

Reciproc family

Take the one
that fits best



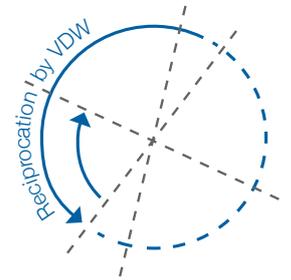
The RECIPROC[®] story

Inspired to find a simpler and more convenient safe way to successfully prepare a root canal, Prof. Ghassan Yared, at that time Professor of the Endodontic Undergraduate and Graduate Programmes at the University of Toronto, started researching and testing mechanical reciprocation with NiTi instruments. In 2008, he published a clinical article on canal preparation using only one engine-driven NiTi instrument and joined together with VDW to start developing a system specifically to be used in reciprocation. The idea of RECIPROC[®] was born.

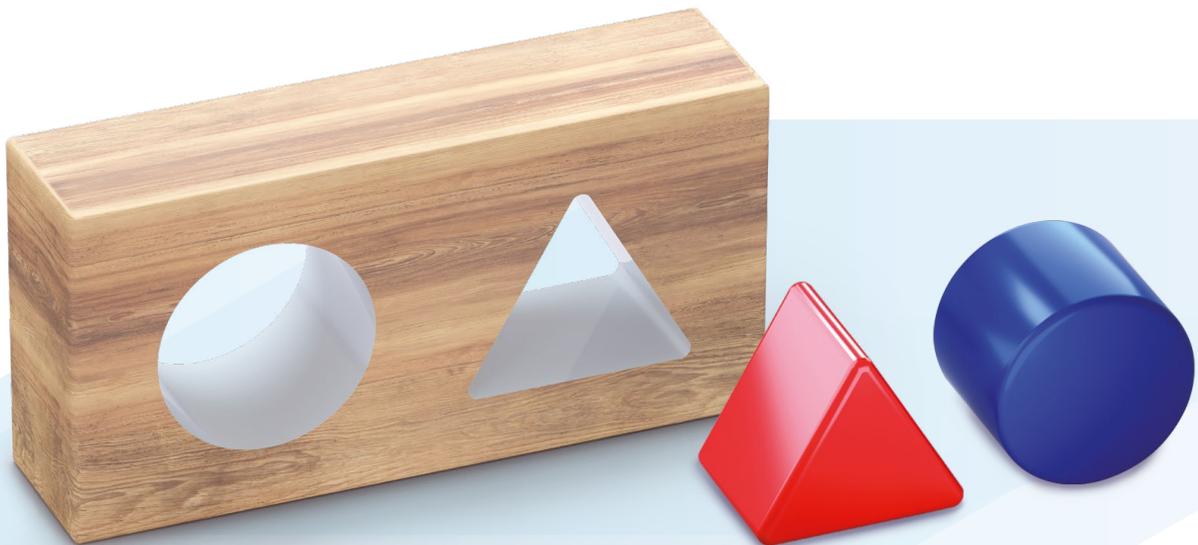
The launch of RECIPROC[®] in 2011 introduced root canal preparation with only one mechanical instrument used in reciprocation, without a glide path. This new concept was a paradigm shift.

Reciprocation by VDW

The reciprocating instrument alternates between clockwise and counterclockwise rotation. A rotation of 360° is completed in several reciprocating movements. Due to the fact that the rotation in the cutting direction is larger than the reverse rotation, the instrument advances towards the apex.



The Reciproc family: Take the one that fits best



The universal and flexible instrument for the majority of cases.



The instrument particularly efficient for retreatments.

Benefits of reciprocation

The Reciproc family (RECIPROC® and RECIPROC® blue) is the biggest achievement in VDW history with over **22 million files sold** until today, making VDW one of the market leaders for reciprocating instruments worldwide. Since launching, more than **400 studies** and **scientific publications** from all over the world have supported the benefits of the Reciproc family.

Easy

- RECIPROC® and RECIPROC® blue instruments are designed for **one file shaping**. Thus, a root canal can be completely prepared with only one reciprocating instrument – without creating a glide path in the majority of cases.
- Root canal preparation with the Reciproc family is **easy to learn and easy to teach** – with less likelihood of procedural errors* compared to rotary NiTi systems.
- The **selection of the file** is easy. Choose the member of the Reciproc family that suits your case best.

Safe

- The original reciprocating motion with its specific angles of rotation as well as its controlled acceleration and deceleration lead to **higher resistance to cyclic fatigue** and **a reduced risk of instrument fracture**.
- Provided in sterile blisters for single use, instruments of the Reciproc family offer a **reduced risk of cross contamination**.
- An **overuse of files is prevented** thanks to the single use instrument approach.

Efficient

- The **s-shaped cross-section** progresses smoothly and **cuts efficiently** thanks to its special design. The instrument moves without pushing, so that stress on dentin is minimized.
- The root canal **preparation time is reduced**. Less time for shaping means more time for disinfection and more patients treated.
- Files are made to be used for a single treatment only for **constant cutting efficiency**.



RECIPROC®

RECIPROC® blue

CE

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Match your case with the right member of the Reciproc family.

RECIPROC® blue

Constantly striving for innovation, VDW developed a heat treatment solution to bring more flexibility to NiTi. Five years after launching RECIPROC®, VDW presented RECIPROC® blue in 2016 – an universal and flexible instrument for the majority of cases.

Features

Short 11 mm nickel plated shaft enabling better access to molars

Silicone stopper in the ISO color of the specific RECIPROC® blue instrument tip size

Working length 21 mm, 25 mm and 31 mm

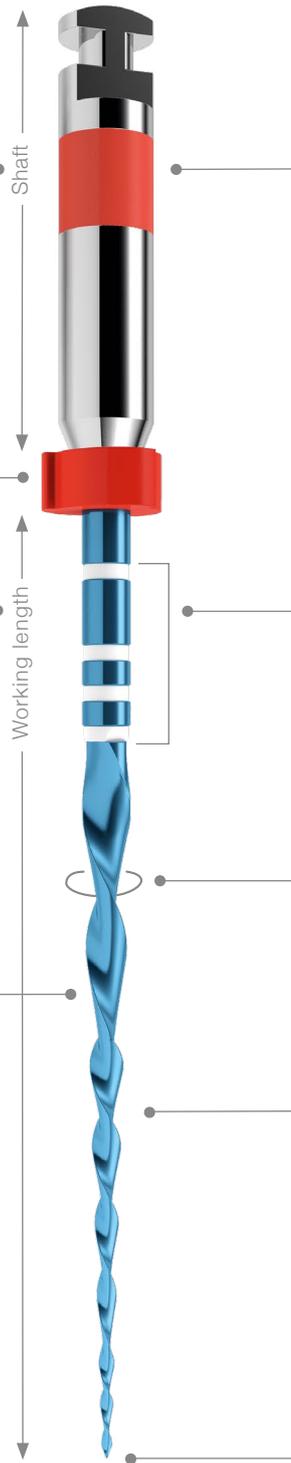
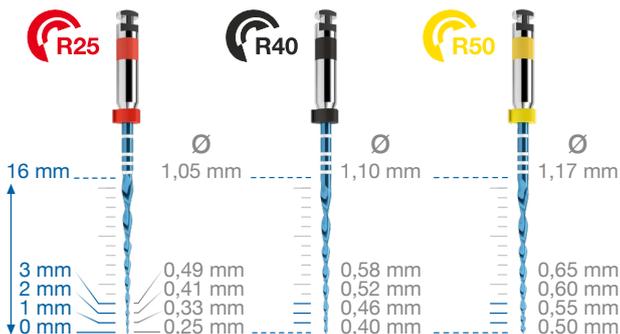
Variable taper

- R25 prepares the root canal to a diameter of 0.25 mm with a taper of .08 over the first apical millimeters.
- R40 prepares the root canal to a diameter of 0.40 mm with a taper of .06 over the first apical millimeters.
- R50 prepares the root canal to a diameter of 0.50 mm with a taper of .05 over the first apical millimeters.

narrow canals

medium canals

large canals

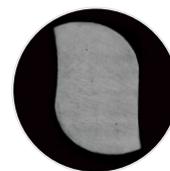


ISO color coding

Radiopaque calibration rings

| 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 |

S-shaped cross-section



Heat treated NiTi material

RECIPROC® blue files are produced with Nickel-Titanium (NiTi) that goes through an innovative heat treatment.

Non-cutting tip



Benefits

Easy

Safe

 **RECIPROC**[®] *blue*

Efficient

Flexible

- The instrument **progresses smoothly** into the canal thanks to the heat treated NiTi alloy.
- It is possible to **prebend** the instrument for an **easier access** to the canal.
- The instrument **follows the natural canal anatomy smoothly** thanks to its blue heat treatment making the file more flexible.
- The flexibility obtained by the blue heat treatment improves the **centering abilities** of the instrument to reduce canal transportation.



Blue heat
treatment



Courtesy of Dr. Jörg Tchorz

The improved NiTi treatment

RECIPROC[®] *blue* instruments are produced with Nickel-Titanium (NiTi) that goes through an innovative heat treatment, modifying its molecular structure to give it **increased resistance to cyclic fatigue** and **additional flexibility** as well as its characteristic blue color.

RECIPROC®

2011 was a milestone in VDW history, marking a paradigm shift in endodontics. With RECIPROC®, VDW launched a reciprocating one-file shaping system in combination with a new motion which would soon become a pillar in root canal treatment. The instrument demonstrates its particular efficiency when used for retreatments.

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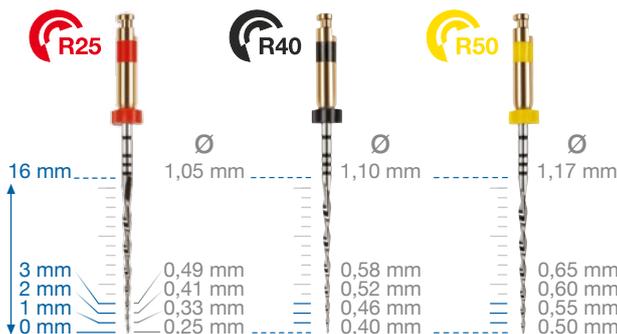
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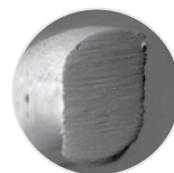


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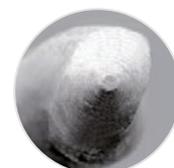
S-shaped cross-section*



m-wire®
nickel titanium

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

Non-cutting tip*



*Images:
Dr. David Sonntag,
University of Frankfurt

Benefits

Easy



Safe

Efficient

"With the Reciproc concept, I wanted to introduce the notion of the path of least resistance. With its centering ability and the design of the instrument, the reciprocating technique allows the Reciproc instrument to follow the existing and natural path of least resistance, which is the canal, without the need for an initial scouting or a glide path in the majority of cases."

Prof. Ghassan Yared, Toronto, Canada, inventor and designer of Reciproc concept

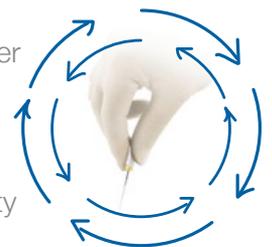


"Nowadays, when I have a retreatment scheduled and for any reason I do not have a RECIPROC® R25 available, I might even reschedule the appointment. There is a technical reason why this file can be considered the best for retreatment on the market: thanks to the movement and the specific technical features, it can work without a previously established glide path, and in retreatment we always work without it. The excellent cutting action and the specific tip design do the rest."

Dr. Nicola M. Grande, Rome, Italy

Verified fit

Inspired by the natural forward and reverse movement of hand filing, the VDW team – together with expert endodontists – developed a revolutionary concept that was patented by VDW: the reciprocating motion. Defined by its precise and specific angles of rotation and its controlled acceleration and deceleration, the original reciprocating motion translated the natural hand movement to instrument design and motor settings to ensure ease of use, safety and efficiency of endodontic treatment.



RECIPROC blue
RECIPROC®

VDW.GOLD® RECIPROC®
Comprehensive endo motor with integrated apex locator

RECIPROCATION
RECIPROC ALL

VERIFIED FIT

Manufactured within one company – designed to work together.

The Endo-System

Anyone relying on VDW products does not just get a number of individual products to be used separately for each treatment step, but rather a system of devices that are linked to one another. From preparation to post-endo, we offer a complete range of products that are complementary with the Reciproc family.

Preparation

VDW.GOLD®RECIPROC®
VDW.SILVER®RECIPROC®
RECIPROC® direct
RAYPEX® 6



For an endo treatment in original reciprocating motion, VDW recommends the use of RECIPROC® and RECIPROC® *blue* instruments in combination with VDW endo motors – developed, tested and made to work together. Benefit from a safe and easy root canal preparation and create optimal conditions for disinfection.

The result: full control from the start.

Irrigation

EDDY®
Sonic-powered
irrigation tip



Increase the likelihood of a successful root canal filling with efficient irrigation.

The result: maximum cleaning with minimum effort.

Obturation

GUTTAFUSION®
Warm obturation
with gutta-percha
carrier
Gutta-Percha cones



Root canals prepared with the Reciproc family have a shape suitable for all obturation techniques. Predictably fill the entire root canal system by using a single cone, warm vertical compaction or warm carrier-based technique.

The result: a filling that delivers what it promises.

Post-Endo

D.T. Light-Posts
Quartz fibre posts
with double taper
shape



Achieve even more safety in post-endodontic treatment by using root canal posts.

The result: the ideal prerequisite for long-term treatment success.