

# Endodontics: Machine Driven Files

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 The Buyer's Guide for Dental Professionals

	Item	Description	Material	Taper Available
Brasseler	EndoSequence	The EndoSequence System produces what you've always wanted in your endodontic therapy: Precision and Predictability. • Precision in instrumentation, via the concept of machining a fully tapered .06 preparation • Precision in obturation, through a matching system of laser-verified fully tapered gutta percha. • Predictability in results by logically integrating new, patented instrument design and materials technology with a simple, systematic, reproducible technique: Constant .06 tapered preparation (.04 available for small canals).	Nickel Titanium	0.06, 0.04
JS Dental Manufacturing, Inc.	Mity Roto 360	Mity Files. Nickel Titanium (NiTi) Instrument. THE MITY ROTO 360 is the endodontic instrument specifically designed for use in a rotary handpiece. The unique U-File design with flat edged flutes prevents the instrument from getting caught on the canal walls. Max speed of 300 rpm. Available in: 21 mm & 25 mm. Sizes 15-80 & Asst. Packaged in box of six pieces.	Nickel Titanium	Contact JS Dental Manufacturing, Inc.
Essential Dental Systems, Inc. (EDS)	SafeSiders® System	The SafeSiders® System is a series of instruments designed to reduce endodontic stress. SafeSiders® are the only endodontic instruments with a patented non-interrupted flat along the entire working length. SafeSiders® act as chisels in the clockwise and counter clockwise motion resulting in fast advancement through the tooth with minimal resistance.	Nickel Titanium and Stainless Steel	Yes
Essential Dental Systems, Inc. (EDS)	PulpOut™ and Shaper Bur System	The PulpOut™ and Shaper Bur System allows quick and safe access to the pulp chamber. The flat-sided head of the PulpOut Bur allows access to the pulp chamber while applying minimal pressure; this results in the removal of increased amounts of debris while minimizing the risk of perforation through the furcation. The Shaper Bur offers rapid cutting of enamel, dentin and restorative materials. Its unique barrel shape prevents removal of excess tooth structure while enabling the maximum amount of light into the chamber for quick and easy canal location.	Shaper Bur: Stainless Steel & Diamond PulpOut™ Bur: Carbide Steel	Contact EDS
Ultradent Products, Inc.	Endo-Eze Shaping Files	Endo-Eze Shaping Files are used with the Endo-Eze AET Handpiece. They are uniquely designed to be guided by the anatomical shape of the canal. They are designed to cut on their sides in a "milling"-type action versus the historical "boring/drilling" action. This unique file design results in minimally invasive instrumentation that "listens to the needs of the tooth." Available in Endo-Eze Patient Kit modules, Shaping Kit modules, or in individual refills.	Contact Ultradent	Shaping #1: 0.025 Shaping #2: 0.045 Shaping #3: 0.06
Coltene/Whaledent	Hyflex® X-File	Hyflex® X-File™ Nickel Titanium Files offer the right combination of design and material for a superior file. Unique double-fluting offers exceptional cutting efficiency for quick and easy instrumentation. Nickel Titanium imports incredible flexibility to safely maintain canal shape and curvature. Available in sizes #08 to #80, in 21 or 25 mm lengths, with ISO color-coded handles.	Nickel Titanium	Contact Coltene/Whaledent
DENTSPLY International	ProTaper®	ProTaper® nickel titanium rotary files are specially designed to instrument difficult, highly calcified, and severely curved root canals. The patented progressive taper, and advanced flute design provide the flexibility and efficiency to achieve consistent, successful cleaning and shaping when faced with these challenges.	Nickel Titanium	0.07, 0.08, 0.09
Guidance Endodontics, LLC	V-Taper™	The V-Taper™ Rotary System is a set of three variable taper NiTi rotary files. The V-Taper™ Rotary System will allow you to complete most root canals using two-to-three files. This performance-enhanced system is easier, safer, more efficient, and less expensive than any other NiTi rotary file system available. Designed with a Safe-Core Parabolic Cross-Section, the V-Taper is the safest, most efficient, and most advanced cross-section available and is ideal for deep-hole drilling and reaming as done with root canals.	Nickel Titanium	0.06, 0.08, 0.10
LightSpeed Technology, Inc.	LightSpeed	Lightspeed Technology, Inc. combined science, engineering and research in developing LIGHTSPEED, the endodontic instrument for the new millennium. LIGHTSPEED is not just another root canal instrument. It is different, exciting, and long overdue. Made of nickel titanium and used in a low speed handpiece, LIGHTSPEED is the instrument you have been waiting for. It makes the difficult world of clinical endodontics much easier.	Nickel Titanium	N/A
Medidenta International	324 NiTi	Super Flexibility: The NiTi shaft is made of nickel-titanium for additional flexibility in curved canals. Safety: The NiTi resists "spontaneous breakage" and will unwind and wind up backwards before breaking. The conical-shaped tip also reduces the possibility of ledging or transporting the canal. Special Rotary 324 Taper: Our Taper focuses the cutting action in the coronal portion of the canal, minimizing file stress and creating a more efficient funnel form preparation. Efficacy: NiTi radial-landed or "U-File" flute design allows the instrument to replicate the natural anatomy of the canal. The flat outer flute edges also help prevent zipping. Quality: Produced to offer a smooth, progressive enlargement of the canal.	Nickel Titanium	Contact Medidenta International
Miltex	Liberator™	The Liberator™ rotary nickel-titanium endodontic files are the result of years of research and development as well as feedback from leading clinicians in the field of endodontics. The files incorporate a unique straight flute design and manufacturing process that eliminates the traditional helical flutes found on virtually all rotary endodontic files. The result is that Liberator files will not self-thread into a canal. Self-threading is a major contributor to file separation. The Liberator file provides a level of safety and control that is unprecedented in rotary nickel-titanium files.	Nickel Titanium	0.02, 0.04, 0.06, 0.08, 0.10

With the emergence of endodontic handpieces taking the place of manual instrumentation, there has been parallel growth in the types of files that work with these systems. Mostly constructed from nickel-titanium, these instruments come in familiar lengths and taper, making the transition from hand instruments easy. Explore some of these exciting new possibilities below.

Cross Section	File Manufacturing	Radial Lands	Tip Type	Rake Angle	Lengths Available (in mm)	Technique Used	Recommended RPM
Asymmetrical	Twisted	No	Noncutting	Positive	21, 25, 31	Crown Down	Contact Brasseler
Symmetrical	Ground	Yes	Noncutting	Negative	21, 25	Step Back	Maximum Speed 300 RPM
Non-Circular Non-Interrupted Flat Side Along Entire Length	Contact EDS	Contact EDS	Contact EDS	Contact EDS	21, 25	Contact EDS	Between 1,500 and 2,500 RPM
Contact EDS	Contact EDS	Contact EDS	PulpOut™ Bur: Flat-sided Head Diamond Shaper Bur: Barrel Shape	Contact EDS	Contact EDS	Contact EDS	Contact EDS
Triangular	Contact Ultradent	Contact Ultradent	Noncutting	N/A	All files available in 16, 20, 24, and 27	Crown Down Milling	Contact Ultradent
Symmetrical	Ground	N/A	Noncutting	Negative	21, 25	N/A	Contact Coltene/Whaledent
Asymmetrical	Ground	No	Modified Guiding Tip	Negative	21, 25	Coronal, then Apical Sequential	Contact DENTSPLY
Parabolic	Ground	No	Noncutting	Neutral	21, 25	Crown Down	250-350
Symmetrical	Ground	Yes	Noncutting	Negative	21, 25, 31	Sequential	Contact Lightspeed
Double Helix	Twisted	Yes	Noncutting	Positive	21,25	Crown Down	Contact Medidenta International
Triangular	Ground	No	Noncutting	Negative	21, 25	Crown Down	1,500 to 2,000

Product information is gathered from vendors that have a contract with Dental Compare. This listing is limited only to the companies that have contracted with Dental Compare, however other vendors offering endodontic machine driven files are SybronEndo, DENTSPLY Tulsa Dental and Axis Dental Corp.