UniCore™ Post & Drill System

Product Description
UniCore™ Drills and Posts:
The UniCore™ Post and Drill System consists of a radiopaque, fiber post for restoring endodontically treated teeth and a durable drill specifically designed to prepare post spaces in root canals. The post and drill are designed to work together to create a precise post space using a controlled "reverse-tip" rotation around the core material in a shaped canal. The UniCore™ Drills are unique in their ability to remove non-metallic rigid carrier-based obturation materials (See Section B) as well as remove existing fiber posts (See Section C) while simultaneously preparing a post space.
UniCore™ Accessory Posts:
UniCore™ Accessory Posts are a dry quartz fiber translucent accessory post

Post #	Post apical diameter	Post Coronal Diameter	Drill Speed	Color
0	0.62mm	1.00mm	20,000 RPM	Yellow
1	0.79mm	1.56mm	20,000 RPM	Red
2	0.98mm	1.36mm	20,000 RPM	Red
3	1.17mm	1.56mm	20,000 RPM	Blue
4	1.50mm	1.76mm	5000 RPM	Green

For all products described, carefully read and understand all instructions and SDS information prior to use.

Indications for Use
UniCore™ Posts and Drills are offered in stand-alone refill configurations. They are also available in kit configurations including posts and drills in the same package.

Contraindications
- DO NOT use the UniCore™ Drill to remove an existing metal post.
- DO NOT use the UniCore™ Post and Drill system on a compromised or infected tooth.
- DO NOT use the UniCore™ Size 0 Drill for the removal of existing fiber posts.

Warnings and Precautions
- UniCore™ Drills do not bend and are only intended to prepare post space, remove obturation material or fiber posts from root canals in a controlled manner.
- The UniCore™ Accessory Post is NOT designed to be used without a matching fiber post.
- DO NOT stop the drill at any time while entering or withdrawing it from the tooth.
- DO NOT substitute any other drill bits for the UniCore™ Drills as they are specifically designed for this procedure.
- When adjusting the post to length, only remove portions of the coronal end using a diamond disc or diamond bur.
- Do not use the UniCore™ Drills in a reciprocating or "pecking" motion.
- Do not use the UniCore™ Drills at speeds up to 15 thousand revolutions per minute (rpm) on fiber post, gutta percha, or composite from canals as part of fiber post procedure.
- UniCore™ Drills may be used up to 3 times prior to replacement. Do not use UniCore™ Drills beyond this point.
- UniCore™ Drills must be sterilized prior to every use. DO NOT dry-heat sterilize.
- DO NOT use the UniCore™ Drills with Endodontic Accessory Posts (Only UNICORE™ Accessory Posts).
- Always handle posts with forceps or clean gloved hands.

Stepwise Instructions
Section A: Post Space Preparation and Placement
Preparation
1. Determine post size by using the endodontic post-operative radiograph.
2. Rubber dam isolation is recommended.
3. Use a small round bur to remove coronal obturation material down to the canal orifice and to provide a guide (or pilot hole) for the UniCore™ Drill.
4. Place a rubber stop on the UniCore™ Drill at desired length based on radiograph.

Use
- At 20,000 RPM, insert UniCore™ Drill Size 0 at 300 RPM, gently ease into the pilot hole. Using light pressure, follow the obturation material to desired length at the rubber stop. Withdraw drill from the canal, keeping at full speed to avoid disruption of the fiber post or gutta percha.
- Verify post space by placing the same size UniCore™ Post as the UniCore™ Drill used and seat to length.
- If post is too loose, repeat procedure with next larger size drill.
- Wipe the post clean with alcohol.
- Etch the preparation. Use a bonding system that is compatible with dual-cure resin cements. Apply according to the manufacturer's instructions. Light cure the bonding agent. Dual-cure self-etching or self-adhesive cements are recommended for bonding.
- Inject a dual-cure cement into the preparation. Start injecting from the bottom of the preparation while progressing upward. Keep the tip of the syringe below the surface of the cement to avoid bubbles.
- Immediately seat the post with firm, even pressure. Remove excess cement with a moistened cotton pellet. Hold post in place until cement has sufficiently hardened. Follow the cement manufacturer's instructions for the preparation to begin the core build up.
- For large post and core preparations, UniCore™ Accessory Posts are required to fill the gapes between the master UniCore™ Post and the dentinal walls before cement begins to set.
- Light cure the exposed portions of the UniCore™ Post for 20 seconds per side. Cure for 40 seconds. A focusing tip on the light guide will help concentrate energy down the post(s).
- Begin core build-up immediately.

Section B: Removal of Non-Metallic Rigid Carrier-Based Obturators or Gutta Percha for Post Placement
Preparation
1. Determine post size by using the endodontic post-operative radiograph.
2. Rubber dam isolation is recommended.
3. Use a round bur to remove coronal obturation material down to canal orifice and to provide a guide (or pilot hole) for the UniCore™ Drill.

Use
- Start with the largest UniCore™ Drill that will enter the filled canal without engaging peripheral dentin.
- Place the drill at the center of the gutta percha with the drill spinning counter clockwise (CCW) at 300 RPM. Drill Size 4 at 5,000 RPM). After a few seconds, the heat generating tip will begin to soften the carrier. Proceed down the canal until the drill engages the dentin wall. Allow the drill to remove the softened carrier. Do not force the drill.
- Select the next smaller size UniCore™ Drill and repeat the process until the desired post space is prepared.
- Remove more of the non-metallic rigid carrier until the drill engages the dentin wall.
- A radiographic check is the best method to verify the amount of remaining obturation material. Large longitudinal voids in the carrier UniCore™ Drill until the desired depth is achieved.
- The last drill used is the removal procedure will be the proper size post to be bonded into the canal.
- Seal with cement.

Section C: Removal of a Fiber Post
Preparation
1. Rubber dam isolation is recommended.
2. Use a round bur to remove the existing post then cut the surface flush with a diamond bur. Shortening the post will make it easier to remove. Carefully clean the post surface with alcohol. Do not use any silicon based lubricants.

Use
- Use a round bur to create a pilot hole in the center of the post. This pilot hole will prevent the drill from sliding off the post surface.
- Place a rubber stop on UniCore™ Drill Size 0 at the appropriate length. Drill the post using the UniCore™ Drill Size 0 at 300 RPM. Follow the post-operative radiograph.
- Place the #1 UniCore™ Drill into the pilot hole. Begin bur rotation at 20,000 RPM and begin pushing into the post. After 10-15 seconds, the heat-generating tip of the drill should begin to create fitting from posts. Continue to follow the post contour with the UniCore™ Drill Size 0 at 20,000 RPM. When the end of the post is reached, the drill will begin to drop through into the soft gutta percha.
- Continue increasing the size of the UniCore™ Drill until the UniCore™ Drill is surrounded by cement and dentin. It will feel softer than the post. Confirm with a radiograph.
- Remove endodontic material.

Cleanup
- Remove UniCore™ Drill for re-use see processing instructions.

Precautions
NOTE: processing steps are for drills only.

Cleaning & Sterilization Processing Instructions

Verarbeitungsanleitung Reinigung und Sterilisierung	
Entfernung von Zement und Verschmutzungen	Vor jeder Verwendung ist eine gründliche Reinigung erforderlich. Entfernen Sie Reinigungsrückstände, wie jedoch Gerätschaft so einer Sterilisation erforderlich.
Reinigung	Instrument vor Wiederaufbereitung mit dem unten aufgeführten Reinigungsgerät reinigen.
Reinigungsmittel	Reinigungsmittel: Henry Schein Abbentensiegel oder gleichwertiges Produkt.
Reinigungsgerät	Ultraschallreinigungsgerät 3 Haas Veiler gleicher Ø identisch gemäßen 2 minutes.
Auspacken	Sauber und Gebrauchsfertig.
Trocknen	Vor Gase trocknen. Verwenden Sie Luft oder Luft trocknen lassen.
Instandhaltung, Inspection und Wartung	Sorgfältige durchführen, dass das Instrument nicht verbogen, schadhaft sowie frei von Ablagerungen ist. Wenn Schmutz vorhanden ist, der Reinigungsvorgang wiederholen.
Verpackung	Legen Sie das ausgewählte Sterilisiergut in die Sterilisierbehälter entsprechend (ISO/TR/ 4 ISO 9001).
Sterilisierung	Sterilisierungsverfahren: Autoklavieren unter Sattdampf Verwenden Sie Dampf mit mindestens 134°C.

Sterilisierung	Sterilisierungsverfahren	Mindestzeit Einwirkungszeit bei Temperatur	Mindestzeit für die Trocknung
	Vorvakuum	3 Min. 132°C (270°F)	20 Min.
	Schwerkraft	15 Min. 132°C (270°F)	20 Min.

Sterilisieren Sie den Sterilisiergut.
Lagerung: Bewahren Sie das Gerät für zur Verwendung in einer sterilisierten Verpackung auf.
Instandhaltung: Wartung Sie das Gerät nicht.
Instandhaltung: Exercise the instrument to ensure it is not damaged, bent or worn. If any damage is found, do not use the instrument. Check your instrument for any damage before each use. Discard damaged instruments.

Lagerung und Entsorgung
Vor jedem Gebrauch sind die Instrumente sorgfältig zu reinigen und zu sterilisieren. Die Instrumente müssen in einem geeigneten Behälter sterilisiert werden

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Gaminio aprašymas
UniCore™ grąžtai ir kaištai:
„UniCore™" kaištai ir grąžtai sistemai sudaro spindulinės nepralaidžios stiklo pluošto kaištas, skirtas endodontiškai gydytiems dantims atstatyti, ir pafaunas grąžtas, skirtas kanalo(-ų) paruošimui po kaištais. Grąžtai ir kaištai pagaminti iš tos pačios medžiagos, todėl jie gerai tarpusavyje suderinti, endodontiškai gydytiems dantims atstatyti, ir pafaunas grąžtas, skirtas kanalo(-ų) paruošimui po kaištais. Grąžtai ir kaištai pagaminti iš tos pačios medžiagos, todėl jie gerai tarpusavyje suderinti, endodontiškai gydytiems dantims atstatyti, ir pafaunas grąžtas, skirtas kanalo(-ų) paruošimui po kaištais. Grąžtai ir kaištai yra unikalios tos, kad su jais galima tai pačiai medžiagai ir tam pačiam kiekiui jėgos taikyti tiek kaištui, tiek ir pafaunui grąžtui. Kaištas ir pafaunas grąžtas