

ENDODONTICS

ENDO-MATE TC2

Smarter and Safer

Cordless Endodontic Handpiece with Torque Control and Auto Reverse



Advantages

- Slim Head and neck assures higher visibility
- Large LCD panel and access-friendly key
- Lightweight, ergonomic design
- Smart Auto Reverse & Alarm Function
- 5 programs for different file systems
- Last program settings can be memorized
- 90min. quick charge with non-contact type charger

ENDO-MATE TC2 Complete Sets

ENDO-MATE TC2 Complete Sets

MODEL ENDO-MATE TC2 (120V) ORDER CODE Y1001036

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

Contents

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

ENDO-MATE TC2 Complete MPA Set

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

Contents

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



ENDO-MATE TC2 & ENDO-MATE DT Heads

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



○ MODEL MP-F20R ORDER CODE Y110044

● MODEL MP-F16R ORDER CODE Y110096

● MODEL MP-F10R ORDER CODE Y110048

- 20:1 / 16:1 / 10:1 Reduction



○ MODEL MPA-F20R ORDER CODE Y110045

● MODEL MPA-F16R ORDER CODE Y110097

- Connection for Apex locator (for long shank)
- 20:1 / 16:1 Reduction



○ MODEL MPAS-F20R ORDER CODE Y110046

● MODEL MPAS-F16R ORDER CODE Y110098

- Connection for Apex locator (for short shank)
- 20:1 / 16:1 Reduction

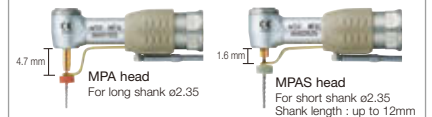
The icons shown beside each of the models indicates the reduction gear ratio of the head. All heads pictured in this brochure are the 20:1 model type.

- White = 20:1 Reduction
- Gray = 16:1 Reduction
- Navy = 10:1 Reduction

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.

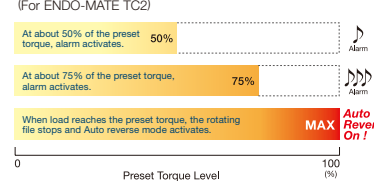


ENDO-MATE TC2 Motor



ENDO-MATE DT Motor & Cord

Two kinds of alarm sound for safer and efficient treatment (For ENDO-MATE TC2)



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

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



The heads can be washed in the thermos disinfectant



The heads are autoclavable up to 135°C

ENDO-MATE DT

Smart and Portable Ultra-slim & Compact Handpiece with Torque Control & Auto Reverse

ENDO-MATE DT is smart enough to memorise exact speed and torque settings for up to 9 Ni-Ti files from all major suppliers. Its auto-reverse features 3 working modes – auto-reverse on, auto-stop, auto-reverse off. The motor reacts when load reaches the preset level of torque. With on-off switch, it offers flexibility of pedal-free operation (optional foot control unit available), while providing convenience of full portability with two-way power supply, either AC or battery driven.



Advantages

- Fits all popular brands of Ni-Ti files
- Wide screen provides clear visibility
- 9 adjustable program selection
- Operates on electrical power or battery
- Small head adjustable to 6 positions

Features

- Easy to use flat control panel
- Torque control from 0.1 to 6.5 Ncm (Depending on the gear ratio of the head selected)
- Lightweight comfortable handpiece
- Dual function on/off switch
- Auto-reverse on, Auto-Stop, Auto-reverse off functions
- Compact and portable desktop unit

2 Way ON / OFF Switch

Micromotor On / Off operation is activated via the convenient finger switch located on the micromotor. An Optional foot control is available.



ENDODONTICS

ENDO-MATE DT Complete Sets



ENDO-MATE DT with 20:1 Head

MODEL ENDO-MATE DT (120V) ORDER CODE Y141120

MODEL ENDO-MATE DT (230V) 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 (120V) ORDER CODE Y141123

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

Contents • Control unit • Motor and cord
• Handpiece stand • AC adaptor

Specifications

- Power Supply : AC120V 60 Hz or 230V 50/60 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, 4:1, 1:1 geared heads)
- Charge / Continuous use : 5h / 2h (depending on workload)
- Dimensions : W92 x D148 x H124 (mm)
- Weight : Unit 456g / Motor handpiece & cord 92g

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.



Features

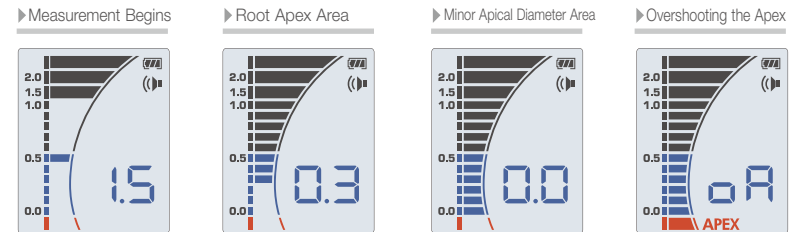
- High-precision root canal measurement generated by using SmartLogic
- Auto-detects the apex accurately in any conditions, dry or wet
- A stylish and compact body requiring only a small space
- 3 different alert sounds depending on the location of the file tip, ensuring precise procedures
- A 3 colour LCD panel with very low reflectivity, allowing clinicians to accurately and instantly monitor procedure progress
- Energy saving and low operation cost

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 1.5V AAA (LR03 or R03) batteries
- Continuous use : Approx. 60 hours
- Dimensions : W60 x D60 x H86 (mm)
- Weight : 76 g (unit without batteries)

Ti-Max Ti-ENDO Endodontic Handpiece with Adjustment Ring

With an easy-to-set adjustment ring, Ti-ENDO provides the precise torque control for sensitive endodontics procedures. Noticeably small head offers great access even in the molar area. Root-canal preparation can not be easier and safer! Applicable to all major brands' Ni-Ti files.

Advantages

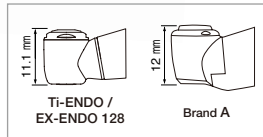
- 4-level of torque settings (0.25, 0.5, 1.0, 3.0 Ncm)
- Exceptionally small head
- Push Button Chuck



MODEL **Ti-ENDO** ORDER CODE **C589**

- 128:1 Reduction
- Solid Titanium Body
- For Ni-Ti files (ø2.35)
- 360° Rotation

Head size comparison



Power Ring allows power setting at 4 different levels.

EX Series Endodontic Handpiece

With one of the smallest heads available to endodontic handpiece, EX-ENDO 128 offers superb access even in the molar area. 128:1 reduction speed helps to provide safe and precise endodontic procedures. The compact body and Push Button Chuck reduces clinician's hand fatigue.

Advantages

- Exceptionally small head
- Push Button Chuck



MODEL **EX-ENDO 128** ORDER CODE **C592**

- 128:1 Reduction
- For Ni-Ti files (ø2.35)
- 360° Rotation