

Miltex[®]
Redefining Excellence



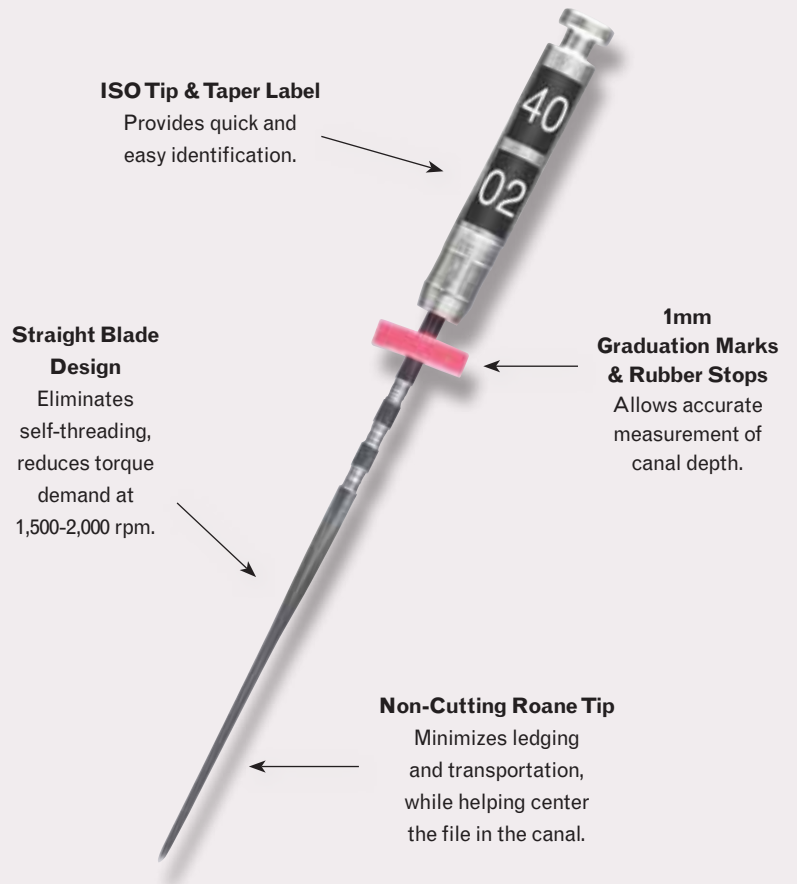
ENDODONTIC FILES

LIBERATOR®

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 blade 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.

Liberator® files provide a level of safety, control and effectiveness that is unprecedented in rotary nickel-titanium files.

THE FIRST ROTARY FILE THAT WILL NOT SELF-THREAD



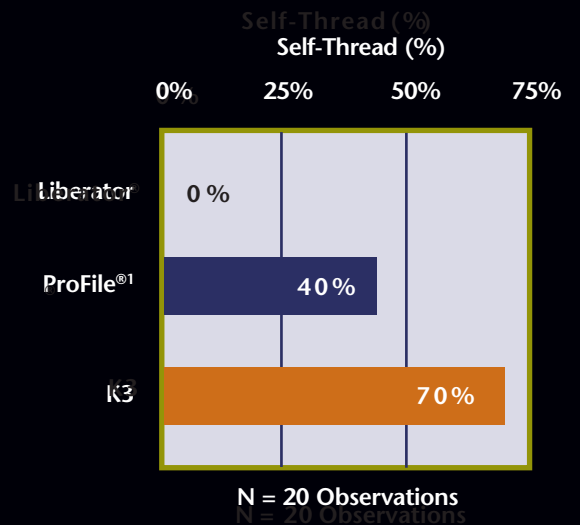
Feel the Safety and Control

The design of the non-cutting Roane tip minimizes ledging and transportation while helping to keep the Liberator® file centered in the canal.

Liberator® files are designed with straight blades that will not self-thread, unlike helically-fluted files. As proof, a controlled study measured the self-threading rate of Liberator files compared to competitive rotary files as shown in chart at right.



**"Roane Tip"
Rounded tip**



Faster, Easier To Use

Liberator® files rotating at 1,000-2,000 RPM cut dentin faster than conventional rotary files rotating at 300 RPM. This higher speed also provides excellent tactile feel in canals.

See The Difference

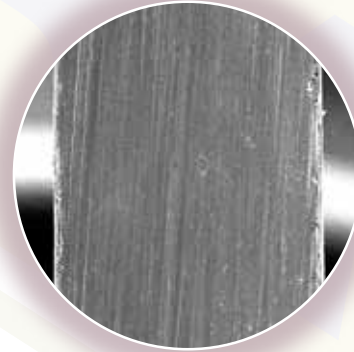
The manufacturing process for most conventional helical files leaves micro-cracks that are perpendicular to the file axis. These cracks have been shown to contribute to file separation. A unique manufacturing process for Liberator® files eliminates these perpendicular micro-cracks. The process also reduces surface hardening caused by elevated temperatures.

Experience Quick And Easy Retreatment

Gutta percha points and most other obturation materials are easily removed using Liberator® files.



Micro-Cracks on Separated Instrument



Liberator®
Straight Flute



APICAL SHAPING FILES

.02 TAPER - 6 FILES PER PACKAGE

Tip	21mm	25mm
15	012-28001	012-28015
20	012-28002	012-28016
25	012-28003	012-28017
30	012-28004	012-28018
35	012-28005	012-28019
40	012-28006	012-28020
15-40	012-28007	012-28021
45	012-28008	012-28022
50	012-28009	012-28023
55	012-28010	012-28024
60	012-28011	012-28025
70	012-28012	012-28026
80	012-28013	012-28027
45-80	012-28014	012-28028

.04 TAPER - 6 FILES PER PACKAGE

Tip	21mm	25mm
15	012-28101	012-28112
20	012-28102	012-28113
25	012-28103	012-28114
30	012-28104	012-28115
35	012-28105	012-28116
40	012-28106	012-28117
15-40	012-28107	012-28118
45	012-28108	012-28119
50	012-28109	N/A
60	012-28110	N/A
70	012-28111	N/A

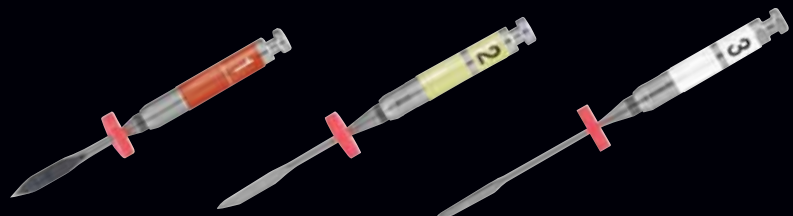
.06 TAPER - 6 FILES PER PACKAGE

Tip	21mm	25mm
15	012-28201	012-28212
20	012-28202	012-28213
25	012-28203	012-28214
30	012-28204	012-28215
35	012-28205	012-28216
40	012-28206	012-28217
15-40	012-28207	012-28218
45	012-28208	012-28219
50	012-28209	N/A
60	012-28210	N/A
70	012-28211	N/A
70	012-28111	N/A

GATES GLIDDEN DRILLS

No.	Tip	Taper	Length
012-28401	118 (RGG #1)	.08	13mm
012-28402	94 (RGG #2)	.08	16mm
012-28403	70 (RGG #3)	.08	19mm
012-28405	70-118	.08	Assorted

6 per package



MILTEX® HI-5® FILE (STAINLESS STEEL FILE)

Miltex® Hi-5® files are designed with helically ground flutes. They feature a strong and stiff pentagonal cross section which is good for penetration in small or calcified canals. Made from high quality stainless steel, Hi-5® files provide strength and ensure that proper cleaning and shaping can be accomplished.

FEATURES

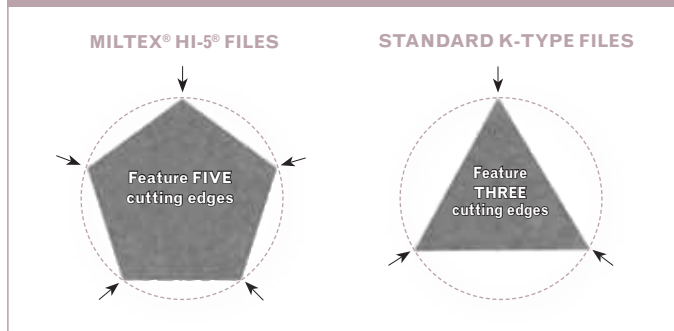
- Made from high quality stainless steel
- Stiff pentagonal cross section
- Handles are ISO color coded and printed with the ISO file tip size
- Available in a variety of sizes and lengths



BENEFITS

- Helps ensure strength and quality of product
- Resilient and effective cutting instruments
- Allows for easy identification of file
- Meets the needs of dental professionals

Cross Section Comparison



Stainless Steel - 6 per pack

Standardized

Instrument Size	21mm No.	25mm No.
6	012-26001	012-26005
8	012-26002	012-26006
10	012-26003	012-26007
15	012-26004	012-26008
06-15*	012-26009	012-26010

* Assorted

FACT

With the same diameter and more material, Miltex® Hi-5® Files are 83% stronger than K-Type Files of the same size.

MILTEX® HEDSTROM FILES (STAINLESS STEEL FILE)

Miltex® H-files have excellent cutting efficiency using a push and pull stroke.

FEATURES

- Handles are ISO color coded and printed with the ISO file tip size
- Available in a variety of sizes, lengths and rubber stop configurations

BENEFITS

- Allows for easy identification of file
- Meets the needs of dental professionals

Stainless Steel (.02 taper) - 6 per pack

Standardized

Instrument Size	21mm	25mm
10	DHF21/10	DHF25/10
15	DHF21/15	DHF25/15
20	DHF21/20	DHF25/20
25	DHF21/25	DHF25/25
30	DHF21/30	DHF25/30
35	DHF21/35	DHF25/35
40	DHF21/40	DHF25/40
45	-	DHF25/45
50	-	DHF25/50
55	-	DHF25/55
60	-	DHF25/60
70	-	DHF25/70
80	-	DHF25/80
15-40*	DHF21/15-40	DHF25/15-40
45-80	-	DHF25/45-80

* Assorted



UNION BROACH® SHARPIE® HEDSTROM FILES (STAINLESS STEEL FILE)

Sharpie® Hedstrom files are designed for teeth with irregular walls or removing instruments from a canal (i.e. separated files). These files are more aggressive than reamers or “K” type files.

FEATURES

- Made from high quality stainless steel
- Handles are ISO color coded and printed with the ISO file tip size
- Available in a variety of sizes and lengths

BENEFITS

- Helps ensure strength and quality of product
- Allows for easy identification of file
- Meets the needs of dental professionals



Stainless Steel - 6 per pack (.02 taper)

Standardized

Instrument Size	21mm	21mm w/Stops	25mm	25mm w/Stops	31mm	31mm w/Stops
10	012-11000	012-S1000	012-11059	012-S1059	012-11179	012-S1179
15	012-11001	012-S1001	012-11060	012-S1060	012-11180	012-S1180
20	012-11002	012-S1002	012-11061	012-S1061	012-11181	012-S1181
25	012-11003	012-S1003	012-11062	012-S1062	012-11182	012-S1182
30	012-11004	012-S1004	012-11063	012-S1063	012-11183	012-S1183
35	012-11005	012-S1005	012-11064	012-S1064	012-11184	012-S1184
40	012-11006	012-S1006	012-11065	012-S1065	012-11185	012-S1185
45	012-11008	012-S1008	012-11067	012-S1067	012-11187	012-S1187
50	012-11009	012-S1009	012-11068	012-S1068	012-11188	012-S1188
55	012-11010	012-S1010	012-11069	012-S1069	012-11189	012-S1189
60	012-11011	012-S1011	012-11070	012-S1070	012-11190	012-S1190
70	012-11012	012-S1012	012-11071	012-S1071	012-11191	012-S1191
80	012-11013	012-S1013	012-11072	012-S1072	012-11192	012-S1192
90	012-11015	012-S1015	012-11074	012-S1074	012-11194	012-S1194
100	012-11016	012-S1016	012-11075	012-S1075	012-11195	012-S1195
110	-	-	012-11076	012-S1076	012-11196	012-S1196
120	-	-	-	-	012-11198	012-S1198
130	-	-	-	-	012-11199	012-S1199
140	-	-	-	-	012-11200	012-S1200
15-40*	012-11007	012-S1007	012-11066	012-S1066	012-11186	012-S1186
45-80*	012-11014	012-S1014	012-11073	012-S1073	012-11193	012-S1193
90-110*	-	-	012-11077	012-S1077	012-11197	012-S1197
120-140*	-	-	-	-	012-11201	012-S1201
90-140*	-	-	-	-	012-11202	012-S1202

* Assorted



UNION BROACH® ONYX-H™ FILES (NICKEL TITANIUM HEDSTROM FILES)

Onyx-H™ files are made from nickel titanium which allows the files to be more flexible in tightly curved canals.

FEATURES

- Handles are ISO color coded and printed with the ISO file tip size
- Available in a variety of sizes, lengths and rubber stop configurations

BENEFITS

- Allows for easy identification of file
- Meets the needs of dental professionals

Nickel Titanium - 6 per pack (.02 taper)

Standard

Instrument Size	21mm No.	25mm No.
15	012-15080	012-15100
20	012-15081	012-15101
25	012-15082	012-15102
30	012-15083	012-15103
35	012-15084	012-15104
40	012-15085	012-15105
45	012-15087	012-15107
50	012-15088	012-15108
55	012-15089	012-15109
60	012-15090	012-15110
70	012-15091	012-15111
80	012-15092	012-15112
15-40*	012-15086	012-15106
45-80*	012-15093	012-15113

* Assorted



UNION BROACH® FLEX-R® FILES - FLEXIBLE ROANE TIP (STAINLESS STEEL FILE)

Flex-R® files are our most popular Union Broach® endodontic hand file. They are designed with a non-cutting “Roane” tip, which was designed by Dr. James Roane. Made from high quality stainless steel, the Flex-R® file ensures the most comprehensive cleaning and shaping of the root canal.

FEATURES

- Made from high quality stainless steel
- Non-cutting Roane tip
- Handles are ISO color coded and printed with the ISO file tip size
- Available in a variety of sizes, lengths and rubber stop configurations

BENEFITS

- Helps ensure strength and quality of product
- Reduces chance of file ledging or transportation from occurring
- Allows for easy identification of file
- Meets the needs of dental professionals

Stainless Steel (.02 taper) - 6 per pack

Standardized

Instrument Size	21mm	21 mm w/Stops	25mm	25mm w/Stops	31mm	31mm w/Stops
8	012-14002	012-S4002	012-14061	012-S4061	012-14181	012-S4181
10	012-14003	012-S4003	012-14062	012-S4062	012-14182	012-S4182
15	012-14004	012-S4004	012-14063	012-S4063	012-14183	012-S4183
20	012-14005	012-S4005	012-14064	012-S4064	012-14184	012-S4184
25	012-14006	012-S4006	012-14065	012-S4065	012-14185	012-S4185
30	012-14007	012-S4007	012-14066	012-S4066	012-14186	012-S4186
35	012-14008	012-S4008	012-14067	012-S4067	012-14187	012-S4187
40	012-14009	012-S4009	012-14068	012-S4068	012-14188	012-S4188
45	012-14011	012-S4011	012-14070	012-S4070	012-14190	012-S4190
50	012-14012	012-S14012	012-14071	012-S4071	012-14191	012-S4191
55	012-14013	012-S14013	012-14072	012-S4072	012-14192	012-S4192
60	012-14014	012-S14014	012-14073	012-S4073	012-14193	012-S4193
70	012-14015	012-S14015	012-14074	012-S4074	012-14194	012-S4194
80	012-14016	012-S14016	012-14075	012-S4075	012-14195	012-S4195
90	-	-	012-14077	012-S4077	012-14197	012-S4197
100	-	-	012-14078	012-S4078	012-14198	012-S4198
110	-	-	012-14079	012-S4079	012-14199	012-S4199
120	-	-	012-14081	012-S4081	012-14201	012-S4201
130	-	-	012-14082	012-S4082	012-14202	012-S4202
140	-	-	012-14083	012-S4083	012-14203	012-S4203
15-40*	012-14010	012-S4010	012-14069	012-S4069	012-14189	012-S4189
45-80*	012-14017	012-S4070	012-14076	012-S4076	012-14196	012-S4196
90-110*	-	-	012-14080	012-S4080	012-14200	012-S4200
120-140*	-	-	-	-	012-14204	012-S4204
90-140*	-	-	-	-	012-14205	012-S4205

* Assorted



UNION BROACH® ONYX-R® FILES (NICKEL TITANIUM FLEX-R® FILE)

Onyx-R® files are made from nickel titanium which allows the files to be more flexible in tightly curved canals. Onyx-R® files also feature a non-cutting “Roane” tip, which helps reduce the risk of ledging and transportation.

FEATURES

- Nickel Titanium is more flexible
- Non-cutting Roane tip
- Handles are ISO color coded and printed with the ISO file tip size
- Available in a variety of sizes, lengths and rubber stop configurations

BENEFITS

- Pre-bending files is not necessary; designed to follow the existing canal path
- Reduces chance of file ledging or transportation from occurring
- Allows for easy identification of file
- Meets the needs of dental professionals

Nickel Titanium - 6 per pack (.02 taper)

Standard Instrument Size	21mm No.	21mm w/Stops	25mm No.	25mm w/Stops
15	012-15001	012-S5001	012-15061	012-S5061
20	012-15002	012-S5002	012-15062	012-S5062
25	012-15003	012-S5003	012-15063	012-S5063
30	012-15004	012-S5004	012-15064	012-S5064
35	012-15005	012-S5005	012-15065	012-S5065
40	012-15006	012-S5006	012-15066	012-S5066
45	012-15008	012-S5008	012-15068	012-S5068
50	012-15009	012-S5009	012-15069	012-S5069
55	012-15010	012-S5010	012-15070	012-S5070
60	012-15011	012-S5011	012-15071	012-S5071
70	012-15012	012-S5012	012-15072	012-S5072
80	012-15013	012-S5013	012-15073	012-S5073
15-40*	012-15007	012-S5007	012-15067	012-S5067
45-80*	012-15014	012-S5014	012-15074	012-S5074

* Assorted



UNION BROACH® MOR-FLEX® FILES (STAINLESS STEEL FILE)

Mor-Flex® files are “K” type files with a cutting tip design. The files allow for comprehensive cleaning and shaping of the canal. The flat end of the handle may also be used as a radiographic landmark on X-rays. The files are manufactured from high quality stainless steel that ensures material strength of the file.

FEATURES

- Manufactured from high quality stainless steel
- Cutting tip
- Handles are ISO color coded and printed with the ISO file tip size
- Available in a variety of sizes and lengths

BENEFITS

- Helps ensure strength and quality of product
- Allows the file to be more aggressive at removing material from the canal
- Allows for easy identification of file
- Meets the needs of dental professionals

Stainless steel (.02 taper) - 6 per pack

Standardized

Instrument Size	21mm No.	21mm w/Stops No.	25mm No.	25mm w/ Stops No.	31mm No.	31mm w/Stops No.
6	012-10001	012-S0001	012-10060	012-S0060	012-10180	012-S0180
8	012-10002	012-S0002	012-10061	012-S0061	012-10181	012-S0181
10	012-10003	012-S0003	012-10062	012-S0062	012-10182	012-S0182
15	012-10004	012-S0004	012-10063	012-S0063	012-10183	012-S0183
20	012-10005	012-S0005	012-10064	012-S0064	012-10184	012-S0184
25	012-10006	012-S0006	012-10065	012-S0065	012-10185	012-S0185
30	012-10007	012-S0007	012-10066	012-S0066	012-10186	012-S0186
35	012-10008	012-S0008	012-10067	012-S0067	012-10187	012-S0187
40	012-10009	012-S0009	012-10068	012-S0068	012-10188	012-S0188
45	012-10011	012-S0011	012-10070	012-S0070	012-10190	012-S0190
50	012-10012	012-S0012	012-10071	012-S0071	012-10191	012-S0191
55	012-10013	012-S0013	012-10072	012-S0072	012-10192	012-S0192
60	012-10014	012-S0014	012-10073	012-S0073	012-10193	012-S0193
70	012-10015	012-S0015	012-10074	012-S0074	012-10194	012-S0194
80	012-10016	012-S0016	012-10075	012-S0075	012-10195	012-S0195
90	-	-	012-10076	012-S0076	012-10197	012-S0197
100	-	-	012-10077	012-S0077	012-10198	012-S0198
110	-	-	012-10078	012-S0078	012-10199	012-S0199
120	-	-	012-10079	012-S0079	012-10201	012-S0201
130	-	-	-	-	012-10202	012-S0202
140	-	-	-	-	012-10203	012-S0203
15-40*	012-10010	012-S0010	012-10069	012-S0069	012-10189	012-S0189
45-80*	012-10017	012-S0011	012-10076	012-S0076	012-10196	012-S0196
90-110*	-	-	012-10080	012-S0080	-	-
90-140*	-	-	-	-	012-10205	012-S0205
120-140*	-	-	-	-	012-10204	012-S0204

* Assorted



MILTEK® K FILES (STAINLESS STEEL FILE)

Miltek® K-files have a large helix angle which increases the cutting efficiency in the linear filing action as opposed to a reaming action.

FEATURES

- Handles are ISO color coded and printed with the ISO file tip size
- Available in a variety of sizes, lengths and rubber stop configurations

BENEFITS

- Allows for easy identification of file
- Meets the needs of dental professionals

Stainless Steel (.02 taper) - 6 per pack

Standardized Instrument Size	21mm	25mm	31mm
6	DKF21/06	DKF25/06	DKF31/06
8	DKF21/08	DKF25/08	DKF31/08
10	DKF21/10	DKF25/10	DKF31/10
15	DKF21/15	DKF25/15	DKF31/15
20	DKF21/20	DKF25/20	DKF31/20
25	DKF21/25	DKF25/25	DKF31/25
30	DKF21/30	DKF25/30	DKF31/30
35	DKF21/35	DKF25/35	DKF31/35
40	DKF21/40	DKF25/40	DKF31/40
45	DKF21/45	DKF25/45	DKF31/45
50	DKF21/50	DKF25/50	DKF31/50
55	DKF21/55	DKF25/55	DKF31/55
60	DKF21/60	DKF25/60	DKF31/60
70	DKF21/70	DKF25/70	DKF31/70
80	DKF21/80	DKF25/80	DKF31/80
15-40*	DKF21/15-40	DKF25/15-40	DKF31/15-40
45-80*	DKF21/45-80	DKF25/45-80	DKF31/45-80

* Assorted





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