

Tri Auto ZX2+



Thinking ahead. Focused on life.

Beyond Ingenuity Intelligent Endodontic Motor



Patency and Glide Path 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 patency, 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

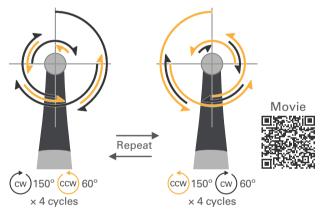
OGP2 (Optimum Glide Path 2) Reduces the Chance of File Breakage

OGP2 dramatically reduces the chance of breaking files due to its new and innovative reciprocating motion. Even patency using a #10 scout file is possible.

Notoriously difficult patency by hand filing can now be achieved by 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.



Preoperative

Postoperative

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

From a #10 scout file, to the widest size availabel, 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.

 $^{\ast}\,\textsc{Decide}$ on the final file size according to the shape of the root canal.

OTR Mode Now Supports Both Reciprocation and Rotary Files

OTR (Optimum Torque Reverse) Offers Enhanced Safety and Performance

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 counter-clockwise 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.

OTR CW mode

Cutting Direction: Clockwise (CW) Non-Cutting Direction: Counterclockwise (CCW)

NEW! OTR CCW mode

Cutting Direction: Counterclockwise (CCW) Non-Cutting Direction: Clockwise (CW) Suitable for Reciprocation files



World-leading apex location Built Right in

Root ZX Technology

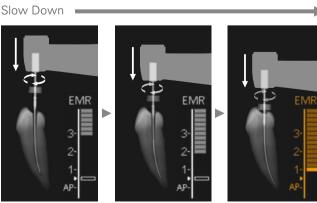
Capable of high-precision measurement without being affected by dry or wet canals, the integrated apex locator allows you to perform treatment while continuously monitoring the position of the file.

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 Spee

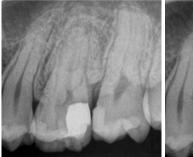
Speed 100 rpm

Since 1992

Cases

Case 1

Curved root canal (left maxillary first molar)





Mesiobuccal (MB) and distobuccal (DB) roots of #26 are constricted, and only a few millimeters of patency was achieved with hand files. Then a mechanical glide path using OGP2 was established. OGP2 could obtain 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 mechanical glide path using OGP2 was 5 minutes.

Preopeative

Postoperative

case 2

Sclerosed root canal (right maxillary first molar)



Preopeative



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 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)





Preopeative

Postoperative

Clinical images and comments are provided by: Dr. Toshihiro Ushikubo Dr. Motoki Okamoto

Dr. Tai Gega

Retreatment case of #37, root canal patency was not obtained during the past treatment. After root canal orifices are 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, total time needed for glide path preparation was 14 minutes in total; 6 minutes for MB, 5 minutes for DB and 3 minutes for palatal canal.

^{*}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 glide path.

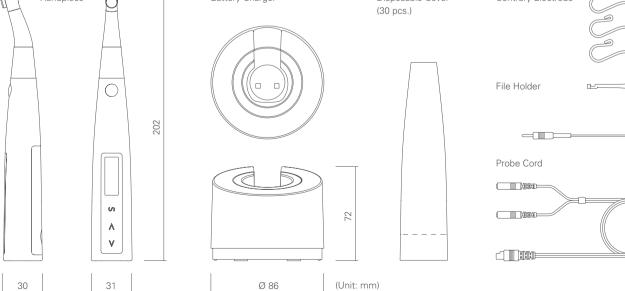


Various Modes

Display	m0 <u>AP 1 2</u>	m1 600 г/min ෩ Ⴀѿт 3.0 N-cm	m2 500 r/min m 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 6¥R 180/90 deg	m5 500 r/min m 6fk 30/ 150 deg	m6 1000 г/min т бйн 1.0 _{N-ст}	m7 200 r/min	m8 100 r/min ῶ δẵρ 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:	Tri Auto ZX2	Handpiece	
Model:	TR-ZX2	Free Running Operation	
Type:	PLUS	Speed:	100 – 1000 rpm
Manufacturer:	J. MORITA MFG. CORP.	Torque:	4 Ncm or more
		Battery:	Lithium-ion battery (DC 3.7 V)
Functions:	Apex location	Weight:	Approx. 140 g (including battery
	OGP2 (Optimum Glide Path2)		and contra angle)
	OGP (Optimum Glide Path)		
	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. 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
Accessories:	Tester, LS OIL	Rated Input Frequency:	47 - 63 Hz
	Power Plugs (one each of 4 types)	Rated Input Current:	0.4 A
	Probe Cord (0.8 m)		
	File Holder, Contrary Electrodes		
	HP Protective Sleeve Type A		
Options:	Handpiece Holder, Long File Holder		
	External File Electrode (with cap)		
	Probe Cord (1.6 m)		
<u> </u>			
Handpiece	Battery Charger	Disposable Cover (30 pcs.)	Contrary Electrode
		(00 p03.)	



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



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