

Create it 

ENDODONTICS

NSK

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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

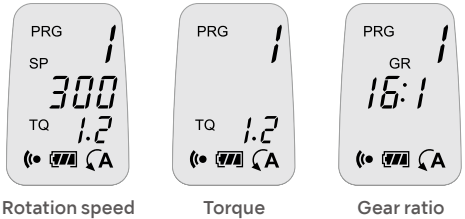
Cordless handpiece delivers freedom of movement. Lightweight, ergonomic design.

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.



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.

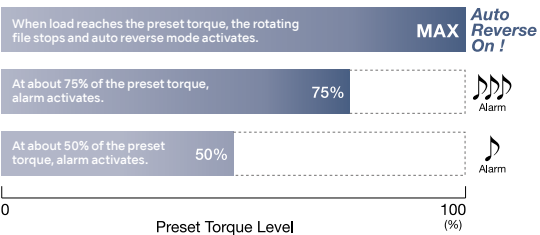
Suitable for use with most major brands of Ni-Ti files

Selecting gear ratio attachment applies to the entire rotation and torque.

Rotation Speed (min ⁻¹)	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

Two kinds of alarm sounds for safer and efficient treatment

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



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⁻¹
• Charge : 1.5 h (depending on workload)
• Continuous use : 1.2 h (depending on workload)



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 ⁻¹)
20 : 1	100-650
16 : 1	125-800
10 : 1	200-1,300
4 : 1	500-3,200
1 : 1	2,000 -13,000

Fits all popular brands of Ni-Ti files

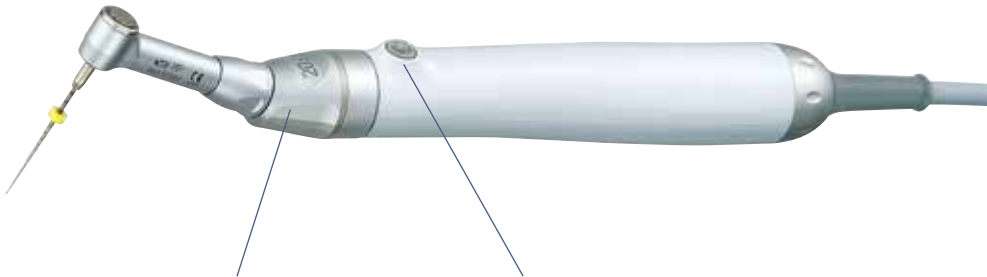
Up to 9 settings (speed and torque etc) can be programmed simply by pushing the memory function button. It's easy to switch between each preset program allowing work with all popular Ni-Ti file manufacturer's required procedures.

Dual ON/OFF control

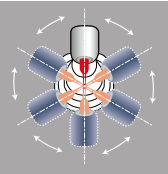


Motor ON/OFF operation is selected with handy switch located on the handpiece body or foot controller according to user's choice. (Foot controller is optional).

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.

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.

Push-type ultra miniature head

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

Quick coupling

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



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:

Modes:

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

ENDO-MATE DT Complete Set

MODEL	ORDER CODE
ENDO-MATE DT	Y141120

Contents
• 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⁻¹ (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



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

Heads for Endodontic Application

MODEL	ORDER CODE
MP-Y	C547

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



MODEL	ORDER CODE
F4R	C872

- 4:1 Reduction



MODEL	ORDER CODE
F10R	C398

- 10:1 Reduction



MODEL	ORDER CODE
F16R	C871

- 16:1 Reduction



MODEL	ORDER CODE
F20R	C399

- 20:1 Reduction



Motors



MODEL	ORDER CODE
ENDO-MATE TC2 Motor	E346

- Motor Speed : 2,000-9,000 min⁻¹
- Torque Control
- Auto Reverse



MODEL	ORDER CODE
ENDO-MATE DT Motor & Cord	E275

Endodontic Contra-angles

EX SERIES HEADS & HANDPIECES

Heads for Endodontic Application

MODEL	ORDER CODE
MP-Y	C547

- Max Speed: 20,000 min⁻¹
- Miniature Head
- Push Button Chuck



MODEL	ORDER CODE
TEQ-Y	C849

- 80° Rotation
- For monitored files (ø2.35)
- Push Button Chuck
- Max speed: 4,000 min⁻¹



Handpieces

MODEL	ORDER CODE
EC	C100008

- 1:1 Direct Drive



MODEL	ORDER CODE
ER4	C634

- 4:1 Reduction



MODEL	ORDER CODE
ER10	C635

- 10:1 Reduction



MODEL	ORDER CODE
ER16	C636

- 16:1 Reduction



MODEL	ORDER CODE
ER64	C637

- 64:1 Reduction



Spare Parts

ENDO-MATE TC2

MODEL	PRODUCTS	ORDER CODE
Ni-MH Rechargeable Battery (Pack of 2)		Y900103
Battery Charger		U614

※ Use only a rechargeable battery, size AAA Ni-MH (Nickel Metal Hydride).
Never attempt to use a non rechargeable battery.

MODEL	PRODUCTS	ORDER CODE
Power Cord		U438550
Cord for MPA / MPAS		C876021

MODEL	PRODUCTS	ORDER CODE
Connection Cord Clip		C876509

ENDO-MATE DT

MODEL	PRODUCTS	ORDER CODE
ENDO-MATE DT Unit		U421002
ENDO-MATE DT Adaptor		U479001
Handpiece Stand		Z095205

MODEL	PRODUCTS	ORDER CODE
Cord for MPA / MPAS		C876021
Connection Cord Clip		C876509

MODEL	PRODUCTS	ORDER CODE
Rechargeable Batteries		U421070
FC-15 Foot Control		Z248