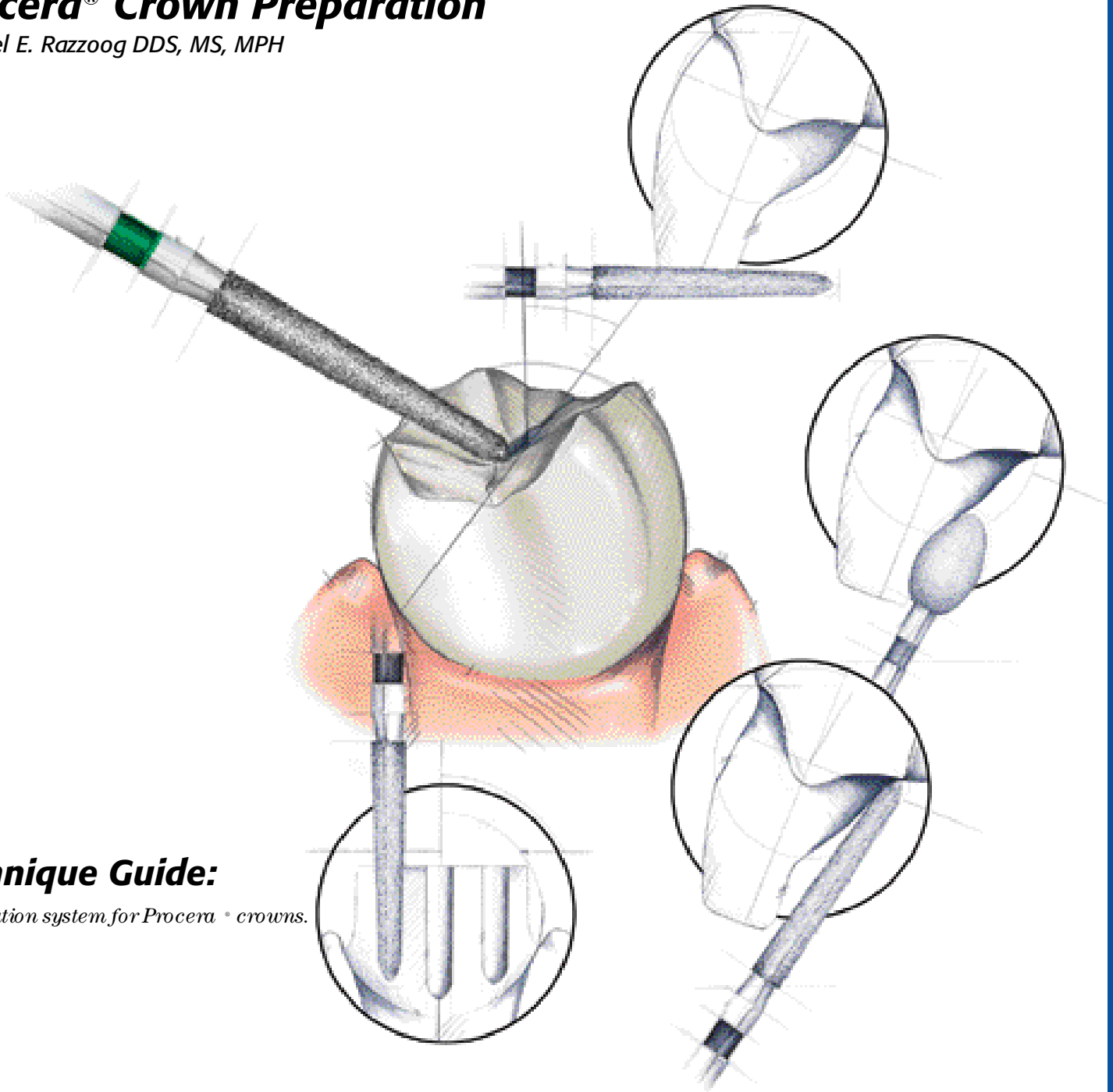


# Procera® Crown Preparation

Michael E. Razzoog DDS, MS, MPH



## **Technique Guide:**

*Preparation system for Procera® crowns.*

**Consistently. Rationally. Systematically.**

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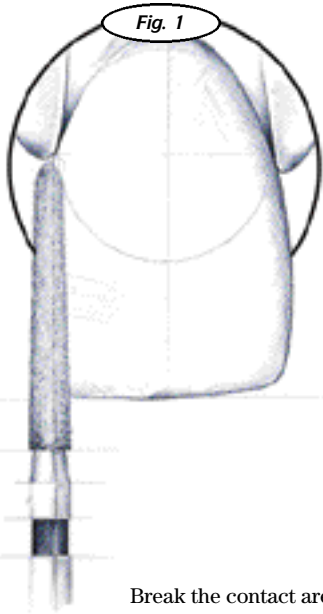
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DENTAL ROTARY INSTRUMENTS

# Procera® Crown Preparation

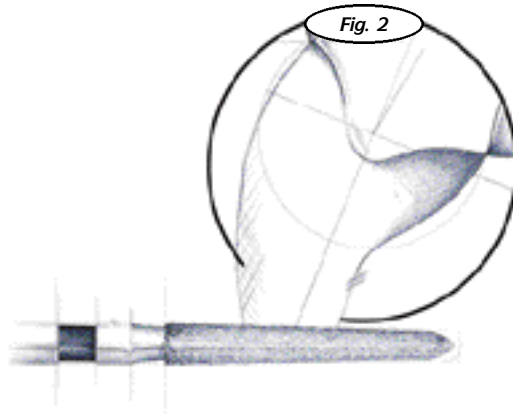
The preparation for a Procera® crown or bridge abutment should follow the basic principles that apply for optimizing the strength and esthetics of an all ceramic crown. The Procera® kit contains 4 diamond burs which will allow for preparation of both anterior and posterior teeth to achieve chamfer type margins with rounded internal line angles. Shoulder margins are not necessary and provide no esthetic or structural advantages over chamfer margins. Feather edge margins can be scanned and duplicated with Procera®, however they do not produce optimum esthetic results.

## Anterior Preparation

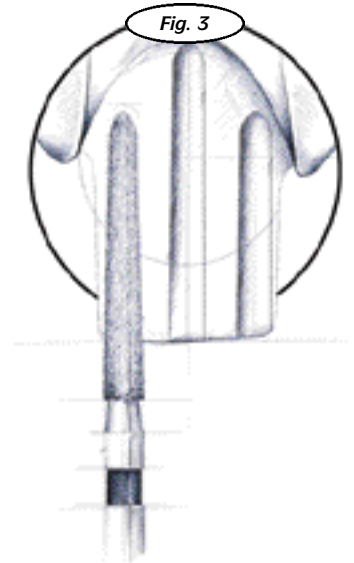
It is important to properly taper the preparation to avoid any undercuts and to round off all surface transitions.



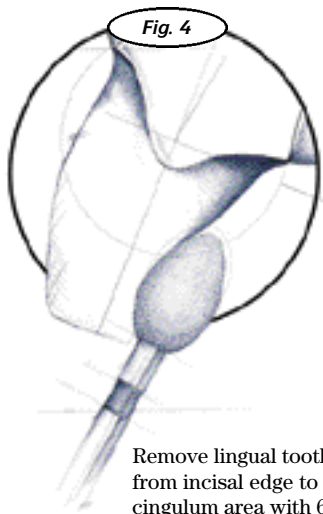
Break the contact area with 6878K-014. The mesial and distal slices will establish slight interproximal shoulders.



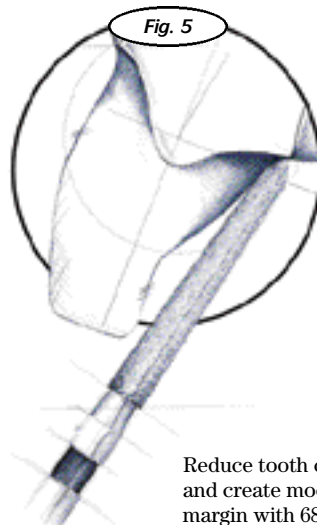
Reduce the incisal surface approximately 2mm with 6878K-014 or 016.



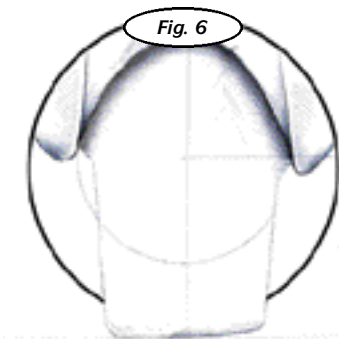
Place 3 depth guide cuts 0.8 to 1.5mm on facial surface with 6878K-014 or 016. Then remove enamel to establish facial reduction and moderate chamfer margin.



Remove lingual tooth structure from incisal edge to top of cingulum area with 6368-023 to depth of 0.8 to 1.5mm.



Reduce tooth cingulum area and create moderate chamfer margin with 6878K-014 or 016.



Extend moderate chamfer margin below the free gingival margin and round angles. Tall, thin incisal profiles with sharp incisal edges should be avoided.

## Posterior Preparation

As in any porcelain posterior restoration, the more occlusal space, the more vital and natural your final restoration will look. An occlusal reduction of 1.5 to 2mm will accomplish this goal.

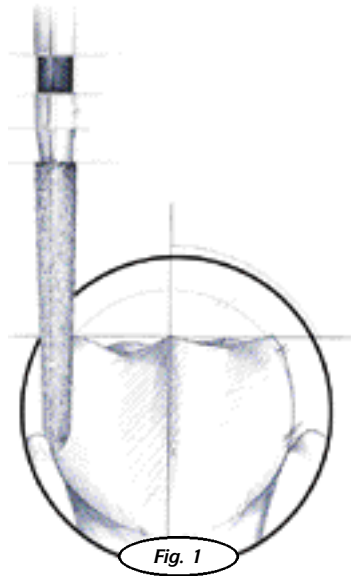


Fig. 1

Break the contact area with 6878K-014. The mesial and distal slices will establish slight interproximal shoulders.

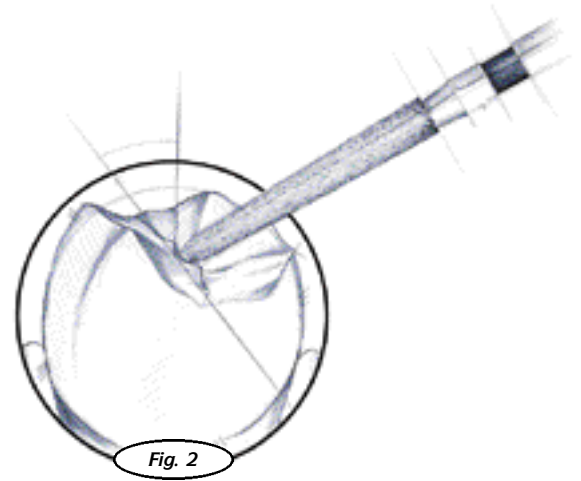


Fig. 2

Reduce the occlusal surface approximately 2mm with 6878K-016 or 021. The occlusal surface should be reduced as for metal ceramics and should have a relatively smooth surface topography. Posterior preparations with deep central groove reduction should be avoided.

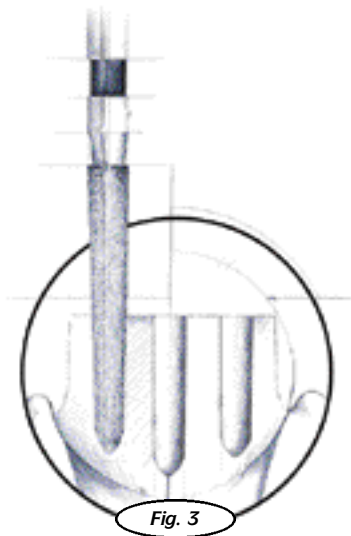


Fig. 3

Place 3 depth guide cuts 0.8mm to 1.5mm on facial and lingual surfaces with 6878K-014 or 016. Then with the 6878K-014 or 016, remove enamel to establish facial reduction and moderate chamfer margin. It is important to properly taper the preparation to avoid any undercuts and to round off all surface transitions

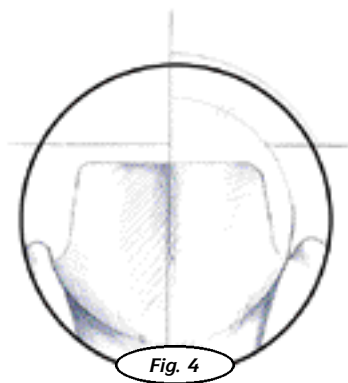
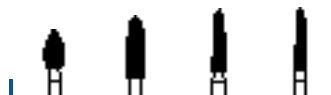


Fig. 4

Extend moderate chamfer margin below the free gingival margin and round all sharp line angles. Margins should flow smoothly around the circumference, avoiding sharp, angular transitions. Vertical margins should be avoided. Erratic, sharp margins do not lend themselves well to the scanning process and should be smoothed out.



213.31.111



Order No.	6368	6878K	6878K	6878K	
Size	Ø 1/10 mm	023	021	016	014
L mm	5.0	8.0	8.0	8.0	

Procera® Crown Prep Kit

Developed by Procera® and Brasseler USA

Friction Grip 31 —  
Ø1.60mm x 19mm L



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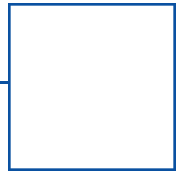
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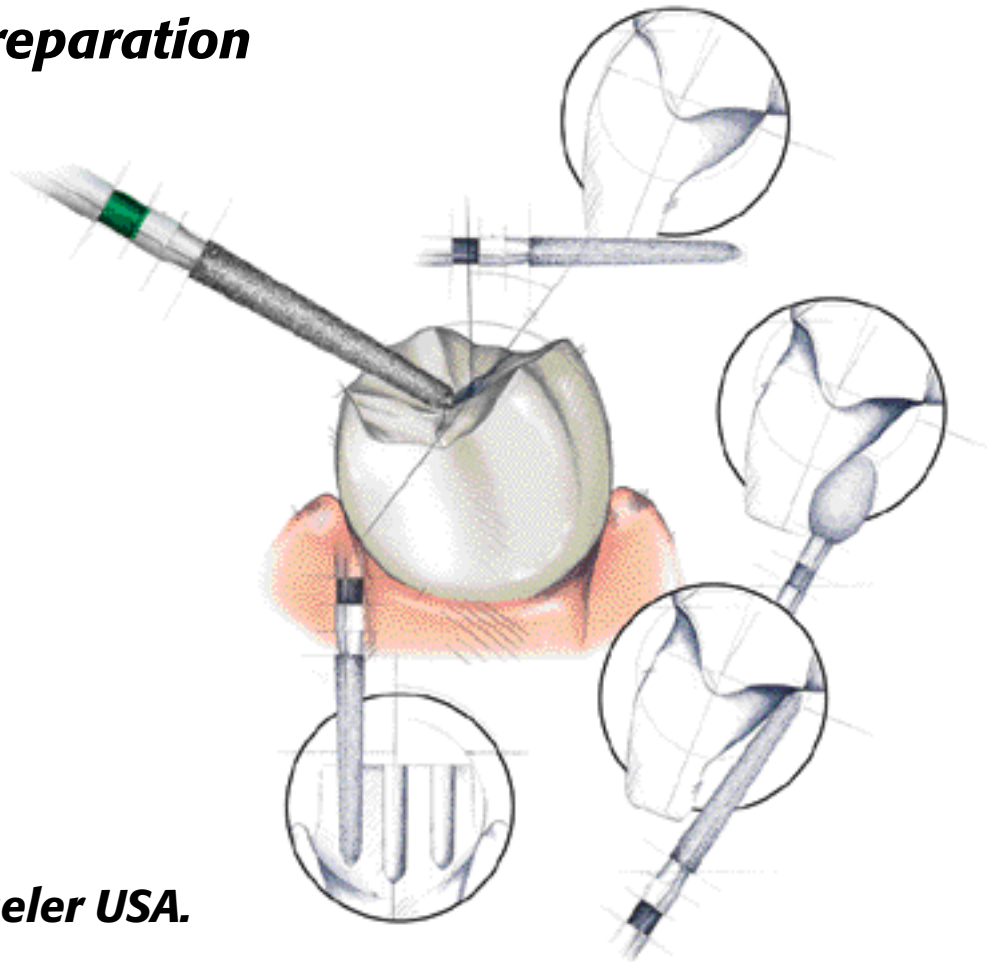
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