

HyFlex® EDM: Stays on Track





COLTENE Covers the Entire Endo Procedure

COLTENE offers a complete line of endodontic products for the root canal procedure, from diagnosis through restoration.

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HyFlex® EDM

Unmatched Flexibility and Fracture Resistance in a One File System

HyFlex EDM offers the dental practitioner enhanced ease of mechanical preparation of the root canal so that even newcomers to endodontics can achieve reliable results quickly and easily.



Stays on Track

Thanks to controlled memory properties, HyFlex EDM files follow the anatomy of the canal, which can significantly reduce the risk of ledging, transportation and perforation.



Fewer Files Required

The combination of flexibility, fracture resistance and cutting efficiency of the HyFlex EDM makes it possible to reduce the number of files required for cleaning while preserving anatomy.



Extreme Fracture Resistance

HyFlex EDM files are produced using an innovative manufacturing process called Electrical Discharge Machining. The EDM process results in a file that is extremely flexible and fracture resistant. In fact, HyFlex EDM files are up to 700% more resistant to cyclic fatigue compared to traditional NiTi files.*



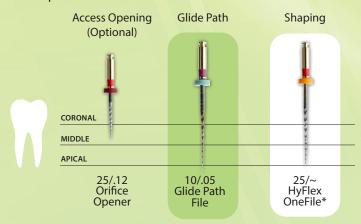
Pre-Sterilized, Modular System

Provided as a modular system of sterile instruments, HyFlex EDM includes Shaping, Glide Path, OneFile, Orifice Opener and Finishing files and may be used in combination with HyFlex CM files.

HyFlex EDM OneFile at a Glance Pre-Sterile **Unmatched Fracture Resistance** Uniquely hardened surface reduces risk of file separation Variable Cross Section Design Contributes to high breakage resistance Almost triangular cross section at top **Cutting Efficiency** Hardened surface plus controlled memory improves cutting efficiency Trapezoidal cross section in middle **Extremely Flexible** Controlled memory allows superior canal tracking Quadratic cross section at tip Visit COLTENE's YouTube channel for more information about the HyFlex EDM and EDM technology.

Fewer Files Required for Canal Preparation

Simple Canals

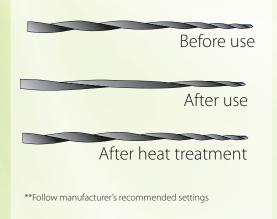


Medium Canals

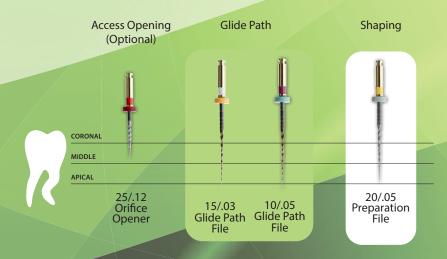


Regeneration by Thermal Treatment

The built-in shape memory of HyFlex EDM files prevents stress during canal preparation by changing their spiral shape. A normal autoclaving process** is enough to return the files to their original shape and fatigue resistance. Should the file fail to regain its shape after heat treatment, risk of fracture is increased, and the file should not be used after visual inspection.



Max Curve Canals



Finishing files are available if case requires

Finishing



HyFlex EDM Electrical Discharge Machining

- Up to 700% higher fracture resistance*
- Uniquely hardened surface
- Less filing required for treatment success

The HyFlex EDM owes its unique properties to a breakthrough technology called "Electrical Discharge Machining." This innovative manufacturing process uses spark erosion to harden the surface of the NiTi file, resulting in superior fracture resistance and improved cutting efficiency. Just like HyFlex CM files, HyFlex EDM files offer trusted controlled memory effect and regenerative properties.

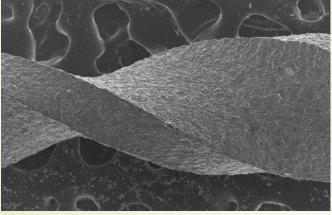
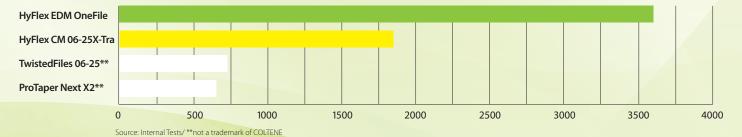


Image courtesy Dr. Chiara Pirani and Dr. Francesco Iacono, University of Bologna

Average value measured at 60° curvature with 9 mm radial length

Number of cycles to failure



Praise for HyFlex EDM Files

66 I did a case with 3 EDM files and absolutely loved them! I cut through that curved anatomy like butter...No unwinding noted at all.

— Sam Alborz, DDS, CAGS





Research Support for HyFlex EDM Files

Within the limitations of the present in vitro study, it was found that cyclic fatigue resistance of HyFlex EDM files was higher than the cyclic fatigue resistances of OneShape, Reciproc Blue, and WaveOne Gold files.

— Mustafa Gündoğar, DDS, PhD, and Taba Özyürek, DDA, PhD, J Endo 2017; ;1-5

^{*}Int Endod J. 2015 May 22. doi: 10.1111/iej.12470

HyFlex EDM Order Information

Catalog Number		er	Description
15mm	21mm	25mm	
60019630			25/.12 Orifice Opener
	60023574	60023573	15/.03 Glidepath File
	60022281	60019628	10/.05 Glidepath File
	60022287	60022286	20/.05 Preparation File
	60022282	60019629	25/~ OneFile
	60022283	60019631	40/.04 Finishing File
	60022284	60019632	50/.03 Finishing File
	60022285	60019633	60/.02 Finishing File
	60023576	60023575	Shaping Set - Max Curve 15/.03, 10/.05, 20/.05
	60022279	60019641	Shaping Set - Simple 25/.12, 10/.05, 25/~ One File
	60022288	60022289	Shaping Set - Medium 10/.05, 20/.05, 25/~ One File
	60022280	60019642	Finishing Set 40/.04, 50/.03, 60/.02



Sets include 3 instruments per package

Catalog Number	Description	
60021895	HyFlexEDM IntroKit Compact*	
(1 each) 25/.12, 10/.05, 25/~, 40/.04, 50/.03, 60/.02, HyFlex EDM Gutta Percha		
Assortment, HyFlex Organizer		

^{*}Available only in the United States

Size / taper	Adhesive-free paper points 100 pcs	Latex-free Guttapercha points 60 pcs		
20/.05	60022742	60022706		
OneFile 25/~	60022743	60022707		
40/.04	60022676	60022708		
50/.03	60022741	60022709		
60/.02	60022740	60022710		
Assortment 20/.05 - 60/.02	60022744	60022705		

HyFlex EDM Accessories

Catalog Number	Description		
60018783	HyFlex File Organizer		
H8CPCLINTRO	CanalPro Cordless Handpiece		

Sealers and Obturation

Catalog Number		Description	
60013701		GuttaFlow 2 Automix Standard Set	





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