The One Shape® Solution
The simplicity asset in endodontics

Your Endo Specialist™
Total Solution

Discover the new One Shape® Solution and test the difference.

One Shape® Solution

One Shape® Apical
Apical Finishing

One Shape® GP Points

One Shape® Paper Points

Endo Motor

MM control

ENDOFLARE® Access Cavity

Establishing the Glide Path

MMC

Shaping the Root Canal

One G
The One Shape® solution

04 Introduction
05 Discover the One Shape® Solution
06 ENDOFLARE®
07 One G
08 One Shape®
12 One Shape® Apical
13 One Shape® Obturation

14 MM • control
15 Convenient packaging
16 Testimonials
18 Clinical cases
20 Bibliography
23 Regulatory information
Introduction

The objective of each endodontic treatment is the prevention or elimination of any periapical lesion. The respect of the canal anatomy from the coronal to the apical third is an essential factor which determines the treatment’s success. The 5 steps of the root canal preparation are: 1) access cavity, 2) establishing the glide path, 3) shaping, 4) irrigation and 5) obturation.

It is in this perspective that MICRO-MEGA® has designed the One Shape® Solution in order to make your root canal treatment even simpler, safer and more efficient. The One Shape® Solution comprises the following instruments:
- ENDOFLARE® - Flaring
- One G and MMC hand files no. 10 and 15 - Establishing the glide path
- One Shape® - Shaping
- One Shape® Apical - Apical finishing
- One Shape® Obturation - One Shape® Gutta Percha Points and One Shape® Paper Points
- MM • control - Endodontic motor with torque and speed control + integrated apex locator

“The One Shape® solution brings you all the simplicity and the efficiency you are looking for in endodontics.”
One Shape® Solution benefits

The One Shape® Solution brings you:

- **Simplicity**: a complete turn-key solution.
- **Efficiency**: ready-to-use instruments.
- **Safety**: an endodontic motor with torque and speed control + integrated apex locator.

“One Shape®, the total solution for endodontics!”

1. **One G**
   - single instrument for glide path development

1. **One Shape®**
   - single instrument for canal shaping
**Access cavity**

**ENDOFLARE®** is a NiTi instrument to be used at the beginning of the treatment in order to eliminate axial coronal constraints. This step is essential to avoid stresses on the shaping instruments and thus limit the risk of premature instrument breakage.

**ENDOFLARE®: N°25 - .12**

- Enlarges and opens the canal entrances.
- Eliminates coronal-radicular constraints.
- Facilitates the insertion of the instruments for root canal preparation.
Establishing the glide path

Glide path development is an important and indispensable step in the root canal preparation. The initial scouting is performed with an MMC hand file no. 10. In case of canals difficult of access, mechanized NiTi files must be used. For this purpose, MICRO-MEGA® has designed One G, a sterile, single-use rotary NiTi file for glide path development which is indicated in case of canals difficult of access when hand files are not sufficient.

One G: N°14 - .03

- Resistant to cyclic fatigue and twisting¹.
- Particularly useful for canals difficult of access and highly mineralized canals with strong curvatures.
- Safety: limits the risk of endodontic errors (creation of ledge, false canal, canal transportation, etc.).

¹ "The prototype of the uG* file showed higher cyclic fatigue resistance than the G2 file and intermediary torsional strength and screw-in forces situated between the G1 and the G2 file."
Jung-Hong Ha, DDS, MS, PhD, Chan-Joo Lee, PhD, Sang-Won Kwak, DDS, MS, Rashid El Abed, BDS, CO, JB, Dongseok Ha, DDS, Hyeon-Cheol Kim, DDS, MS, PhD
Geometric Optimization for Development of Glide Path Preparation Nickel-Titanium Rotary Instrument
J Endod – June 2015

* One G
One Shape® is one single NiTi instrument in continuous rotation for quality root canal shaping.

- Asymmetrical cross-section along the entire blade.
- Variable cross-section.
- Longer pitch.
One Shape®, scientifically proven

✔ Simplicity
- 1 single reference to manage in stock
- Only 1 sterile and single-use instrument.
- In continuous rotation: a recognized and mastered technique.

✔ Safety
- Respect of the initial canal path².
- Respect of office hygiene.
- Asymmetrical cross-section³: limits the risks of instrument breakage due to the accumulation of stresses on the file.

Scientific references
² 2. “The maintenance of both canal curvatures was better with F360 and One Shape® compared with Reciproc and WaveOne, which removed more material from the outer side of both the coronal and apical curvatures, leading to canal straightening that was more pronounced... Within the parameters of this study, both reciprocating files showed a marked tendency to straighten the S-shaped canals, whereas F360 and One Shape® files maintained the original canal curvatures well.”
  Abdulrahman Mohammed Saleh, PhD, Pouyani Vakili Gilani, DDS, Saeid Tavanafar, DDS, and Edgar Schäfer, PhD
  Shaping Ability of 4 Different Single-file Systems in Simulated S-shaped Canals
  J Endod – 2015

³ 3. “The behavior of instruments is linked to their geometry and their design. Producing an asymmetric instrument modify the file behavior. In the present study, the axial stresses decreased, but the torque did not change with an asymmetric triple helix cross-section. These results may encourage manufacturers to propose asymmetric instruments to increase safety.”
  Franck Diemer, DDS, MS, PhD, Jérome Michetti, DDS, MS, Jean-Philippe Mallet, DDS, MS, and Robert Piquet, PhD
  Effect of Asymmetry on the Behavior of Prototype Rotary Triple Helix Root Canal Instruments
  J Endod – 2013
One Shape®, scientifically proven

Efficiency

- Sterile → Reduction of the preparation time.
- Efficient cleaning⁴. → A decrease in the bacterial charge similar to that of traditional instruments.
- Reduction of the global treatment time⁵. → More time for irrigation.
- Lower quantity of apically extruded debris⁶.

Scientific references

⁴. “Quick results have been demonstrated with the innovative One Shape® file for single use. [...] This shows that the objectives – simplification of the technique and reduction of the global treatment time – have been attained. If the irrigation protocol is observed, One Shape® will allow a quick treatment with the same efficiency in bacterial reduction than any conventional NiTi instrument.”
Alberto Dagna, Carla Renata Arciola, Livia Visa, Laura Selan, Marco Colombo, Stefano Biancho, Claudio Poggio
Antibacterial efficacy of conventional and single-use Ni-Ti endodontic instruments: as in vitro microbiological evaluation
Int Endod J - 2012

⁵. « Instrumentation with Reciproc and One Shape® was significantly faster than with the two other instruments [F360 et Mtwo]. (...) The fact that preparation time was decreased by about 62–30% when using the single-file systems is a clinically relevant finding in as far as, simultaneously, the time available for irrigation and chemical debridement of the root canal system is also markedly reduced. »
S. Bürklein, S. Benten & E. Schäfer
Shaping ability of different single-file systems in severely curved root canals of extracted teeth
Int Endod J – 2013

⁶. “In comparison with Twisted File and ProTaper Next, the One Shape® system extruded less bacteria...”
Sevinç Aktemur Türker, Emel Uzunoglu, and Mehtap Hülya Asian Evaluation of Apically Extruded Bacteria Associated with Different Nickel-Titanium Systems
J Endod – 2015

⁷. “Compared to reciprocal instrumentation, rotary instruments have shown less debris extrusion... Reciproc has produced much more debris than all the other systems... The single file systems (namely One Shape®) are quicker.”
Quantitative evaluation of apically extruded debris with different single-file systems: Reciproc, F360 and OneShape versus Mtwo
Int Endod J - 2013
One Shape®, scientifically proven

One Shape® has antibacterial results comparable with traditional instruments.

One Shape® respects the original canal curvature better than Wave One and Reciproc.
Saleh et al. J Endod 2015
Bürklein et al. Int Endod J 2013

One Shape® is safe to use and has good mechanical resistance.
Dagna et al. Dentistry 2013
Capar et al. Austr Endod J 2014
Mangelli et al. ENDO (Lond Engl) 2015

Preparation time reduced with One Shape®, compared to:
Mtwo and F360  Bürklein et al. Int Endod J 2013
Reciproc and Wave One  Saber et al. Int Endod J 2015
Wave One and F360  Saleh et al. J Endod 2015

One Shape® rotary instrumentation shows less debris extrusion compared to:
- ProTaper Next and Twisted Files: Türker et al. - Int Endod J 2015

Root canal preparations with One Shape®, Reciproc and SAF cause less microcracks than with ProTaper.

Try it!
MICRO-MEGA® offers an optional solution with specific apical finishing files, One Shape® Apical. These sterile, single-use Nickel Titanium finishing files are used after root canal shaping with One Shape® in order to enlarge the root canal diameter.

- Sterile and single-use files.
- Efficient enlargement of the apical zone after One Shape® instrumentation.
- Apical preparation respecting the root canal anatomy.
Obturation

MICRO-MEGA® has developed reliable and practical filling solutions for use after root canal preparation with One Shape®: the One Shape® Obturation range is the ideal complement to One Shape®.

One Shape® Gutta Percha Points
- Specific adapted tapers to One Shape®.
- The One Shape® GP Points are radiopaque.
- Flexible for perfect adjustment to all root canal anatomies without bending.

One Shape® Paper Points
- Quick and efficient drying.
- Easy-to-identify sizes due to the same color code.
- Shaped for easy and reliable placement to the apex.

Gain in simplicity
One file = one point!
MM • control

Zoom on your safety asset: motor with torque and speed control + integrated apex locator, MM • control is an indispensable tool in order to achieve optimal safety in the daily practice of endodontics.

- Proven reliability.
- Simplicity of implementation.
- Safe endodontic procedure.
Convenient packaging

One Shape® Procedure Pack

- You save precious time: no sterilization prior to the treatment, your instruments are ready to be used on the patient.
- You avoid the risk of cross-contamination by ensuring the respect of the hygienic chain.
- You facilitate your dental assistant’s instrumental management.
- You diminish the risk of instrumental fracture.

Your endo files ready for use in one single blister!

MM•control + One Shape® Procedure Pack Kit

STERILE

One Shape® Procedure Pack

- 1 ENDOFLARE®
- 1 K file no.10 (MMC)
- 1 One G
- 1 K file no.15 (MMC)
- 1 One Shape®

- MM•control
- 10 blisters One Shape® Procedure Pack
- 1 blister One Shape® Apical 1
  + 1 blister One Shape® Apical 2
- 1 box Gutta Percha One Shape® Shaping
- 1 box Paper Points One Shape® Shaping
The innovative One Shape® file brings simplicity to the endodontic procedure. The flexibility and the new design of the files brings better cutting efficiency, less screwing effect and higher safety of instrument fractures. I also appreciate to have the possibility to use the One Shape® Apical files in cases with larger apical foramina. All files respect the original root canal anatomy really well and the reduction of the shaping time gives me more valuable time for irrigation.
The One Shape® Concept (including the One G) allows me to simplify the mechanical shaping protocol for anatomical non complicated root canals. The addition of the Apical Shaping Files addresses exclusively the apical third of the root canal and replaces earlier practice of hybrid techniques. I personally sense the application of conventional (clockwise) kinematics with the One Shape® File Concept more gentle and less fatiguing to the muscles of the operators hand when compared to reciprocation file systems.

One Shape® is really a smart, efficient and helpful instrument. I love it, since it was introduced in 2012. The One Shape® gives a good feeling during the treatment. It’s able to negotiate the root canal and its curvatures. It reaches the apex easily and with no resistance. It’s useful for a lot of cases and helpful for each dentist. Single-file technique with single-use instrument in continuous rotation is a great help in simplifying daily endodontics.

All endodontists and general practitioners should be not yet scared by fracture of the instrument: no sterilization and stocking procedures are needed, no stresses are accumulated. For each treatment a new file is used and discarded at the end of shaping. In my personal opinion, I think that One Shape® introduced a new "philosophy" of root canal treatment: single, safe and simple use.

They have tried it... And they love it!

Dr. Liviu Steier, Germany

Dr. Alberto Dagna, Italy
Clinical cases

Dr Tara MC MAHON - Belgium

Preoperative x-ray

Access cavity

Penetration
file MMC no. 10

Enlargement of the canal entrances with ENDOFLARE®

Pre-enlargement of the root canal using One G
Root canal shaping with One Shape®

Determination of the working length using an MMC file no. 15

X-ray with One G

X-ray with One Shape®

Postoperative x-ray
Bibliography

Tara Mc Mahon
The One Shape® Procedure Pack, a unique solution
Endo Tribune UK Edition – 2015

Abdulrahman Mohammed Saleh, Pouyan Vakili Gilani, Saeid Tavanafar and Edgar Schäfer
Shaping Ability of 4 Different Singlefile Systems in Simulated S-shaped Canals
J Endod – 2015

Sevinç Aktemur Türker, Emel Uzunoglu, and Mehtap Hülya Aslan
Evaluation of Apically extruded Bacteria Associated with Different Nickel-titanium Systems
J Endod – 2015

Joe Ben Itzhak, Yael Marom, Alex Lvovsky, Dan Elephant, BatyaAmdor and Michael Solomonov
Centering abilities of two rotary niti systems in medium curved canals
International Journal of Recent Scientific Research – 2015

Shehab El Din Mohamed Saber, M. Nagy, Erich Schäfer
Comparative evaluation of the shaping ability of WaveOne, reciproc and OneShape® single-file systems in severely curved root canals of extracted teeth
Int Endod J – 2015

Amr M. Elnaghy and Shaymaa E. Elsaka
Torsion and Bending Properties of OneShape® and Wave One instruments
J Endod – 2014

Peddamallu Jitender Reddy, Vedati Santosh Kumar, Kumbakonam Aravind, Harish TVS Kumar, Bharath Vishal M, Vasudha Nelluri Vizaikumar, Rupali Das, and K Vamsilatha
Canal Shaping with One Shape® File and twisted Files: A Comparative Study
Journal of Clinical and Diagnostic Research – 2014

Varsha Harshal Tambe, Pradnya Sunil Nagmode, Sathish Abraham, Mahendra Patait, Pratik Vinod Lahoti, and Neha Jaju
Comparison of canal transportation and centering ability of rotary protaper, One Shape® system and wave one system using cone beam computed tomography: An in vitro study
Journal of Conservative Dentistry – 2014

Cleber Keiti Nabeshima, Hector Caballero-Flores, Silvana Cai, Jose Aranguren, Maria Leticia Borges Britto, and Manoel Eduardo de Lima Machado
Bacterial removal Promoted by 2 Single-file Systems: Wave One and One Shape®
J Endod – 2014

Ebru Küçükyılmaz, Selcuk Savas, Gokhan Saygili, Banu Uysal
Assessment of apically extruded debris and irrigant produced by different nickel-titanium instrument systems
Brazilian Oral Research – 2014

Alberto Dagna, Ricardo Beltrami, Marco Colombo, Marco Chiesa, Stefani Bianchi, Claudio Poggio
Cyclic Fatigue resistance of three Single-Use Niti instruments after immersion in Sodium Hypochlorite International Journal of Experimental Dental Science – 2014

Sibel Koçak, Mustafa Murat Kocak, Baran Can Sağlam, Sevinç Aktemur Türker
The effect of glide path on the surface quality of new and used rotary and reciprocating single files: One Shape® versus Wave One Scanning – 2014

Sebastian Bürklein, Thomas Poschmann, Edgar Schäfer
Shaping ability of different nickeltitanium systems in simulated S-shaped canals with and without glide path
J Endod – 2014
Ismail Davut Capar, Huseyin Ertas, Evren Ok, Hakan Arslan and Elif Tarim Ertas
Comparative Study of Different Novel Nickel-titanium rotary Systems for root Canal Preparation in Severely Curved Root Canals
J Endod – 2014

Alberto Dagna, Claudio Poggio, Riccardo Beltrami, Marco Chiesa and Stefano Bianchi
Cyclic fatigue resistance of One Shape®, reciproc, and Wave One: An in vitro comparative study
Journal of Conservative Dentistry – 2014

Gurudutt Nayak, Inderpreet Singh, Shashit Shetty and Surya Dahiya
Evaluation of apical extrusion of debris and irrigant using two new reciprocating and one continuous rotation single file systems
Journal of Conservative Dentistry – 2014

Ismail Davut Capar, Huseyin Ertas, Hakan Arslan
Comparison of cyclic fatigue resistance of novel nickel-titanium rotary instruments
Australian Endodontic Journal – 2014

Anil Dhingra, Rohit Kochar, Satyabrat Banerjee, Punit Srivastava
Comparative evaluation of the canal curvature modifications after instrumentation with One Shape® rotary and Wave One reciprocating file
Journal of Conservative Dentistry – 2014

Anant Patil, Shalini Aggarwal
To compare and contrast maintenance of root canal geometry using rotary Niti systems - An in vitro study
Original Research, Endodontontology – 2013

Alberto Dagna, Claudio Poggio, Riccardo Beltrami, Marco Chiesa and Stefano Bianchi
Cyclic Fatigue resistance of three Niti Single-File Systems after immersion in EDTA
Dentistry – 2013

Anil Dhingra, Punit Srivastava, Dipti Chadda, Satyabrat Banerjee
Simplify your endodontics with Single File Systems- Case reports
IOSR Journal of Dental and Medical Sciences (IOSR-JDMS), Vol. 6, Issue 6, PP 44-51 – 2013

Anil Dhingra, Punit Srivastava, Dipti Chadda, Satyabrat Banerjee
Simplify your endodontics with One Shape® for endodontic instrumentation
INSIDE DENTISTRY – 2013

Sebastian Bürklein, S. Benten, Edgar Schäfer
Quantitative evaluation of apically extruded debris with different single-file systems: reciproc, F360 and One Shape® versus Mtwo
Int Endod J – 2013

Rui Liu, Ben Xiang Hou, Paul R. Wesselink, Min-Kai Wu, Hagay Shemesh
The incidence of root Microcracks Caused by 3 Different Single-file Systems versus the Protaper System
J Endod – Volume 39, Number 8 – 2013

Sebastian Bürklein, S. Benten, Edgar Schäfer
Shaping ability of different singlefile systems in severely curved root canals of extracted teeth
Int Endod J – 2013

Anil Dhingra, Punit Srivastava, Dipti Chadda, Satyabrat Banerjee
Simplify your endodontics with Single File Systems- Case reports
IOSR Journal of Dental and Medical Sciences (IOSR-JDMS), Vol. 6, Issue 6, PP 44-51 – 2013

Sebastian Bürklein, S. Benten, Edgar Schäfer
Quantitative evaluation of apically extruded debris with different single-file systems: reciproc, F360 and One Shape® versus Mtwo
Int Endod J – 2013

Sebastian Bürklein, S. Benten, Edgar Schäfer
Antibacterial efficacy of conventional and single-use Ni-ti endodontic instruments: an in vitro microbiological evaluation
The International journal of artificial organs – 2012
Bibliography

Tara Mc Mahon
Le One Shape® Procedure Pack, une solution unique
Endo Tribune Édition Belge – 2015

Tara Mc Mahon
Le One Shape® Procedure Pack, une solution unique
Endo Tribune Édition Française – 2015

Alexis Gaudin, Fabienne Perez
Comment rationaliser la mise en forme canalaire ?
Dentoscope N°120 – 2013

Nicolas Guernier
L'instrumentation unique en rotation continue
Dental Tribune – 2013

Alexandre Viteaux
L'instrumentation unique en rotation continue
Dental Tribune – 2013

Serge Bal
Du HERO 642® au One Shape®
Clinic – 2013

Jérome Elias, Jean-Jacques Bonnin
One Shape® MICRO-MEGA® : Sécuriser la préparation canalaire avec un instrument unique
Dentalmedya 24 – 2011
ENDOFLARE® P. 6 Advertising

Year of CE-marking: 2001
Medical device class IIA according to directive 93/42/EEC
Certifying body: LNE/G-MED
Medical device for dental care, meant for professional dental use only.
See product labelling and, where applicable, instructions for use.
Maximum number of uses indicated on the product labeling.

STERILE EO Sterile devices
Sterility guaranteed if package is unopened and undamaged.

MICRO-MEGA® 5-12, rue du Tunnel
25006 Besançon cedex - France
www.micro-mega.com

One Shape® P. 8 Advertising

Year of CE-marking: 2012
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One G P. 7 Advertising

Year of CE-marking: 2015
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MM•control + One Shape® Procedure Pack Kit P. 15 Advertising

Refer to the regulatory status of each medical device included in the kit.