

# ESX<sup>®</sup>

SO SOPHISTICATED  
IT'S SIMPLE.<sup>™</sup>



By Your Side  
in Dentistry



**BRASSLER USA<sup>®</sup>**  
DENTAL INSTRUMENTATION



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In Canada call 800.363.3838 or fax 866.330.4454.  
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# THE PATENTED ESX® FILE DESIGN\*

## THE PATENTED ACP™ (ALTERNATING CONTACT POINT) DESIGN

- Efficiently cleans 3 dimensionally as the sharp cutting edges engage with the canal walls at opposing intervals.
- Asymmetrical flute design alternates between zero to three points of engagement.
- Moves debris coronally in a wave-like fashion.
- Allows the ESX to operate at a low torque setting and higher speed, thereby reducing stress on the file and root.

## TRIANGULAR CROSS SECTION

- Allows for sharper cutting edges and a larger chip space for enhanced debris removal.
- Asymmetrical rotary motion removes debris coronally.

## PROPRIETARY ELECTROPOLISHED FINISH

- Brasseler files are the only files in North America that are electropolished. This proprietary surface treatment improves resistance to cyclic and torsional fatigue.\*\*

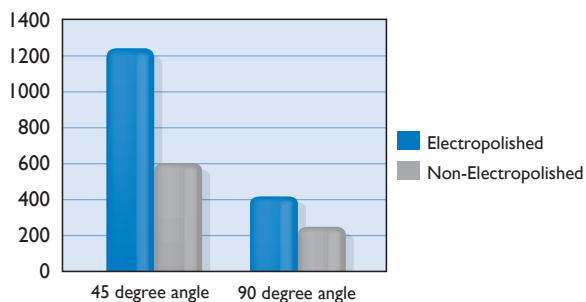


ESX® Electropolished



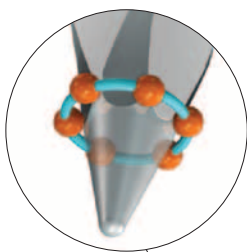
Vortex® Non-Electropolished

## Rotation-to-Fracture for Electropolished and Nonelectropolished Instruments †



## PATENTED BOOSTERTIP

- Maximizes safety and efficiency
- 6 cutting edges smoothly transition to a true reamer design
- Anti-ledging and anti-perforating patented centering mechanism
- Allows for fewer instruments and larger diameter increases
- Like having two files in one!



**STERILE R**

ESX® instruments are provided in individually perforated sterile blister packs.

\* Patent pending N BR-11655CH

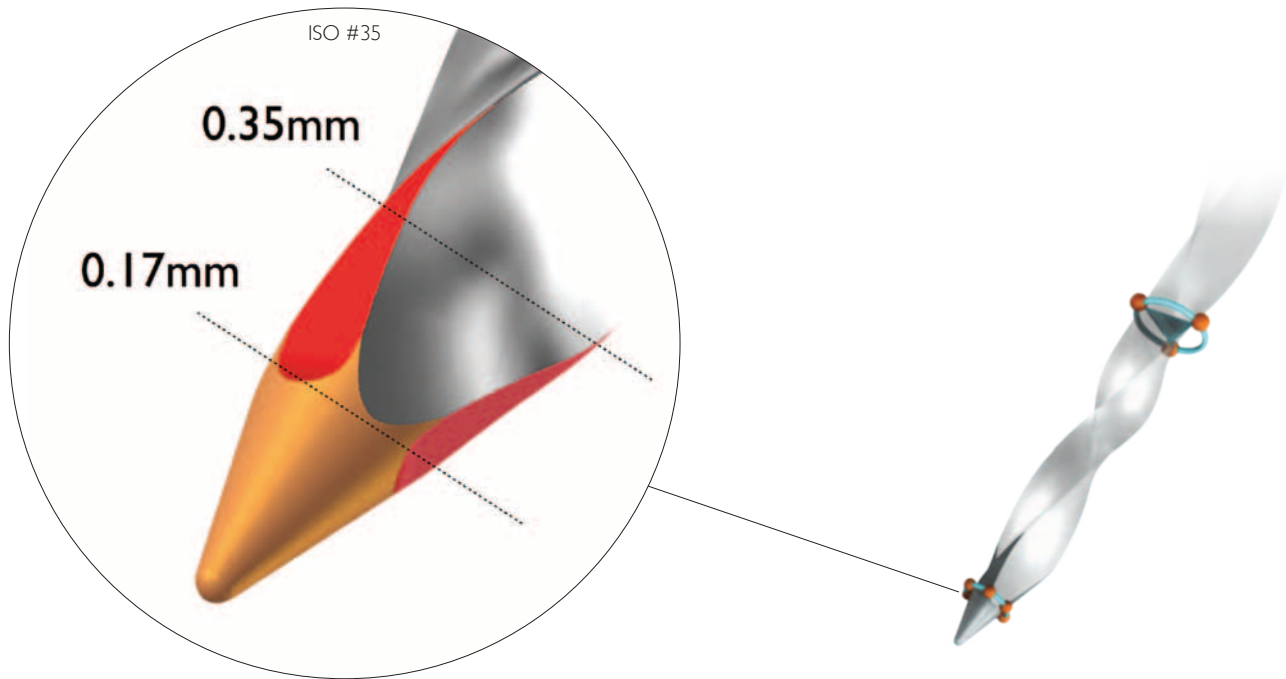
\*\* Electropolishing:

† Anderson M, Price J, Parashos P. Fracture Resistance of Electropolished Rotary Nickel-Titanium Endodontic Instruments. *Journal of Endodontics*, 2007; 33, 1212-1216.

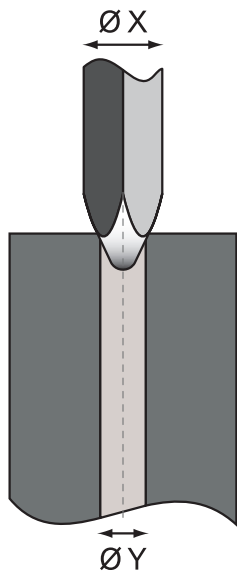
Bonaccorso A, Trip TR et al. Pitting Corrosion Resistance of Nickel-Titanium Rotary Instruments with Different Surface Treatments in Seventeen Percent Ethylenediaminetetraacetic Acid and Sodium Chloride Solutions. *JOE* 2008; 34: 208-211.

## A CLOSER LOOK AT THE PATENTED BT TIP™

The BT Tip™ (booster tip) allows for stress free apical progression and clearing of debris while respecting even the most challenging canal anatomy. The patented BT Tip™ features 6 cutting edges, for increased cutting efficiency. This revolutionary design allows for the use of fewer instruments per treatment.

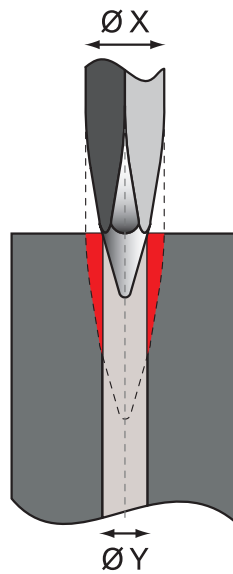


The BT Tip™ allows an ESX® file of any diameter to follow the shape of a canal that has an established #15/.05 glidepath. For this reason, the ESX® Expeditor is an ISO #15/.05 instrument.



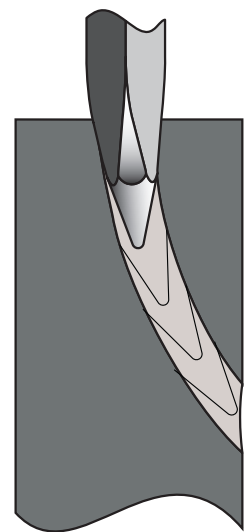
### 1. Normal tip in a canal

The diameter X file cannot progress easily in the canal. It would be necessary to first use a smaller size file or one closer to Y.



### 2. BT Tip™ in the same canal

Due to the BT Tip™, the diameter X file can progress effortlessly into a diameter Y canal.



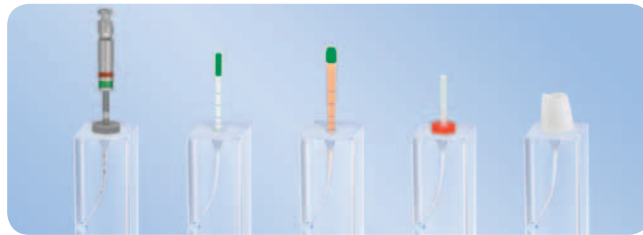
### 3. Path of the safety tip

Unique safety tip provides precision guidance and centering of instruments.

# ESX<sup>®</sup> IS MINIMALLY INVASIVE AND FULLY SYNCHRONIZED FROM INSTRUMENTATION THROUGH OBTURATION AND POST PLACEMENT!

## ESX<sup>®</sup> PHILOSOPHY:

- The restoration of an endodontically treated tooth begins at the apex.
- The cleaning and shaping instruments should be minimally invasive and preserve the structural integrity of the tooth.
- The obturation materials should bond to the root canal walls, thereby strengthening the root.
- When a post is necessary, it should not put undue stress on the root. It should have a similar modulus of elasticity to that of dentin and it should match the shape created by the last instrument used to shape the canal.
- The system should be as safe and efficient as possible and every component should be designed to maximize the long term prognosis of the tooth.



## ESX<sup>®</sup>: TWO-FILE SHAPING SYSTEM

### RESPONSIBLE AND MINIMALLY INVASIVE

- Unlike other "simplified" file systems which utilize from one to three files, the ESX<sup>®</sup> system does not suggest that the practitioner finish specific canals to a pre-determined size. A "cookie cutter" approach can lead to under-and-over-preparation of canals.
- The ESX<sup>®</sup> system utilizes the Expeditor<sup>™</sup> file (#15/.05) to help the practitioner select the appropriate final apical size for each canal based on its unique anatomy.
- Unlike other systems, the ESX<sup>®</sup> system is designed to preserve the maximum amount of coronal tooth structure, thereby maximizing the long-term prognosis of the tooth.

## ESX<sup>®</sup> TECHNIQUE

- Use all ESX<sup>®</sup> files at 500-600 RPM with a torque setting of 1.5-2.3 Ncm.
- Use a "LIGHT TOUCH" and the "SINGLE STROKE AND CLEAN" technique.
- ESX<sup>®</sup> Expeditor<sup>™</sup> File - Provides initial shaping and helps determine the appropriate finishing file for each canal using the following guidelines:
  - ✓ Significant engagement to obtain WL = Finish with ESX<sup>®</sup> Small File #25/.04\*
  - ✓ Moderate engagement to obtain WL = Finish with ESX<sup>®</sup> Medium File #35/.04
  - ✓ Minimal engagement to obtain WL = Finish with ESX<sup>®</sup> Large File #45/.04
  - ✓ No engagement to obtain WL = Finish with ESX<sup>®</sup> Extra-Large File #55/.04

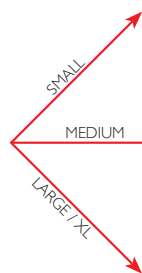
### Video Tutorial

Scan this QR code for a step-by-step tutorial for the ESX<sup>®</sup> shaping and obturation technique.



### STEP 1

ESX<sup>®</sup> EXPEDITOR<sup>™</sup> FILE TO WL



### STEP 2

FINAL ESX<sup>®</sup> FINISHING FILE TO WL

ESX  
#25/.04



ESX  
#35/.04



ESX  
#45/.04  
#55/.04



\* If ESX<sup>®</sup> Expeditor<sup>™</sup> meets significant resistance consider utilizing the ESX<sup>®</sup> Scouting Files for initial glide path creation.

# ESX<sup>®</sup>

SO SOPHISTICATED IT'S SIMPLE.™

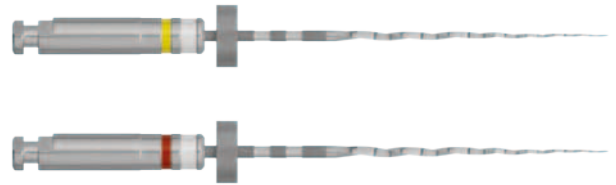
## ACCESSORY INSTRUMENTS

The standard ESX<sup>®</sup> System will successfully prepare the majority of cases. However, some cases (ie. highly calcified and/or severely curved canals) will benefit from the inclusion of one or more of the following specialty files. If the ESX<sup>®</sup> Expeditor™ meets significant resistance in obtaining working length, the ESX<sup>®</sup> Orifice Opener and/or ESX<sup>®</sup> Scouting Files should be utilized to obtain working length.

THE ULTIMATE ORIFICE SHAPER  
ESX<sup>®</sup> 20/.08 (19MM)



ESX<sup>®</sup> SCOUTING FILES  
ESX<sup>®</sup> 15/.02 & 15/.04



## PRODUCT ASSORTMENT & PACKAGING

All ESX<sup>®</sup> instruments are sterile packaged in a clean room environment. Each instrument is individually blister packed and each blister is perforated.

### ESX<sup>®</sup> INDIVIDUAL PACKS (3/PACK) STERILE R

File/ Tip ID	Tip Size	.02 Taper		.04 Taper			.05 Taper			.08 Taper
		21 mm	25 mm	21 mm	25 mm	31 mm	21 mm	25 mm	31 mm	19 mm
△ White	15	5024150U0	5024152U0	5024151U0	5024153U0	-	5023991U0*	5023995U0*	5024099U0*	-
▲ Yellow	20	-	-	-	-	-	-	-	-	5024291U0
▲ Red	25	-	-	5023992U0	5023996U0	5024100U0	-	-	-	-
▲ Green	35	-	-	5023993U0	5023997U0	5024101U0	-	-	-	-
△ White	45	-	-	5023994U0	5023998U0	5024102U0	-	-	-	-
▲ Red	55	-	-	5023989U0	5023990U0	5024103U0	-	-	-	-

\* ESX<sup>®</sup> Expeditor™

### EXCLUSIVE ESX<sup>®</sup> QUIKIT™ ASSORTMENT PACKS (6/PACK) STERILE R

The exclusive ESX<sup>®</sup> Quikit™ provides the ideal tray setup for practitioners looking to maximize patient safety and simplify inventory management. The ESX<sup>®</sup> Quikit™ contains a sterile #10 and #15 stiff K-file as well as the standard ESX<sup>®</sup> assortment.

File/ Tip ID	Tip Size	.02 Taper	.04 Taper	.05 Taper	.02 Taper	.04 Taper	.05 Taper
		5023987U0		5023988U0			
		21 mm		25 mm			
■ Purple	10	1/PK	-	-	1/PK	-	-
□ White	15	1/PK	-	-	1/PK	-	-
△ White	15	-	-	1/PK*	-	-	1/PK*
▲ Red	25	-	1/PK	-	-	1/PK	-
▲ Green	35	-	1/PK	-	-	1/PK	-
△ White	45	-	1/PK	-	-	1/PK	-

\* ESX<sup>®</sup> Expeditor™



# EndoSequence<sup>®</sup>

## BC Obturation System<sup>™</sup>

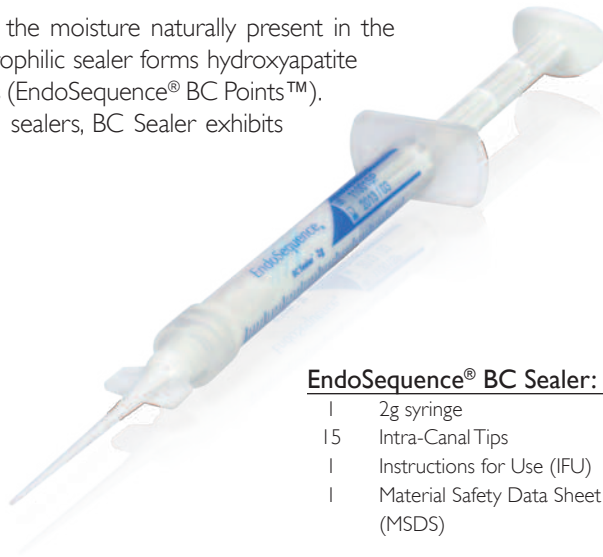


### BIOCERAMIC TECHNOLOGY: THE "STATE-OF-THE-ART" IN ENDODONTIC OBTURATION.

Unlike conventional base/catalyst sealers, BC Sealer is premixed and utilizes the moisture naturally present in the dentinal tubules to initiate its setting reaction. This highly radiopaque and hydrophilic sealer forms hydroxyapatite upon setting and chemically bonds to both dentin and to our bioceramic points (EndoSequence<sup>®</sup> BC Points<sup>™</sup>). BC Sealer is anti-bacterial due to its highly alkaline pH and unlike traditional sealers, BC Sealer exhibits absolutely zero shrinkage!

#### HOW DOES YOUR CURRENT SYSTEM COMPARE?

	BC Sealer and Points	Your Current System
Highly Biocompatible and Osteogenic	✓	?
User Friendly (premixed syringe delivery)	✓	?
Absolutely Zero Shrinkage	✓	?
Sealer Chemically Bonds to both Dentin and to Obturation Material	✓	?
Cost Effective (considerably less expensive than thermoplastic carriers)	✓	?
Highly Antibacterial (+12 pH upon setting)	✓	?
100% Hydrophilic	✓	?
Highly Radiopaque	✓	?



#### EndoSequence<sup>®</sup> BC Sealer:

- 1 2g syringe
- 15 Intra-Canal Tips
- 1 Instructions for Use (IFU)
- 1 Material Safety Data Sheet (MSDS)

Order No. 5017560U0

### RESTORATIVE ENDODONTICS<sup>™</sup>

A recent study concluded that EndoSequence BC Sealer, when used in conjunction with our bioceramic points, actually strengthens the root to a fracture resistance comparable to that of teeth that have not undergone root canal therapy†

“ Finally a complete system that incorporates the restorative goals and long term prognosis of the entire tooth - not to mention the ease of use for the clinician! ”

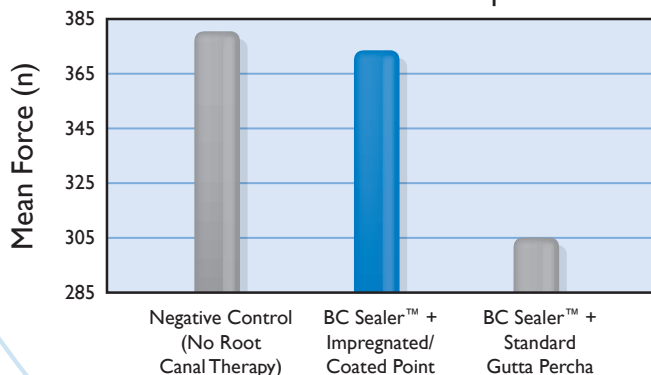
– Dr. David Garber, DMD

#### Video Tutorial

Scan this QR code for a step-by-step tutorial for the Endosequence obturation system.



#### Fracture Resistance Comparison †



#### BC Obturation Kit .04 Taper: (Also available in .06)

- 1 BC Sealer
- 15 Intra-Canal Tips
- 1 Assorted BC Points Wheel (.04 Taper)
- 1 Instructions for Use (IFU)
- 1 Material Safety Data Sheet (MSDS)

Order No. 5019504U0

#### BC Points Replacement Packs

Available in size 15-80 (.04), 15-50 (.06) and BC Pellets

† Ghoneim AG, Lutfy RA, Sabet NE, Fayyad DM. Resistance to fracture of roots obturated with novel canal-filling systems. JOE. 2011; 37 (11): 1590-2



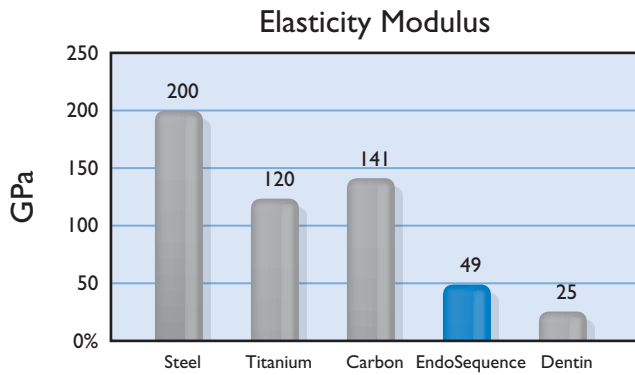
# EndoSequence<sup>®</sup>

## Fiber Post System

EVERYTHING YOU LOVE ABOUT CAST POSTS BUT AT A FRACTION OF THE COST AND WITH ZERO HASSLE!

### FEATURES

- Drill-free system: Post matches the shape created by the EndoSequence Files. Similar to a cast post!
- High Zirconia content (68%) gives increased strength
- Low modulus of elasticity (49GPa) promotes natural movement of surrounding tooth structure
- Factory silanation ensures proper chemical and micro-mechanical bonding for dual and light cure resins
- High radiopacity for crisp post-op radiographs
- White composite fiber composition ideal for highly esthetic restorations
- Received an excellent rating on a survey conducted by a nationally recognized third party product evaluation company.\*



EndoSequence Posts (5/Pack)

Tip ID	Tip Size	.04 Taper
Yellow	.50	5013508U0
Red	.70	5013509U0
Blue	.90	5013510U0
Green	1.1	5013511U0

### TECHNIQUE

- Simply burnout the necessary amount of gutta percha or pre-cut the cone to create the desired apical plug.



### Video Tutorial

Scan this QR code for a step-by-step tutorial for the Endosequence post placement technique.



### K0165 EndoSequence<sup>®</sup> Post Starter Kit (.04 Taper):

- |                       |   |
|-----------------------|---|
| 5 ea. (sizes .50-1.1) | EndoSequence Posts (.04 Taper)            |
| 2                     | Double Ended Burnout Pluggers (.04 Taper) |
| 1                     | Universal Finishing Diamond**             |
| 1                     | Hand Driver                               |
| 1                     | Instructions for Use (IFU)                |

Order No. 5015623U0



\* Survey results available upon request.

\*\* Diamond is used manually in a watch-winding motion to remove any gutta percha tags and/or sealer from canal wall prior to applying bonding agent and EndoSequence<sup>®</sup> Core Build-Up Material<sup>™</sup>

# EndoSequence<sup>®</sup>

Core Build-Up/Post Cement

## Strong and Versatile

- Fiber reinforced, high filler content formula provides optimal strength.
- Dual purpose: Balanced viscosity allows it to be used as a core build-up and post cement.
- Dual cure
- Convenient syringe or cartridge delivery.
- Received an excellent rating on a survey conducted by a nationally recognized third party product evaluation company.†



A2:  
Simulates natural dentition



Opaceous White:  
Facilitates detection of margins



Packaging Unit	Order No.
3 A2 syringes, 2 white syringes, 25 tips	5013885U0

# EndoSequence<sup>®</sup>

Lubricant



### Active Ingredients:

- EDTA: 15%
- Urea Peroxide: 10%

Packaging Unit	Order No.
Three 3g Syringes	5015119U0



### Active Ingredients:

- EDTA: 3%
- Cocoamphodiacetate (surfactant)
- Benzalkoniumchloride (anti-bacterial)

Packaging Unit	Order No.
100 mL	5013409U0
250 mL	5013410U0

# EndoSequence<sup>®</sup>

Canal Clean™



# KontrolFlex™

K-Files

- Calibrated with stops for length measurement
- Manufactured of high quality stainless steel
- Optimal combination of strength and flexibility
- Only K-Files available in 19 mm length

Size	Stiffness	Length
15-80	Standard	19*, 21, 25, 31
06-15	Stiff	21, 25

\* 19 mm is available in 06-15

### STANDARD K-FILES (6/PACK)



### STIFF K-FILES (6/PACK)

### Compare to C-Files™



# EndoSequence2<sup>®</sup>

### FEATURES

- Smallest Head in the Industry
- Cordless
- 5 Programmable Settings
- Auto Reverse
- Torque Control
- Speed Range: 200-1,000 rpm
- AAA Rechargeable Batteries
- 1 Year Warranty

\* Set Includes Motor, Head, Charging Base

Order No.
5021327U0

†Survey results available upon request.

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