



Tri Auto mini

Compact and cordless endodontic handpiece



Lightweight and compact

Morita's cordless, Tri Auto mini endodontic handpiece is the ultimate compact instrument for all endodontic root canal preparations. Minimal weight, ultra compact head and innovative safety features, such as "auto torque reverse" help reduce file fatigue and increases procedural safety. Optionally, when the Tri Auto mini is connected to Morita's Root ZX mini apex locator, the "auto apical reverse" feature will increase control and predictability, like no other endodontic handpiece. Morita, we are Endo.

Features

Ultra mini head

The 9mm diameter head offers unsurpassed visibility, which is absolutely essential for endodontic preparation.

Compact and lightweight

The compact and lightweight design of the Tri Auto mini provides excellent access and tactile feedback for any operator.

Automatic controls and settings

Rotational direction: forward or reverse
Torque reverse: 9 torque reverse settings
Auto controls: auto torque reverse and auto torque slow-down

Wide speed range

11 speed settings from 50 rpm to 1,000 rpm, ideal for most NiTi file systems.

Easy to read LCD screen

Graphics and operational data is displayed clearly on Tri Auto mini's brilliant LCD. Uniquely, the display can be switched (reversed) for right or left-handed operators.

Backlight colour change

The backlight changes colour to indicate the predetermined torque limit has been reached. The colour change feature is also activated when the apical limit is reached (when used in conjunction with the Root ZX mini).

Programmable settings

6 operational memory modes and a wide range of setting combinations can be easily programmed ensuring maximum operator versatility.

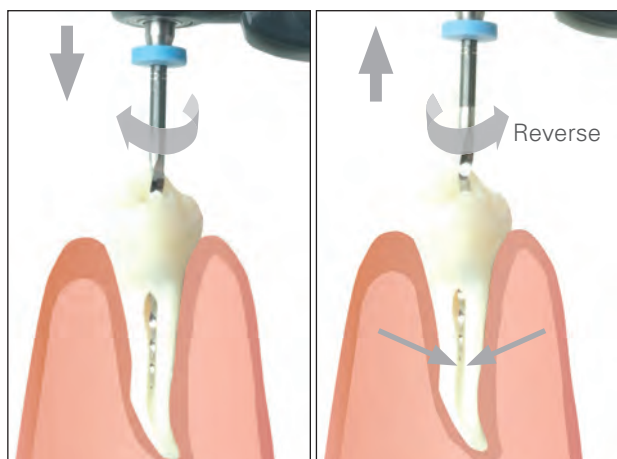
Modular system

Simply attach the Root ZX mini to enable additional operator safety features for a complete mechanical endodontic solution.



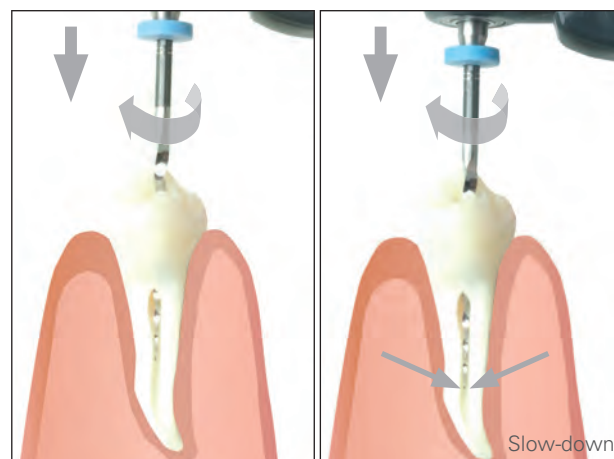
Automatic settings for increased safety

Morita's Tri Auto mini is an ultra compact, cordless endodontic handpiece offering a number of specially designed features that enable predictable clinical safety.



Auto torque reverse

9 automatic torque reverse levels from 0.2 to 3.0 Ncm can be programmed for customized safety.



Auto torque slow-down

Automatically slows down the rotation speed as the torque load increases offering the highest level of control.

Programmable settings

6 programmable memory combinations of speed (RPM), torque etc.

Optional: Link to Morita's Root ZX mini apex locator for added safety features, such as:

Auto torque reverse, auto torque slow down, auto start/stop*, auto apical reverse or stop*, apical slow down* & apical torque reduction*

*Feature when Tri Auto mini is connected to Root ZX mini

Wide speed range: 50 to 1,000 rpm

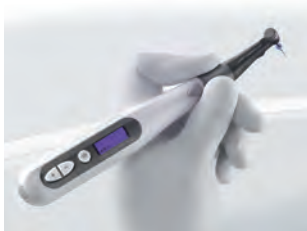
11 speed settings: 50, 100, 150, 200, 250, 300, 400, 500, 600, 800, and 1,000 rpm. The versatility of speed range is ideal for various NiTi file systems with differing sizes & tapers.

Optional display:

Right or left-handed operator display orientation



Display for right-handed operators



Display for left-handed operators

Rechargeable battery

The cordless handpiece offers total flexibility and unencumbered operation.

Auto power off

The Tri Auto mini automatically turns off after a period of non-use to conserve power.



Predictable Control

Compact, lightweight body and head

Featuring Morita's trademark ergonomic design, the Tri Auto mini is a mere 100 grams in weight. It is extremely compact and provides the operator with exceptional tactile feedback.

Compact head - optimal access

Tri Auto mini



Tri Auto ZX



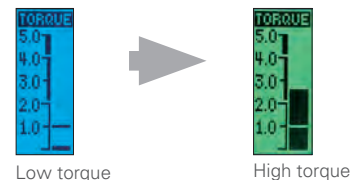
The Tri Auto mini head is only 9 mm in diameter providing increased visibility. Its slim design allows for easy access with the ability to view both the pulp chamber and canal orifices during instrumentation.

High contrast LCD screen



The LCD is backlit to make it easy to read. Torque changes are displayed clearly and highlighted by varying colours. The colour of the backlight changes from blue to green to red, providing the operator with a precise overview. The backlight will flash when the pre-set torque level is reached. The backlight colour also distinguishes the various types of displays such as the main display, settings display and optional settings display.

Backlight colour identifies high and low torque loads



Torque meter (not linked to Root ZX mini)

Canal measurement meter (when linked to Root ZX mini)

Backlight LCD colour change distinguishes various setting options and screens



Main settings



Sub settings



Optional settings

Tri Auto mini and Root ZX mini pairing



Example display as it appears during operation.

Modular system

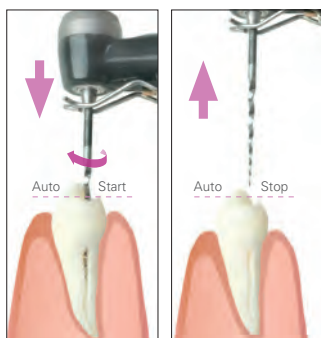
When connected to the Root ZX mini via the transmission cable and file electrode, the automatic functions listed below can be activated. The canal length measurement is used to display the location of the file's tip within the canal for safer, efficient canal preparation. The canal length meter appears on both the Tri Auto mini and Root ZX mini LCD screens with precise clarity. The Tri Auto mini's backlight changes colour as the file tip reaches a preset point within the canal.

Additional automatic features (when connected to Root ZX mini)

- Canal measurement meter display
- Auto start/stop
- Auto apical slow-down
- Auto apical torque reduction
- Auto apical stop/reverse

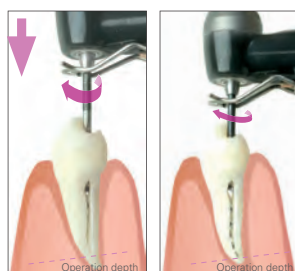
*File electrode and transmission cable (sold separately) are both necessary when connecting the Tri Auto mini to the Root ZX mini apex locator.

The position of the file tip inside the canal can be monitored during use when connecting the Tri Auto mini to the Root ZX mini. The automatic controls, such as auto apical reverse, will also be activated.



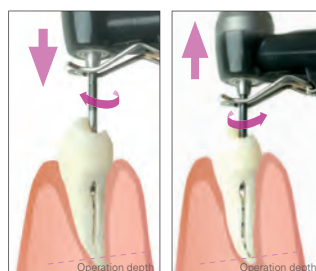
1. Auto start/stop

The motor automatically starts when the file is inserted into the canal and stops when it is withdrawn.



2. Auto apical slow-down

The file automatically slows down as its tip approaches a preset point within the canal.



3. Auto apical reverse

The file automatically reverses its rotation when the tip reaches a preset point within the canal.



4. Auto apical stop

The file automatically stops when the tip reaches a predetermined point inside the canal.

Display backlight colour change

When linked to the Root ZX mini, the Tri Auto mini LCD changes colour depending on the location of the file tip within the canal space.



Root ZX mini LCD



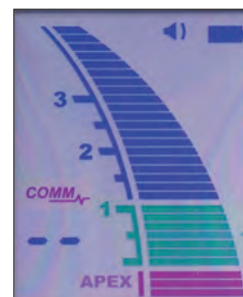
Tri Auto mini LCD



Root ZX mini LCD



Tri Auto mini LCD



Root ZX mini LCD



Tri Auto mini LCD



When linked to the Root ZX mini, the Tri Auto mini's LCD will simultaneously display data on the files progress within the canal space..



When the file reaches the apical region, the backlight colour of the LCD changes to green.



If the file tip goes beyond the apex, the colour of the LCD backlight changes to red.

Tri Auto mini

Cordless endodontic handpiece for root canal preparation

Specifications	
Product name	Tri Auto mini
Generic name	Dental electric motor handpiece
Model	TR-CM
Torque (N/cm)	4
Torque reverse settings (N/cm)	0.2, 0.4, 0.6, 0.8, 1.0, 1.5, 2.0, 2.5 & 3.0
Speed range (no load) (rpm)	50 ±5-1,000 ±100
Speed settings (rpm)	50, 100, 150, 200, 250, 300, 400, 500, 600, 800 & 1000
Drive mechanism	Electric motor
Display type	LCD
Cutting file grip type	Push button latch type
Handpiece	
Dimensions (mm)	Motor handpiece: Width 28 x Height 27 x Length 195 Head: Diameter 9 x Height 11
Weight (grams)	100 (including contra angle head and lithium battery)
Power supply (battery)	DC 3.7 volts (lithium ion battery, rechargeable)
Electric shock protection class	Internal power supply
Electric shock protection degree	BF applied device
Charger	
Dimensions (mm)	Width 68 x Depth 108 x Height 85
Weight (grams)	350
Power supply	AC 100V
Frequency	50/60Hz
Power consumption	5W
Electric shock protection class	Class II
Electric shock protection degree	-
Classification	Regulated medical device (Class II) Special maintenance regulated medical device

Accessories:



Battery charger
with power cord



Battery

Options:

(for connection to Root ZX mini)



File
electrode



Transmission
cable

Thoroughly read all instructions in the user manual before using this instrument.
Specifications and appearance may be changed without notice due to improvements.



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