

TriAuto mini

Compact, Cordless Endodontic Handpiece



Thinking ahead. Focused on life.

Lightweight with Compact Head and Body



The refined, compact design of TriAuto mini's head and body is very small and lightweight. With this handpiece, the dentist can experience the same tactile feedback as manual filing while various automatic controls reduce the risk of file jamming and breakage. Its slim design allows for easy access to posterior teeth with the ability to view both the canal openings and the pulpal floor during instrumentation. Another new and convenient feature is coordinated color change on the LCD display so that the dentist can easily recognize changes in speed, torque, file tip location, display type, etc. When connected to the Root ZX mini, the position of the file tip is monitored during the procedure, and many automatic functions such as Auto Apical Reverse can be activated.

TriAuto mini and Root ZX mini Combination

Safe and Efficient Canal Preparation

The TriAuto mini handpiece can be connected to the Root ZX mini to add an apex locator function.



Display in photo as it appears during treatment

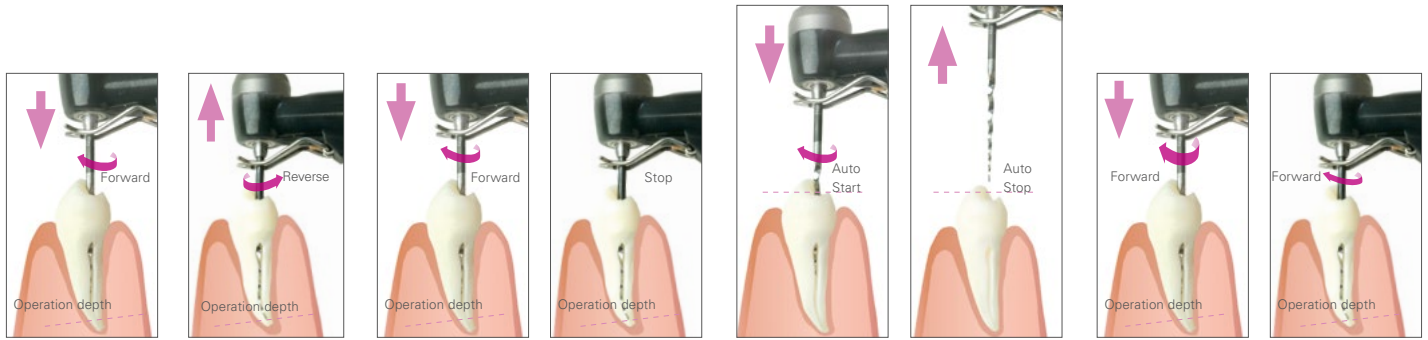
Module System

When connected to the Root ZX mini with the transmission cable (both sold separately), the automatic controls listed below can be activated. The canal length measurement is used to show the location of the file tip inside the canal for safer and more efficient canal preparation. The meter for canal length appears in TriAuto mini's display. The backlight changes color when the file tip reaches a specified point inside the canal.

- Canal Measurement Meter Display
- Auto Apical Reverse / Stop
- Auto Start / Stop
- Auto Apical Slow-down
- Auto Apical Torque Reduction

*File Electrode (sold separately) also is necessary when connected to the Root ZX mini.

By connecting the TriAuto mini to the Root ZX mini, the position of the file tip inside the canal can be monitored during the procedure. Automatic controls, such as Auto Apical Reverse, can also be activated.



1. Auto Apical Reverse

The file automatically reverses its rotation when the tip reaches a specified point inside the canal.

2. Auto Apical Stop

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

3. Auto Start / Stop

The motor automatically starts when the file is inserted in the canal and stops when it is withdrawn. This promotes safe and efficient preparation.

4. Auto Apical Slow-down

The file automatically slows down as its tip approaches a specified point inside the canal.

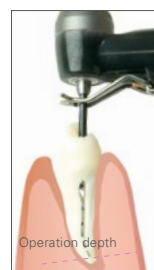
Display Changes Color: When linked to the Root ZX mini, the display changes color depending on the location of the file tip inside the canal to warn the dentist and promote safe instrumentation.



The meter for file tip location appears in the display when the file is inserted in the canal. The meter moves along with the file tip to indicate its location inside the canal.



When the file reaches the apical region, the color of the display changes to green.



If the file tip goes beyond the apex, the color of the display changes to red.

Advanced Features for Ease of Use

TriAuto mini's compact head makes it easy to access molar regions. Its overall small and lightweight design allows the user to experience the same tactile feedback as manual filing. The LCD display changes color for quick and easy recognition of changes in torque, file tip location, and display.

Small head for a better view

TriAuto mini



TriAuto ZX



The head is only 9 mm in diameter making it easy to use and ideal for canal treatment. Its slim design allows for easy access to posterior teeth with the ability to view both the canal openings and the pulpal floor during instrumentation.

Easy-to-read LCD Display



The LCD Display has a backlight to make it easy to read. Changes in torque are not only shown with a meter, but can also be identified by a change in the color of the backlight. As torque increases, the color of the backlight changes from blue to green to red so that the dentist can get a general reading with a quick glance. Also, the backlight flashes when torque reaches the set level. The backlight color also changes to distinguish various types of displays such as the main display, settings display, and optional settings display. The entire display can be reversed for left-handed dentists.



Torque Meter
(not linked to Root ZX mini)



Canal Measurement Meter
(linked to Root ZX mini)

Display meter depends on usages.

Compact and lightweight body and head

Finger instrument design reduces fingertip stress.

Lightweight (a mere 100 grams) and compact, TriAuto mini is extremely easy to handle. Without any loss of tactile sensation, the dentist can enlarge canals as safely as manual filing.

Backlight Color identifies High and Low Torque Loads



Low Torque

High Torque

Backlight Color distinguishes types of Displays



Main Settings



Sub Settings



Optional Settings

Features at a Glance

- **Small head for excellent visibility**

Head is only 9 mm in diameter.

- **Compact and lightweight**

The compact and lightweight design of TriAuto mini provides excellent access and tactile feedback.

- **Automatic controls and settings**

Rotation Direction: forward and reverse
Torque Reverse: nine torque reverse settings
Auto Controls: Auto Torque Reverse / Auto Torque Slow-down

- **Wide speed range**

Eleven speed settings from 50 rpm to 1,000 rpm.

- **Easy to read LCD Display**

Graphics, numbers, and letters are easy to read.
The display may also be reversed for left-handed dentists.

- **Backlight Color identifies current conditions**

The backlight changes color to alert the dentist when torque reaches its set limit, and if TriAuto mini is connected to Root ZX mini, when the file tip goes beyond the apical limit.

- **Programmable settings**

Various setting combinations can easily be programmed and selected.

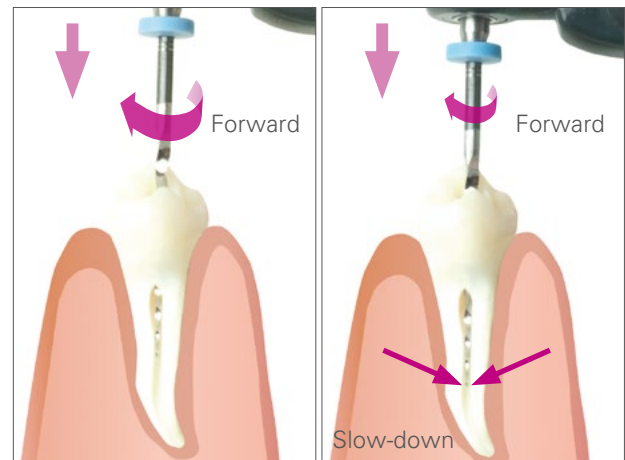
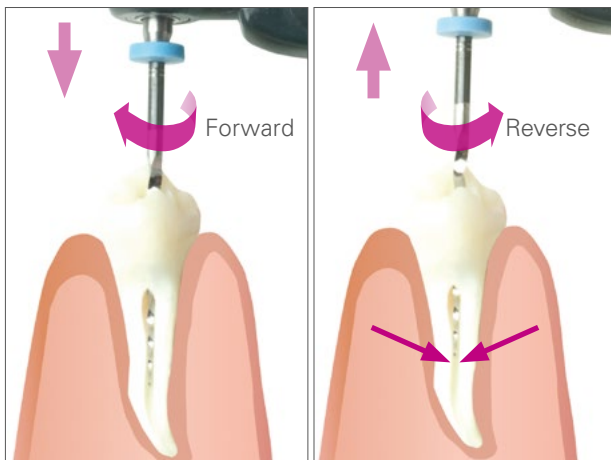
- **Module System**

When connected to the Root ZX mini with the transmission cable (both sold separately), the automatic controls are available for more efficient canal preparation.



Automatic Settings for Increased Safety

TriAuto mini is a cordless endodontic handpiece. It can be used to enlarge canals with the same tactile feedback as manual filing. This unit offers automatic controls for speed, rotation direction, and torque that significantly increase the accuracy and safety of root canal treatment.



Reduces risk of file jamming Auto Torque Reverse

File reverses rotation when torque exceeds the set limit to reduce the risk of jamming.

Reduces risk of file breaking Auto Torque Slow-down

Rotation speed automatically slows down as the torque load increases.

Nine levels for Auto Torque Reverse

The limit that triggers the auto torque reverse can be set at any one of nine levels: 0.2, 0.4, 0.6, 0.8, 1.0, 1.5, 2.0, 2.5, or 3.0 N/cm. Or Auto Torque Slow-down can be used instead of Auto Torque Reverse. Select the level best for the type of nickel-titanium file being used.

Programmable Settings

The combinations for speed, torque and other settings can be programmed. Simply select one of the six memory numbers to switch from one combination to another.

Wide speed range: 50 to 1,000 rpm

Eleven speed settings: 50, 100, 150, 200, 250, 300, 400, 500, 600, 800, and 1,000 rpm. This is extremely convenient for different types of files and varying treatment needs.

Set display for right- or left-handed user



Display for right-handed user

Display for left-handed user

Rechargeable battery

Cordless instruments are more comfortable to use.

Auto Power Off

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



TriAuto mini: Endodontic Handpiece for Root Canal Preparation

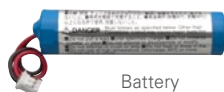
TriAuto mini - Specifications

Product Name	TriAuto 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 Tool 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 and lithium batteries
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 230 V
Frequency	50/ 60Hz
Power Consumption	5 W
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 cord



Battery

Options (for connection to Root ZX mini)



File
Electrode



Transmission Cable

Do not fail to thoroughly read all instructions in the user manual before using this instrument.
Specifications appearance may be changed without notice due to improvements.
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