

Reciproc®

The Pioneer –
Tough and unyielding
for retreatments

Reciproc® Blue

The Allrounder –
Flexible and strong
for everyday

NEW

Reciproc® Minima

The Precisionist –
Sleek for challenging cases

dentsplysirona.com

The Reciproc® Family

Three heroes. One mission:
Striving for efficiency



A brand of Dentsply Sirona

TRUSTED
ENDO
PARTNER

Imagine true one-file endo is possible ...



Time savings

Shaping the canal would take less time.



Organization

Inventory and storage management would be simplified.



Cost savings

Treatment costs could be significantly reduced.¹



Productivity

Time savings could lead to less stress for the dentist and his team or be reinvested in additional treatments.



Peace of mind

Even inexperienced dental assistants could easily handle the setup before and during the treatment – without hesitation about which file to hand to the clinician next.

Conventional rotary file solution:

- 1 scouting file: EUR 2,99
- 1 glidepath file: EUR 19,89
- 2 shaping files (S1 & S2): EUR 15,03 each
- 2 finishing files (F1 & F2): EUR 15,03 each
- PP + GP: EUR 4,41

Total: EUR 87,38

Reciproc® Blue:

- 1 file: EUR 18,84
- PP + GP: EUR 3,40

Total: EUR 22,24

EUR
87,38

EUR
22,24

¹ Cost savings: Based on a comparison between ProTaper Universal sequence and Reciproc® Blue in most cases. ² Number of publications on the Reciproc® family from PubMed (key words: Reciproc (title/abstract), on June 30, 2023). ³ In vivo study: Treatment of MB2 of more than 300 patients, 2 groups – Reciproc® vs. hand file: 85,6% R25 successfully reached working length while only in 57,5% hand file group successfully reached working length. Mario Luis Zuolo, Maria Cristina Carvalho, and Gustavo De-Deus; J Endod. 2015; 41(11): p. 1913-7. ⁴ The elastic deformation limit (before plastic deformation) is two times higher than the counterclockwise angle of the Reciproc® motor motion. Internal data on file. For more information, contact Consumables-Data-Requests@dentsplysirona.com. ⁵ Ex vivo study: Treatment of 100 molars with 308 canals: 98,7% Reciproc® Blue was able to reach full working length without an initial glidepath. G. De-Deus, M. L. Cardoso, F. G. Belladonna, D. M. Cavalcante, M. Simoes-Carvalho, E. M. Souza, R. T. Lopes, E. J. N. L. Silva; Performance of Reciproc® Blue R25 Instruments in Shaping the Canal Space without glidepath; J Endod. 2019 Feb; 45(2): 194-198. ⁶ Elmaasarawi A, Mekhemar M, Bartols A. Influence of different endodontic treatment protocols on tooth survival: A retrospective cohort study with multistate analysis and group balancing. Int Endod J. 2025 Jun 13. doi: 10.1111/iej.14271. Epub ahead of print. PMID: 40509940.

... without increased risk ...



Backed by 650+ peer-reviewed publications²



Low risk of file breakage

Genuine Reciproc® motion with Dentsply Sirona motors delivers precise acceleration and deceleration. The cutting angle remains below the file's elastic deformation limit, reducing the risk of file breakage⁴.



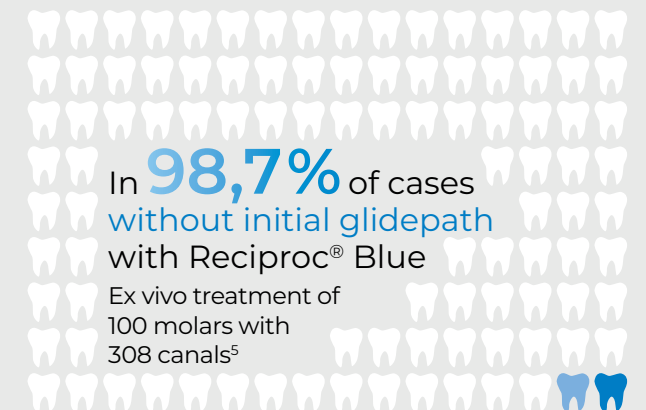
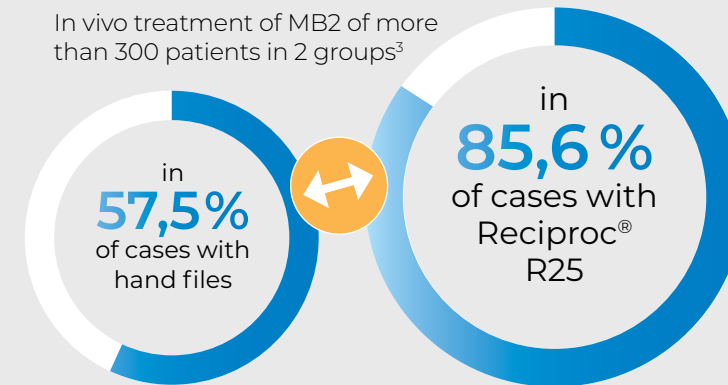
More than 40 million files sold

In use worldwide since 2011

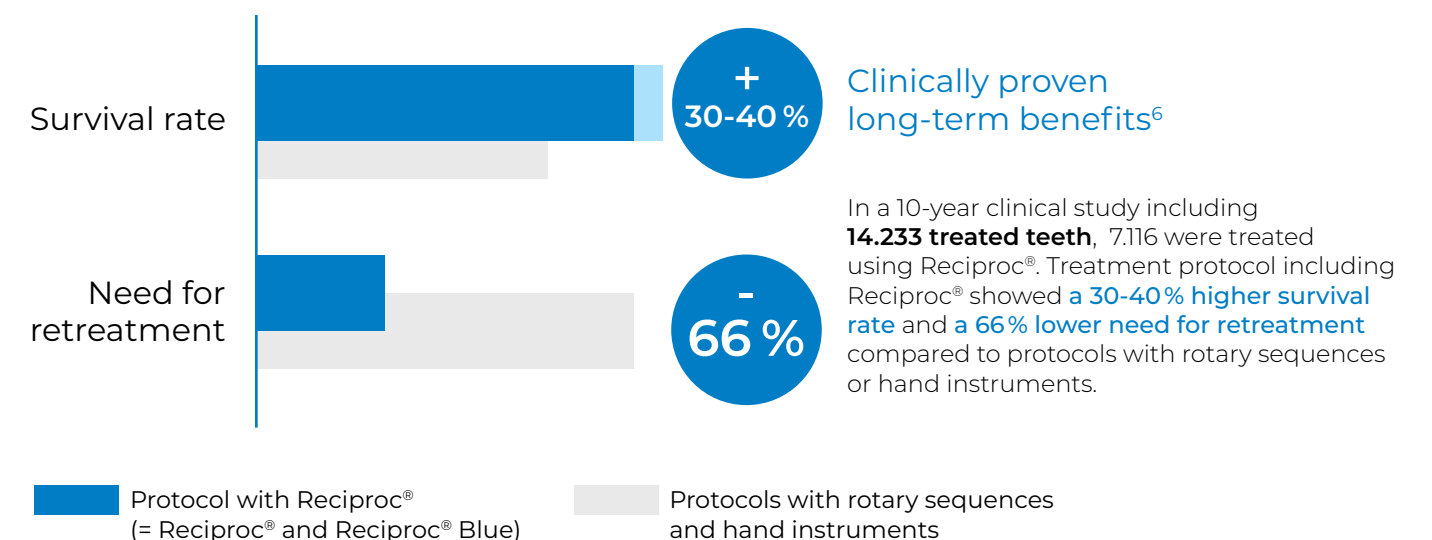


Reaching full working length without initial glidepath or scouting in most of the cases

In vivo treatment of MB2 of more than 300 patients in 2 groups³



... and higher clinical success rates.



Retreatment– Reciproc® Blue & Reciproc®

The no glidepath concept – your ace in retreatments

Reciproc® Blue and Reciproc® are designed to successfully retreat teeth endodontically. They are made for use without a glidepath – making them particularly suitable for retreatments, where glidepath preparation is not part of the protocol.

See how
it works:



For clinicians preferring a slightly stiffer file we recommend to use Reciproc® featuring M-Wire®.



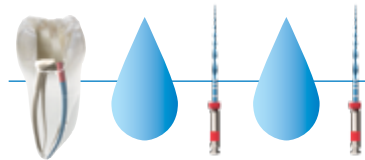
Reciproc® is produced with **M-Wire® Nickel-Titanium (NiTi)** in a patented thermal treatment process.

Reciproc®

The Pioneer –
Tough and unyielding for retreatments

The original.
Built with strength and firmness.
With him, the story began.
Today he fearlessly takes on retreatments.

Sequence for retreatment



For more details,
please revisit the IFU:
dentsplysirona.com/ifu

1. Remove the bulk of the Gutta-Percha in the coronal third with an appropriate instrument.
2. Iterate between using Reciproc® Blue R25 and applying solvent until working length is reached.
3. Use brushing motion against lateral walls to remove residual obturation material.

X-Smart® Pro+
Not just a motor.
A mission partner.

Endo motor with integrated apex locator

- Featuring Dynamic Accuracy™ Technology
- Efficient precision and responsive control
- Perfect match:
specifically designed to drive VDW and Dentsply Sirona endodontic file systems.



Reciproc® Blue

The Allrounder – Flexible and strong for everyday

The mainstay.

More flexible than his predecessor, perfectly balanced for the daily grind of shaping.
Your go-to in most of the cases.



No initial scouting and glidepath

Designed for one-file endo:

In ex vivo treatment of 100 molars with 308 canals, Reciproc Blue® was able to reach full working length without an initial glidepath⁷

in **98,7 %** of cases.



Easy to learn and easy to teach

- Reduces the variety of procedural errors⁸ compared to rotary NiTi systems.
- The instrument moves without pushing so that stress on dentin is minimized.



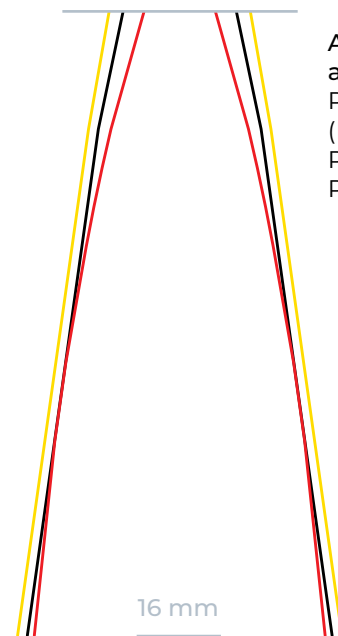
Time-saving

- The S-shaped cross section progresses smoothly and cuts efficiently thanks to its special design.
- Time-saving compared to a traditional rotary file system.
- No reprocessing needed thanks to single use.



Blue heat treatment

- Original reciprocating motion combined with blue heat treatment lead to higher resistance to cyclic fatigue and a reduced risk of fracture.⁹
- Blue heat treated NiTi improves centering abilities of the file to reduce canal transportation.



Average taper along the file:
R25: 5,0 %
(MFD: 1,05 mm)
R40: 4,4 %
R50: 4,2 %

File design details

Non-cutting tip

S-shaped cross-section



Radiopaque calibration rings for good visibility

Length: Calibration rings at:
21 mm 18, 19, 20 mm
25 mm 18, 19, 20, 22 mm
31 mm 18, 19, 20, 22, 24 mm

11 mm short handle

⁷ G. De-Deus, M. L. Cardoso, F. G. Belladonna, D. M. Cavalcante, M. Simoes-Carvalho, e. M. Souza, R. T. Lopes, E. J. N. L. Silva; Performance of Reciproc® Blue R25 Instruments in Shaping the Canal Space without Glidepath; J Endod. 2019 Feb; 45(2): 194-198) ⁸ Based on less files in clinical sequence, easy selection of file to suit the case, no change in motor settings ⁹ Reciproc® Blue has in total a 2,3 times higher cyclic resistance compared to Reciproc®.

NEW

Reciproc® Minima

The Precisionist – Sleek for challenging cases

The next gen.

Slim and agile – the ideal choice for narrow and challenging canals.
She goes where others can't.



Building on Reciproc® heritage

- No initial glidepath and scouting – designed for one file endo¹⁰
- Easy to learn
- Time-saving¹¹
- Blue heat treatment



Treat more canal anatomies with one-file endo

Reaching working length without initial glidepath

86,7 %

Reciproc®
Minima R20



67,5 %

Reciproc®
Blue R25

Share of cases in ex vivo study on 75 extracted mandibular molars¹²

90 %

Reciproc®
Minima R20



60 %

EdgeOne-
R Utopia™ R20

Share of cases in ex vivo study on 20 extracted anterior teeth with narrow or partially calcified canals¹³

Instrument unwinding

0 %

Reciproc®
Minima R20



50 %

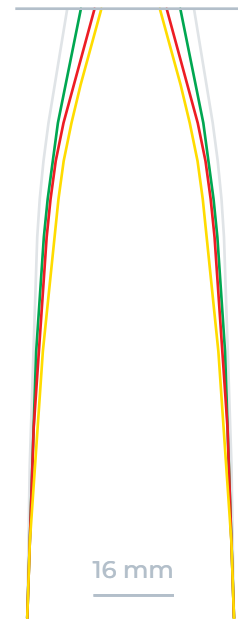
EdgeOne-
R Utopia™ R20

Share of cases in ex vivo study on 20 extracted anterior teeth with narrow or partially calcified canals¹³

Convincing practitioners

In 95 % of cases,

clinicians who treated more than 80 canals agree that using Reciproc® Minima improves the ability to reach working length in narrow and strongly curved canals (e.g. MB2)¹⁴



Average taper along the file:
R20: 3,6 %
(MFD: 0,77 mm)
R25: 3,3 %
R35: 2,6 %
R45: 2,0 %

File design details

Non-cutting tip



S-shaped cross-section

Radiopaque calibration rings for good visibility

Length: Calibration rings at:
21 mm 18, 19, 20 mm
25 mm 18, 19, 20, 22 mm
31 mm 18, 19, 20, 22, 24 mm

9,5 mm short handle

¹⁰ G. De-Deus, M. L. Cardoso, F. G. Belladonna, D. M. Cavalcante, M. Simoes-Carvalho, E. M. Souza, R. T. Lopes, E. J. N. L. Silva; Performance of Reciproc® Blue R25 Instruments in Shaping the Canal Space without Glidepath; J Endod. 2019 Feb; 45(2): 194-198) ¹¹ Time-saving compared to traditional rotary file systems, based on less files in clinical sequence and single use. ¹² On-going study (CRE 24-04) "The Influence of Operator Experience in the Performance and Fracture Rate of Minima Instruments" Prof. De-Deus, Fluminense Federal University (Brazil). Internal data on file. For more information, contact Consumables-Data-Requests@dentsplysirona.com. ¹³ On-going study (CRE 25-01) "Negotiation of Narrow and Calcified Root Canals Using Reciproc® Minima, TruNatomy, and EdgeOne-R Utopia" Prof Martin Vorster, University of Pretoria, South Africa. Files randomly assigned to Reciproc® Minima R20 or EdgeOne-R Utopia™ R20 (n=10 each). Internal data on file. For more information, contact Consumables-Data-Requests@dentsplysirona.com. ¹⁴ In an in vitro user evaluation with 20 dentists, 95,24 % agreed (n=21) that using Reciproc® Minima improves the ability to reach working length in narrow and strongly curved canals (e.g. MB2) compared to current Reciproc® brands. Internal data on file. For more information, contact Consumables-Data-Requests@dentsplysirona.com.

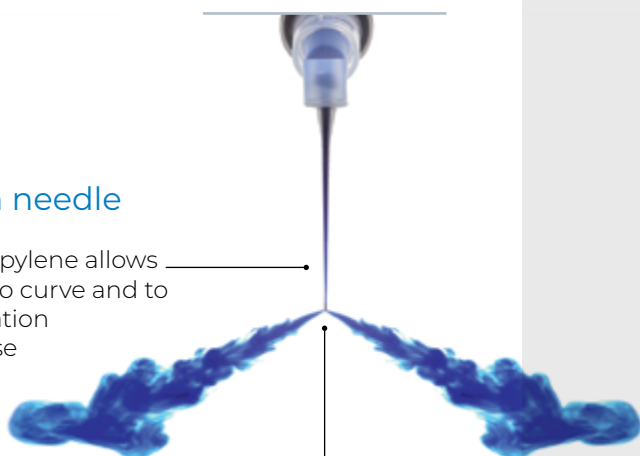
Irrigation Instruments

Irrigation needle

Soft polypropylene allows the needle to curve and to deliver irrigation solution close to the apex.

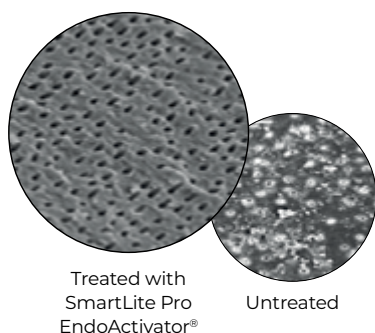
Two lateral openings aim directly at the dentinal walls.

Closed end reduces the risk of extrusion at the apex.

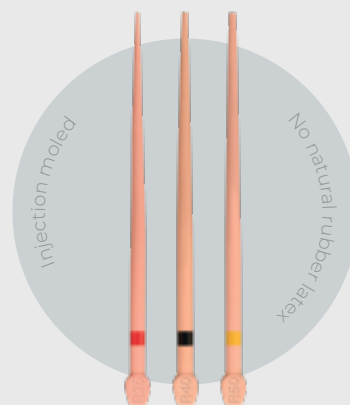


SmartLite Pro EndoActivator®

Passive soaks are not enough. Activating irrigant solution produces a surface with more opened dentinal tubules, providing better obturation of lateral and accessory canals.¹⁵



Obturation Products



Conform Fit® Gutta-Percha

Standard Gutta-Percha is hand rolled. Our Conform Fit® Gutta-Percha is injection molded for consistent sizing and predictable fit.

AH Plus Jet®

The Endo Sealer Gold Standard¹⁶

The most globally researched endodontic sealer and proven clinical success with more than 100 Million root canal fillings.¹⁷

Automix syringe

Controlled mixture of both pastes, no manual mixing



¹⁵ Kanter V, Weldon E, Nair U, Varella C, Kanter K, Anusavice K, Pileggi R. A quantitative and qualitative analysis of ultrasonic versus sonic endodontic systems on canal cleanliness and obturation. Oral Surg Oral Med Oral Pathol Oral Radiol Endod. 2011 Dec; 112(6):809–813. ¹⁶ BMC Oral Health. 2024 Mar 19. ¹⁷ Internal data on file. For more information, contact Consumables-Data-Requests@dentsplysirona.com.

Quality at Dentsply Sirona

Dentsply Sirona is your Trusted Endo Partner, committed to clinical evidence, quality and innovation. With advanced technologies, patented designs, and rigorous quality checks, we enhance outcomes and simplify workflows.

Our global presence, education partnerships, and proven excellence – reflected in certifications, patents, and 140+ million instruments annually – demonstrate our dedication to supporting clinicians worldwide.



Your **Reciproc®** files are engineered in Ballaigues, Switzerland, in our global R&D center for Endodontics.

TRUSTED
ENDO
PARTNER



A brand of Dentsply Sirona

			
Reciproc® and Reciproc® Blue Files, Gutta-Percha	VDW GmbH, Bayerwaldstraße 15, 81737 Munich, Germany		0123
Reciproc® Minima Files, Gutta-Percha	Maillefer Instruments Holding Sàrl, Chemin du Verger 3, 1338 Ballaigues, Switzerland	Dentsply DeTrey GmbH, De-Trey-Straße 1, 78467 Konstanz, Germany	2797
Irrigation Needle	Produits Dentaires SA, Rue des Bosquets 18, 1800 Vevey, Switzerland	PD Dental EU, 74200 Thonon-les-Bains, France	0425
SmartLite Pro EndoActivator®	Dentsply LLC 1301 Smile Way, York, PA 17404, USA	Dentsply DeTrey GmbH, De-Trey-Straße 1, 78467 Konstanz, Germany	2797
AH Plus Jet® Sealer	Dentsply DeTrey GmbH, De-Trey-Straße 1, 78467 Konstanz, Germany		0123
X-Smart® Pro+	Sirona Dental Systems GmbH, Fabrikstraße 31, 64625 Bensheim, Germany		0123