

ENDODONTICS

Create it 

ENDODONTICS



NSK

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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

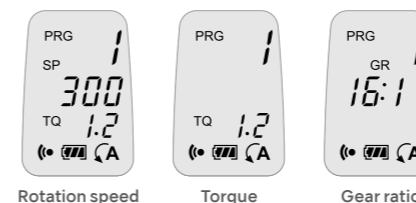
Cordless handpiece delivers freedom of movement. Lightweight, ergonomic design.

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

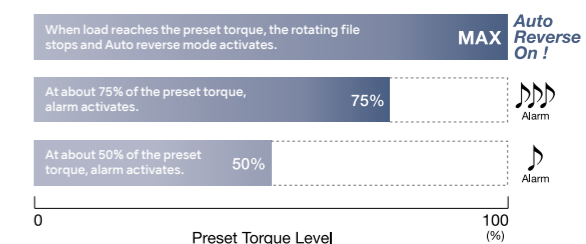
Safety for delicate endodontic treatment

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	ORDER CODE
ENDO-MATE TC2	Y1001027

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

ENDO-MATE TC2 Complete MPA Set

MODEL	ORDER CODE
ENDO-MATE TC2 MPA	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 AT Stylish and Compact Endo Micromotor

For use with all brands of Ni-Ti files

The endodontic motor has a wide range of torque and speed settings, allowing it to be used with Ni-Ti Files from virtually all major manufacturers.



Fits all major brands of Ni-Ti files

9 preset settings (speed and torque etc) are available and can be programmed simply by pushing the memory function button. Moving between each preset program is easy and allows application of the handpiece with all major Ni-Ti File manufacturer's required settings.

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

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.

Improved visibility



The extra slim head and body design greatly improves direct and indirect visibility to the operational field, even when applied to difficult access areas.

Stress free for more comfort

The slim and light weight handpiece has been created for ergonomic hand comfort during extended operational use when very fine movement is particularly necessary. The two way On/Off switch is immediately responsive and always accessible.

Compact Stylish Control Pad

Endodontic procedures are expedited and accuracy is assured due to features such as the non reflective LCD screen - designed for full visibility and delivering immediate confirmation of control settings. The clear icon system is designed to confirm operator confidence when changing settings prior to a procedure.

ENDO-MATE AT with 16:1 Head

MODEL	ORDER CODE
ENDO-MATE AT (230V)	Y1002190

Contents

- Control Unit, Motor Handpiece • Contra-angle Head (IFX75)
- Handpiece Stand • AC Adaptor

Specifications

- Power Supply : AC 230 V 50/60 Hz
- Number of Programs : 9
- Max. Torque : 7 Ncm (when using 20:1 head)
- Speed range : 100-13,000 min⁻¹
- Dimensions : W 268 x D 230 x H 103 mm
- Weight : 342 g (Including Motor handpiece)



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.

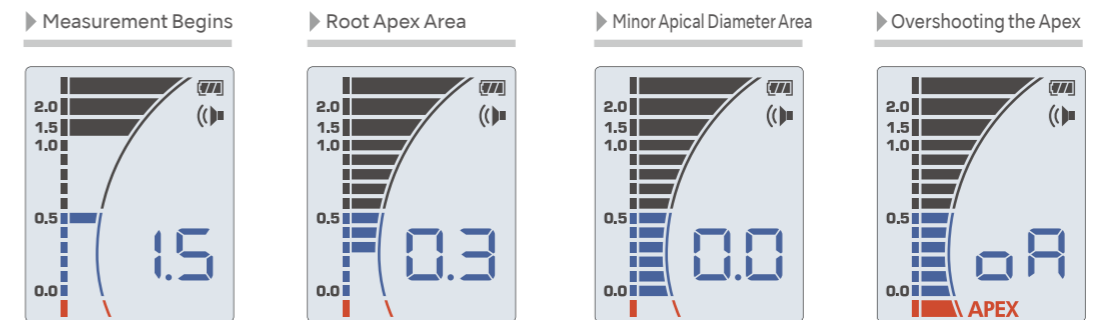


Next-Generation SmartLogic Controller

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 AT / Contra-angle) The NSK endodontics products and iPexII ensure safe, precise and efficient root canal procedures.



iPexII Complete Set

MODEL	ORDER CODE
iPexII Complete Set	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 h
 - Dimensions : W 60 x D 60 x H 86 mm
 - Weight : 76 g (unit without batteries)



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

Heads for Endodontic Application



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

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



Gear Ratio	MODEL	ORDER CODE
20:1 Reduction	MPAS-F20R	Y110046
16:1 Reduction	MPAS-F16R	Y110098

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



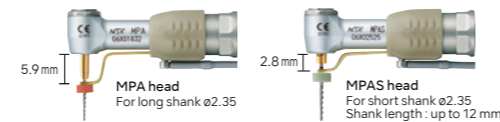
Gear Ratio	MODEL	ORDER CODE
16:1 Reduction	iFX75	C1098

- For Ni-Ti files (ø2.35) • Miniature Head • 360° Rotation
- Push Button Chuck • Stainless Steel Body • For ENDO-MATE AT

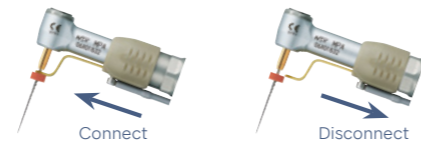
Apex Locator Capability

MPA and MPAS heads are equipped with built in probe ring which enable to use your Apex locator with the ENDO-MATE TC2 & AT system. By combining an Apex Locator with NSK ENDO-MATE TC2 & AT, 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.



Motors



ENDO-MATE TC2

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



ENDO-MATE AT

Endodontic Contra-angles

FX SERIES



Gear Ratio	MODEL	ORDER CODE
16:1 Reduction	FX75m	C1055001

- Max Speed : 1,250 min⁻¹ • For engine files • Stainless Steel Body
- 360° Rotation • Push Button Chuck • Miniature Head

NLZ Endo



Gear Ratio	MODEL	ORDER CODE
6:1 Reduction	NLZ Endo	C1130

- Max Speed : 1,000 min⁻¹ (Input Max Rotation Speed of the Motor : 6,000 min⁻¹)
- Engine Files (ø2.35) *For Rotary Endo mode
- Wave-One Reciprocating Files (ø2.35) *For Recipro Endo Mode
- Push Button Chuck

Ultrasonic Scaler Varios 970



Optic	MODEL	ORDER CODE
●	VA970 LUX	Y1001168
—	VA970	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

MODEL	ORDER CODE
E4	Z217428

- For root canal cleaning and removal of foreign material

MODEL	ORDER CODE
E4D	Z217528

- Diamond coated
- For root canal cleaning and root canal enlargement

MODEL	ORDER CODE
E5	Z217305

- Water not required
- For lateral condensation

MODEL	ORDER CODE
E6	Z217306

- Water not required
- For lateral condensation

MODEL	ORDER CODE
E7	Z217307

- Water not required
- For removal of filling and foreign material

MODEL	ORDER CODE
E7D	Z217317

- Diamond coated
- For root canal enlargement

MODEL	ORDER CODE
E8	Z217308

- Water not required
- For removal of filling and foreign material

MODEL	ORDER CODE
E8D	Z217318

- Diamond coated
- For root canal enlargement

MODEL	ORDER CODE
E15D	Z217319

- Diamond coated
- For locating root canals and removal of calcifications



MODEL	ORDER CODE
E11	Z217031

- For U files (ø0.8 mm)
- For root canal cleaning
- For anterior teeth
- 120° Angle Holder for U files

MODEL	ORDER CODE
E12	Z217032

- For U files (ø0.8 mm)
- For root canal cleaning
- For posterior teeth
- 95° Angle Holder for U files

MODEL	ORDER CODE
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U files 33mm ISO 15 Y900062

- ISO 15 • Pack of 6

U files 33mm ISO 20 Y900063

- ISO 20 • Pack of 6

U files 33mm ISO 25 Y900064

- ISO 25 • Pack of 6

U files 33mm ISO 30 Y900065

- ISO 30 • Pack of 6

U files 33mm ISO 35 Y900066

- ISO 35 • Pack of 6

Retrograde Endo

MODEL	ORDER CODE
E30RD	Z217212

- Diamond coated
- For posterior teeth (right angled)

MODEL	ORDER CODE
E30LD	Z217213

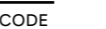
- Diamond coated
- For posterior teeth (left angled)

MODEL	ORDER CODE
E31D	Z217210

- Diamond coated
- For anterior and posterior teeth (70°)

MODEL	ORDER CODE
E32D	Z217211

- Diamond coated
- For anterior teeth (90°)



Endodontics V-Tip

MODEL	ORDER CODE
V30	Z217030

- Includes E-Tip replacement wrench
- V-Tip Holder
- Tip is optional

MODEL	ORDER CODE
V-S50	Y900169

- For root canal cleaning 17 mm
- Pack of 3

MODEL	ORDER CODE
V-S51	Y900170

- For root canal cleaning 23 mm
- Pack of 3

MODEL	ORDER CODE
V-S52	Y900171

- For root canal cleaning 26 mm
- Pack of 3

MODEL	ORDER CODE
V-S53	Y900172

- For root canal cleaning 32 mm
- Pack of 3

MODEL	ORDER CODE
V-N50	Y900182

- Ni-Ti Irrigation 17 mm
- Pack of 3

MODEL	ORDER CODE
V-N51	Y900183

- Ni-Ti Irrigation 21 mm
- Pack of 3

MODEL	ORDER CODE
V-S50D	Y900173

- Diamond coated
- Pack of 3
- For root canal enlargement 17 mm

MODEL	ORDER CODE
V-S51D	Y900174

- Diamond coated
- Pack of 3
- For root canal enlargement 23 mm

MODEL	ORDER CODE
V-S52D	Y900175

- Diamond coated
- Pack of 3
- For root canal enlargement 26 mm

MODEL	ORDER CODE
V-S53D	Y900176

- Diamond coated
- Pack of 3
- For root canal enlargement 32 mm



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

Air Scaler Ti-Max S970



Optic	MODEL	ORDER CODE
●	S970L	T1005
—	S970	T1020

- Titanium Body with Scratch Resistant DURACOAT
- Cellular Glass Optics
- 3 level Power Ring
- Includes 3 tips (S1, S2 & S3), Tip Wrench (CR-20) and Tip Cover (L)

Endodontics V-Tip

MODEL	ORDER CODE
S75	Z252035

- Includes E-Tip replacement wrench
- V-Tip Holder
- Tip is optional

MODEL	ORDER CODE
V-U15	Y900177

- V-file Irrigation 23 mm
- ISO 15 • Pack of 6

MODEL	ORDER CODE
V-U20	Y900178

- V-file Irrigation 23 mm
- ISO 20 • Pack of 6

MODEL	ORDER CODE
V-U25	Y900179

- V-file Irrigation 23 mm
- ISO 25 • Pack of 6

MODEL	ORDER CODE
V-U30	Y900180



- V-file Irrigation 23 mm
- ISO 30 • Pack of 6



MODEL	ORDER CODE
V-U35	Y900181

- V-file Irrigation 23 mm
- ISO 35 • Pack of 6

Spare Parts

ENDO-MATE TC2



MODEL	PRODUCTS	ORDER CODE
ENDO-MATE TC2 Motor		E346
Ni-MH Rechargeable Battery (Pack of 2)		Y900103



MODEL	PRODUCTS	ORDER CODE
Battery Charger		U614
Power Cord		U439551

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


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


ENDO-MATE AT

MODEL	PRODUCTS	ORDER CODE
ENDO-MATE DT Adaptor		U480
Handpiece Stand		Z095205



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



ENDO-MATE TC2 / ENDO-MATE AT Heads

MODEL	PRODUCTS	ORDER CODE
MP-Y Miniature Head, for Ni-Ti files (ø2.35), Push Button Chuck		C547

MODEL	PRODUCTS	ORDER CODE
MPA-Y Connection for Apex locator (for long shank), Miniature Head, for Ni-Ti files (ø2.35), Push Button Chuck		C548

iPexII

MODEL	PRODUCTS	ORDER CODE
iPexII File Clip		U1109351
iPexII Tester		U1109353

MODEL	PRODUCTS	ORDER CODE
iPexII Probe		U1109352
Lip Hook		U501513