



NiTi files  
manufactured  
by EDM



Safe, Simple & Smart

### Features

- Outstanding flexibility
- Abrasive surface
- Hardened surface

### Benefits

- High resistance to fracture
- High cutting efficiency
- Respect of the canal anatomy (no transportation, no ledging)
- Suitable for difficult canals (thin, curved, calcified)
- Anti-screwing effect
- Possible precurving to negotiate a difficult access or a ledge
- Allows endodontic treatment or retreatment



New feeling in endodontics



Neolix is ISO 13485 certified  
Neoniti instruments are Class IIa medical devices  
certified by GMED notified body (CE 0459)

Headquarters and manufacturing plant:  
NEOLIX SAS - 11 avenue Raoul Vadepié  
Châtres-la-Forêt - FR-53600 EVRON (France)

+33 2 5374 5007    neolix@neolix.eu

www.neolix.eu

- @NeolixOfficial
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## Thanks to our EDM process

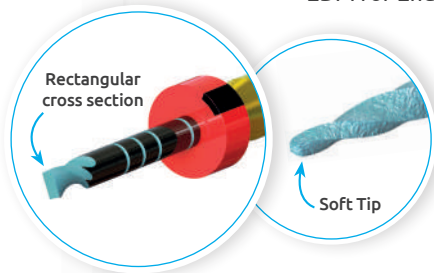
Our innovative and proprietary **EDM process (Electric Discharge Machining** or electro-erosion) consists of high-power and high frequency electric sparks between a hair-thin metal cutting wire and the in-process Nickel Titanium wire. This leads to locally melting and evaporating the Nickel Titanium alloy material off the NiTi wire, resulting in NiTi files with a desired geometry.

EDM has built-in advantages versus the conventional grinding process:

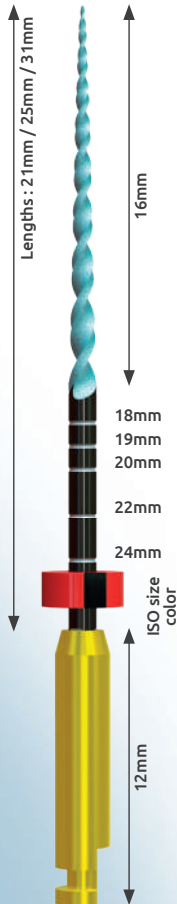
- The cutting wire (tool) is constantly renewed, preventing any risk of geometrical deviation due to a used tool.
- There is no mechanical contact between the electric cutting wire and the NiTi file, reducing the NiTi alloy stress hence the outcome of microcracks.
- EDM is performed in pure water in a closed-circuit and is free of oil, aerosols and organic solvents. As a result, EDM process respects the operator's health and the environment.

Thanks to our EDM process, NEONITI features an **Outstanding Flexibility**, an **Abrasive and Hardened Surface** resulting in benefits such as **High Cutting Efficiency**, **Resistance to Fracture**, **Respect of the Natural Canal Anatomy**, and more.

NEOLIX is a French startup industrial company founded in 2009, fully dedicated to its innovative and patented EDM process. NEOLIX is the worldwide only manufacturer to master EDM for Endodontics.



### Design information



### Recommended use

- Crown down technique
- Continuous rotation
- Speed 300 - 500 rpm
- Torque limit 1.5 N. cm
- Constantly irrigate
- Frequently wipe the file

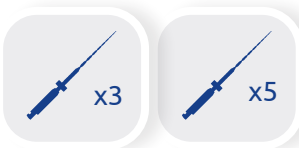
### Filling the canal

We generally recommend to use ISO color paper points and Gutta Percha points.

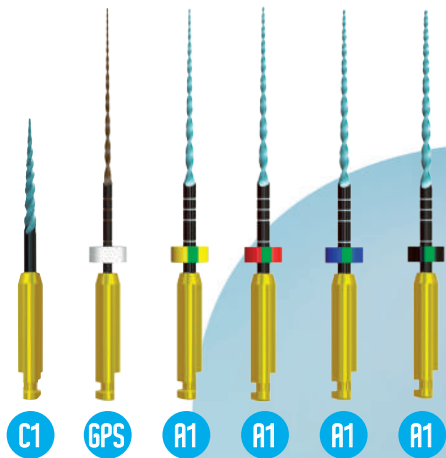
### For further information

Please refer to the instruction manual.

### Packaging



For more information, please refer to the product list.



<b>SIZE</b>	25	15	20	25	30	40
<b>TAPER</b>	.12	.03	.04 .06	.04 .06	.04	.04
<b>LENGTH</b>	15mm	21mm, 25mm & 31mm				



Dual-tone stopper allows to visually identify size & taper.  
Main color : ISO size  
Color stripe :  
Green .04 taper or Black .06 taper

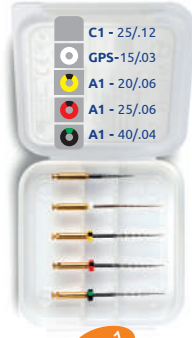
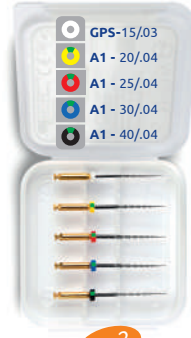
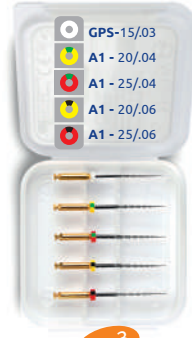
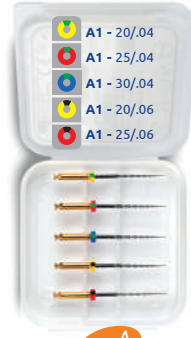

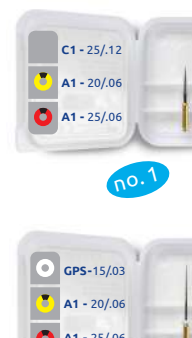

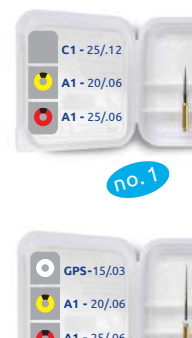



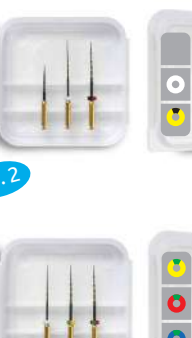



# neoniti product list

Extended range  
Two-tone stopper

neoniti

DESIGNATION		Length (mm)	Plate reference number	
			5 files/plate	3 files/plate
REFILL	<b>Neoniti C1</b> n°25/.12 Orifice opener	15	NXA 01 002 01 005	NXA 01 002 01 003
	<b>Neoniti GPS</b> n°15/.03 Glide path	21	NXA 01 007 02 005	NXA 01 007 02 003
		25	NXA 01 007 01 005	NXA 01 007 01 003
		31	NXA 01 007 03 005	NXA 01 007 03 003
	<b>Neoniti A1</b> n°20/.04 Shaper	21	NXA 01 008 02 005	NXA 01 008 02 003
		25	NXA 01 008 01 005	NXA 01 008 01 003
		31	NXA 01 008 03 005	NXA 01 008 03 003
	<b>Neoniti A1</b> n°20/.06 Shaper	21	NXA 01 005 02 005	NXA 01 005 02 003
25		NXA 01 005 01 005	NXA 01 005 01 003	
31		NXA 01 005 03 005	NXA 01 005 03 003	
<b>Neoniti A1</b> n°25/.04 Shaper	21	NXA 01 009 02 005	NXA 01 009 02 003	
	25	NXA 01 009 01 005	NXA 01 009 01 003	
	31	NXA 01 009 03 005	NXA 01 009 03 003	
<b>Neoniti A1</b> n°25/.06 Shaper	21	NXA 01 003 02 005	NXA 01 003 02 003	
	25	NXA 01 003 01 005	NXA 01 003 01 003	
	31	NXA 01 003 03 005	NXA 01 003 03 003	
<b>Neoniti A1</b> n°30/.04 Finisher	21	NXA 01 010 02 005	NXA 01 010 02 003	
	25	NXA 01 010 01 005	NXA 01 010 01 003	
	31	NXA 01 010 03 005	NXA 01 010 03 003	
<b>Neoniti A1</b> n°40/.04 Finisher	21	NXA 01 006 02 005	NXA 01 006 02 003	
	25	NXA 01 006 01 005	NXA 01 006 01 003	
	31	NXA 01 006 03 005	NXA 01 006 03 003	

ASSORTED	ASSORTED - 5 files/plate				Length	Plate ref. number	
	 no. 1	 no. 2	 no. 3	 no. 4	21 25 31	no. 1 NXA 01 004 08 005 NXA 01 004 04 005 NXA 01 004 09 005	
 no. 2						21 25 31	no. 2 NXA 01 004 18 005 NXA 01 004 16 005 NXA 01 004 20 005
 no. 3						21 25 31	no. 3 NXA 01 004 19 005 NXA 01 004 17 005 NXA 01 004 21 005
 no. 4						21 25 31	no. 4 NXA 01 004 27 005 NXA 01 004 24 005 NXA 01 004 26 005
 no. 1						21 25	no. 1 NXA 01 004 07 003 NXA 01 004 05 003
 no. 2						21 25	no. 2 NXA 01 004 13 003 NXA 01 004 10 003
 no. 3						21 25	no. 3 NXA 01 004 14 003 NXA 01 004 11 003
 no. 4						21 25	no. 4 NXA 01 004 15 003 NXA 01 004 12 003
 no. 5						21 25	no. 5 NXA 01 004 23 003 NXA 01 004 22 003
 no. 6						21 25	no. 6 NXA 01 004 28 003 NXA 01 004 25 003



10x5 files

Dealer pack-out sizes



5x3 files



NEOLIX SAS - 11, av Raoul Vadepiéd - Châtres-la-Forêt  
FR-53600 EVRON (France) - ☎ +33-2-5374-5007  
✉ neolix@neolix.eu - 🌐 www.neolix.eu



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100%  
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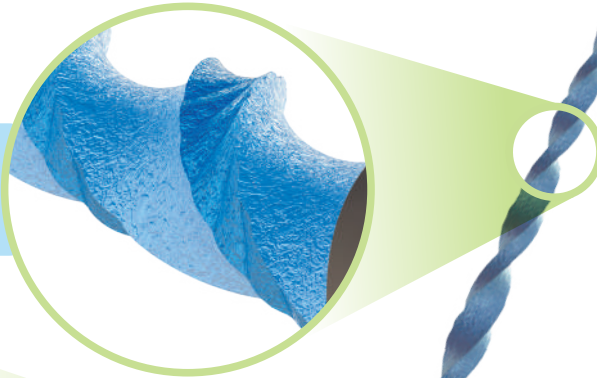
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# EDMax

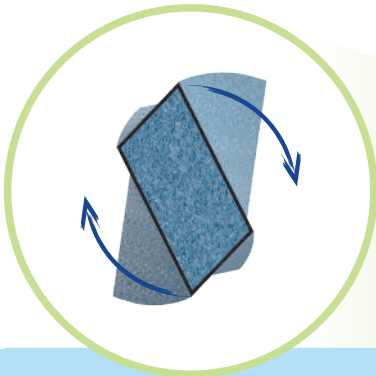
Max Efficiency  
Max Safety  
Max Respect

Max your Endo !

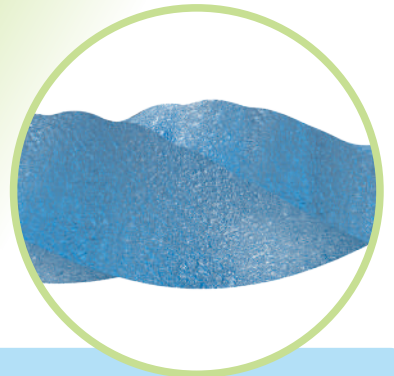
Streaked cutting edges  
➤ High cutting efficiency  
➤ Prevents screwing effect



Highly flexible NiTi alloy  
➤ Resistance to breakage  
➤ Respect of canal anatomy  
➤ Possible pre-curing

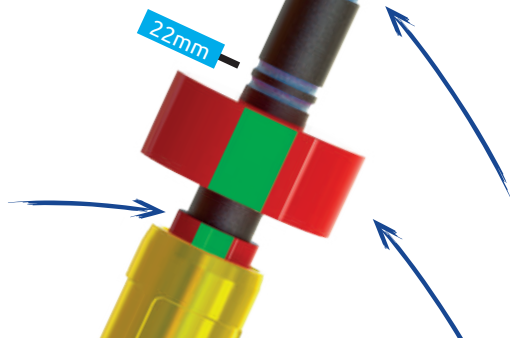


Non-rectangular variable parallelogram cross-section  
➤ Sharp cutting edges



Hardened and abrasive surface  
➤ Efficient wall brushing  
➤ Suitable for endo and re-endo

Two-tone ring replicate of stopper  
➤ Visual identification constantly possible even while in use without stopper



Doubled depth marks  
➤ Enhanced visibility


Size & taper laser marking  
➤ Secured identification



Two-tone silicone stopper  
ISO main color + 2nd color stripe  
➤ Size & taper visual identification

Batch no. laser marking  
➤ Traceability at the file level









# EDMax Product Range

	Size/Taper	Stopper color code	
Opener	20/.10	Translucent	
Glide path	15/.03	ISO white	
Shaper	20/.04	ISO yellow + green	
	20/.06	ISO yellow + black	
	25/.04	ISO red + green	
	25/.06	ISO red + black	
Finisher	30/.04	ISO blue + green	
	40/.04	ISO black + green	

Lengths: 21-25-31 mm (except opener: 15 mm)

## Recommended Protocol

Crown Down • Speed 500 rpm • Torque Limit 1.5 N.cm • Continuous rotation • Pecking and wall brushing motion • Recapitulate • Constantly irrigate the canal and wipe the file • Stop the preparation as soon as you meet resistance at the working length

Type of canal	Opener	Glide path	Shaper				Finisher	
	20/.10	15/.03	20/.04	20/.06	25/.04	25/.06	30/.04	40/.04
Large								
Medium	●	●	○	●	○	●	○	○
Narrow	●	●	●	○	●	○	○	○

For retreatments, EDMax 20/.06 also allows to efficiently remove Gutta Percha to desobturate the canal.

## The EDM Inventor for Endodontics

EDM (Electric Discharge machining) consists of high-power and high frequency electric sparks between a hair-thick metal wire cutting tool and the in-process NiTi file, that leads to locally melting and evaporating the material without mechanical contact between the electric wire and the file. This prevents the formation of microcracks in

the file structure, and brings unique features such as combined core softness and surface hardness + roughness resulting in NiTi files with SOFT POWER! EDMax also offers huge potential of amazing designs such as instruments with split blades for a wide range of possible breakthrough innovative applications.

Neolix, a French startup company founded in 2009, has been fully dedicated from the first day to its patented EDM process applied to Endodontics, and is the only worldwide manufacturer to master EDM for Endodontics, proudly as a pioneer.

After Neoniti file range launched in 2014 and already well established for its superior cyclic fatigue resistance, EDMax propels Neolix NiTi files up to new heights thanks to its optimized features and improved key advantages: **resistance to cyclic fatigue and torsional stress, high cutting efficiency, and respect of natural anatomy.**

**Thanks to its unique EDM process, Neolix opens a new era in Endodontics!**



### EDM also respects the environment and the operators health

- Machining is performed in closed-circuit permanently recycled water, to preserve this vital resource.
- Oil-free process avoids to produce dangerous aerosols and hazardous waste and it does not need organic solvents for the cleaning step.



NEOLIX SAS - 11, av Raoul Vadepied - Châtres-la-Forêt  
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# EDMax product list



# EDMax

Max your Endo !

	NiTi Files	Length	Reference number
			4 files/plate
REFILL	<p><b>EDMax Opener</b> 20/.10</p>	15 mm	NXE 03 002 01 004
	<p><b>EDMax Glide path</b> 15/.03</p>	21 mm 25 mm 31 mm	NXE 03 007 02 004 NXE 03 007 01 004 NXE 03 007 03 004
	<p><b>EDMax Shaper</b> 20/.04</p>	21 mm 25 mm 31 mm	NXE 03 008 02 004 NXE 03 008 01 004 NXE 03 008 03 004
	<p><b>EDMax Shaper</b> 20/.06</p>	21 mm 25 mm 31 mm	NXE 03 005 02 004 NXE 03 005 01 004 NXE 03 005 03 004
	<p><b>EDMax Shaper</b> 25/.04</p>	21 mm 25 mm 31 mm	NXE 03 009 02 004 NXE 03 009 01 004 NXE 03 009 03 004
	<p><b>EDMax Shaper</b> 25/.06</p>	21 mm 25 mm 31 mm	NXE 03 003 02 004 NXE 03 003 01 004 NXE 03 003 03 004
	<p><b>EDMax Finisher</b> 30/.04</p>	21 mm 25 mm 31 mm	NXE 03 010 02 004 NXE 03 010 01 004 NXE 03 010 03 004
	<p><b>EDMax Finisher</b> 40/.04</p>	21 mm 25 mm 31 mm	NXE 03 006 02 004 NXE 03 006 01 004 NXE 03 006 03 004
ASSORTED	<p><b>Assorted #1</b></p>	21 mm 25 mm 31 mm	NXE 03 012 02 004 NXE 03 012 01 004 NXE 03 012 03 004
	<p><b>Assorted #2</b></p>	21 mm 25 mm 31 mm	NXE 03 004 02 004 NXE 03 004 01 004 NXE 03 004 03 004
	<p><b>Assorted #3</b></p>	21 mm 25 mm 31 mm	NXE 03 013 02 004 NXE 03 013 01 004 NXE 03 013 03 004
	<p><b>Assorted #4</b></p>	21 mm 25 mm 31 mm	NXE 03 014 02 004 NXE 03 014 01 004 NXE 03 014 03 004



NEOLIX SAS - 11, av Raoul Vade pied - Châtres-la-Forêt  
FR-53600 EVRON (France) - Tel : +33-2-5374-5007  
Email : neolix@neolix.eu - www.neolix.eu



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