



A pioneer in endodontic rehabilitation

Established in 1968 by Dr. Marc Reynaud, RTD developed and commercialised the fibre post and is the worldwide leader in this field. RTD is certified ISO 9001 / ISO 13485, employs engineers, technicians and chemists, and is also protected by numerous patents.

From our facilities in the "high-tech corridor" of Grenoble, France, over 95% of RTD's production is exported to over 70 countries, and enjoys market leadership in most of those countries.

RTD posts have been independently tested and described in the dental literature over 75 times, and are used and taught in dental schools on every continent.

Patents :
 EP 1 115 349 & EP 0 432 001
 US 5 328 372 & US 5 890 904
 And patents pending

Secure, pharmaceutical-style packaging protects posts from debris & contamination.

D.T. LIGHT-POST®



Removable in minutes with reaccess kit D.T. Carbide



For a first use
Intro kit with 20 posts + drills

For refills
Blister pack of 10 posts of same size



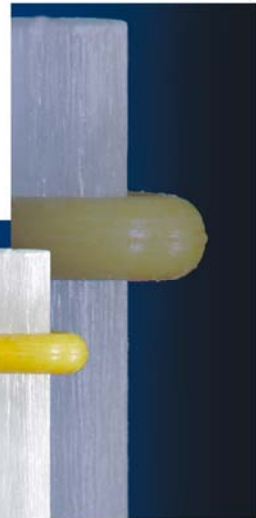
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Photos : H. Martin



Translucent quartz fiber

DOUBLE-TAPER FIBER POST

The first post designed by the tooth

- RADIOPAQUE
- RELIABLE
- AESTHETIC
- EASY TO USE



D.T. LIGHT-POST®

- Flexural strength : 1600 MPa
- Interlaminar shearing strength : 65 MPa
- Elastic modulus (30°) : 13 GPa

An advanced material

No clinical root fractures, due to elastic modulus close to dentin 1, 2, 3

High strength and fatigue resistance, provide durability

Translucency provides esthetics and light transmission 6, 7

Corrosion-free and radiopaque for easy diagnostics

Superior fracture resistance 9

Advanced Design

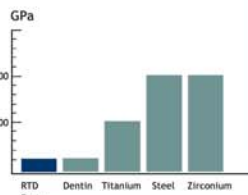
Ideal double tapered design means optimal adaptation, conservative preparation 10, 11, 12

Retention equal to, or better than, metal and other fiber posts 13, 14, 15, 16

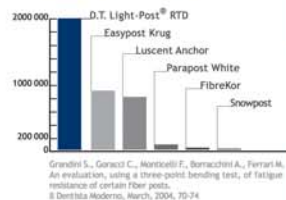
Performance is proven in clinical trials 17, 18, 19

Atraumatically removable in minutes

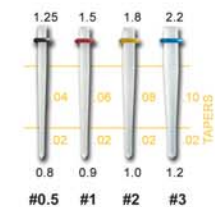
Low Elastic Modulus (Angle=30°)



Cyclic fatigue test



Grandini S., Goracci C., Monticelli F., Bernasconi A., Ferrari M. An evaluation, using a three-point bending test, of fatigue resistance of certain fiber posts. II Dentista Moderno, March, 2004, 70-74



Developed at University of Montreal, this is the first post to adapt to the treated canal, rather than the reverse. These tapers and diameters are derived from thousands of measurements of hundreds of endodontically treated teeth.

- No taper for stronger core
- Variable coronal taper for superior post adaptation
- Conservative apical 0.02 taper

CLINICAL CASE

Courtesy of Dr Duret



A caring, complete control of the process:



1. Fabrication process



2. Analysis degree of conversion



3. Flexural strength test



4. Shear Strength test



5. Computer driven grinding



6. Tolerance scanning



7. Fatigue Testing



8. User-friendly package design

from the manufacturing of the raw material to the final grinding of the post.

RTD is the originator of the fibre reinforced endodontic post. Over nearly 40 years' time, we have developed and adapted innovative materials, equipment and techniques for design, production, processing and testing of the products.

RTD is highly automated and uses computer-driven technology to maintain full in-house control over raw materials, degree of polymerisation, mechanical properties and dimensional tolerances- to name a few- on ALL our posts.

All of this helps provide RTD, ours distributors, dentist customers and patients a great peace of mind, and expectations of long-term clinical success.

"D.T. Light-Post® Studies

1. Ciliares, L., Ferracane, A., Sanchez, A. and Pavlin, P. Stress Distribution Surrounding Five Endodontic Posts. J Dent Res. Vol 83 (Spec. Iss. A) Abstract #0842. Ciliares, L., Ferracane, A., Petracic, E., et al. Photoacoustic stress distribution for four endodontic post systems. J Dent Res. Vol 84 (Spec. Iss. A) Abstract #2934. 2005. 3. Skizani, F., Makhadmeh, M. In-vivo study of different reinforcement methods of anterior scalloped teeth. J Dent Res. Vol 84 (Spec. Iss. A) Abstract #1722. 2005. 4. Galbraith, G.A., Valandro, L.F., de Melo, R., Scotti, R., Bertino, M.A. Evaluation of the flexural strength of carbon fiber, quartz fiber and glass fiber - based posts. J Endod. Vol 31, No. 3, March 2005, 209-213. 5. Grandini, S., Goracci, C., Monticelli, F., Bernasconi, A., Ferrari, M. An evaluation, using a three-point bending test, of the fatigue resistance of certain fiber posts. II Dentista Moderno, March, 2004, 70-74. 6. Bassi, M. Light diffusion through double upper quartz-repore fiber posts. Proceedings from the 5th International Symposium, 21-26, 2001. 7. Sawada, N., Hasegawa, S., Sakaguchi, K. Shape of composite resin photopolymerized by the translucent post. J Dent Res (Special Issue) #2595. 2002. 8. Dierig, D., Heeven, T., Bessone, J., Wierms, R. Radiopacity of luting cements and endodontic posts. J Dent Res. Vol 81 (Spec. Iss. A) Abstract #0675. 2002. 9. Akkay, B., Gulmez, T. Resistance to fracture of endodontically treated teeth removed with different post systems. J Prosthet Dent 2002; 87:431-10. 10. Boudrian, E., Sakal, S., Yulian, Anatomical Post Design Applied to Quartz Fiber Posts Technology: A Conservative Approach. Oral Health, Nov., 2001. 9-10. 11. Bakhshian, F., Farnik, C., Zaccari, F. and L. Ciccia. Establishing an Improved Fiber Post Shape Using a 3-D Analysis. J Dent Res. Vol 81 (Spec. Iss. A) Abstract #0535. 2002. 12. Boudrian, E., Sakal, S., and Petrucci, Y. Anatomical post design meets quartz fiber technology: Rationale and case report. Compendium. 22: 337-348, 2001. 13. Quilley, A., Chandler, N., Purvis, D. A comparison of the retention of tooth-colored posts. Quintessence Int 2003; 34:199-201. 14. Gerbarg, C.R., K. Bekas, K., Schuller, H.G. Effect of Different Fiber Post Diameters on Retentive Strength. J Dent Res (Special Issue A) #1386. 2006. 15. Bakhshian, F., Zaccari, F., Mollini, D., Marano, C. Effect of endodontic treatment on fatigue resistance of fiber post bonding. J Dent Res. Vol 82 (ADJOP Special Issue A) Abstract #2565. 2003. 16. Bakhshian, F., Purvi, J., Arvidsson, A. Fatigue resistance of fiber posts: a comparative study. J Dent Res. 80 (ADJOP Special Issue A) Abstract #1434. 2001. 17. Monticelli, F., Grandini, S., Goracci, C., Ferrari, M. Clinical behavior of translucent fiber posts: a 2-year prospective study. Int. J. Prosthodont 2003; 16: 393-396. 18. Grandini, S., Goracci, C., Tay, F., Grandini, R., Ferrari, M. Clinical Evaluation of the Use of Fiber Posts and Direct Resin Restorations for Endodontically Treated Teeth Int J Prosthodont 2005; 18:399-404. 19. Muller, S., Bakhshian, F., Arvidsson, A. Translucent Quartz Fiber Posts: a 20 Month In vivo Study. J Dent Res. 81 (ADJOP Special Issue A) Abstract #0656. 2002.