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END END Head Cont Spar

## INDEX

DO-MATE TC2	P. 02 - 03
DO-MATE DT	P. 04 - 05
ads & Motors	P. 06
ntra-angles	P. 07
are Parts	P. 08

# ENDO-MATE TC2 Cordless Endodontic Micromotor

## **Smarter and Safer**

### Work Smarter and Safer with Freedom of Movement

A large LCD, simple 5-key operation and a lightweight, cordless handpiece assure easy use even during the most delicate endodontic procedures. The Auto Reverse & Alarm Function alerts you with an audible sound to let you know that the load is about to reach the preset torque level allowing you to unload the file even before the Auto Reverse is setting in. 5 programs for different file systems. TC2 supports most major brands of Ni-Ti files.



#### Mini head & Slim neck



Miniature head allows access even to the most difficult to reach areas. Slim neck assures higher visibility.

#### Stress free for more comfort

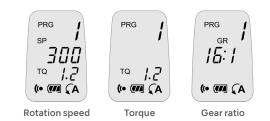
Cordless handpiece delivers freedom of movement. Lightweight, ergonomic design.

#### LCD panel

Large LCD panel and access-friendly key.

### **Program function**

User definable 5 presets - Speed, Torque, Gear Ratio & Auto Reverse mode. Last program settings can be memorized when the power turns on.



#### Suitable for use with most major brands of Ni-Ti files

Selecting gear ratio attachment applies the entire rotation and torque.

Rotation Speed (min <sup>-1</sup> )	Gear Ratio	Torque Level (Ncm)
200-900	10:1	0.2-2.2
140-550	16 : 1	0.3-3.0
100-450	20 : 1	0.4-4.0

#### ENDO-MATE TC2 Complete Set

MODEL	ORDER CODE
ENDO-MATE TC2	Y1001036

Contents • MPA-F16R Head • ENDO-MATE TC2 Motor • Battery Charger

Specifications

• Speed range : 2,000-9,000 min<sup>-1</sup> Charge : 1.5 h (depending on workload)
 Continuous use : 1.2 h (depending on workload)

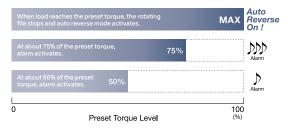
### Safety for delicate endodontic treatment

Smart Auto Reverse & Alarm Function for safer endodontic procedures. The feedback circuit keeps stable rotation even when the load on the motor handpiece changes. Power turns off automatically to improve safety and save energy. Calibration function for more precise rotation speed and torque setting.

This function cannot completely absorb the individual difference of the actual motor handpiece and contra-angle.

#### Two kinds of alarm sound for safer and efficient treatment

Alarm enables operators to prevent too much burden on files, realizing less metal fatigue.





# ENDO-MATE DT Endodontic Micromotor

## **Smart & Portable**

ENDO-MATE DT has been developed for use with most major brands of Ni-Ti files. The preprogramming function allows highly efficient treatments using different file manufacturer's procedures. The control unit has been designed to be lightweight and compact. It is fitted with a rechargeable battery providing high mobility. The lightweight and slim handpiece allows high performance.



Gear	Head Speed (min <sup>-1</sup> )
20 : 1	100-650
16 : 1	125-800
10 : 1	200-1,300
	500-3,200
	2,000 -13,000

#### Fits all popular brands of Ni-Ti files

Up to 9 settings (speed and torque etc) can be programmed simply by pushing the memory function button. It's easy to switch between each preset program allowing work with all popular Ni-Ti file manufacturer's required procedures.

#### **Dual ON/OFF control**



Motor ON/OFF operation is selected with handy switch located on the handpiece body or foot controller according to user's choice. (Foot controller is optional).

# Lightweight, smart and ergonomic handpiece.



#### 6 head angles for ease of treatment



Depending on the position of treatment site, the head angle can be adjusted to the best angle.

#### Push-type ultra miniature head

Allows fast and easy exchange of files during procedures. Compact head offers excellent visibility of treatment spots.

#### Auto reverse function

The auto reverse function activates when the preset torque level has been exceeded and can be set to operate in the following modes:

#### **ENDO-MATE DT Complete Set**

ENDO-MATE DT	Y141120
MODEL	ORDER CODE

Control unit • Motor and cord • MP-F20R head (20:1) • Handpiece stand
 AC adaptor

Specifications • Power supply : AC120 V 60 Hz and Battery pack Number of Programs : 9 Max Torque : 7 Ncm (when using 20:1 head)
Speed range : 100-13,000 min<sup>-1</sup> (with 20:1, 16:1, 10:1, 4:1, 1:1 geared heads)
Charge / Continuous use : 5h / 2h (depending on workload) • Dimensions : W 92 x D 148 x H 124 mm • Weight : Unit 456 g / Motor handpiece & cord 92 g

### 2-way ON/OFF switch

Features are: A: Push and release • Micromotor operates continuously until the button is pushed again. B: Push and hold

• Micromotor operates continuously until the button is released.

### **Quick coupling**

Quick coupling allows for easy head exchange. All heads are autoclavable up to 135°C.



Modes:

[Continue automatically] The motor reverts to forward rotation after auto reverse has freed the file.

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[Stop automatically] The motor stops after auto reverse has freed the file. Alternatively, the auto reverse function can be deactivated



### ENDO-MATE TC2 / ENDO-MATE DT Heads & Motors

#### Heads for Endodontic Application

MODEL	ORDER CODE
MP-Y	C547
1.11 1	034/

MER 10 CE

• For Ni-Ti files (ø2.35) • Miniature Head • 360° Rotation • Push Button Chuck

MODEL ORDER CODE

MPA-Y

MODEL

MODEL

F4R

• 1:1 Direct Drive

• 4:1 Reduction

• 10:1 Reduction

MODEL

F10R

MODEL

F16R

MODEL

F20R

16:1 Reduction

FC



• For Ni-Ti files (ø2.35) • Miniature Head • 360° Rotation • Push Button Chuck • Connection for Apex locator (For long shank)

C548

#### MODEL ORDER CODE

MPAS-Y C882



• For Ni-Ti files (ø2.35) • Miniature Head • 360° Rotation • Push Button Chuck • Connection for Apex locator (For short shank)

C872

C398

C871

C399

ORDER CODE

ORDER CODE

ORDER CODE

ORDER CODE	
C873	
ORDER CODE	









• 20:1 Reduction

#### Motors

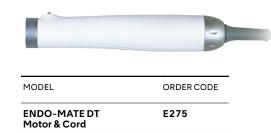
MODEL



ORDER CODE

ENDO-MATE TC2 Motor E346

• Motor Speed : 2,000-9,000 min<sup>-1</sup> Torque Control
 Auto Reverse



#### **Apex Locator Capability**

MPA and MPAS heads are equipped with built in probe ring which enable to use your Apex locator with the ENDO-MATE TC2 & DTsystems. By combining an Apex Locator with NSK ENDO-MATE TC2 & DT, clinicians will be able to perform more accurate root canal preparations. All contra-angle heads are autoclavable up to 135°C. 2 types of file holders are available relevant to the shank length of the file selected. 5.9 m

MPA head MPAS head For short shank ø2.35 Shank length : up to 12 mm For long shank ø2.35

Attach the Apex Locator Monitor by moving it forward to contact the file. Release by moving away from the file.



## **Endodontic Contra-angles**





#### **EX SERIES HEADS & HANDPIECES**

#### Heads for Endodontic Application

MODEL ORDER CODE MP-Y C547



• Max Speed: 20,000 min<sup>-1</sup> • Miniature Head Push Button Chuck

MODEL ORDER CODE MPA-Y C548





• Max Speed: 20,000 min<sup>-1</sup> • Miniature Head · Connection for Apex locator (For long shank) Push Button Chuck

ORDER CODE MODEL

MPAS-Y C882



• Max Speed: 20,000 min<sup>-1</sup> • Miniature Head • Connection for Apex locator (For short shank) Push Button Chuck

MODEL ORDER CODE

C849

• Max Speed: 4,000 min<sup>-1</sup> • 80° Twist • For engine files (ø2.35) • Push Button Chuck

MODEL ORDER CODE

TEQ-Y

TEP-Y C837001



• For hand files • Push Button Chuck





Gear Ratio	Optic	MODEL	ORDER CODE
10:1 Reduction	٠	X35L	C620
• May Speed : 4 000 m	in:1 • Eor Ha	nd Filo & Engine I	File • 609 Twict

Max Speed: 4,000 min<sup>-1</sup>
 For Hand File & Engine File

• Titanium Body with Scratch Resistant DURACOAT

Push Button Chuck • Single Spray • Microfilter • Cellular Glass Optics

 MODEL	ORDERCODE
QF Adaptor	C877701

### Handpieces

ER64	C637	NET IN JUNE CASSOOI
MODEL	ORDERCODE	
• 16:1 Reductio	n	
ER16	C636	NEC IN JUNE SCHOOLOU
MODEL	ORDER CODE	
• 10:1 Reductio	n	
ER10	C635	
MODEL	ORDERCODE	21-
• 4:1 Reduction		
ER4	C634	₩2 N 1978 NRE N 1978 NRE N 1978
MODEL	ORDER CODE	
• 1:1 Direct Driv	re	
ECM	C100007	AUTO DE LE CONTRACTOR D
EC	C100008	
MODEL	ORDER CODE	

• 64:1 Reduction

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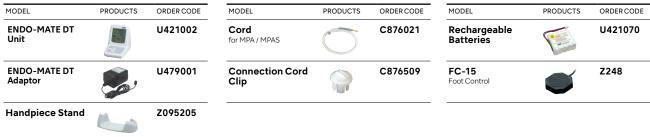


Autoclavable (Exclude ENDO-MATE TC2 Motor and ENDO-MATE DT Motor & Cord)

## **Spare Parts**

#### **ENDO-MATE TC2** MODEL PRODUCTS ORDER CODE MODEL PRODUCTS ORDER CODE MODEL PRODUCTS ORDER CODE Ni-MH Rechargeable Battery Y900103 Power Cord U438550 **Connection Cord** C876509 Clip 1 (Pack of 2) Cord for MPA / MPAS C876021 U614 **Battery Charger** A --\* Use only a rechargeable battery, size AAA Ni-MH (Nickel Metal Hydride). Never attempt to use a non rechargeable battery.

#### **ENDO-MATE DT**



Manufacturer

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Specifications are subject to change without notice.

08