

Tri Auto ZX2+



Thinking ahead. Focused on life.

Endo. Optimized. Intelligent Endodontic Motor



Patency and Glide Path Preparation Have Never Been Easier

Tri Auto ZX2+ is equipped with a new generation reciprocating drive, OGP2, that greatly reduces the chance of a file breaking in the canal. This innovative motor can be used for achieving patency, creating the glide path, and shaping, allowing you to finish treatment safely and in less time. Additionally, with no limits on file size or cutting direction, your current file system is compatible. The future of endodontic treatment is here: Tri Auto ZX2+.



Next Level Reciprocation Introducing OGP2

OGP2 (Optimum Glide Path 2) Reduces the Chance of File Breakage

OGP2's new and innovative reciprocating motion dramatically reduces the chance of files breaking. Even patency using a #10 scout file is possible. *Notoriously difficult patency by hand filing can now be achieved with an endo motor!*

Rotation

Its intelligent motion reduces file binding and, when it does occur, helps prevent the file from breaking in the canal.



Maintains the Root Canal Shape

Even with curved or narrow root canals, OGP2 allows you to provide treatment that maintains the original root canal shape.



Before



After

Handles Patency, Glide Path, and Shaping Using Just One Mode

From a #10 scout file, to the widest size available, the Tri Auto ZX2+ handles any CW/CCW file all in one mode. Patency, glide path, and shaping can all be performed with OGP2, allowing you to focus on treatment rather than settings.



Available (cw) and (ccw) files.

* Decide on the final file size according to the shape of the root canal.

The Efficiency of OTR

OTR (Optimum Torque Reverse) for Efficient Shaping

The Tri Auto ZX2+ features the innovative OTR mode for shaping that combines the cutting efficiency of continuous rotation and the safety of reciprocation. When the load on the file exceeds the set value, the device rotates counterclockwise at a fixed angle, contributing to shorter treatment times while reducing the possibility of file breakage. You can also modify the angles for cutting and reversing freely to suit your needs.

New OTR CCW Mode for Reciprocating Files

Using reciprocating files? The new OTR CCW mode improves cutting efficiency of your CCW files.



World-leading Apex Location Built Right in

Root ZX Technology

Capable of high-precision measurement without being affected by dry or wet canals, the integrated apex locator allows you to perform treatment while continuously monitoring the position of the file.

The Tri Auto ZX2+ also provides multiple safety features utilizing Root ZX's proven accuracy to stop rotation and prevent over-instrumentation of the root canal.



Apical Slow Down

Activated when the OGP2 mode is operating, Apical Slow Down reduces the rotation speed of the file as it approaches the apex. This function allows you to provide treatment that simulates the feel of hand filing while also reducing the chance of file breakage.



Speed 500 rpm

Speed 300 rpm Speed Spee

Speed 100 rpm

Since 1992

Cases

Case 1

Curved root canal (left maxillary first molar)





Postoperative

Mesiobuccal (MB) and distobuccal (DB) roots of #26 were constricted, and only a few millimeters of patency were achieved with hand files. Then, a mechanical glide path using OGP2 was established. OGP2 completed glide path preparation without any difficulties such as broken files or ledge formation to constricted canals even to DB, which has severe constriction and S-shape curvature. Total time to complete the mechanical glide path using OGP2 was 5 minutes.

Preoperative

Case 2

Sclerosed root canal (right maxillary first molar)



Preoperative



Postoperative

The radiographic images highlight that a root canal system was still present. The detection of the root canal orifice and root canal preparation were difficult due to the presence of mineralized tissue. The OGP2 mode contributed to attaining patency and the glide path on 4 roots, including the second mesiobuccal (MB2) root canal. Subsequently, root canal preparation was completed using OTR mode on the device. All procedures ranging from the patency of the 4 root canals to the final root preparation were carried out in approximately 7 minutes.

Case 3

Patency abandoned (left maxillary second molar)





Postoperative

Retreatment case of #37, root canal patency was not obtained during the past treatment. After root canal orifices were specified, patency was obtained using OGP2. Both mesiobuccal (MB) and distobuccal (DB) canals have S-shape curvature, and especially MB was challenging. If only with hand instruments, treatment time for MB would be extremely long. By using OGP2, the total time needed for glide path preparation was 14 minutes: 6 minutes for MB, 5 minutes for DB, and 3 minutes for palatal canal.

Clinical images and comments are provided by: Dr. Toshihiro Ushikubo *The images shown here re

- Dr. Motoki Okamoto Dr. Tai Gega
- *The images shown here represent examples of post surgery progress at the clinic that provided the photos.
- *A pre-sales clinical survey conducted by J.MORITA MFG.CORP showed
- that of the dentists that used OGP2, 77% used it for patency and 86% used it for establishing a glide path.

Preoperative



Various Modes

Display	m0 <u>AP 1 2</u> EMR	m1 600 г/min ш сёйт 3.0 N·cm	m2 500 r/min 🚥 06P2 150/ 60 _{deg}	m3 500 r/min 150/60 deg
Mode	EMR	CONT CW	Optimum Glide Path 2	Optimum Glide Path 2
Usage	Apex location	Coronal flaring	Patency (Scouting) Glide path Shaping (Flash Bar Position=0.5)	Patency (Scouting) Glide Path Shaping (Flash Bar Position=1.0)
m4 500 r/min m & & 180/90 deg	m5 500 r/min m 6ft 30/150 deg	m6 1000 r/min т 1.0 N·cm	m7 200 r/min	m8 100 r/min ϖ δថρ 90/120 deg
Optimum Torque Reverse (CW)	Optimum Torque Reverse (CCW)	CONT CW	CONT CCW	Optimum Glide Path (CW)
Shaping (for CW files)	Shaping (for CCW files)	Root canal irrigation with irrigation files	Inject intracanal medicaments	Ledge bypass

Specifications

Name: Model: Type: Manufacturer:	Tri Auto ZX2 TR-ZX2 PLUS J. MORITA MFG. CORP.	Handpiece Free Running Operation Speed: Torque: Battery:	100 – 1000 rpm 4 Ncm or more Lithium-ion battery (DC 3.7 V)
Functions:	Apex location OGP2 (Optimum Glide Path2) OGP (Optimum Glide Path)	Weight:	Approx. 4.9 oz (140 g) Including battery and contra angle
	OTR (Optimum Torque Reverse)	Battery Charger	
	OAS (Optimum Apical Stop)	Rated Input Voltage:	DC 5 V
	OAS2 (Optimum Apical Stop2)	Rated Input Current:	2.4 A
	Auto Start / Stop, Auto Apical Reverse	Weight:	Approx. 9.9 oz (280 g)
	Auto Apical Stop, Apical Slow Down		(AC adapter not included)
	Torque Slow Down, Apical Torque Down		
	Auto Torque Reverse	AC Adapter	
		Rated Input Voltage:	AC100 - 240 V
Options:	Handpiece Holder, Long File Holder,	Rated Input Frequency:	47 - 63 Hz
	External File Electrode (with cap) Probe Cord 5 ft 10 in (1.8 m)	Rated Input Current:	0.4 A
Ordering			

Information:

ion: Tri Auto ZX2+: 24K352ENG

Unit includes: handpiece, contra angle, internal file electrode (pre-installed in the contra angle), guide bur, battery charger, battery, AC adapter, power plugs (1 each of 4 types), probe cord (2.5 ft), file holder, contrary electrodes (3), tester, handpiece protective sleeves (30), spray nozzle, maintenance oil.



Industrial Design: f/p design gmbh

Diagnostic and Imaging Equipment

Treatment Units

Handpieces and Instruments

Endodontic System

Laser Equipment

Laboratory Devices

Educational and Training Systems

Auxiliaries



Development and Manufacturing **J. MORITA MFG. CORP.** 680 Higashihama Minami-cho, Fushimi-ku, Kyoto 612-8533, Japan T +81. (0)75. 611 2141, F +81. (0)75. 622 4595

Morita Global Website www.morita.com

Distribution

J. MORITA CORP. 3-33-18 Tarumi-cho, Suita-shi, Osaka 564-8650, Japan T +81. (0)6. 6380 1521, F +81. (0)6. 6380 0585

J. MORITA USA, INC. 9 Mason, Irvine CA 92618, USA T +1. 949. 581 9600, F +1. 949. 581 8811

J. MORITA EUROPE GMBH

Justus-von-Liebig-Strasse 27b, 63128 Dietzenbach, Germany T +49. (0)6074. 836 0, F +49. (0)6074. 836 299

MORITA DENTAL ASIA PTE. LTD. 150 Kampong Ampat, #06-01A KA Centre, Singapore 368324

T +65. 6779. 4795, F +65. 6777. 2279

J. MORITA CORP. AUSTRALIA & NEW ZEALAND

Suite 2.05, 247 Coward Street, Mascot NSW 2020, Australia T +61. (0)2. 9667 3555, F +61. (0)2. 9667 3577

J. MORITA CORP. MIDDLE EAST

4 Tag Al Roasaa, Apartment 902, Saba Pacha 21311 Alexandria, Egypt T +20. (0)3. 58 222 94, F +20. (0)3. 58 222 96

J. MORITA CORP. INDIA

Filix Office No.908, L.B.S. Marg, Opp. Asian Paints, Bhandup (West), Mumbai 400078, India T +91-22-2595-3482

J. MORITA MFG. CORP. INDONESIA

28F, DBS Bank Tower, Jl. Prof. Dr. Satrio Kav. 3-5, Jakarta 12940, Indonesia T +62-21-2988-8332, F + 62-21-2988-8201

SIAMDENT CO., LTD.

71/10 Mu 5, Thakham, Bangpakong, Chachuengsao 24130, Thailand T +66. 38. 573042, F +66. 38. 573043 www.siamdent.com

Subject to technical changes and errors. Pub. No. ES616-0875-3-EN-1 L-1745-0323