

RTD

Recherches Techniques Dentaires

PRODUCT PORTFOLIO
2026



Product portfolio

Product Portfolio

FIBER-REINFORCED ENDODONTIC POSTS

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- DT Light Illusion X-RO
- Macro-Lock
- Macro-Lock Illusion X-RO
- Macro-Lock Oval

RESTORATIVE DUAL-CURE CEMENT & COMPOSITE

- Corecem

REINFORCEMENT SPLINTING MATERIALS

- Quartz Splint Uni-Directional
- Quartz Splint Woven
- Quartz Splint Mesh
- Quartz Splint Resin



FIBER-REINFORCED ENDODONTIC POSTS

Matchpost

Main features

Matchpost is a line of fiber posts designed for the **value market segment**.

- Parallel coronal section to assure greater strength in the critical cervical area;
- Rough surface studied for an improved bonding and long-term retention;
- Neutral shade to allow a better light transmission;
- Radiopacity (ISO 4049) at 200% Al;
- Elastic Modulus of 13GPa;
- Available in 4 sizes (diameter/length);
- Complemented by a dedicated set of drills.



Matchpost

Product design

SIZE	1.0	1.2	1.4	1.6
Coronal Ø mm	1.02	1.22	1.42	1.62
				
Apical Ø mm	0.58	0.68	0.77	0.86



Matchpost

Product pack



DT Light & DT Light Illusion X-RO

DT Light is a line of fiber posts designed for the medium and the **mid-premium market segments**. In the market since more than 20 years, is subject of over 130 published studies and long-term clinical trials.

The patented **ILLUSION X-RO** technology grants an augmented radiopacity and facilitates the identification of the post in case of retreatments thanks to the color-changing properties.



DT Light & DT Light Illusion X-RO

Main features

- Elastic Modulus close to dentin (15GPa) for a mechanical compatibility with the tooth structure and for the prevention of root fractures;
- Parallel coronal section to assure greater strength in the critical cervical area;
- Two apical tapers based on scientific anatomical measurements;
- Rough surface studied for an improved bonding and long-term retention;
- Radiopacity (ISO 4049) up to 340% Al to facilitate the X-Ray detection;
- Available in 4 sizes (diameter/length) and complemented by a dedicated set of drills.



Product design

SIZE	0.5	1	2	3
Coronal Ø mm	1.25	1.40	1.80	2.20
The diagram illustrates the four sizes of the Endo-Anchor (0.5, 1, 2, 3) alongside a 20 mm scale bar. Each anchor consists of a white, tapered body and a colored, flared coronal part. The coronal parts are black for size 0.5, red for size 1, yellow for size 2, and blue for size 3. The anchors are shown in a row, with the 20 mm scale bar to the left of the size 0.5 anchor.				
Apical Ø mm	0.8	0.9	1.0	1.2

DT Light Illusion X-RO

Product design

SIZE	0.5	1	2	3
Coronal Ø mm	1.25	1.40	1.80	2.20
				
Apical Ø mm	0.8	0.9	1.0	1.2



DT Light & DT Light Illusion X-RO

Product pack



Macro-Lock & Macro-Lock Illusion X-RO

Macro- Lock is a line of fiber posts designed for the **premium market segment**.

Thanks to the macro serrations and the anti-rotation features increases the retentive action and maximizes the connection to the resin-cement.

The patented **ILLUSION X-RO** technology grants an augmented radiopacity and facilitates the identification of the post in case of retreatments thanks to the color-changing properties.



Macro-Lock & Macro-Lock Illusion X-RO

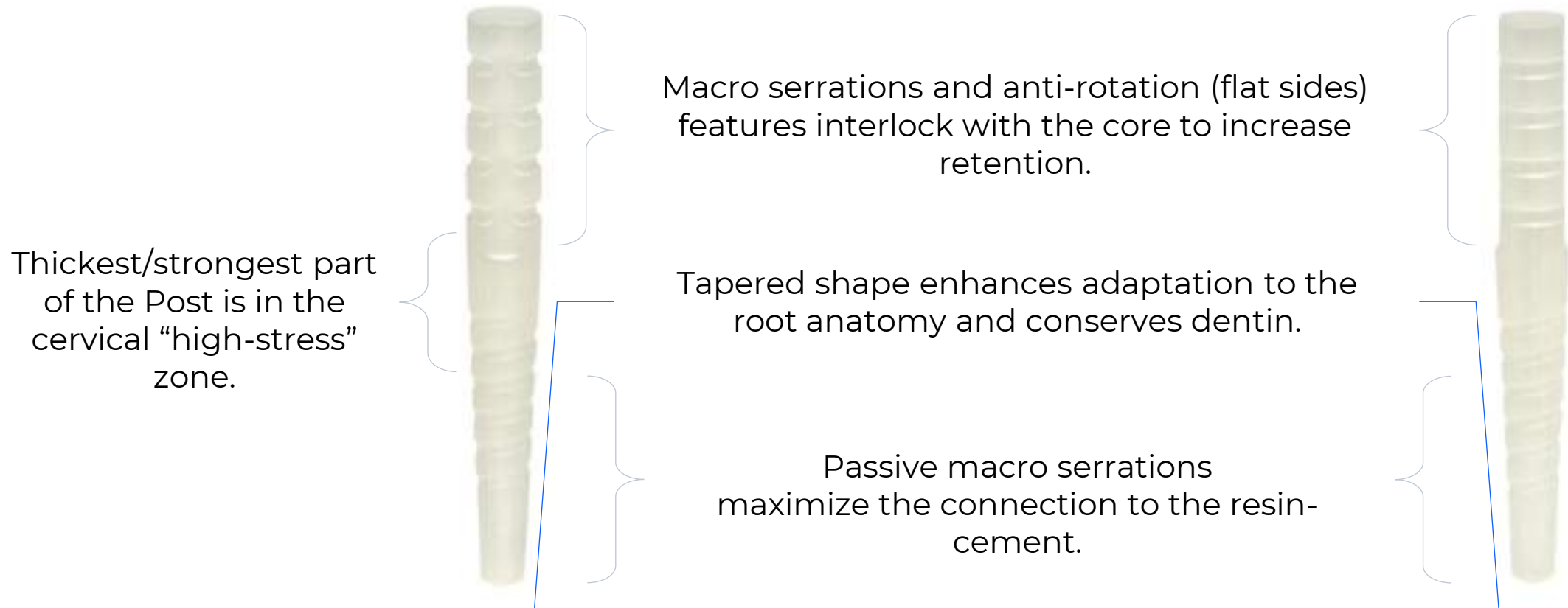
Main features

- Elastic Modulus close to dentin (15GPa) for a mechanical compatibility with the tooth structure and for the prevention of root fractures;
- Flat sides in coronal section to prevent a possible core rotation;
- Rough surface studied for an improved bonding and long-term retention;
- Radiopacity up to 340% Al to facilitate the X-Ray detection;
- Available in 6 sizes (diameter/length);
- Complemented by a dedicated set of drills.



Macro-Lock & Macro-Lock Illusion X-RO

Product design



Macro-Lock

Product design

SIZE	1	2	3	4
Coronal Ø mm	1.35	1.45	1.65	1.85
17.5 mm 				
Apical Ø mm	0.8	0.8	1.0	1.0



Macro-Lock Illusion X-RO

Product design

SIZE	1	2	3	4	5	6
Coronal Ø mm	1.35	1.45	1.65	1.85	2.05	2.20
						
Apical Ø mm	0.8	0.8	1.0	1.0	1.3	1.3



Macro-Lock & Macro-Lock Illusion X-RO

Product pack



Macro-Lock Oval

Macro-Lock Oval is an extension of the Macro-Lock fiber posts line, presenting an oval coronal section. It is suggested for the endodontic treatments and retreatments bringing to an over-prepared tooth. Its particular shape helps to reduce the amount of filling cement, replacing it with a high-performance fiber-reinforced composite.

The patented **ILLUSION X-RO** technology grants an augmented radiopacity and facilitates the identification of the post in case of retreatments thanks to the color-changing properties.



Macro-Lock Oval

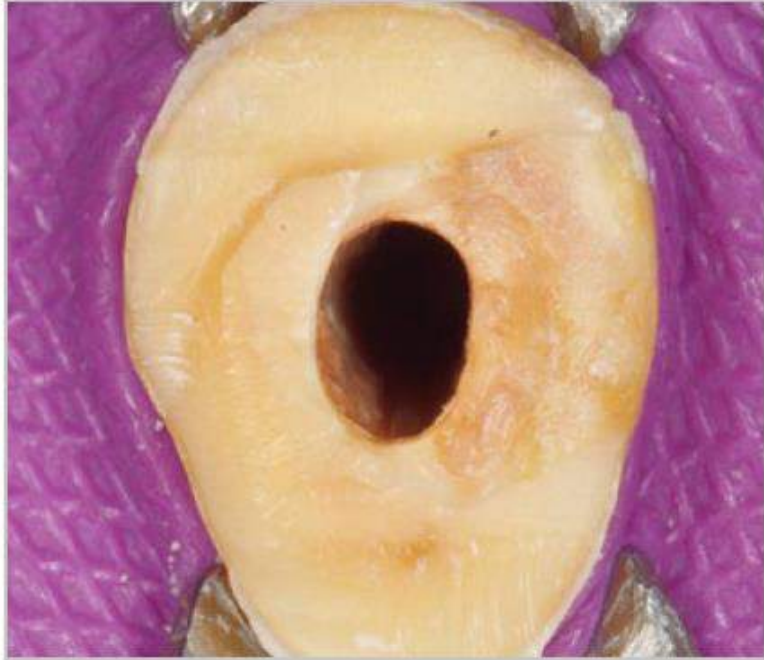
Main features

- Elastic Modulus close to dentin (15GPa) for a mechanical compatibility with the tooth structure and for the prevention of root fractures;
- Macro serrations to increase the retentive action;
- Rough surface studied for excellent bonding and long-term retention;
- Radiopacity up to 340% Al to facilitate the X-Ray detection;
- Available in 4 sizes (diameter/length);
- Complemented by a dedicated set of drills.

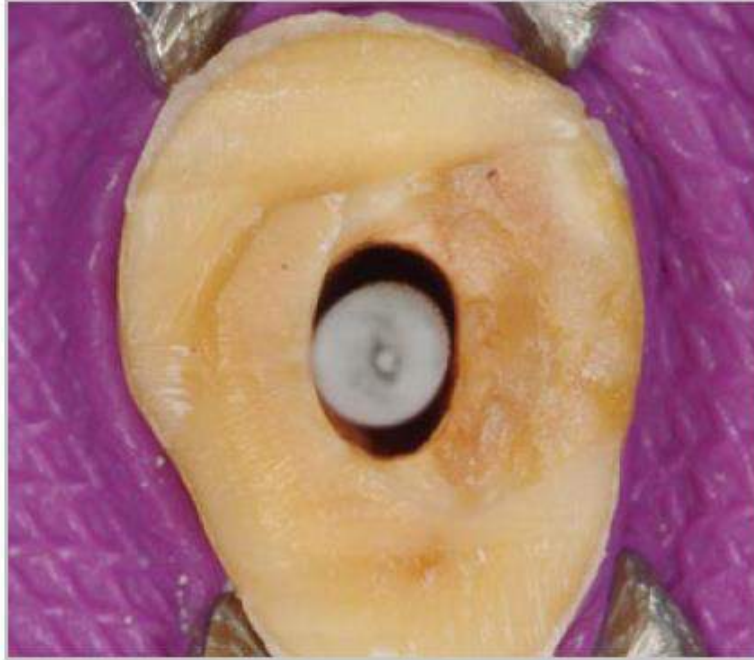


Macro-Lock Oval

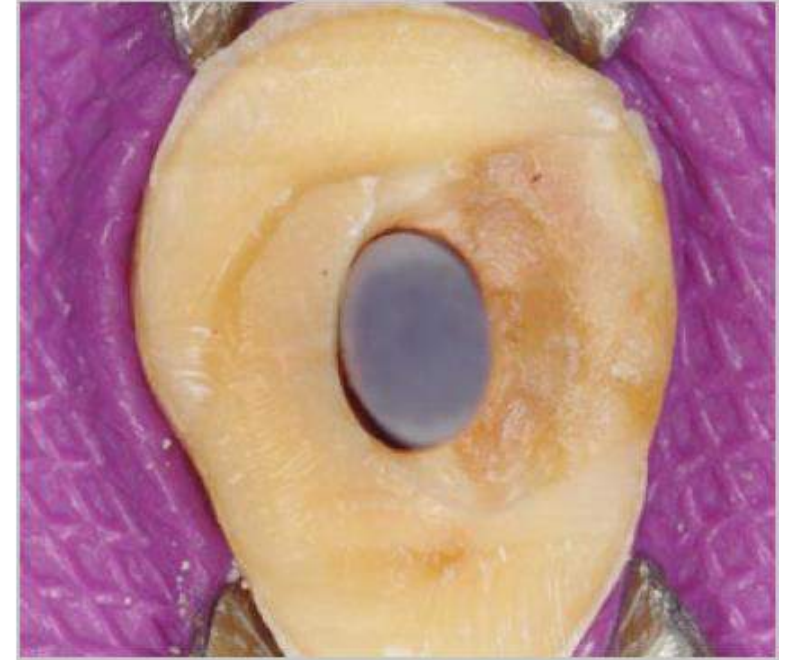
Clinical application*



MOST CANALS ARE OVAL



ROUND POST IN OVAL SPACE



MACRO-LOCK OVAL

**Courtesy of Prof. Alejandro Bertoldi Hepburn (Argentina)*

Macro-Lock Oval

Product design

SIZE	1	2	3	4
Coronal Ø mm	2.17	2.29	2.49	2.65
18 mm				
Apical Ø mm	0.8	0.8	1.0	1.0



Macro-Lock Oval

Product pack



RESTORATIVE DUAL-CURE CEMENT & COMPOSITE

Corecem

Corecem is a dual-cure flowable hybrid composite for cementation of fiber posts & core build-up. A 2in1 material allowing to eliminate one adhesive interface and facilitating a durable “monobloc” restoration.

- Formulated to grant high radiopacity (400% Al) and mechanical properties for long-term durability;
- Compatible with the most common bonding agents in the market;
(Recently tested compatibility with: PRIME&BOND from Dentsply Sirona; ONE STEP / ONE STEP PLUS from BISCO; SCOTCHBOND from 3M)
- Available in 9gr syringes mini-mix cartridges.



Corecem

A1 shade



- Ideal handling, do not slump
- Cuts like dentin



REINFORCEMENT SPLINTING MATERIALS

Quartz Splint

Quartz Splint is a range of pre-wetted reinforcement quartz fibers. The line is made of 3 different splinting materials: **WOVEN**, **UNI-DIRECTIONAL** and **MESH**. Also available the light-cured methacrylic **RESIN** refill in syringes of 1,5gr.

The most common applications of this line in the dental practice or laboratory are:

- Stabilization of mobile teeth due to trauma or gum disease/bone loss;
- Post-orthodontic retention;
- Support for missing teeth replacement;
- Reinforcement of composite or acrylic bridgework;
- Reinforcement and repairing of acrylic prosthesis.



Quartz Splint

Product pack



WOVEN



UNI-DIRECTIONAL



MESH



RESIN

Thank you

