



# TECHNIQUE CHAIRSIDE CARD

## STEP 1: ACHIEVE PATENCY

- Use a size 10 hand file to establish canal patency.
- If preferred, perform orifice opening first using the XP-4D “Starter” to open the canal coronally.
- Ensure an estimated working length before proceeding.

## STEP 2: IRRIGATE

- Fill the canal and pulp chamber with irrigant to aid debris removal during instrumentation.

## STEP 3: USE XP-4D “STARTER” TO WORKING LENGTH

- Advance the file in long strokes (not a pecking motion).
- Aim for maximum depth without excessive pushing.
- Move 4-5 mm coronally before re-engaging apically.
- Reach working length within 3-5 strokes.

## STEP 4: IRRIGATE AGAIN

- Flush out debris before continuing instrumentation.

## STEP 5: USE XP-4D “STANDARD” TO WORKING LENGTH

- The file should reach working length within 3-5 strokes.
- If unable to do so (e.g., very tight canals), irrigate and reattempt.
- A maximum of two attempts (5 strokes each) should be sufficient.

## STEP 6: FIT GUTTA PERCHA

- Use a matching XP-4D Bio Gutta Percha for obturation.

*Protocol courtesy of Adham Azim, B.D.S.*

*For official instructions for use, visit [BrasselerUSA.com/eIFU](https://BrasselerUSA.com/eIFU).*

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Brasseler U.S.A. Dental, LLC  
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Savannah, GA 31419, U.S.A.

# XP-4D™

# TECHNIQUE CHAIRSIDE CARD

Optimal Speed: 1,000 rpm  
Torque Limit: 1 Ncm

**EXPLORING**  
KONTROLFLEX™  
K-FILE  
#10



**GLIDE PATH**  
XP-4D  
STARTER FILE  
#20



**STANDARD CANAL**  
XP-4D STANDARD FILE #30



**MEDIUM CANAL**  
XP-4D MEDIUM FILE #40



**LARGE CANAL**  
XP-4D LARGE FILE #50



millimeters (mm)



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REV1 2025-08-25

B-5918-15M-PRO