

ENDODONTICS

ENDO-MATE TC2 / ENDO-MATE DT / iPexII / Contra-angles / Scalers



CREATE IT.

Index

ENDO-MATE TC2 ----- P 03 - 04

ENDO-MATE DT ----- P 05 - 06

iPexII ----- P 07 - 08

Heads & Motors ----- P 09

Contra-angles ----- P 10

Scalers ----- P 11 - 12

Spare Parts ----- P 13 - 14



ENDO-MATE TC2 Cordless Endodontic Micromotor

Smarter & 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

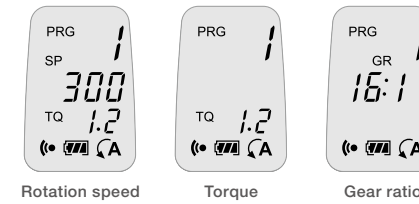
Cordless handpiece delivers freedom of movement. Lightweight, ergonomic design.

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 ⁻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

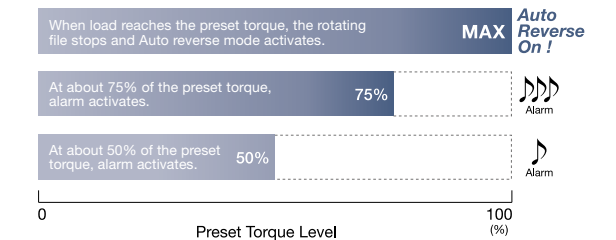
Safety for delicate endodontic treatment

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 to put too much burden on files, realizing less metal fatigue.



ENDO-MATE TC2 Complete Set

MODEL : ENDO-MATE TC2 (230 V) ORDER CODE : Y1001027

Contents :

- MP-F16R Head ● ENDO-MATE TC2 Motor ● Battery Charger

ENDO-MATE TC2 Complete MPA Set

MODEL : ENDO-MATE TC2 MPA (230 V) ORDER CODE : Y1001028

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	120-800
10 : 1	200-1,300
4 : 1	500-3,200
1 : 1	2,000-13,000

Fits all popular brands of Ni-Ti files

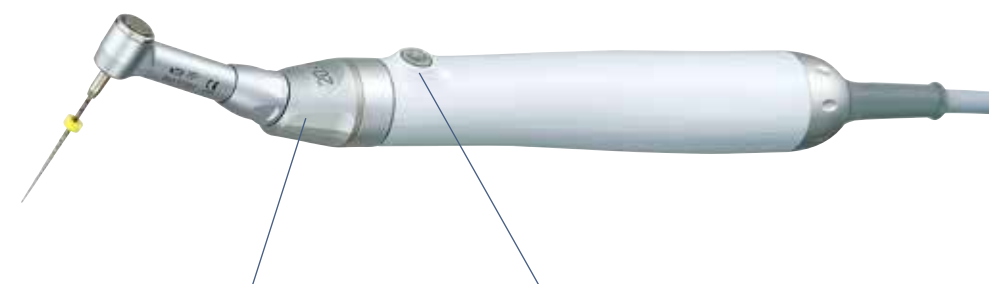
Up to 9 settings (speed and torque etc) can be programmed simply by pushing the memory function button. It's easy to switch between each preset program allowing work with all popular Ni-Ti file manufacturer's required procedures.

Dual ON/OFF control

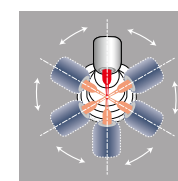


Motor ON/OFF operation is selected with handy switch located on the handpiece body or foot controller according to user's choice. (Foot controller is optional).

Lightweight, smart and comfortable 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 :

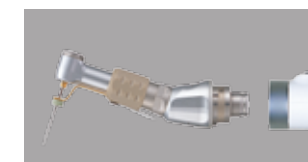
- A: Push and release
 - Micromotor operates continuously until the button is pushed again.
- B: Push and hold
 - Micromotor operates continuously until the button is released.

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:
- [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 with 20:1 Head

MODEL : ENDO-MATE DT (230 V) ORDER CODE : Y141121

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

ENDO-MATE DT without Head

MODEL : ENDO-MATE DT W/O (230 V) ORDER CODE : Y141124

- Contents :
- Control unit ● Motor and cord ● Handpiece stand ● AC adaptor

Specifications :

- Power Supply : AC 230 V 50/60 Hz and Battery pack
- Number of Program : 9 • Max. Torque : 7 Ncm (when using 20:1 head)
- Speed range : 100-13,000 min⁻¹ (with 20:1, 4:1, 1:1 geared heads)
- Charge/Continuous use : 5 h / 2 h (depending on workload)
- Dimensions : W 92 x D 148 x H 124 (mm) • Weight : Unit 456 g / Motor handpiece & cord 92 g



iPexII

Advanced Apex Locator

Using the results of numerous clinical trials and verification tests as a base, NSK created **SmartLogic**, a next-generation Apex Locator compatible with diverse tooth forms, and that provides superior accuracy in detecting the root apex. At the biologically crucial root apex - the Zone of Precision - the iPexII is able to provide a clear, accurate image of the file tip's location on its LCD panel.

Stylish & Compact Body

Lightweight and with a base just 6 cm in diameter, the iPexII can quickly be set up and used in virtually any environment. The LCD panel is pitched at the ideal angle that allows clinicians to easily and without distraction monitor conditions ensuring safe and smooth root canal procedures.

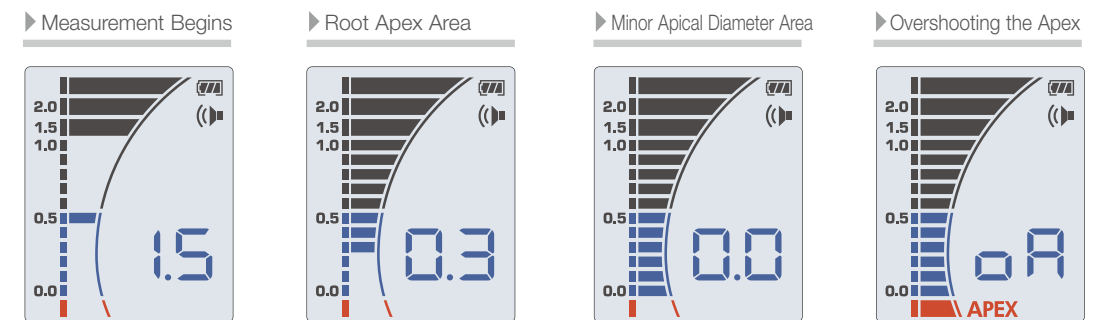


Next-Generation **SmartLogic** Controller

NSK's **SmartLogic** controller combines two advanced technologies to accurately analyse signals. iPexII **SmartLogic** technology removes virtually all signal interference from the root canal itself to precisely detect the location of the apex.

- iPexII **SmartLogic** alternates between two separate frequencies to take measurements. By reducing the noise that interferes with signal analysis, it generates a high-precision wave system that does not require a filtering circuit.
- iPexII **SmartLogic** uses the whole wave system to analyse the extracted frequency. This produces steady measurement analysis even under varying conditions in the root canal while retaining a constant link to file insertion progress.

The 3 colour LCD visual monitor screen



Monitoring the Canal Depth

For integration into Endodontic instruments (ENDO-MATE TC2 / ENDO-MATE DT / Contra-angle) The NSK endodontics products and iPexII ensure safe, precise and efficient root canal procedures.



iPexII Complete Set

MODEL : iPexII Complete Set ORDER CODE : Y1002208

Contents :

- Control unit
- iPexII Probe (1.8 m)
- iPexII File Clip (3 pcs.)
- Lip Hook (3 pcs.)
- AAA manganese dry batteries (3 pcs.)
- iPexII Tester

Specifications :

- Power Supply : for 1.5 V AAA (LR03 or R03) batteries
- Continuous use : Approx. 60 hours
- Dimensions : W 60 x D 60 x H 86 (mm)
- Weight : 76 g (unit without batteries)



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

Heads for Endodontic Application

- 20 : 1 MODEL : **MP-F20R** ORDER CODE : **Y110044**
- 16 : 1 MODEL : **MP-F16R** ORDER CODE : **Y110096**
- 10 : 1 MODEL : **MP-F10R** ORDER CODE : **Y110048**

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



- 20 : 1 MODEL : **MPAS-F20R** ORDER CODE : **Y110046**
- 16 : 1 MODEL : **MPAS-F16R** ORDER CODE : **Y110098**

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



Motors

MODEL : **ENDO-MATE TC2 Motor**
ORDER CODE : **E346**

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



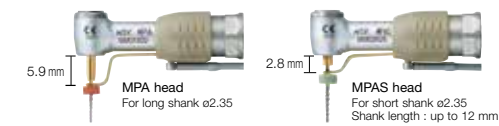
MODEL : **ENDO-MATE DT Motor & Cord**
ORDER CODE : **E275**



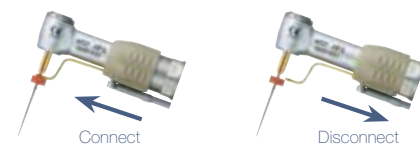
Apex Locator Capability

MPA and MPAS heads are equipped with built in probe ring which enable to use your Apex locator with the ENDO-MATE TC2 & DT systems. 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.



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



Endodontic Contra-angles

Ti-Max X SERIES



10:1 Reduction

- OPTIC** MODEL : **X35L** ORDER CODE : **C620**
- NON-OPTIC** MODEL : **X35** ORDER CODE : **C624**

- Max Speed: 4,000 min⁻¹ ● For Hand File & Engine File ● 60° Twist ● Titanium Body with Scratch Resistant DURACOAT
- Push Button Chuck ● Single Spray ● Microfilter ● Cellular Glass Optics



MODEL : **QF Adaptor**
ORDER CODE : **C877701**

FX SERIES

External Water Spray



16:1 Reduction

- NON-OPTIC** MODEL : **FX75m** ORDER CODE : **C1055001**

- Max Speed: 2,300 min⁻¹ ● For engine files ● Stainless Steel Body ● 360° Rotation
- Push Button Chuck ● Miniature Head

EX SERIES

External Water Spray



64:1 Reduction

- NON-OPTIC** MODEL : **MPA-ER64** ORDER CODE : **Y110144**
- NON-OPTIC** MODEL : **MPA-ER64M** ORDER CODE : **Y110184**

- Max Speed: 625 min⁻¹ ● Connection for Apex locator (Long shank files) ● Miniature Head
- For engine files ● 360° Rotation ● Push Button Chuck

Washable in the thermoisinfector
(Exclude ENDO-MATE TC2 Motor, ENDO-MATE DT Motor & Cord and MPA-ER64)

Autoclavable up to 135°C

Ultrasonic Scaler

Varios 970

OPTIC MODEL : VA970 LUX (230 V) ORDER CODE : Y1001168
NON-OPTIC MODEL : VA970 (230 V) ORDER CODE : Y1001175

Contents :
 ● Control unit ● Handpiece ● Handpiece cord ● 3 Scaling tips (G4, G6, G8) ● Foot control (FC-70)
 ● 2 x Irrigation bottles ● 3 x Tip wrench with torque limiter ● AC power cord ● Sterilization case



Endodontics

NSK Satelec
 MODEL : E4 ORDER CODE : Z217428
 ● For root canal cleaning



NSK Satelec
 MODEL : E4D ORDER CODE : Z217528
 ● Diamond coated ● For root canal enlargement



NSK Satelec
 MODEL : E5 ORDER CODE : Z217305
 ● Water not required ● For lateral condensation



NSK Satelec
 MODEL : E6 ORDER CODE : Z217306
 ● Water not required ● For lateral condensation



NSK Satelec
 MODEL : E7 ORDER CODE : Z217307
 ● Water not required ● For removal of filling and foreign material



NSK Satelec
 MODEL : E7D ORDER CODE : Z217317
 ● Diamond coated ● For enlargement of root canal wall



NSK Satelec
 MODEL : E8 ORDER CODE : Z217308
 ● Water not required ● For removal of filling and foreign material



NSK Satelec
 MODEL : E8D ORDER CODE : Z217318
 ● Diamond coated ● For enlargement of root canal wall



NSK Satelec
 MODEL : E15D ORDER CODE : Z217319
 ● Diamond coated ● For locating root canals and removal of calcifications



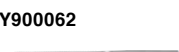
NSK Satelec
 MODEL : E11 ORDER CODE : Z217031
 ● For U files (ø0.8 mm) ● For root canal cleaning
 ● For anterior teeth ● 120° Angle Holder for U files



NSK Satelec
 MODEL : E12 ORDER CODE : Z217032
 ● For U files (ø0.8 mm) ● For root canal cleaning
 ● For posterior teeth ● 95° Angle Holder for U files



MODEL : U files 33 mm / #15 ORDER CODE : Y900062
 ● ISO 15 ● Pack of 6



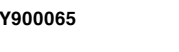
MODEL : U files 33 mm / #20 ORDER CODE : Y900063
 ● ISO 20 ● Pack of 6



MODEL : U files 33 mm / #25 ORDER CODE : Y900064
 ● ISO 25 ● Pack of 6



MODEL : U files 33 mm / #30 ORDER CODE : Y900065
 ● ISO 30 ● Pack of 6



MODEL : U files 33 mm / #35 ORDER CODE : Y900066
 ● ISO 35 ● Pack of 6



Retrograde Endo

NSK Satelec
 MODEL : E30RD ORDER CODE : Z217212
 ● Diamond coated ● For posterior teeth (right angled)



NSK Satelec
 MODEL : E30LD ORDER CODE : Z217213
 ● Diamond coated ● For posterior teeth (left angled)



NSK Satelec
 MODEL : E31D ORDER CODE : Z217210
 ● Diamond coated ● For anterior and posterior teeth (70°)



NSK Satelec
 MODEL : E32D ORDER CODE : Z217211
 ● Diamond coated ● For anterior teeth (90°)



Endodontics V-Tip

NSK Satelec
 MODEL : V30 ORDER CODE : Z217030
 ● Includes E-Tip replacement wrench
 ● V-Tip Holder ● Tip is optional



MODEL : V-S50 ORDER CODE : Y900169
 ● For root canal cleaning 17 mm ● Pack of 3



MODEL : V-S51 ORDER CODE : Y900170
 ● For root canal cleaning 23 mm ● Pack of 3



MODEL : V-S52 ORDER CODE : Y900171
 ● For root canal cleaning 26 mm ● Pack of 3



MODEL : V-S53 ORDER CODE : Y900172
 ● For root canal cleaning 32 mm ● Pack of 3



MODEL : V-S50D ORDER CODE : Y900173
 ● Diamond coated ● For root canal enlargement 17 mm
 ● Pack of 3



MODEL : V-S51D ORDER CODE : Y900174
 ● Diamond coated ● For root canal enlargement 23 mm
 ● Pack of 3




MODEL : V-S52D ORDER CODE : Y900175
 ● Diamond coated ● For root canal enlargement 26 mm
 ● Pack of 3



MODEL : V-S53D ORDER CODE : Y900176
 ● Diamond coated ● For root canal enlargement 32 mm
 ● Pack of 3



 * In order to reduce the incidence of ledge formation, there is no diamond coating on the end of the tip. (1.0 mm)

Each pack of E11, E12 or V30 includes 1 x E Tip replacement wrench. Replacement wrench is not included when ordering other tips. Please order the replacement wrench separately in this instance.

Air Scaler



OPTIC MODEL : S970L ORDER CODE : T1005
NON-OPTIC MODEL : S970 ORDER CODE : T1020

● Titanium Body with Scratch Resistant DURACOAT ● Cellular Glass Optics
 ● 3 level Power Ring ● Frequency of oscillation : 5,800-6,200 Hz
 ● Includes 3 tips (S1, S2 & S3), Tip Wrench (CR-20) and Tip Cover (L)

Endodontics V-Tip

MODEL : S75 ORDER CODE : Z252035
 ● Includes E-Tip replacement wrench
 ● V-Tip Holder ● Tip is optional



MODEL : V-U15 ORDER CODE : Y900177
 ● V-file Irrigation 23 mm #15 ● ISO 15
 ● Pack of 6



MODEL : V-U20 ORDER CODE : Y900178
 ● V-file Irrigation 23 mm #20 ● ISO 20
 ● Pack of 6



MODEL : V-U25 ORDER CODE : Y900179
 ● V-file Irrigation 23 mm #25 ● ISO 25
 ● Pack of 6



MODEL : V-U30 ORDER CODE : Y900180
 ● V-file Irrigation 23 mm #30 ● ISO 30
 ● Pack of 6



MODEL : V-U35 ORDER CODE : Y900181
 ● V-file Irrigation 23 mm #35 ● ISO 35
 ● Pack of 6



MODEL : V-N50 ORDER CODE : Y900182
 ● Ni-Ti Irrigation 17 mm ● Pack of 3



MODEL : V-N51 ORDER CODE : Y900183
 ● Ni-Ti Irrigation 21 mm ● Pack of 3



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

Heads for Endodontic Application

MODEL : **MP-Y** ORDER CODE : **C547**

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



MODEL : **MPA-Y** ORDER CODE : **C548**

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



MODEL : **MPAS-Y** ORDER CODE : **C882**

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



MODEL : **NML-Y** ORDER CODE : **C874**

- For Ni-Ti files (ø2.35) ● Miniature Head
- 360° Rotation ● Latch type



Gear

MODEL : **FC** ORDER CODE : **C873**

- 1:1 Direct Drive



MODEL : **F4R** ORDER CODE : **C872**

- 4:1 Reduction



MODEL : **F10R** ORDER CODE : **C398**

- 10:1 Reduction



MODEL : **F16R** ORDER CODE : **C871**

- 16:1 Reduction



MODEL : **F20R** ORDER CODE : **C399**

- 20:1 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		U439550
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		U480
Handpiece Stand		Z095206

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

iPexII

MODEL	PRODUCTS	ORDER CODE
iPexII File Clip		U1109351
iPexII Tester		U1109353

MODEL	PRODUCTS	ORDER CODE
iPexII Probe		U1109352
Lip Hook		U501513

FX / EX Series

MODEL	PRODUCTS	ORDER CODE
Tube (RSM)		Z166101

