

25/26

CRAFIEN

saeyang

# We, SAEYANG, has continued to grow.

Since its founding in 1976, Saeyang has steadily grown as a trusted manufacturer of  
micro-handpieces for dental and laboratory applications.

We are proud to serve customers in Korea and over 120 countries around the world.

Our commitment to exceptional product quality is at the heart of everything we do,  
ensuring customer satisfaction as our top priority.

Through continuous investment in R&D and state-of-the-art facilities,  
we strive to drive innovation and introduce at least two new models to the market each year.

Thank you for your continued trust and support.



**Company PR video**





## ***Technology Makes the Difference***

We consistently develop innovative products by leveraging new technologies and fresh ideas.

## ***Exhibition Participation***

We participate in over 20 renowned international exhibitions annually, including those in the United States, Germany, France, Spain, the UK, Italy, Hong Kong, and China. These events provide valuable opportunities to build and strengthen mutual trust and confidence with our buyers across more than 120 countries.



## ***SAEYANG is Attentive to Your Needs***

Technology Makes a Difference.  
At Saeyang, we are committed to listening to our customers' needs and requirements and continuously striving to meet them.

# THE PATH SAEYANG HAS TRAVELED



- **1976** - Company Established
- **1977** - Registered manufacturing of medical equipment.
- **1987** - Registered trading business
- **1989** - Registered Korea medical equipment cooperative association
- **1991** - Registered of designs for engine for dental laboratory
- **1998** - Certified ISO 9001 from TUV (Germany)
- **1999** - Certified CE Mark from TUV (Germany)
- **2000** - Certified Venture enterprise for high technology
- **2001** - Awarded official Superior Exporting Firm  
- Awarded Leading Enterprise
- **2002** - Certified CE Mark of New item "Escort"
- **2003** - Registered manufacturing Brushless motor  
- Certified CE Mark of "Marathon Multi 600" Brushless motor
- **2004** - Established R&D center  
- Certified CE Mark of New item "Marathon N7&N2"
- **2005** - Certified CE Mark of New item "Marathon HANDY700 Series"  
- Awarded official best Exporting Firm
- **2006** - Moved into a new factory  
- Certified PSE from TUV  
- Opening Ceremony of a new factory as well as the 30th anniversary
- **2008** - Certified ISO 9001 : 2000 from SGS (U.K)  
- Certified ISO 13485 : 2003 from SGS (U.K)  
- Certified Directive 93/42/EEC from SGS (U.K)





- **2011** - Development of Endo a class
- **2013** - Developed Implant Motor
  - Certified FDA (Endo Motor)
- **2014** - 60,000RPM Handpiece Developed
  - 20:1 Optic Handpiede Developed
- **2015** - Certified FDA CFDA(Implant Motor)
- **2016** - Awarded for Exporting US\$ 20 million
- **2017** - Factory expansion
  - Development of Endo E plus
  - Development of Ki-20 Advance
  - Development of K35 cube
- **2018** - Development of Endo A Class (APX)
  - Development of MINI cro
  - Korean World-class Product Award 2018
- **2019** - Development of Escort II pro (Ver2)
- **2020** - Good Design Selection 2020
  - Development of Escort III (Ver2)
- **2021** - Development of K35 mini
  - Development of Pro M Class
- **2022** - Development of K38 pro
  - Development of K48 pro
  - Development of CYCLONE-VAC
  - Development of Multi 800
- **2023** - Development of LEVENT
  - Selected for [Global Leading Company 1,000+]
- **2024** - Development of K48 pro
  - Selected for [Global Leading Company 1,000+]

# PRODUCT LINE UP

## **PODIATRY DRILL**

CYCLONE-VAC

KI-20

K48 PRO

## **DUST COLLECTOR**

LEVENT

## **NAIL & PEDI DRILL**

MICROMOTOR

CONTROL UNIT

## **SPARE PARTS**

# PODIATRY DRILL



# CYCLONE-VAC 40K

Features include all-round suction

A powerful BLDC handpiece with a maximum speed of 40,000 rpm

An efficient design for convenient handpiece mounting

A filter replacement indicator

An on-off push knob

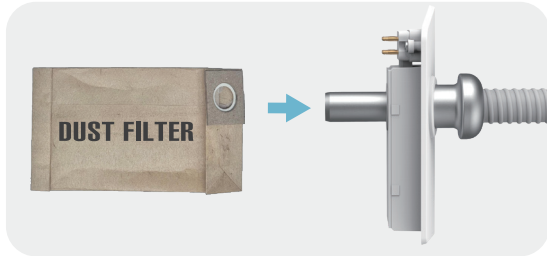
An independent handpiece on-off switch



Product video

## EASY DUST FILTER REPLACEMENT

The LCD displays an icon to indicate when the dust filter needs to be replaced. To replace it, simply detach the handpiece from the control unit and install a new filter.



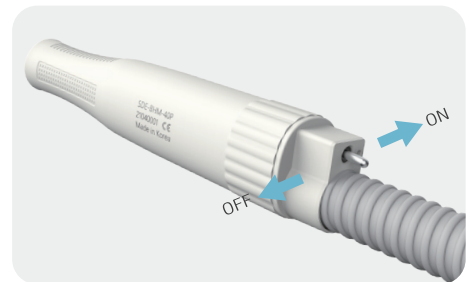
## ON-OFF PUSH KNOB

Pressing the knob turns on the power to the control unit.



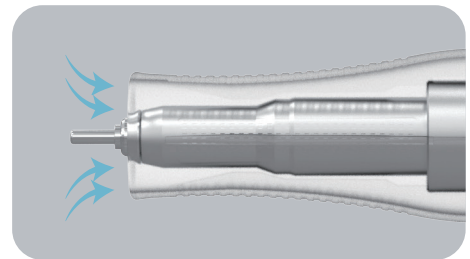
## HANDPIECE ON-OFF SWITCH

If the switch at the back of the handpiece is turned off during operation, both the handpiece and suction will temporarily stop, and the rotation speed icon on the LCD will blink.



## ALL-ROUND SUCTION

CYCLONE-VAC allows you to adjust the suction power in 5 levels, effectively minimizing dust by suctioning the entire circumference of the handpiece during operation.



Optional



## CONTENTS

Control unit / Handpiece / Dust bag / Power cable / Collet cleaning tool / Bur disassembly tool / Foot pedal(optional)

## SPECIFICATION

|               |                            |
|---------------|----------------------------|
| Model         | Control unit (CYCLONE-VAC) |
| Input         | AC 100-240V, 50/60Hz       |
| Max. rpm      | 40,000 rpm                 |
| Weight        | 2,400g                     |
| Dimension(mm) | W291 x D263 x H135         |

|               |                        |
|---------------|------------------------|
| Model         | Handpiece(SDE-BHM-40P) |
| Hose length   | 1,450mm                |
| Weight        | 364g                   |
| Dimension(mm) | W168 x D27 x H32       |

|               |                       |
|---------------|-----------------------|
| Model         | Foot pedal (SDE-FS60) |
| Weight        | 558g                  |
| Dimension(mm) | W170 x D110 x H58     |

# Ki-20

## Hallux valgus surgery drill system

9 memory programs can be stored on single motor

Large LCD display



### Optimized for MICA (Minimally Invasive Chevron & Akin)

Small incisions minimize damage to muscles, ligaments, and bones, leading to faster recovery and less postoperative pain.



#### CONTENTS

Control unit / Micromotor / Motor cable / Handpiece / Foot control / Foot hanger / Handpiece stand / Coolant hanger / Power cord / Irrigation tube / Motor plug

#### SPECIFICATION

|               |  |
|---------------|--|
| Model         | Control unit(Ki-20)                          |
| Input         | AC 100–120V, 50/60Hz<br>AC 220–240V, 50/60Hz |
| Output        | 100VA  |
| Weight        | 2,606g                                       |
| Dimension(mm) | W240 x D225 x H97                            |

|               |                      |
|---------------|----------------------|
| Model         | Foot control(Ki-F20) |
| Weight        | 1,015g               |
| Dimension(mm) | W218 x D190 x H57    |

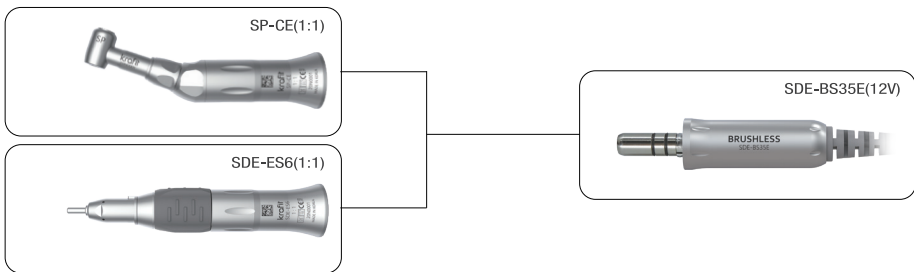
|               |                     |
|---------------|---------------------|
| Model         | Micromotor (Ki-MT0) |
| Max. Speed    | 40,000 rpm          |
| Weight        | 265g                |
| Dimension(mm) | L117 x Ø22          |

|               |             |
|---------------|-------------|
| Model         | SDE-ES100N  |
| Gear ratio    | 1 : 1       |
| Max. speed    | 40,000 rpm  |
| Weight        | 75 g        |
| Dimension(mm) | L88 x Ø17.5 |



# K48 PRO 35K

- Can be used for Dead Skin Removal and Foot Care
- Can be used for Problematic toenails
- MAX 8hours
- LI-ION battery (rechargeable)
- Color LCD display
- Pause function
- Power save
- Overload protection (warning signal)
- On/Off Foot Switch (SFP-27)



## CONTENTS

Control unit / E-type motor / Handpiece stand / Charger / Control unit stand(optional) / Foot pedal(optional) / Handpiece holder(optional)

## SPECIFICATION

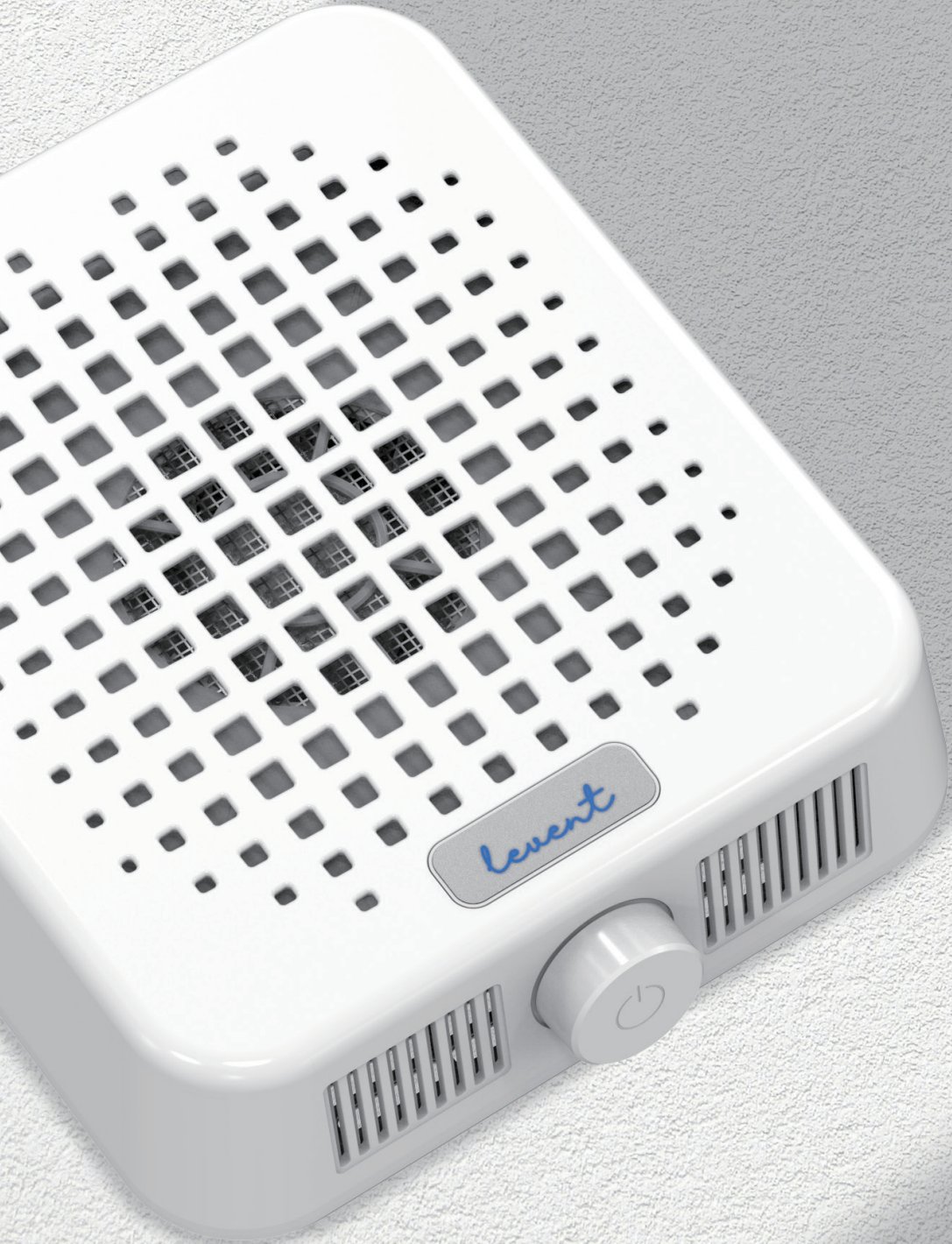
|               |                        |
|---------------|------------------------|
| Model         | Control unit (K48 PRO) |
| Input         | 12.6Vdc                |
| Output        | 12Vdc                  |
| Weight        | 290g                   |
| Dimension(mm) | W74 x D138 x H30       |

|               |                          |
|---------------|--------------------------|
| Model         | E-type motor (SDE-BS35E) |
| Max.speed     | 35,000 rpm               |
| Torque        | 2.4 Ncm                  |
| Weight        | 60g                      |
| Dimension(mm) | L89.3 x Ø18.8            |

|        |                   |
|--------|-------------------|
| Model  | Charger           |
| Input  | 100-240V, 50/60Hz |
| Output | 12.6Vdc           |

|               |                        |
|---------------|------------------------|
| Model         | Foot pedal (SDE-SFP27) |
| Weight        | 195g                   |
| Dimension(mm) | W68 x D107 x H35       |

# **NAIL DUST COLLECTOR**



# LEVENT



white



yellow

Powerful suction

Max. 4,000rpm, 52.8W

Detachable top cover for easy cleaning

2Type filters : HEPA filter, disposable filter

Special ventilation design

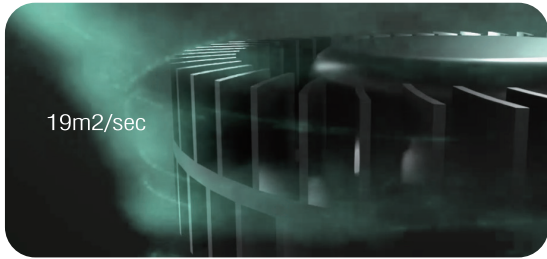
Acetone safe top cover



Product video

## POWERFUL SUCTION

It has an ultra-strong suction design that easily captures fine particles with a powerful suction motor. It helps maintain a healthy and clean working environment by removing fine dust.



## EASY-TO-MAINTAIN TOP COVER

The removable top cover allows customers to easily clean it. It is UV-coated, ensuring no deformation even if acetone is accidentally spilled during work

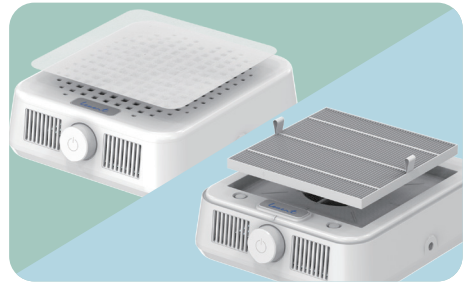
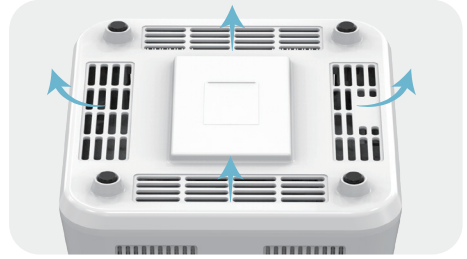
## 2 TYPE FILTERS

**Disposable filter** | Affordable and easy to maintain, it can be replaced after one or two uses to ensure cleanliness

**HEPA Filter** | Reusable multiple times by removing accumulated debris either manually or with a vacuum cleaner

## SPECIAL VENTILATION DESIGN

LEVENT has vent holes designed for effective heat dissipation and better suction. For comfortable operation, vent holes are provided at the bottom and sides of the unit.



## CONTENTS

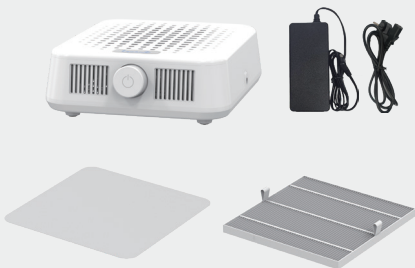
Control unit / Power adaptor / Power cable/ Disposable filter/ HEPA filter

## SPECIFICATION

|               |                         |
|---------------|-------------------------|
| Model         | Control unit (LEVENT)   |
| Input         | 100-240V~, 50/60Hz 1.5A |
| Max. rpm      | 4,000 rpm               |
| Weight        | 960g                    |
| Dimension(mm) | W210 x D252 x H77.7     |

|               |                         |
|---------------|-------------------------|
| Model         | Disposable filter(50EA) |
| Weight        | 70g                     |
| Dimension(mm) | W150 x D150             |

|               |                   |
|---------------|-------------------|
| Model         | HEPA filter       |
| Weight        | 25g               |
| Dimension(mm) | W160 x D160 x H10 |



# **NAIL & PEDI DRILL**



# DC HANDPIECE



30V 40K

## SDE-SH37L(M45)

|             |              |
|-------------|--------------|
| SPEED       | 0-40,000 rpm |
| MAX. TORQUE | 4.5Ncm       |
| WEIGHT      | 210 g        |
| DIMENSIONS  | L154 x Ø30   |



30V 35K

## SDE-H37L1

|             |              |
|-------------|--------------|
| SPEED       | 0-35,000 rpm |
| MAX. TORQUE | 3.2Ncm       |
| WEIGHT      | 210 g        |
| DIMENSIONS  | L155 x Ø30   |



30V 35K

## SDE-H35SP1

|             |              |
|-------------|--------------|
| SPEED       | 0-35,000 rpm |
| MAX. TORQUE | 3.2Ncm       |
| WEIGHT      | 210 g        |
| DIMENSIONS  | L152 x Ø28   |



30V 30K

## SDE-H20

|             |              |
|-------------|--------------|
| SPEED       | 0-30,000 rpm |
| MAX. TORQUE | 2.9Ncm       |
| WEIGHT      | 155 g        |
| DIMENSIONS  | L151 x Ø26   |



30V 24V 12V 30K

## SDE-H200

|             |              |
|-------------|--------------|
| SPEED       | 0-30,000 rpm |
| MAX. TORQUE | 2.9Ncm       |
| WEIGHT      | 150 g        |
| DIMENSIONS  | L129 x Ø22   |

# DC HANDPIECE



**30V** **30K**

## SDE-SH30N

|                   |              |
|-------------------|--------------|
| <b>SPEED</b>      | 0-30,000 rpm |
| <b>MAX.TORQUE</b> | 2.9Ncm       |
| <b>WEIGHT</b>     | 165 g        |
| <b>DIMENSIONS</b> | L129 x Ø22   |



**30V** **30K**

## SDE-SH20N

|                   |              |
|-------------------|--------------|
| <b>SPEED</b>      | 0-30,000 rpm |
| <b>MAX.TORQUE</b> | 2.7Ncm       |
| <b>WEIGHT</b>     | 146 g        |
| <b>DIMENSIONS</b> | L128 x Ø26   |



**24V** **25K**

## SDE-SH250

|                   |              |
|-------------------|--------------|
| <b>SPEED</b>      | 0-25,000 rpm |
| <b>MAX.TORQUE</b> | 2.9Ncm       |
| <b>WEIGHT</b>     | 165 g        |
| <b>DIMENSIONS</b> | L129 x Ø22   |



**24V** **20K**

## SDE-MH24

|                   |              |
|-------------------|--------------|
| <b>SPEED</b>      | 0-20,000 rpm |
| <b>MAX.TORQUE</b> | 1.3Ncm       |
| <b>WEIGHT</b>     | 130 g        |
| <b>DIMENSIONS</b> | L120 x Ø20   |



**12V** **30K**

## SDE-MH20(30K)

|                   |              |
|-------------------|--------------|
| <b>SPEED</b>      | 0-30,000 rpm |
| <b>MAX.TORQUE</b> | 1.3Ncm       |
| <b>WEIGHT</b>     | 130 g        |
| <b>DIMENSIONS</b> | L120 x Ø20   |

# DC HANDPIECE



12V 20K

## SDE-MH20(20K)

|            |              |
|------------|--------------|
| SPEED      | 0-20,000 rpm |
| MAX.TORQUE | 1.3Ncm       |
| WEIGHT     | 130 g        |
| DIMENSIONS | L120 x Ø20   |



12V 30K

## SDE-SH300

|            |              |
|------------|--------------|
| SPEED      | 0-30,000 rpm |
| MAX.TORQUE | 2.9Ncm       |
| WEIGHT     | 165 g        |
| DIMENSIONS | L129 x Ø22   |



30V 40K

## SDE-M40Es

|            |              |
|------------|--------------|
| SPEED      | 0-40,000 rpm |
| MAX.TORQUE | 2.2Ncm       |
| WEIGHT     | 109 g        |
| DIMENSIONS | L99 x Ø25    |



30V 30K

## SDE-M30Es

|            |              |
|------------|--------------|
| SPEED      | 0-30,000 rpm |
| MAX.TORQUE | 3.2Ncm       |
| WEIGHT     | 90 g         |
| DIMENSIONS | L97 x Ø23    |



24V 20K

## SDE-MH24E

|            |              |
|------------|--------------|
| SPEED      | 0-20,000 rpm |
| MAX.TORQUE | 2.2Ncm       |
| WEIGHT     | 80 g         |
| DIMENSIONS | L96 x Ø20    |

# DC HANDPIECE



12V

30K

## SDE-M300Es

|            |              |
|------------|--------------|
| SPEED      | 0-30,000 rpm |
| MAX.TORQUE | 3.2Ncm       |
| WEIGHT     | 90 g         |
| DIMENSIONS | L97 x Ø23    |



12V

20K

## SDE-MH20E

|            |              |
|------------|--------------|
| SPEED      | 0-20,000 rpm |
| MAX.TORQUE | 2.2Ncm       |
| WEIGHT     | 80 g         |
| DIMENSIONS | L96 x Ø20    |

# BLDC HANDPIECE

12V

35K



## SDE-BS35

|            |              |
|------------|--------------|
| SPEED      | 0-35,000 rpm |
| MAX.TORQUE | 2.4Ncm       |
| WEIGHT     | 120 g        |
| DIMENSIONS | L123 x Ø20   |

12V

35K



## SDE-BS30

|            |              |
|------------|--------------|
| SPEED      | 0-35,000 rpm |
| MAX.TORQUE | 2.4Ncm       |
| WEIGHT     | 120 g        |
| DIMENSIONS | L123 x Ø20   |

12V

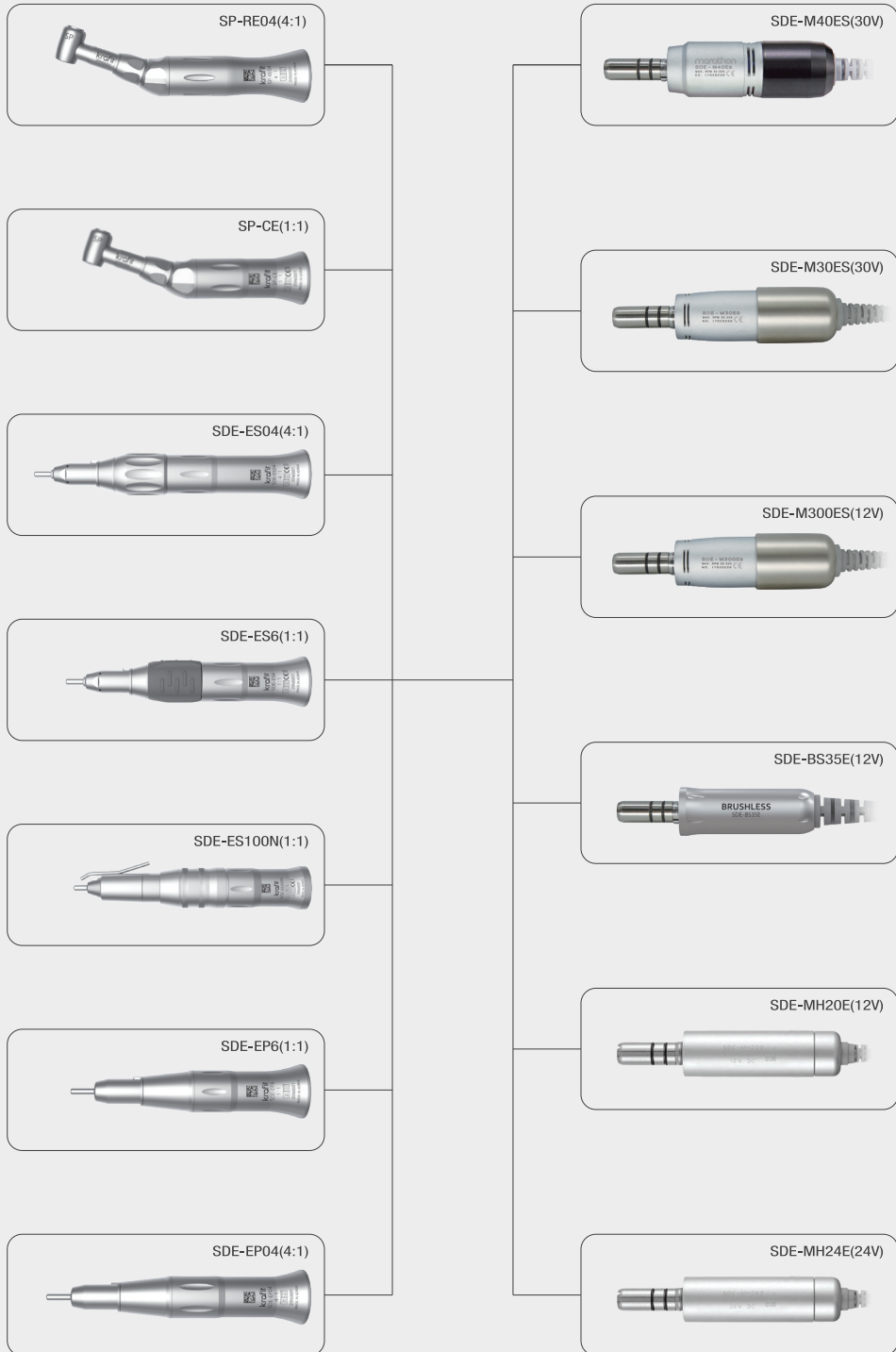
35K



## SDE-BS35E

|            |               |
|------------|---------------|
| SPEED      | 0-35,000 rpm  |
| MAX.TORQUE | 2.4Ncm        |
| WEIGHT     | 60 g          |
| DIMENSIONS | L89.3 x Ø18.8 |

# COMPATIBLE E-TYPE MOTOR



# MARATHON-N7 40K

- Automatic safety overload protection system
- Dust-proof cover for switch
- Built-in handpiece cradle & bit stand
- Forward / Reverse direction switch
- On / Off foot switch (SFP-27)
- Variable speed control pedal (FS-60)



## DUST-PROOF COVER FOR SWITCH

The power switch is equipped with a cover to prevent dust from entering the inside of the controller, ensuring better durability and performance.

Optional



## CONTENTS

Control unit / Handpiece / Foot pedal / Handpiece holder / Handpiece stand

## SPECIFICATION

|               |                            |               |                        |
|---------------|----------------------------|---------------|------------------------|
| Model         | Control unit (MARATHON-N7) | Model         | Handpiece (SDE-SH37L)  |
| Input         | AC 100-120V, 50/60Hz       | Speed         | 0-40,000 rpm           |
|               | AC 220-240V, 50/60Hz       | Torque        | 4.5 Ncm                |
| Weight        | 1,700g                     | Weight        | 210g                   |
| Dimension(mm) | W115 x D147 x H96          | Dimension(mm) | Ø30 x L154             |
| Model         | Foot pedal (SDE-FS60)      | Model         | Foot pedal (SDE-SFP27) |
| Weight        | 558g                       | Weight        | 195g                   |
| Dimension(mm) | W170 x D110 x H58          | Dimension(mm) | W68 x D107 x H35       |

# MARATHON-N2 35K

Automatic safety overload protection system

Dust - proof cover for switch

Built - in handpiece cradle & bit stand

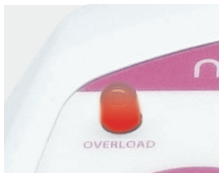
Forward / Reverse direction switch

On / Off foot switch (SFP-27)

Variable speed control pedal (FS-60)



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## AUTOMATIC SAFETY OVERLOAD PROTECTION SYSTEM

The Marathon-N2 equipped with an automatic protection system that activates in case of overload, indicated by the illumination of an LED light.

Optional



## CONTENTS

Control unit / Handpiece / Foot pedal / Handpiece holder / Handpiece stand

## SPECIFICATION

|               |                            |               |                        |
|---------------|----------------------------|---------------|------------------------|
| Model         | Control unit (MARATHON-N2) | Model         | Handpiece (SDE-H35SP1) |
| Input         | AC 100~120V, 50/60Hz       | Speed         | 0-35,000 rpm           |
|               | AC 220~240V, 50/60Hz       | Torque        | 3.2 Ncm                |
| Weight        | 1,700g                     | Weight        | 210g                   |
| Dimension(mm) | W115 x D147 x H96          | Dimension(mm) | Ø28 x L152             |
| Model         | Foot pedal (SDE-FS60)      | Model         | Foot pedal (SDE-SFP27) |
| Weight        | 558g                       | Weight        | 195g                   |
| Dimension(mm) | W170 x D110 x H58          | Dimension(mm) | W68 x D107 x H35       |

# BLDC K48 PRO 35K

- MAX 8hours
- LI-ION battery (rechargeable)
- Color LCD display
- Pause function
- Power save
- Overload protection (warning signal)
- On/Off Foot Switch (SFP-27)



## PAUSE FUNCTION

Press the knob once to pause operation.  
Press it again to resume at the previous speed.



Product video

Optional



## CONTENTS

Control unit / Handpiece / Handpiece stand / Charger / Control unit stand(optional)  
/ Foot pedal(optional) / Handpiece holder(optional)

## SPECIFICATION

|               |                        |
|---------------|------------------------|
| Model         | Control unit (K48 PRO) |
| Input         | 12.6Vdc                |
| Output        | 12Vdc                  |
| Weight        | 290g                   |
| Dimension(mm) | W74 x D138 x H30       |

|               |                      |
|---------------|----------------------|
| Model         | Handpiece (SDE-BS35) |
| Max.speed     | 35,000 rpm           |
| Torque        | 2.4 Ncm              |
| Weight        | 120g                 |
| Dimension(mm) | Ø20 x L123           |

|        |                   |
|--------|-------------------|
| Model  | Charger           |
| Input  | 100-240V, 50/60Hz |
| Output | 12.6Vdc           |

|               |                        |
|---------------|------------------------|
| Model         | Foot pedal (SDE-SFP27) |
| Weight        | 195g                   |
| Dimension(mm) | W68 x D107 x H35       |

# BLDC K38 PRO 35K

- MAX 8hours
- LI-ION battery (rechargeable)
- Digital speed display
- Pause function
- Power save
- Overload protection (warning signal)
- On/Off Foot Switch (SFP-27)



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## WIRELESS & PORTABLE

It offers up to 8 hours of use on a full 3-hour charge. Its lightweight and compact design makes it easy to carry wherever you go



Product video

Optional



### CONTENTS

Control unit / Handpiece / Handpiece stand / Charger / Control unit stand(optional) / Foot pedal(optional) / Handpiece holder(optional)

### SPECIFICATION

|               |                        |
|---------------|------------------------|
| Model         | Control unit (K38 PRO) |
| Input         | 12.6Vdc                |
| Output        | 12Vdc                  |
| Weight        | 253g                   |
| Dimension(mm) | W67 x D128 x H30       |

|               |                      |
|---------------|----------------------|
| Model         | Handpiece (SDE-BS30) |
| Max.speed     | 35,000 rpm           |
| Torque        | 2.4 Ncm              |
| Weight        | 120g                 |
| Dimension(mm) | Ø20 x L123           |

|        |                   |
|--------|-------------------|
| Model  | Charger           |
| Input  | 100-240V, 50/60Hz |
| Output | 12.6Vdc           |

|               |                        |
|---------------|------------------------|
| Model         | Foot pedal (SDE-SFP27) |
| Weight        | 195g                   |
| Dimension(mm) | W68 x D107 x H35       |

# BLDC MINI CRO 30K

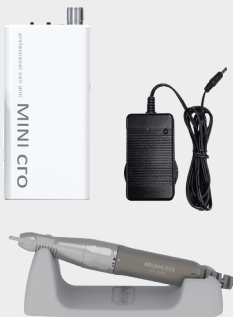


- MAX 8hours
- LI-ION battery (rechargeable)
- Speed display LED [white >> sky blue >> blue >> pink]
- Pause function
- Overload protection
- Forward / Reverse direction switch



## WIRELESS & PORTABLE

It offers up to 8 hours of use on a full 3-hour charge. Its lightweight and compact design makes it easy to carry wherever you go



### CONTENTS

Control unit / Handpiece / Handpiece stand / Charger / Control unit stand(optional) / Handpiece holder(optional)

### SPECIFICATION

|               |                         |
|---------------|-------------------------|
| Model         | Control unit (MINI CRO) |
| Input         | 12.6Vdc                 |
| Output        | 12Vdc                   |
| Weight        | 225g                    |
| Dimension(mm) | W65 x D147 x H25        |

|               |                      |
|---------------|----------------------|
| Model         | Handpiece (SDE-BS30) |
| Max.speed     | 35,000 rpm           |
| Torque        | 2.4 Ncm              |
| Weight        | 120g                 |
| Dimension(mm) | Ø20 x L123           |

|        |                   |
|--------|-------------------|
| Model  | Charger           |
| Input  | 100-240V, 50/60Hz |
| Output | 12.6Vdc           |

# K38 30K



- Standard type / Clip type
- MAX 8hours (MH20)
- LI-ION battery (rechargeable)
- Digital speed display window
- LED display for battery charging level
- Pause function
- Automatic system
  - Power save
  - Overload protection (warning signal)
- Forward / Reverse direction button
- On/Off Foot Switch (SFP-27)



## PAUSE FUNCTION

Press the button shown in the picture above to pause.  
Press the button again will resume operation at the previous speed.

## CONTENTS

Control unit / Handpiece / Handpiece stand / Charger / Control unit stand(optional) / Foot pedal(optional) / Handpiece holder(optional) / Clip(optional)

## SPECIFICATION

|               |                    |
|---------------|--------------------|
| Model         | Control unit (K38) |
| Input         | 12Vdc              |
| Output        | 12Vdc              |
| Weight        | 285g               |
| Dimension(mm) | W67 x D128 x H30   |

|               |                      |
|---------------|----------------------|
| Model         | Handpiece (SDE-MH20) |
| Max.speed     | 30,000 rpm           |
| Torque        | 1.3 Ncm              |
| Weight        | 130g                 |
| Dimension(mm) | Ø20 x L120           |

|        |                   |
|--------|-------------------|
| Model  | Charger           |
| Input  | 100-240V, 50/60Hz |
| Output | 12Vdc / 2.0A      |

|               |                        |
|---------------|------------------------|
| Model         | Foot pedal (SDE-SFP27) |
| Weight        | 195g                   |
| Dimension(mm) | W68 x D107 x H35       |

Optional



# K35 30K



silver

rose gold

yellow

Digital speed display window

Auto-cruise control

- in case of connection variable speed control

Automatic system

- power save
- overload protection, warning LED

Forward / Reverse button

Pause function

Variable speed control pedal (FS-60)

On / Off foot switch (SFP-27)



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## AUTOMATIC SAFETY OVERLOAD PROTECTION SYSTEM

The K35 is equipped with an automatic protection system that activates in the event of an overload, signaled by the illumination of an LED light

Optional



## CONTENTS

Control unit / Handpiece / Foot pedal / Handpiece stand

## SPECIFICATION

|               |  |
|---------------|--|
| Model         | Control unit (K35)                           |
| Input         | AC 100~120V, 50/60Hz<br>AC 220~240V, 50/60Hz |
| Weight        | 1,130g                                       |
| Dimension(mm) | W120 x D120 x H75                            |

|               |                      |
|---------------|----------------------|
| Model         | Handpiece (SDE-H200) |
| Speed         | 0~30,000 rpm         |
| Torque        | 2.9 Ncm              |
| Weight        | 150g                 |
| Dimension(mm) | Ø22 x L129           |

|               |                       |
|---------------|-----------------------|
| Model         | Foot pedal (SDE-FS60) |
| Weight        | 558g                  |
| Dimension(mm) | W170 x D110 x H58     |

|               |                        |
|---------------|------------------------|
| Model         | Foot pedal (SDE-SFP27) |
| Weight        | 195g                   |
| Dimension(mm) | W68 x D107 x H35       |

# K35 mini 30K

- Compact & Light weight
- Digital speed display window
- Overload protection, warning LED
- Pause function
- Forward / Reverse button
- On / Off foot switch (SFP-27)



## LIGHT WEIGHT OF 549.5g

It is a desk-type product with a light weight and slim design, so it can be carried lightly even when moving.



Product video

## AUTOMATIC SAFETY OVERLOAD PROTECTION SYSTEM

The K35 mini is equipped with an automatic protection system that activates in the event of an overload, signaled by the illumination of an LED light

Optional



## CONTENTS

Control unit / Handpiece / Foot pedal / Handpiece stand

## SPECIFICATION

|               |                         |
|---------------|-------------------------|
| Model         | Control unit (K35 MINI) |
| Input         | AC 100-120V, 50/60Hz    |
|               | AC 220-240V, 50/60Hz    |
| Weight        | 549.5g                  |
| Dimension(mm) | W122 x D121 x H52       |

|               |                       |
|---------------|-----------------------|
| Model         | Handpiece (SDE-SH20N) |
| Speed         | 0-30,000 rpm          |
| Torque        | 2.7 Ncm               |
| Weight        | 146g                  |
| Dimension(mm) | Ø26 x L128            |

|               |                        |
|---------------|------------------------|
| Model         | Foot pedal (SDE-SFP27) |
| Weight        | 195g                   |
| Dimension(mm) | W68 x D107 x H35       |

# K35 CUBE 30K



white    pink    hot pink    blue    mint    black

Non-stage speed control volume dialing system

Built-in handpiece cradle and bit stand

Forward / Reverse direction switch

On / Off foot switch (SFP-27)



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Optional



## CONTENTS

Control unit / Handpiece / Foot pedal / Handpiece holder / Handpiece stand

## SPECIFICATION

|               |  |
|---------------|--|
| Model         | Control unit (K35 CUBE)                      |
| Input         | AC 100-120V, 50/60Hz<br>AC 220-240V, 50/60Hz |
| Weight        | 1,300g                                       |
| Dimension(mm) | W120 x D120 x H85                            |

|               |                       |
|---------------|-----------------------|
| Model         | Handpiece (SDE-SH20N) |
| Speed         | 0-30,000 rpm          |
| Torque        | 2.7 Ncm               |
| Weight        | 146g                  |
| Dimension(mm) | Ø26 x L128            |

|               |                        |
|---------------|------------------------|
| Model         | Foot pedal (SDE-SFP27) |
| Weight        | 195g                   |
| Dimension(mm) | W68 x D107 x H35       |

# ESCORT II PRO 30K



white pink red blue mint black

- Powerful performance with low noise & vibration
- Built-in handpiece cradle and bit stand
- Automatic safety overload protection system
- Forward / Reverse direction switch
- Variable speed control pedal (FS-60)
- On / Off foot switch (SFP-27)



Product video



## AUTOMATIC SAFETY OVERLOAD PROTECTION SYSTEM

The ESCORT II PRO automatically activates the protection system in case of overload and the LED light turns on.

Optional



## CONTENTS

Control unit / Handpiece / Foot pedal / Handpiece holder / Handpiece stand

## SPECIFICATION

|               |  |
|---------------|--|
| Model         | Control unit (ESCORT II PRO)                 |
| Input         | AC 100-120V, 50/60Hz<br>AC 220-240V, 50/60Hz |
| Weight        | 1,250g                                       |
| Dimension(mm) | W134x D154 x H82.4                           |

|               |                       |
|---------------|-----------------------|
| Model         | Handpiece (SDE-SH20N) |
| Speed         | 0-30,000 rpm          |
| Torque        | 2.7 Ncm               |
| Weight        | 146g                  |
| Dimension(mm) | Ø26 x L128            |

|               |                       |
|---------------|-----------------------|
| Model         | Foot pedal (SDE-FS60) |
| Weight        | 558g                  |
| Dimension(mm) | W170 x D110 x H58     |

|               |                        |
|---------------|------------------------|
| Model         | Foot pedal (SDE-SFP27) |
| Weight        | 195g                   |
| Dimension(mm) | W68 x D107 x H35       |

# ESCORT III 30K

- Powerful performance with low noise & vibration
- Built-in handpiece cradle and bit stand
- Lightening push power button
- Non-stage speed control volume dialing system
- Forward / Reverse direction switch
- On / Off foot switch (SFP-27)



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Product video



## LIGHTENING PUSH POWER BUTTON

The push-type Lightning power button is placed on the front, so you can easily turn on/off the power of the control unit.

Optional



## CONTENTS

Control unit / Handpiece / Foot pedal / Handpiece holder / Handpiece stand

## SPECIFICATION

|               |  |
|---------------|--|
| Model         | Control unit (ESCORT III)                    |
| Input         | AC 100~120V, 50/60Hz<br>AC 220~240V, 50/60Hz |
| Weight        | 1,184g                                       |
| Dimension(mm) | W115 x D147 x H71                            |

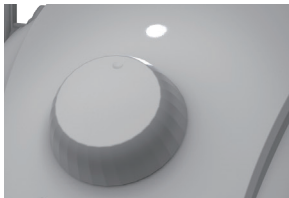
|               |                       |
|---------------|-----------------------|
| Model         | Handpiece (SDE-SH30N) |
| Speed         | 0~30,000 rpm          |
| Torque        | 2.9 Ncm               |
| Weight        | 165g                  |
| Dimension(mm) | Ø22 x L129            |

|               |                        |
|---------------|------------------------|
| Model         | Foot pedal (SDE-SFP27) |
| Weight        | 195g                   |
| Dimension(mm) | W68 x D107 x H35       |

# NEW MARATHON-3 CHAMPION 30K



- Sleek & minimal design
- Compact size
- Hidden power LED
- Built-in handpiece cradle and bit stand
- Forward / Reverse direction switch
- On / Off foot switch (SFP-27)



## HIDDEN LED DISPLAY

The champion boasts an innovative Hidden LED design that subtly lights up when the device is powered on or off, allowing users to easily recognize the power status. When the device is off, the LED remains completely concealed, preserving a sleek and minimalist look.

Optional



## CONTENTS

Control unit / Handpiece / Foot pedal / Handpiece holder / Handpiece stand

## SPECIFICATION

|               |  |
|---------------|--|
| Model         | Control unit (NEW CHAMPION)                  |
| Input         | AC 100~120V, 50/60Hz<br>AC 220~240V, 50/60Hz |
| Weight        | 1,148.5g                                     |
| Dimension(mm) | W116 x D159 x H84                            |

|               |                       |
|---------------|-----------------------|
| Model         | Handpiece (SDE-SH20N) |
| Speed         | 0~30,000 rpm          |
| Torque        | 2.7 Ncm               |
| Weight        | 146g                  |
| Dimension(mm) | Ø26 x L128            |

|               |                        |
|---------------|------------------------|
| Model         | Foot pedal (SDE-SFP27) |
| Weight        | 195g                   |
| Dimension(mm) | W68 x D107 x H35       |

# MARATHON-3 CHAMPION 30K



white black pink blue mint

- Compact size
- Built-in handpiece cradle and bit stand
- Forward / Reverse direction switch
- On / Off foot switch (SFP-27)



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## BUILT-IN HANDPIECE CRADLE

A separate handpiece holder is included, allowing the handpiece to be securely stored, which optimizes space utilization.

Optional



## CONTENTS

Control unit / Handpiece / Foot pedal / Handpiece holder / Handpiece stand

## SPECIFICATION

|               |  |
|---------------|--|
| Model         | Control unit (CHAMPION)                      |
| Input         | AC 100~120V, 50/60Hz<br>AC 220~240V, 50/60Hz |
| Weight        | 1,250g                                       |
| Dimension(mm) | W118 x D156 x H78                            |

|               |                       |
|---------------|-----------------------|
| Model         | Handpiece (SDE-SH20N) |
| Speed         | 0~30,000 rpm          |
| Torque        | 2.7 Ncm               |
| Weight        | 146g                  |
| Dimension(mm) | Ø26 x L128            |

|        |                        |
|--------|------------------------|
| Model  | Foot pedal (SDE-SFP27) |
| Weight | 195g                   |

# MARATHON-3 MIGHTY 30K

Compact size

Built-in handpiece cradle and bit stand

Forward / Reverse direction switch

On / Off foot switch (SFP-27)



## BUILT-IN HANDPIECE CRADLE

A separate handpiece holder is included, allowing the handpiece to be securely stored, which optimizes space utilization.

Optional



## CONTENTS

Control unit / Handpiece / Foot pedal / Handpiece holder / Handpiece stand

## SPECIFICATION

|               |  |
|---------------|--|
| Model         | Control unit (MIGHTY)                        |
| Input         | AC 100~120V, 50/60Hz<br>AC 220~240V, 50/60Hz |
| Weight        | 1,260g                                       |
| Dimension(mm) | W118 x D156 x H78                            |

|               |                       |
|---------------|-----------------------|
| Model         | Handpiece (SDE-SH20N) |
| Speed         | 0~30,000 rpm          |
| Torque        | 2.7 Ncm               |
| Weight        | 146g                  |
| Dimension(mm) | Ø26 x L128            |

|        |                        |
|--------|------------------------|
| Model  | Foot pedal (SDE-SFP27) |
| Weight | 195g                   |

# COMBI 24 25K



white black silver red

- Compact size
- Built-in handpiece cradle
- Forward / Reverse direction switch
- On / Off foot switch (SFP-27)



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## BUILT-IN HANDPIECE CRADLE

The design that the handpiece can be placed on the controller increases the efficiency of the work space.

Optional



## CONTENTS

Control unit / Handpiece / Foot pedal / Handpiece holder / Handpiece stand

## SPECIFICATION

|               |  |
|---------------|--|
| Model         | Control unit (COMBI24)                       |
| Input         | AC 100~120V, 50/60Hz<br>AC 220~240V, 50/60Hz |
| Weight        | 882g   |
| Dimension(mm) | W117 x D154 x H72                            |

|               |                       |
|---------------|-----------------------|
| Model         | Handpiece (SDE-SH250) |
| Speed         | 0~25,000 rpm          |
| Torque        | 2.9 Ncm               |
| Weight        | 165g                  |
| Dimension(mm) | Ø22 x L129            |

|        |                        |
|--------|------------------------|
| Model  | Foot pedal (SDE-SFP27) |
| Weight | 195g                   |

**SPARE PARTS**



## PODIATRY DRILL

| MODEL                  | PART NAME                   | PICTURE                 |
|------------------------|-----------------------------|-------------------------|
| CYCLONE-VAC            | CONTROL UNIT<br>CYCLONE-VAC |                         |
|                        | HANDPIECE<br>BHM-40P        |                         |
|                        | DUST BAG                    |                         |
|                        | POWER CABLE                 |                         |
|                        | COLLET CLEANING TOOL        |                         |
|                        | BUR DISASSEMBLE TOOL        |                         |
| KI-20                  | CONTROL UNIT<br>KI-20       |                         |
|                        | MICRO MOTOR<br>KI-MTO       |                         |
|                        | HANDPIECE<br>ES100N         |                         |
|                        | FOOT CONTROL<br>KI-F20      |                         |
|                        | FOOT HANGER                 |                         |
|                        | POWER CORD                  |                         |
|                        | IRRIGATION TUBE             |                         |
|                        | MOTOR PLUG                  |                         |
|                        | HANDPIECE STAND             |                         |
|                        | COOLANT HANGER              |                         |
|                        | K48 PRO                     | CONTROL UNIT<br>K48 PRO |
| HANDPIECE<br>SDE-BS35E |                             |                         |
| HANDPIECE HOLDER       |                             |                         |
| CHARGER                |                             |                         |
| HANDPIECE STAND        |                             |                         |

## NAIL DUST COLLECTOR

| MODEL  | PART NAME              | PICTURE |
|--------|------------------------|---------|
| LEVENT | CONTROL UNIT<br>LEVENT |         |
|        | POWER ADAPTOR          |         |
|        | POWER CABLE            |         |
|        | DISPOSABLE FILTER      |         |
|        | HEPA FILTER            |         |

## NAIL & PEDI DRILL

| MODEL     | PART NAME                          | PICTURE  |  |
|-----------|------------------------------------|--|--|
| HANDPIECE | BALL BEARING<br>1260               |  |  |
|           | BALL BEARING<br>1060               |  |  |
|           | BALL BEARING<br>830                |  |  |
|           | BALL BEARING<br>1480               |  |  |
|           | BALL BEARING<br>1040               |  |  |
|           | BALL BEARING<br>1030               |  |  |
|           | CARBON BRUSH ASS'Y                 |  |  |
|           | CHUCK JOINT WRENCH<br>CHUCK WRENCH |  |  |
|           | MOTOR CORD                         |  |  |
|           | COLLET CHUCK                       |  |  |
|           | NAIL PUSHER                        |  |  |
|           | DUST CAP                           |  |  |
|           | NAIL BIT CASE                      |  |  |
|           | COLLET SLEEVE                      | <p>                     Ø1.6 <math>\pm</math> 0.01 <math>\frac{1}{2}</math> Ø2.35<br/>                     Ø0.4 <math>\pm</math> 0.01 <math>\frac{1}{2}</math> Ø3.0<br/>                     Ø0.6 <math>\pm</math> 0.01 <math>\frac{1}{2}</math> Ø3.0<br/>                     Ø0.7 <math>\pm</math> 0.01 <math>\frac{1}{2}</math> Ø3.0<br/>                     Ø0.8 <math>\pm</math> 0.01 <math>\frac{1}{2}</math> Ø3.0<br/>                     Ø0.9 <math>\pm</math> 0.01 <math>\frac{1}{2}</math> Ø3.0<br/>                     Ø1.0 <math>\pm</math> 0.01 <math>\frac{1}{2}</math> Ø3.0<br/>                     Ø1.2 <math>\pm</math> 0.01 <math>\frac{1}{2}</math> Ø3.0<br/>                     Ø1.5 <math>\pm</math> 0.01 <math>\frac{1}{2}</math> Ø3.0<br/>                     Ø1.6 <math>\pm</math> 0.01 <math>\frac{1}{2}</math> Ø3.0<br/>                     Ø2.0 <math>\pm</math> 0.01 <math>\frac{1}{2}</math> Ø3.0<br/>                     Ø2.35 <math>\pm</math> 0.01 <math>\frac{1}{2}</math> Ø3.0<br/>                     Ø1.6 <math>\pm</math> 0.01 <math>\frac{1}{2}</math> Ø3.175<br/>                     Ø2.35 <math>\pm</math> 0.01 <math>\frac{1}{2}</math> Ø3.175                 </p> |  |
|           | OTHER                              | PORTABLE BAG   |  |
|           |                                    | WAIST BELT   |  |




## NAIL & PEDI DRILL

| MODEL       | PART NAME                | PICTURE |
|-------------|--------------------------|---------|
| MARATHON-N7 | CONTROL UNIT MARATHON-N7 |         |
|             | HANDPIECE SDE-SH37L      |         |
|             | HANDPIECE HOLDER         |         |
|             | HANDPIECE STAND          |         |
| MARATHON-N2 | CONTROL UNIT MARATHON-N2 |         |
|             | HANDPIECE SDE-H35SP1     |         |
|             | HANDPIECE HOLDER         |         |
|             | HANDPIECE STAND          |         |
| K48 PRO     | CONTROL UNIT K48 PRO     |         |
|             | HANDPIECE SDE-BS35       |         |
|             | HANDPIECE HOLDER         |         |
|             | CHARGER                  |         |
|             | HANDPIECE STAND          |         |
| K38 PRO     | CONTROL UNIT K38 PRO     |         |
|             | HANDPIECE SDE-BS30       |         |
|             | HANDPIECE HOLDER         |         |
|             | CHARGER                  |         |
|             | HANDPIECE STAND          |         |
| MINICRO     | CONTROL UNIT MINICRO     |         |
|             | HANDPIECE SDE-BS30       |         |
|             | CHARGER                  |         |
|             | HANDPIECE STAND          |         |
| K48 MAX     | CONTROL UNIT K48 MAX     |         |
|             | HANDPIECE SDE-BS30       |         |
|             | CHARGER                  |         |
|             | HANDPIECE STAND          |         |

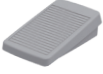



## NAIL & PEDI DRILL

| MODEL                  | PART NAME                           | PICTURE |
|------------------------|-------------------------------------|---------|
| K38                    | CONTROL UNIT K38                    |         |
|                        | HANDPIECE SDE-MH20                  |         |
|                        | HANDPIECE HOLDER                    |         |
|                        | CHARGER                             |         |
|                        | HANDPIECE STAND                     |         |
| K35                    | CONTROL UNIT K35                    |         |
|                        | HANDPIECE SDE-H200                  |         |
|                        | HANDPIECE STAND                     |         |
| K35 MINI               | CONTROL UNIT K35 MINI               |         |
|                        | HANDPIECE SDE-SH20N                 |         |
|                        | HANDPIECE STAND                     |         |
| K35 CUBE               | CONTROL UNIT K35 CUBE               |         |
|                        | HANDPIECE SDE-SH20N                 |         |
|                        | HANDPIECE HOLDER                    |         |
|                        | HANDPIECE STAND                     |         |
| ESCORT II PRO          | CONTROL UNIT ESCORT II PRO          |         |
|                        | HANDPIECE SDE-SH20N                 |         |
|                        | HANDPIECE HOLDER                    |         |
|                        | HANDPIECE STAND                     |         |
| ESCORT III             | CONTROL UNIT ESCORT III             |         |
|                        | HANDPIECE SDE-SH30N                 |         |
|                        | HANDPIECE HOLDER                    |         |
|                        | HANDPIECE STAND                     |         |
| NEW MARATHON3 CHAMPION | CONTROL UNIT NEW MARATHON3 CHAMPION |         |
|                        | HANDPIECE SDE-SH20N                 |         |
|                        | HANDPIECE HOLDER                    |         |
|                        | HANDPIECE STAND                     |         |

## NAIL & PEDI DRILL

| MODEL                 | PART NAME                          | PICTURE   |
|-----------------------|------------------------------------|---|
| MARATHON3<br>CHAMPION | CONTROL UNIT<br>MARATHON3 CHAMPION |  |
|                       | HANDPIECE<br>SDE-SH20N             |  |
|                       | HANDPIECE HOLDER                   |  |
|                       | HANDPIECE STAND                    |  |
| MARATHON3<br>MIGHTY   | CONTROL UNIT<br>MARATHON3 MIGHTY   |  |
|                       | HANDPIECE<br>SDE-SH20N             |  |
|                       | HANDPIECE HOLDER                   |  |
|                       | HANDPIECE STAND                    |  |
| COMBI24               | CONTROL UNIT<br>COMBI24            |  |
|                       | HANDPIECE<br>SDE-SH250             |  |
|                       | HANDPIECE HOLDER                   |  |

## OPTIONAL

| MODEL   | PART NAME                                      | PICTURE   |
|---|--|---|
| FOOT PEDAL                                      | ON / OFF FOOT SWITCH<br>SFP-27                 |   |
|   | VARIABLE SPEED<br>FOOT PEDAL<br>FS-60 / FS-60N |  |
| K48 PRO<br>K38 PRO<br>MINICRO<br>K48 MAX<br>K38 | CONTROL UNIT STAND                             |  |
| K38   | CLIP   |  |

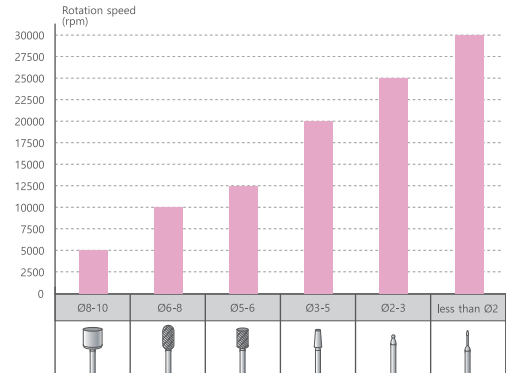
# USER GUIDE (For safety & efficiency)

## Precaution

1. Do not operate a micromotor with a bent, asymmetrical or damaged bur. Must operate it with a standard bur.
2. Do not start the motor at a high rotation speed. Start from the low speed and change it slowly to the desired speed.
3. For your safety, do not exceed the rotation speed according to the type of bur.
4. Do not try to open/close the chuck handle during operation.
5. Clean the motor after use.

## Allowable rotation speed

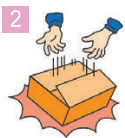
Do not exceed the allowable rotation speed according to the type of bur for your safety. Allowable rotation speed according to the type of bur may be slightly different from the chart depends on the material of bur.



※ This chart for allowable rotation speed can be slight different depending on bur materials or types



Check the product if everything is set before use.



Do not drop the product. Dropping the motor may damage ball bearing or weaken durability of the motor



Check the product if there is any flaw, crack, or faulty adhesion before use.



In order to take the bur out of the handpiece, release the chuck handle (shift to the left side, R to open the collect chuck. Make sure to close the collect chuck(shift to the right side, S) before use )



Do not exceed the maximum speed.



Wear a safety goggles/shield and mask to protect your face from cutting and grinding works



Check if the product is overheated when you use it at the maximum speed for long. When it gets overheated, you must stop the product and cool it down before use.



If the product works abnormally, stop the product immediately and contact your dealer for repair.



For safety, make sure to read and understand the operation manual carefully before use.



Do not customize the product.



Avoid exposing the product to high temperature and humidity. Daily inspection & maintenance are required.



Make sure to turn off the product after use. Leaving the product turned on is very dangerous and may cause overheating.

