

# Crown and Bridge



## Crown and Bridge Did you know?

Pittman Dental Laboratory offers a wide variety of crowns and bridges. Our experienced technicians will help you navigate the complexity of your case and provide you with the proper choice of solutions for your client. Below are some of the many products that we provide.

### **Diamante Bruxer™**

Diamante™ Zirconia bruxer is ideal for posterior restorations; especially bruxer patients. We mill from a medical grade Zirconia imported from Italy. Our Diamante™ bruxer is fabricated out of all Zirconia, there's no ceramic layering, so we guarantee it for 5 years against breakage. Due to the material's higher translucency and our unique staining techniques, the aesthetics of the Diamante™ bruxer surpasses all other brands.

### **Diamante Layered™**

We take the same imported premium grade Zirconia we use for our Diamante™ bruxer crowns and stack multiple layers of porcelain to create Diamante™ Layered. The natural beauty of Diamante™ Layered is a result of these many layers of ceramic on its tooth colored zirconia core material. The core is fabricated with CAD/CAM technology, giving it optimal



**Indications** for the Diamante layered zirconia is for anterior and posterior, anterior and posterior crowns, bridges, and implants.

**Contraindications** include signs of severe bruxism and/or clenching, limited occlusal space, history of broken restorations and/or teeth preparation, a 1200 MPA strength, and 6/10.2 mm thick for durability and strength.

**Cementation** requirements are RelyX Ultimate Clicker (3M Espe), RelyX Unicem/U200 (3M Espe), and RelyX

### **LuMax**

LuMax from Pittman Dental Laboratory offers the esthetics of traditional e.Max® but with increased flexural strength. Traditional lithium disilicate restorations have a flexural strength of no more than 400 MPa. LuMax has a flexural strength of 765 MPa.



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**Indications** for LuMax are for single anterior and posterior crowns, implant restorations, inlays and onlays.

**Bonding or Cementation** is recommended for dual cure resin. Suggested products are RelyX Ultimate (3M Espe), Panavia SA Plus (by Kuraray), and Clearfil Esthetic Ex (by Kuraray).

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# Crown and Bridge



## Crown and Bridge (Continued)

### IPS e.max

Every case has different goals and requirements. IPS e.max helps you to master these individual challenges on a daily basis. It is now easier than ever before to achieve high strength and outstanding esthetics with this user-friendly system. IPS e.max allows you to imitate the natural beauty of tooth structure. In addition to lithium disilicate glass-ceramics (LS2) for fabricating single-tooth restorations and three-unit bridges, this leading all-ceramic system also comprises high-strength, translucent zirconium oxide (ZrO<sub>2</sub>) for fashioning monolithic crowns and multi-unit bridges. All IPS e.max products are based on an integrated materials and shade system, which allows you to fulfil the individual needs of your patients. The products ideally complement each other.



**Indications** with IPS e.max are anterior and posterior restorations (incisal/occlusal reduction 1.5-2.0mm), veneers (.6-.8mm of facial reduction), minimally invasive inlays, onlays, and partial crowns, and implant restorations.

**Contraindications** for IPS e.max are signs of severe bruxism an/or clenching, limited occlusal space, a history of broken restorations and/or teeth preparation, 1.5mm occlusal and axial wall reduction, and 1mm chamfer margin required.

**When adusting and polishing**, use fine grit diamond at slow speed with copious amounts of water. Polish with a porcelain polishing wheel (Brasseler, Shofu and Vident) and use diamond polishing paste.

**Bonding:** Indicated for maximum retention and compressive strength of crowns, veneers, inlays and onlays when tooth preps are primarily supra-gingival and isolation is possible. Use self-cure or dual cure adhesive cements for most restorations. For cosmetic veneers use light cure or dual cure cements with shading sptions. Recommended adhesive resin cements include Variolink II (Ivoclar Vivadent), RelyX Ultimate Clicker (3M Espe), or Calibra (Dentsply).

**Cementation:** Indicated for full coverage crowns only. Use self-adhesive resin cements or resin modified glass ionomer (expansion less than.5%) in situations where a conventional cement would normally be used, i.e., a retentive prep design, a high-strength restoration with adequate thickness, or a tight-fitting crown. Some recommended self-adhesive cements include RelyX Unicem (3M Espe), SpeedCEM (Ivolclar Vivadent), and GC Fuji Plus (GC America)

### ProLine

No matter the cosmetic challenges you have, the Proline Team at Pittman Dental Laboratory can help overcome them. Our Proline Technicians have both the experience and knowledge to create superior restorations that are unmatched in our industry. The Proline Team is composed of wax and metal design technicians and elite ceramists. They have completed extensive training in many of the industry's leading courses including Dawson and LVI. Regardless of the complexity of your case or esthetic demands The Proline Team has the training and artistic ability to create jaw-dropping results.

### Prettau® Bridge

The Prettau Implant Bridge is a major step forward in restorative dentistry. These dental bridges are supported by dental implants, which are artificial tooth roots that are surgically placed into the jawbone and gum tissue, allowing for incredibly secure hold. The artificial teeth are made from zirconia, which is an incredibly sturdy and natural-looking material. Being made of zirconia means no cracking, breakage, chipping or staining.

*Pittman Dental Laboratory also offers a range of Porcelain Fused to Metal and Full Cast Crown that includes non-precious, semi-precious, Noble Alloy, White Gold, and Yellow Gold materials.*