

# Produits Dentaires presents PD MTA White

PD (Produits Dentaires) Switzerland, developer and manufacturer of MAP System for the precise placement of repair material in the root canal presented at the IDS 2013 for the first time his PD MTA White.

Furthermore the very hygienic packaging in two sachets with 280 mg each shows an additional plus for a safe and successful treatment.



For more information please visit [www.pdsa.ch](http://www.pdsa.ch)

This new endodontic filling material was specially developed to be placed with MAP System but it could be placed with any other technique as well. The PD MTA White offers the following advantages:

- Optimized particle size;
- Avoids bacterial migration;
- Excellent marginal sealing capacity;
- Stimulates the formation of a dentine layer (pulp capping).

contact roots



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# RECIPROC—also efficient in retreatment



Within a short period, RECIPROC has proven to be a very successful system worldwide for root-canal preparation using a single instrument.

In addition, the system is effective in removing gutta-percha and carrier-based filling during retreatment. Thanks to the design of the instrument and its good cutting ability, the R25 is able to remove filling material efficiently and reach working length quickly.

If the canal then needs to be further enlarged, additional instrument sizes are available in the RECIPROC system.

With RECIPROC, retreatment is now easy, time-saving and safe. For more information and step-by-step instructional videos, see our website.

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# Axis | SybronEndo: Rotary Meets Endo

Author\_ Perry Lowe, USA



The name of our company, Axis | SybronEndo, is most likely both new and familiar to you, so allow me to elaborate.

Over the last year and a half, we have been combining the trusted American brand Axis Dental with the proven SybronEndo brand, with the aim of providing a global brand that focuses on workflow solutions; this led to the creation of the Axis | SybronEndo tag line "Rotary Meets Endo". The Axis products satisfy your restorative and endodontic hardware needs with a wide range of rotary instruments, diamonds, carbides and polishers that complement our SybronEndo endodontic product portfolio.

intra-canal resistance, or put more simply, rotary when you want it; reciprocation when you need it.

This exciting new product will enhance your approach towards endodontic therapy with its easy-to-use colour-coded system and the need for fewer instruments. I hope you will take a moment to try TF Adaptive the next time one of our sales professionals visits your office. Better yet, visit us at [www.tfadaptive.com](http://www.tfadaptive.com) to learn more about this revolutionary instrument and contact us to arrange for an in-office demonstration. I am confident you will like what you see and feel.

**\_contact** roots

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ROTARY MEETS ENDO

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What is most exciting about our future is our increased commitment to driving innovation that improves your experience with our products and improves quality of life for your patients. Recently, we introduced TF Adaptive, an innovative and complete NiTi file system that optimises the unmatched technology, design and clinical results of our classic Twisted File (TF) design, while offering you variable reciprocation according to



# A new manufacturing process for new NiTi rotary files

Author\_ Dr Arnaud Stanurski, France



Fig. 1

Fig. 2



Fig. 1 \_neoniti C1 (S25 - T12 - L10)

Fig. 2 \_neoniti A1 (S25 - T8 - L25)

\_NEOLIX, a French start-up company, is the first manufacturer to machine nickel-titanium (NiTi) files on an industrial scale, using a newly developed wire-cut electrical discharge machining (EDM) process. This manufacturing process entails the melting, evaporation and ejection of material within a dielectric field. The energy required for the machining is produced by high-frequency electrical discharges between two electrodes, that is, the workpiece on the one side and the cutting wire on the other side.

As recently described by Pérard et al.,<sup>1</sup> the main advantages of the EDM process over the conventional grinding process for manufacturing files are high precision—down to the micron; stable machining parameters owing to the constant and automatic adjustment of the cutting tool; stress limited to the metal surface of the workpiece; a wide range of potential geometric designs owing to the lack of tool constraints; three-day walk-away autonomy; and an oil-free, clean process. Furthermore, EDM naturally produces a rough surface on the workpiece, resulting in abrasive properties that greatly enhance the cutting speed of the NiTi rotary files.

With all these advantages, combined with an appropriate heat treatment to lend *progressive flexibility* to the files,<sup>2</sup> EDM signals a new era in the industrial production of NiTi files and the development of innovations in endodontology.

Using its exclusive EDM manufacturing process, NEOLIX has developed neoniti, a new brand of NiTi rotary files. Two files have been developed thus far: \_neoniti C1, an orifice opener (S25, T12 and L10); and \_neoniti A1, for root-canal preparation to full working length (S25, T8 and L25).

A series of preclinical tests were performed on natural teeth (20 maxillary molars) using a Nouvag endodontic motor set at 400 rpm continuous rotation. An initial glide path had been created beforehand using #10 K-files. The canals were constantly irrigated with a 2.5% sodium hypochlorite solution.

## \_Preliminary results

The neoniti C1 file has a high cutting efficiency, no screwing effect, and good flexibility even towards the handle, allowing good tactile perception during the circumferential brushing action. The repositioning of the canal orifices can be achieved easily and quickly.

The neoniti A1 file has no screwing effect, can achieve an easy and safe access to the apex even in the case of curved canals, and has a rounded *gothic* tip, achieving a satisfying shape of the apex for later successful root-canal filling. According to the preliminary results, it appears that the neoniti A1 file can be used for a single-instrument technique in continuous rotation after the use of the orifice opener. Further studies should be carried out to corroborate these promising preliminary results.

## References

1. M. Pérard et al., "INITIAL: Début d'une nouvelle ère d'instruments endodontiques?" *Roots France*, 1 (2012): 32–8.
2. Courtesy of Dr John McSpadden.

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