All-Ceramic
Chairside Preparation Guide for IPS Empress® and IPS e.max®

For IPS e.max® restorations

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<th>IPS e.max Ceram/ZirPress</th>
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<td>Anterior</td>
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For IPS Empress® restorations

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Anterior Chairside Preparation Guide

Full-Coverage Restorations

ANTERIOR CROWN PREPARATION

1.0-mm reduction at gingival margin

Butt joint margin

1.0-mm lingual contact clearance

1.5-mm to 2.0-mm incisal reduction

Football-shaped finishing bur

3-Unit Bridge Restorations

3-UNIT BRIDGE PREPARATION

Butt joint margin

1.0-mm reduction at gingival margin

Rounded internal line angles

1.5-mm axial reduction

1.5-mm to 2.0-mm incisal reduction

Veneers

VENEER PREPARATION
A medium grit, round-ended, diamond bur is used to remove a uniform thickness of facial enamel by joining the depth-cut grooves.

INCISAL PREPARATION
The diamond bur is angled to bevel back the incisal edge.

CHAMFER MARGINS
Correct preparation of the chamfer margins interproximally allows the appropriate bulk of porcelain.

*Please note: For additional masking capabilities and/or layering techniques, further reduction may be necessary. Contact your laboratory for further information.
Inlays/Onlays

**INLAY PREPARATION**

- 1.5-mm to 2.0-mm isthmus width
- Butt joint margin
- Rounded internal line angles
- 1.0-mm to 1.5-mm wide gingival floor
- 1.5-mm depth at isthmus

**ONLAY PREPARATION**

- 1.0-mm to 1.5-mm wide gingival floor
- Butt joint margin
- Rounded internal line angles
- 1.5-mm to 2.0-mm isthmus width

3-Unit Bridge Restorations

**3-UNIT BRIDGE PREPARATION**

- 1.5-mm to 2.0-mm occlusal reduction
- Rounded internal line angles
- 1.5-mm axial reduction
- 1.0-mm reduction at the gingival margin
- 1.5-mm to 2.0-mm occlusal reduction

Full-Coverage Restorations

**POSTERIOR CROWN PREPARATION**

- 1.5-mm to 2.0-mm occlusal reduction
- Rounded internal line angles
- 1.5-mm axial reduction
- 1.0-mm reduction at the gingival margin
- A flat-ended tapered diamond bur is utilized to establish a butt joint margin.

**CONVENTIONAL CEMENTATION PREPARATION**

- Taper between 4° and 8°
- Shoulder preparation of at least 1.0-mm proximal reduction
- Occlusal reduction of at least 2.0-mm in contact area
- Coronal length at least 4.0-mm

When layered or pressed ceramic margins are preferred in conjunction with a zirconia framework, enhanced gingival esthetics can be achieved with a definitive 90 degree shoulder preparation.

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