

ENDODONTICS



ENDODONTICS

Createit

NSK

INDEX

| | |
|----------------------|-----------|
| ENDO-MATE TC2 | P 03 - 04 |
| ENDO-MATE DT2 | 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

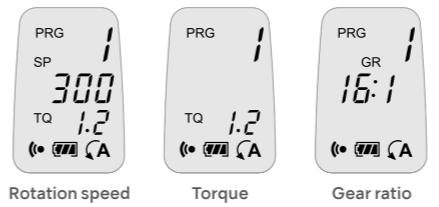
Cordless handpiece delivers freedom of movement. Lightweight, ergonomic design.

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.



Rotation speed Torque Gear ratio

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 |

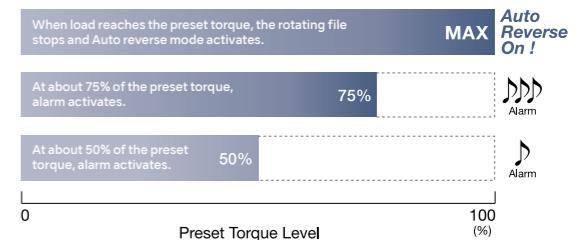
Safety for delicate endodontic treatment

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 DT2

Endodontic Micromotor

smart & portable

ENDO-MATE DT2 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 protocols. 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 easy and comfortable handling for high performance.

Compatible all popular brands of Ni-Ti files

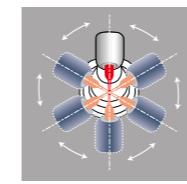
Up to 9 settings (speed and torque etc) can be programmed simply by pushing the memory function button. It's easy to switch between each preset program allowing work with all popular Ni-Ti file manufacturer's protocols.

| Gear Ratio | Rotation Speed (min ⁻¹) |
|------------|-------------------------------------|
| 20:1 | 100-650 |
| 16:1 | 125-800 |



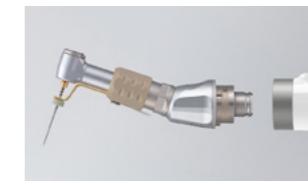
Lightweight, smart and ergonomic handpiece.

6 head angles for ease of treatment



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

Quick coupling



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

Push type ultra miniature head

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

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.

Auto reverse function

The auto reverse function activates when the preset torque level has been reached.

Other function

Beeping sound notifies user when preset torque limit has been reached.

2 way power source

ENDO-MATE DT2 has been designed to work with a rechargeable battery for portable use or can be powered using the AC adaptor supplied.

ENDO-MATE DT2 with 20:1 Head

| MODEL | ORDER CODE |
|----------------------|------------|
| ENDO-MATE DT2 (230V) | Y1004230 |

Contents

- Control unit
- Motor and Cord
- MP-F20R head (20:1)
- Handpiece stand
- AC Adaptor

ENDO-MATE DT2 without Head

| MODEL | ORDER CODE |
|--------------------------|------------|
| ENDO-MATE DT2 W/O (230V) | Y1004231 |

Contents

- Control unit
- Motor and Cord
- Handpiece stand
- AC Adaptor

Specifications

- Power supply : AC 230 V 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, 1:1 geared heads)
- Charge/Continuous use : 5 h / 2 h (depending on workload)
- Dimensions : W 93 x D 147 x H 100 mm
- Weight : Unit 440 g / Motor handpiece and Cord 95 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.

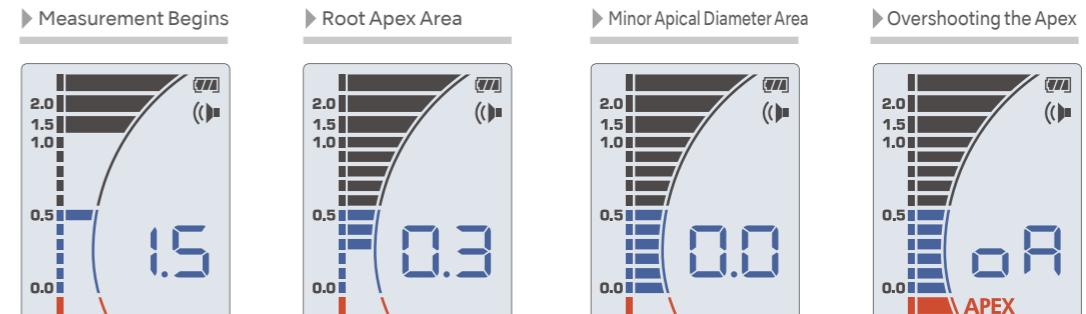


Next-Generation SmartLogic Controller

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 DT2 / 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 DT2 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 |
|----------------|----------|------------|
| 16:1 Reduction | MPA-F16R | Y110097 |

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

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 DT2 Motor and Cord | E1169001 |

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 & DT2 systems. By combining an Apex Locator with NSK ENDO-MATE TC2 & DT2, 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



FX SERIES



| Gear Ratio | Optic | MODEL | ORDER CODE |
|----------------|-------|-------|------------|
| 10:1 Reduction | ● | X35L | C620 |
| 10:1 Reduction | — | X35 | 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 | ORDER CODE |
|------------|------------|
| QF Adaptor | C877701 |

| Gear Ratio | Optic | 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

Contra-angle

Ultrasonic Scaler Varios 970

| Optic | MODEL | ORDER CODE |
|-------|-------------------|------------|
| ● | VA970 LUX 230 VS1 | Y1004161 |
| — | VA970 230 VS1 | Y1004160 |

- Contents**
- Control unit
 - Handpiece
 - Handpiece cord
 - 3 Scaling tips (G4, G8, G16)
 - Foot control (FC-70)
 - 2 x Irrigation bottles
 - 3 x Tip wrench with torque limiter
 - AC power cord
 - Sterilization case



Endodontics

| MODEL | ORDER CODE | NSK Satelec |
|-------|------------|---------------|
| E4 | Z217428 | |

- For root canal cleaning and removal of foreign material

| MODEL | ORDER CODE | NSK Satelec |
|-------|------------|---------------|
| E4D | Z217528 | |

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

| MODEL | ORDER CODE | NSK Satelec |
|-------|------------|---------------|
| E5 | Z217305 | |

- Water not required
- For lateral condensation

| MODEL | ORDER CODE | NSK Satelec |
|-------|------------|---------------|
| E6 | Z217306 | |

- Water not required
- For lateral condensation

| MODEL | ORDER CODE | NSK Satelec |
|-------|------------|---------------|
| E7 | Z217307 | |

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

| MODEL | ORDER CODE | NSK Satelec |
|-------|------------|---------------|
| E7D | Z217317 | |

- Diamond coated
- For root canal enlargement

| MODEL | ORDER CODE | NSK Satelec |
|-------|------------|---------------|
| E8 | Z217308 | |

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

| MODEL | ORDER CODE | NSK Satelec |
|-------|------------|---------------|
| E8D | Z217318 | |

- Diamond coated
- For root canal enlargement

| MODEL | ORDER CODE | NSK Satelec |
|-------|------------|---------------|
| E15D | Z217319 | |

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

| MODEL | ORDER CODE | NSK Satelec |
|-------|------------|---------------|
| E11 | Z217031 | |

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

| MODEL | ORDER CODE | NSK Satelec |
|-------|------------|---------------|
| E12 | Z217032 | |

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

| MODEL | ORDER CODE | NSK Satelec |
|---------------------|------------|---------------|
| U files 33mm ISO 15 | Y900062 | |

- ISO 15 • Pack of 6

| MODEL | ORDER CODE | NSK Satelec |
|---------------------|------------|---------------|
| U files 33mm ISO 20 | Y900063 | |

- ISO 20 • Pack of 6

| MODEL | ORDER CODE | NSK Satelec |
|---------------------|------------|---------------|
| U files 33mm ISO 25 | Y900064 | |

- ISO 25 • Pack of 6

| MODEL | ORDER CODE | NSK Satelec |
|---------------------|------------|---------------|
| U files 33mm ISO 30 | Y900065 | |

- ISO 30 • Pack of 6

| MODEL | ORDER CODE | NSK Satelec |
|---------------------|------------|---------------|
| U files 33mm ISO 35 | Y900066 | |

- ISO 35 • Pack of 6

| MODEL | ORDER CODE | NSK Satelec |
|-------|------------|---------------|
| E30RD | Z217212 | |

- Diamond coated
- For posterior teeth (right angled)

| MODEL | ORDER CODE | NSK Satelec |
|-------|------------|---------------|
| E30LD | Z217213 | |

- Diamond coated
- For posterior teeth (left angled)

| MODEL | ORDER CODE | NSK Satelec |
|-------|------------|---------------|
| E31D | Z217210 | |

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

| MODEL | ORDER CODE | NSK Satelec |
|-------|------------|---------------|
| E32D | Z217211 | |

- Diamond coated
- For anterior teeth (90°)

Endodontics V-Tip

| MODEL | ORDER CODE | NSK Satelec |
|-------|------------|---------------|
| 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 |
| --- | --- |
<tbl_info cols="

ENDO-MATE TC2 / ENDO-MATE DT2 Heads & Gear

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 |
|--------------|-------------|
| MPA-Y | C548 |

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



| 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)



| MODEL | ORDER CODE |
|--------------|-------------|
| NML-Y | C874 |

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



Gear

| MODEL | ORDER CODE |
|-----------|-------------|
| FC | C873 |

- 1:1 Direct Drive



| 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



Washable in the thermodisinfector



Autoclavable



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 DT2

| MODEL | PRODUCTS | ORDER CODE |
|-----------------------------|----------|-----------------|
| ENDO-MATE DT2 Unit | | U1138001 |
| ENDO-MATE DT Adaptor | | U480 |
| Handpiece Stand | | Z095205 |

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

| MODEL | PRODUCTS | ORDER CODE |
|-------------------------------|----------|----------------|
| Rechargeable Batteries | | U421070 |
| F-Type Spray Nozzle | | Z256090 |

iPexII

| MODEL | PRODUCTS | ORDER CODE |
|-------------------------|----------|-----------------|
| iPexII File Clip | | U1109351 |
| iPexII Tester | | U1109353 |

| MODEL | PRODUCTS | ORDER CODE |
|---------------------|----------|-----------------|
| iPexII Probe | | U1109352 |
| Lip Hook | | U501513 |