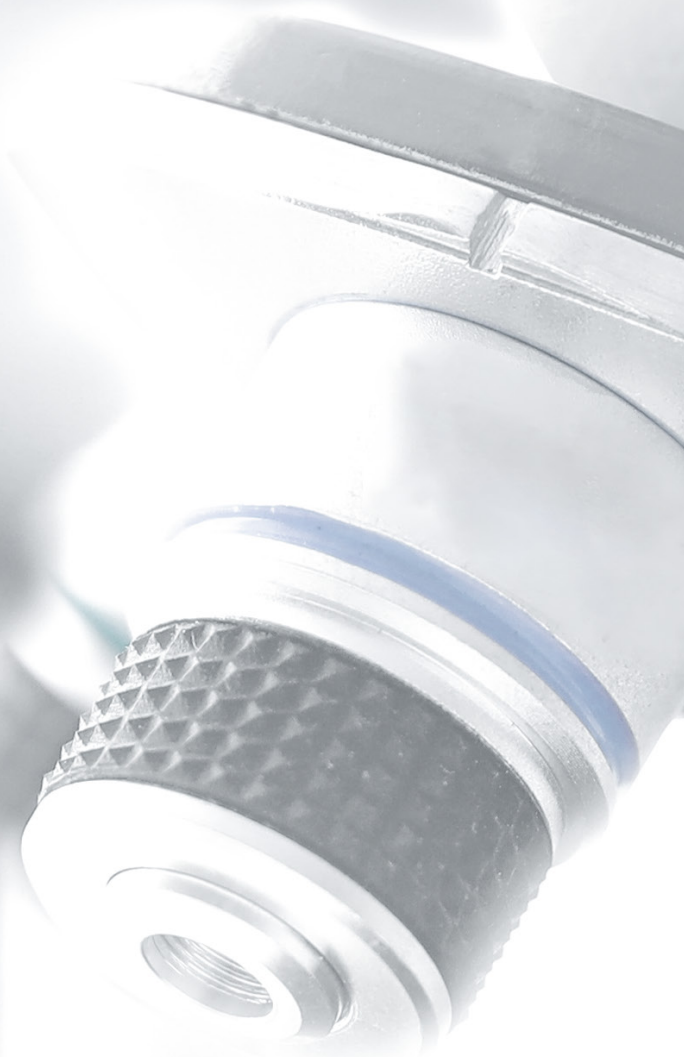




Komet Dental's heat-treated
Q-series proven by various
tests and studies.





FQ. Unparalleled efficiency and durability.

FQ emerges as winner from the latest Dental Advisor study.

When performing an endodontic treatment, you put your trust in the performance of your instruments. A recent study by the Dental Advisor Biomaterials Research Center now reveals the yet to be matched reliability of rotary FQ files.

A game-changer when it comes to cutting speed.

The data shows remarkable results for FQ rotary files when it comes to cutting efficiency. Compared to ProTaper Ultimate™, FQ rotary files demonstrated an impressive cutting speed that is 24 % faster than that of their competitors.¹

Groundbreaking in thorough treatments.

Effective debris removal is crucial for successful endodontic treatments, and FQ rotary files have demonstrated their superiority in this aspect. They excel in removing debris, surpassing ProTaper Ultimate™ by a significant margin ². The pronounced grooves of FQ rotary files contribute to the creation of long strips of debris, ensuring thorough elimination from the canals.

Performance built to last.

When it comes to cyclic fatigue resistance, FQ stands out as a true champion. The data reveals that these files exhibit a remarkable 110 % to 228 % increase in cyclic fatigue resistance compared to ProTaper Ultimate™. What's even more impressive is that all files survived beyond the challenging threshold of three canals, thus proving their unrivaled durability.

FQ sets new standards.

These findings highlight the exceptional performance and reliability of FQ rotary files, making them the preferred choice for dental professionals seeking high-quality endodontic instruments.

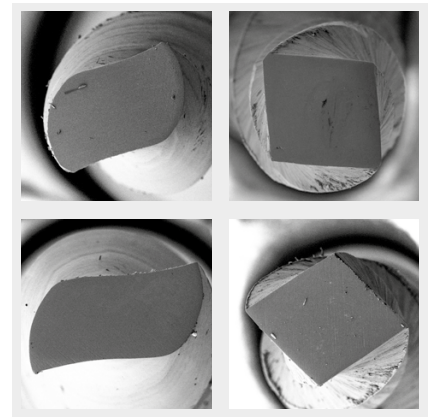


Fig. 1: Cross-sectional views of 20.06 FQ and 20.07 ProTaper Ultimate rotary files sectioned at 8 mm and 13 mm from the tip. ProTaper Ultimate files feature a parallelogram design with a variable ~85-105° cutting edge. FQ rotary files feature a more acute cutting angle with ~110-130° cutting edges with 2 smooth lands in an S-Shape which function to reduce transportation, screw-in effect and aid in debris removal



Fig 2: Comparative image of the files after debris removal to illustrate the differences in cutting performance

¹ Cowen, M., Powers, J. M. (2023). **Laboratory Evaluation of FQ Rotary Endodontic Files.** DENTAL ADVISOR, Biomaterials Research Results

² cf.

³ cf.



Procodile Q. For a new sense of safety.

Flexibility beyond average.

Komet's Procodile Q is the first heat-treated reciprocating file system with a variable tapered core. The heat-treatment ensures prebendability while also creating a flexibility only few can match – for optimum preparation, even of curved canals. As the University of Texas Health Science Center at Houston confirms: Procodile Q's flexibility is by far higher than the one observed in WaveOne Gold® files.¹

Safer than ever before.

In terms of durability, Procodile Q is yet to be beaten. Data by the Dental Advisor Biomaterials Research Center confirms that Procodile Q's cyclic fatigue resistance lasted between 197 % and 325 % longer than WaveOne Gold's®, which reduces the risk of fractures and thus increases the safety during the procedure.²

The Dental Advisor Biomaterials Research Center also detected that significant unwinding was found in all three sizes of WaveOne Gold® files, but in only one size of Procodile Q (after three canals) which again emphasizes the durability of Procodile Q files.³

Efficiency at its best.

The Dental Advisor data study also proves: With a cutting rate 16 % faster than WaveOne Gold®, Procodile Q files are the perfect fit for a fast and efficient preparation of the root canal⁴. In addition, the tapered core helps to remove infected tissue effectively, extrude debris coronally, and thus can help to lower the risk of post-operative infections.⁵

Procodile Q is the stronger, faster, and more durable file.

These studies prove us right – with a superior flexibility, longer durability, higher safety, and a variety of file sizes, Procodile Q masters all challenges of your work routine.

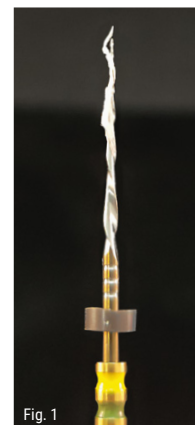


Fig. 1: Image shows Procodile Q after removing a large amount of debris.

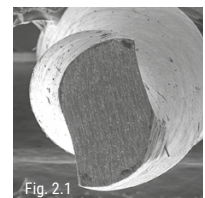


Fig. 2.1

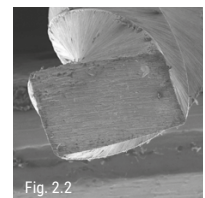


Fig. 2.2

Cross-sectional views of #035 medium files.

Fig. 2.1 shows Procodile Q file, which features a more acute cutting angle with a ~106° cutting edge.

Fig. 2.2 shows WaveOne Gold's file, a parallelogram design with ~85° cutting edge resulting in more of a scraping mode of instrumentation.

¹ Beltran, A. S. M., Dadarkar, F. and Jaramillo, D. E. (2022). Comparison of Dentin Debris Extrusion After the Use of WaveOne Gold and Procodile Q NiTi File. *Online Journal of Dentistry & Oral Health*, 6(1), pp. 1–5.

² Cowen, M., Power, J. M., (2022). Laboratory Evaluation of Procodile Q Endodontic Files. *DENTAL ADVISOR Biomaterials Research Results*.

³ Cowen & Power, Laboratory Evaluation of Procodile Q Endodontic Files.

⁴ Cowen & Power, Laboratory Evaluation of Procodile Q Endodontic Files.

⁵ Beltran et al. Comparison of Dentin Debris Extrusion.

Komet Dental

Gebr. Brasseler GmbH & Co. KG
Trophagener Weg 25 · 32657 Lemgo
Postfach 160, 32631 Lemgo · Germany
Telefon +49 (0) 5261 701-0
hello@kometdental.com
Contact for dealers:
export@kometdental.de

Verkauf Deutschland:
Telefon +49 (0) 5261 701-700
Telefax +49 (0) 5261 701-289
info@kometdental.de
www.kometdental.de

Export:
Telefon +49 (0) 5261 701-0
Telefax +49 (0) 5261 701-329
export@kometdental.de
www.kometdental.com

Komet Austria Handelsagentur GmbH
Hellbrunner Straße 15 · 5020 Salzburg
Telefon +43 (0) 662 829-434
Telefax +43 (0) 662 829-435
info@kometdental.at
www.kometdental.at

Komet France

18 rue · Fourcroy · 75017 Paris
Phone +33 (0) 1 43 48 89 90
info@komet.fr
www.komet.fr

Komet Italy

Via Gianbattista Morgagni 36,
37 135 Verona
Phone +39 (0) 45 11171911
info@komet.it
www.kometacademy.it

Komet USA

3042 Southcross Blvd Suite 101,
Rock Hill · SC 29730
Phone +1 888566 3887
info@kometusa.com
www.kometusa.com

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