

*GT*<sup>®</sup> POST SYSTEM



Strength That Performs Like A Custom Fit.

# Two Reliable Posts That Match the GT® Family – And Your High Standards.

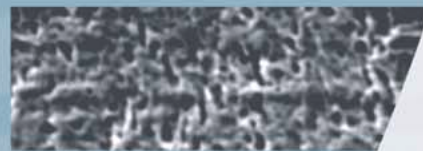
Designed by Dr. L. Stephen Buchanan, the trusted GT family of products delivers reliable, consistent performance with the added efficiency of a well-designed system of matching components. GT Posts fit into this system and your endodontic cases beautifully and precisely.

Available in both fiber and acid-etched stainless steel, GT Posts match the size and color of GT Rotary Files, GT Obturators and GT Post Drills. No matter which GT Post you choose for your particular cases, you'll have the right size – made easy.

## GT STAINLESS STEEL POSTS. Superior Bonding.

Like GT Fiber Posts, GT Posts feature a passive, parallel design that creates less stress on roots than tapered posts.<sup>1</sup> Passive posts also create less stress on roots than “active” or threaded posts.<sup>2</sup> Less stress means less chance of root fracture.<sup>3</sup> In addition, GT Posts are acid etched to create a roughened, porous surface, forming more actual surface area for bonding. Etched posts are better retained than non-etched posts.<sup>4</sup> Even the coronal ends of GT Posts are acid etched for enhanced, mechanical retention to the core build-up material.

GT Post acid-etched surface, magnified X 1500. Crevices roughen the surface creating more actual surface area to be bonded.



Ordinary, machined post surface magnified X 1500. It is difficult for the luting agent to bond to the non-roughened surface.



## GT FIBER POSTS. Translucent Strength.

GT Fiber Posts bring advanced post technology to light – starting with greater translucency for improved aesthetics and enhanced light transmission during curing. Their fiber-resin composition allows them to flex with the tooth and resist fracture, while their passive, parallel shape creates less stress on roots.

- Acid-etched surface to achieve better retention  
Stainless steel
- Passive, parallel shape creates less stress on roots
- 1mm coronal cylinder rings provide a cutting reference when the length must be shortened
- Sized to fit a canal shaped with ProFile® GT Rotary Files
- Color coordinated to match GT family products for convenient size selection
- Identified for predictable length verification
- 18 mm long: 6mm coronal portion and 12 mm apical portion

## Select the Right Post with Confidence, Every Time.

To learn more about the GT Post System or to schedule a clinical demonstration, call on the experts at Tulsa Dental Specialties.

The GT Post System. Posts that know the drill – and the shape of the canal – for efficient, consistent results.

# Two Reliable Posts That Match the GT® Family – And Your High Standards.

Designed by Dr. L. Stephen Buchanan, the trusted GT family of products delivers reliable, consistent performance with the added efficiency of a well-designed system of matching components. GT Posts fit into this system and your endodontic cases beautifully and precisely.

Available in both fiber and acid-etched stainless steel, GT Posts match the size and color of GT Rotary Files, GT Obturators and GT Post Drills. No matter which GT Post you choose for your particular cases, you'll have the right size – made easy.

## Posts That Know The Drill.

GT Post Drills feature quality stainless steel construction and a unique, patented eccentric cutting drill tip that efficiently removes filling material in canals obturated with gutta-percha or with plastic carriers, such as GT Obturators. They also include drill length indicators that give a visual reference of the depth being drilled in the canal. Their short, latch-grip handle allows good visibility into the canal.

## GT STAINLESS STEEL POSTS. Superior Bonding.

## GT FIBER POSTS. Translucent Strength.



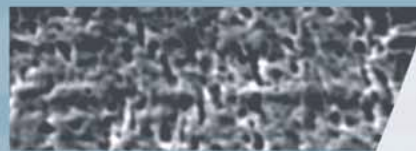
Like GT Fiber Posts, GT Posts feature a passive, parallel design that creates less stress on roots than tapered posts.<sup>1</sup> Passive posts also create less stress on roots than “active” or threaded posts.<sup>2</sup> Less stress means less chance of root fracture.<sup>3</sup> In addition, GT Posts are acid etched to create a roughened, porous surface, forming more actual surface area for bonding. Etched posts are better retained than non-etched posts.<sup>4</sup> Even the coronal ends of GT Posts are acid etched for enhanced, mechanical retention to the core build-up material.

- ▶ Acid-etched surface to achieve better retention  
Stainless steel
- ▶ Passive, parallel shape creates less stress on roots
- ▶ 1mm coronal cylinder rings provide a cutting reference when the length must be shortened
- ▶ Sized to fit a canal shaped with ProFile® GT Rotary Files
- ▶ Color coordinated to match GT family products for convenient size selection
- ▶ Identified for predictable length verification
- ▶ 18 mm long: 6mm coronal portion and 12 mm apical portion

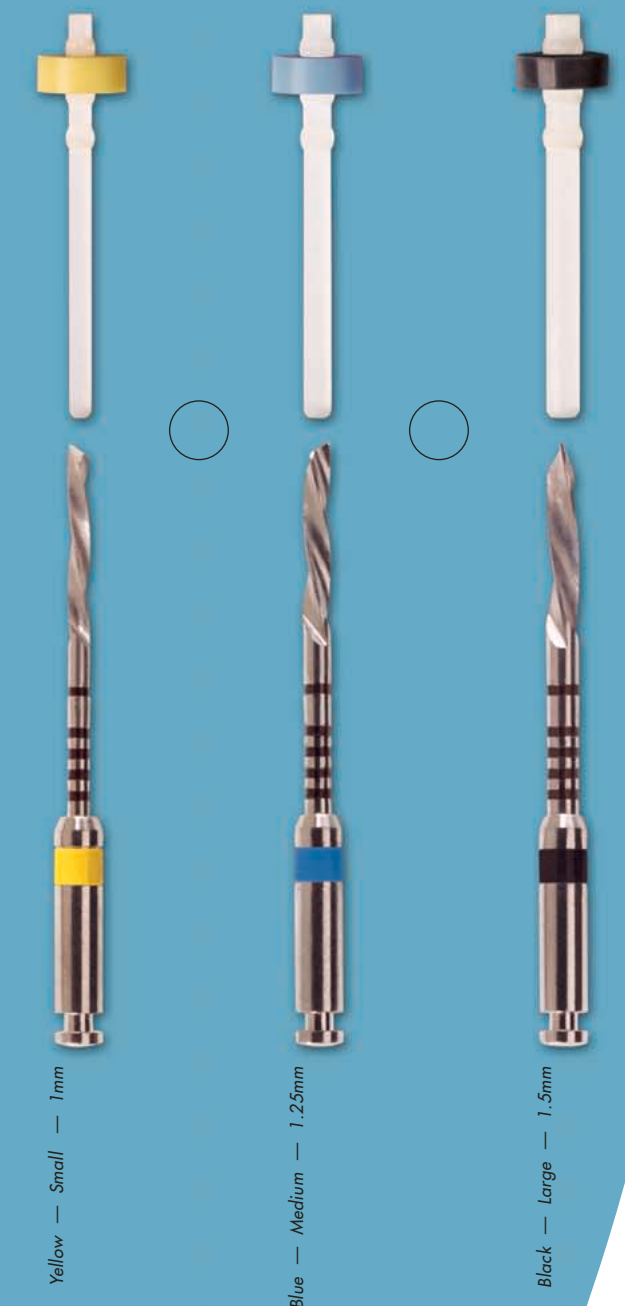
GT Fiber Posts bring advanced post technology to light – starting with greater translucency for improved aesthetics and enhanced light transmission during curing. Their fiber-resin composition allows them to flex with the tooth and resist fracture, while their passive, parallel shape creates less stress on roots.

- ▶ More translucent than metal posts for aesthetics and enhanced light transmission while curing
- ▶ High flexure strength
- ▶ More flexible than metal posts
- ▶ High resistance to fracture
- ▶ Passive, parallel shape creates less stress on roots
- ▶ Easily trimmed with 1mm coronal cylinder rings for reference
- ▶ Sized to fit a canal shaped with ProFile® GT Rotary Files
- ▶ Color coordinated to match GT family products for convenient size selection
- ▶ Identified for predictable length verification
- ▶ 18 mm long: 6 mm coronal portion and 12 mm apical portion

GT Post acid-etched surface, magnified X 1500. Crevices roughen the surface creating more actual surface area to be bonded.



Ordinary, machined post surface magnified X 1500. It is difficult for the luting agent to bond to the non-roughened surface.



# Sources.

- 1 Standlee JP, Caputo AA, Hanson EC. "Retention of endodontic dowels: effect of cement, dowel length, and design." *Journal of Prosthetic Dentistry*, 1978; 39: 401-405.
- 1 Leary JM, Aquilino SA, Svare CW. "An evaluation of post lengths within the elastic limits of dentin." *Journal of Prosthetic Dentistry*, 1987; 57: 277-281.
- 1 Johnson JK, Sakamura JS. "Dowel form and tensile force." *Journal of Prosthetic Dentistry*, 1978; 40: 645-649.
- 1,3 Cooney JP, Caputo AA, Trabert KC. "Retention and stress distribution of tapered-end endodontic posts." *Journal of Prosthetic Dentistry*, 1986; 55: 540-546.
- 1 Ross RS, Nicholls JI, Harrington GW. "A comparison of strains generated during placement of five endodontic posts." *Journal of Endodontics*, 1991; 17: 450-456.
- 1 Standlee JP, Caputo AA, Collard EW, Pollack MH. "Analysis of stress distribution by endodontic posts." *Oral Surgery*, 1972; 33: 952-960.
- 1 Standlee JP, Caputo AA, Holcomb JP. "The dentatus screw: comparative stress analysis with other endodontic dowels." *Journal of Oral Rehabilitation*, 1982; 9: 23-33.
- 2 Standlee JP, Caputo AA, Holcomb J, Trabert KC. "The retentive and stress-distributing properties of a threaded endodontic dowel." *Journal of Prosthetic Dentistry*, 1980; 4: 398-404.
- 2 Zmener O. "Adaptation of threaded dowels to dentin." *Journal of Prosthetic Dentistry*, 1980; 5: 530-535.
- 2,3 Sorensen JA, Engelman MJ. "Effect of post adaptation on fracture resistance of endodontically treated teeth." *Journal of Prosthetic Dentistry*, 1990; 64: 419-424.
- 4 Rosin, Fleissner, Welk, Steffen. "The influence of surface configuration on the retention of posts designed for use with a cast-on technique." *Quintessence International*, 2001; 32: 119-130.
- 4 Cohen BI, Musikant BL, Deutsch AS. "Comparison of retentive properties of four post systems." *Journal of Prosthetic Dentistry*, 1992, 68: 264-268.
- 4 Nergiz I, Schmage P, Platzer U, McMullan-Vogel CG. "Effect of different surface textures on retentive strength of tapered posts." *Journal of Prosthetic Dentistry*, 1997; 78: 451-457
- 4 Olio G, Jorgensen K. "The influence of surface roughness of the retentive ability of two dental luting cements." *Journal of Oral Rehabilitation*, 1978; 5: 377-389.

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