

saeyang

CRAFIEN

PROFESSIONAL NAIL DRILL



products catalogue

20 / 21

since 1976

Welcome to SAEYANG

Thank you for your interest and support for our products.

We, Saeyang Microtech, has continued to grow since its foundation in 1976 specialized in manufacturing micro-handpieces for laboratory and dental field with enjoying a good reputation from overseas more than 100 countries as well as Korea.

The most important thing is superior quality of our products and through this, we always do our best for customer satisfaction as our top priority. Also we focus on developing new products by advanced technical innovation in R&D center and launching at least more than two models in the market with ongoing investments for new facilities each year.

We exhibit at overseas famous exhibitions more than 18 times in the United States, Germany, France, Spain, UK, Italy, H.K and China. During those exhibitions, we have a good opportunity to establish mutual trust and confidence with our buyers over 100 countries.

Saeyang will always do our best to listen to any needs and requirements of the customer.

Thank you for your continued support.

President & CEO

Jung Pil Shin



SAEYANG History

- 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
- 2001 Awarded Leading Enterprise
- 2002 Certified CE Mark of New item "Escort"
- 2003 Registered manufacturing Brushless motor
- 2003 Certified CE Mark of "Marathon Multi 600" Brushless motor
- 2004 Established R&D center
- 2004 Certified CE Mark of New item "Marathon N7&N2"
- 2005 Certified CE Mark of New item "Marathon HANDY700 Series" Brush/Brushless motor
- 2005 Awarded official best Exporting Firm
- 2006 Moved into a new factory
- 2006 Certified PSE from TUV
- 2006 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)
- 2010 Certified CE Mark of New item "Endo e class"
- 2011 Development of Endo a class
- 2012 Dental contra angle
- 2013 Developed Implant Motor
- 2013 Certified FDA (Endo Motor)
- 2014 60,000RPM Handpiece Developed
- 2014 20:1 Optic Handpiede Developed
- 2015 Certified FDA CFDA(Implant Motor)
- 2015 Awarded Grand Prize for 2015 Best Company in Daegu City
- 2016 Awarded for Exporting US\$ 20 million
Awarded for Daegu Star Company
- 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



Portable type

| | | |
|----------|---|----|
| K38 | — | p6 |
| MINI cro | — | p7 |
| Combi | — | p8 |

K38

FEATURE

- Standard type / Clip type
- MAX 8hours (MH20)
- LI-ION battery (rechargeable)
- Digital speed display window
- LED display for battery charging level
- Automatic System
 - power save
 - forward / reverse direction button
 - overload protection (warning signal)
- On / Off foot Switch (SFP-27)



SPECIFICATION



controller

| Model | Power supply | Battery | Electric power | Speed | Weight | Dimensions |
|-------|--------------|----------------|----------------|-----------------|--------|----------------------|
| K38 | DC 12V | Li-ion,2850mAh | 24W | MAX. 30,000 rpm | 277 g | W67 x D128 x H30(mm) |

handpiece

| Model | Motor type | Input | Speed | Max. Torque | Weight | Dimensions |
|-----------|------------|-------|----------------|-------------|--------|-----------------|
| SDE-MH20 | Coreless | 12V | 0 - 30,000 rpm | 1.3 Ncm | 130 g | L120 x Ø20 (mm) |
| SDE-H200 | DC | 12V | 0 - 30,000 rpm | 2.9 Ncm | 145 g | L129 x Ø22 (mm) |
| SDE-SH300 | DC | 12V | 0 - 30,000 rpm | 2.9 Ncm | 145 g | L129 x Ø22 (mm) |



CONTENTS

| | | | | | | |
|--|-----------|---------|---------------------|-------------------------|--------------------|----------------------|
| Controller standard type clip type | Handpiece | Charger | Handpiece holder | On / Off foot switch | Handpiece stand | Cradle (optional) |
|--|-----------|---------|---------------------|-------------------------|--------------------|----------------------|

MINI cro

FEATURE

- Clip type
- LI-ION battery (rechargeable)
- Speed display LED
 - white >> sky blue >> blue >> pink
- Overload protection
- Forward / Reverse direction switch
- Battery remaining indicator



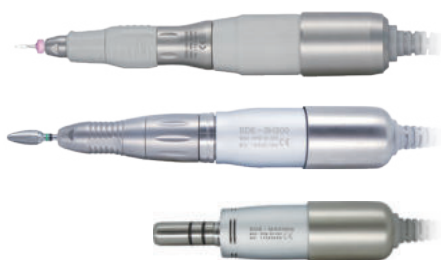
SPECIFICATION



controller

| Model | Power supply | Battery | Electric power | Speed | Weight | Dimensions |
|----------|--------------|-----------------|----------------|-----------------|--------|----------------------|
| MINI cro | DC 12V | Li-ion, 2850mAh | 24W | MAX. 30,000 rpm | 225 g | W65 x D147 x H25(mm) |

handpiece



| Model | Motor type | Input | Speed | Max. Torque | Weight | Dimensions |
|------------|------------|-------|----------------|-------------|--------|-----------------|
| SDE-SH300S | DC | 12V | 0 - 30,000 rpm | 1.6 Ncm | 130 g | L135 x Ø23 (mm) |
| SDE-SH300 | DC | 12V | 0 - 30,000 rpm | 2.9 Ncm | 145 g | L129 x Ø22 (mm) |
| SDE-M300Es | DC E-TYPE | 12V | 0 - 30,000 rpm | 2.4 Ncm | 90 g | L97 x Ø23 (mm) |

CONTENTS

| | | | | | | |
|------------|-----------|---------|------------------|----------------------|-----------------|-------------------|
| Controller | Handpiece | Charger | Handpiece holder | On / Off foot switch | Handpiece stand | Cradle (optional) |
|------------|-----------|---------|------------------|----------------------|-----------------|-------------------|

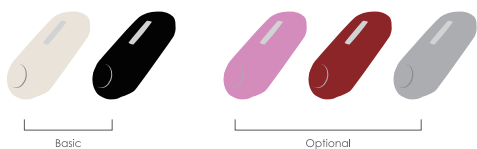
Combi

FEATURE

- MAX 4hours
- Rechargeable battery
- Power-on & speed control knob at one dial
- Forward / Reverse direction switch
- On / Off foot switch (SFP-27)
- Portable carry-on bag
- Shoulder bag



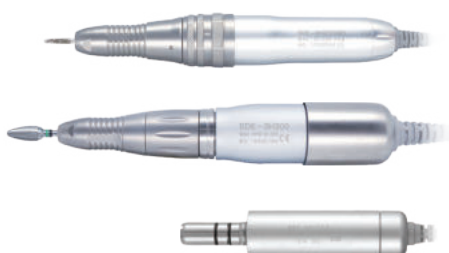
SPECIFICATION



controller

| Model | Power supply | Battery | Electric power | Speed | Weight | Dimensions |
|-------|--------------|---------------|----------------|-----------------|--------|----------------------|
| COMBI | DC 12V | Ni-MH, 800mAh | 24W | MAX. 20,000 rpm | 268 g | W73 x D170 x H24(mm) |

handpiece



| Model | Motor type | Input | Speed | Max. Torque | Weight | Dimensions |
|----------------|------------|-------|----------------|-------------|--------|-----------------|
| SDE-MH20 (20k) | Coreless | 12V | 0 - 20,000 rpm | 1.3 Ncm | 130 g | L120 x Ø20 (mm) |
| SDE-SH300 | DC | 12V | 0 - 30,000 rpm | 2.9 Ncm | 145 g | L129 x Ø22 (mm) |
| SDE-MH20E | DC E-TYPE | 12V | 0 - 20,000 rpm | 2.2 Ncm | 80 g | L96 x Ø20 (mm) |

CONTENTS

| | | | | | |
|------------|-----------|---------|----------------------|-----------------|-------------------|
| Controller | Handpiece | Charger | On / Off foot switch | Handpiece stand | Cradle (optional) |
|------------|-----------|---------|----------------------|-----------------|-------------------|

memo







Desk type

| | | |
|---------------|---|-----|
| K-35 | — | p12 |
| K-35 cube | — | p13 |
| Escort II pro | — | p14 |
| Escort III | — | p15 |
| M3-Champion | — | p16 |
| M3-Mighty | — | p17 |
| NEW N2 | — | p18 |
| NEW N7 | — | p19 |
| Combi 24 | — | p20 |

K-35

FEATURE

Digital speed display window

Auto - cruise control

- in case of connection variable speed control

Automatic system

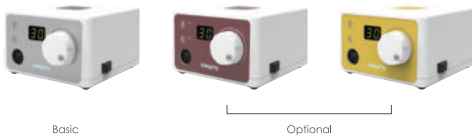
- power save
- forward / reverse button
- overload protection, warning LED

Variable speed control pedal (FS-60)

On / Off foot switch (SFP-27)



SPECIFICATION



controller

| Model | Power supply | Electric power | Speed | Weight | Dimensions |
|-------|---------------------------------|----------------|-----------------|--------|----------------------|
| K35 | AC100-120V or 220-240V, 50/60Hz | 24W | MAX. 30,000 rpm | 268 g | W73 x D170 x H24(mm) |

handpiece

| Model | Motor type | Input | Speed | Max. Torque | Weight | Dimensions |
|-----------|------------|-------|----------------|-------------|--------|-----------------|
| SDE-H20 | DC | 30V | 0 - 30,000 rpm | 2.9 Ncm | 155 g | L151 x Ø26 (mm) |
| SDE-H200 | DC | 30V | 0 - 30,000 rpm | 2.9 Ncm | 145 g | L129 x Ø22 (mm) |
| SDE-SH300 | DC | 30V | 0 - 30,000 rpm | 2.9 Ncm | 145 g | L29 x Ø22 (mm) |

CONTENTS

| | | | | |
|------------|-----------|-----------------|----------------------|------------------------------|
| Controller | Handpiece | Handpiece stand | On / Off foot switch | Variable speed control pedal |
|------------|-----------|-----------------|----------------------|------------------------------|

K-35 cube

FEATURE

Non - stage speed control

- volume dialing system

Built-in handpiece cradle and bit stand

Forward / Reverse direction switch

On / Off foot switch (SFP-27)



SPECIFICATION



controller

| Model | Power supply | Electric power | Speed | Weight | Dimensions |
|----------|---------------------------------|----------------|-----------------|--------|-----------------------|
| K35 cube | AC100-120V or 220-240V, 50/60Hz | 45W | MAX. 30,000 rpm | 1.3 kg | W120 x D120 x H85(mm) |

handpiece



| Model | Motor type | Input | Speed | Max. Torque | Weight | Dimensions |
|-----------|------------|-------|----------------|-------------|--------|-----------------|
| SDE-SH20N | DC | 30V | 0 - 30,000 rpm | 2.7 Ncm | 160 g | L146 x Ø26 (mm) |
| SDE-H200 | DC | 30V | 0 - 30,000 rpm | 2.9 Ncm | 145 g | L129 x Ø22 (mm) |
| SDE-SH30N | DC | 30V | 0 - 30,000 rpm | 2.9 Ncm | 145 g | L129 x Ø22 (mm) |

CONTENTS

| | | | | |
|------------|-----------|-----------------|------------------|----------------------|
| Controller | Handpiece | Handpiece stand | Handpiece holder | On / Off foot switch |
|------------|-----------|-----------------|------------------|----------------------|

Escort II pro

FEATURE

- 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-60N)
- On / Off foot switch (SFP-27)



SPECIFICATION



controller

| Model | Power supply | Electric power | Speed | Weight | Dimensions |
|---------------|---------------------------------|----------------|-----------------|---------|-------------------------|
| Escort II pro | AC100-120V or 220-240V, 50/60Hz | 45W | MAX. 30,000 rpm | 1.25 kg | W134 x D154 x H82.4(mm) |

handpiece



| Model | Motor type | Input | Speed | Max. Torque | Weight | Dimensions |
|-----------|------------|-------|----------------|-------------|--------|-----------------|
| SDE-SH20N | DC | 30V | 0 - 30,000 rpm | 2.7 Ncm | 160 g | L146 x Ø26 (mm) |
| SDE-H200 | DC | 30V | 0 - 30,000 rpm | 2.9 Ncm | 145 g | L129 x Ø22 (mm) |
| SDE-SH30N | DC | 30V | 0 - 30,000 rpm | 2.9 Ncm | 145 g | L129 x Ø22 (mm) |

CONTENTS

| | | | | |
|------------|-----------|-----------------|------------------|----------------------|
| Controller | Handpiece | Handpiece stand | Handpiece holder | On / Off foot switch |
|------------|-----------|-----------------|------------------|----------------------|

Escort III

**NEW
VERSION**

FEATURE

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



SPECIFICATION



controller

| Model | Power supply | Electric power | Speed | Weight | Dimensions |
|------------|---------------------------------|----------------|-----------------|---------|------------------------|
| ESCORT III | AC100-120V or 220-240V, 50/60Hz | 40W | MAX. 30,000 rpm | 1.18 kg | W115 x D147 x H71 (mm) |

handpiece



| Model | Motor type | Input | Speed | Max. Torque | Weight | Dimensions |
|-----------|------------|-------|----------------|-------------|--------|-----------------|
| SDE-SH20N | DC | 30V | 0 - 30,000 rpm | 2.7 Ncm | 160 g | L146 x Ø26 (mm) |
| SDE-H200 | DC | 30V | 0 - 30,000 rpm | 2.9 Ncm | 145 g | L129 x Ø22 (mm) |
| SDE-SH30N | DC | 30V | 0 - 30,000 rpm | 2.9 Ncm | 145 g | L129 x Ø22 (mm) |

CONTENTS

| | | | | |
|------------|-----------|-----------------|------------------|----------------------|
| Controller | Handpiece | Handpiece stand | Handpiece holder | On / Off foot switch |
|------------|-----------|-----------------|------------------|----------------------|

M3-Champion

FEATURE

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



SPECIFICATION



controller

| Model | Power supply | Electric power | Speed | Weight | Dimensions |
|-------------|---------------------------------|----------------|-----------------|---------|-----------------------|
| M3-CHAMPION | AC100-120V or 220-240V, 50/60Hz | 45W | MAX. 30,000 rpm | 1.23 kg | W118 x D158 x H78(mm) |

handpiece



| Model | Motor type | Input | Speed | Max. Torque | Weight | Dimensions |
|-----------|------------|-------|----------------|-------------|--------|-----------------|
| SDE-SH20N | DC | 30V | 0 - 30,000 rpm | 2.7 Ncm | 160 g | L146 x Ø26 (mm) |
| SDE-H200 | DC | 30V | 0 - 30,000 rpm | 2.9 Ncm | 145 g | L129 x Ø22 (mm) |
| SDE-SH30N | DC | 30V | 0 - 30,000 rpm | 2.9 Ncm | 145 g | L129 x Ø22 (mm) |

CONTENTS

| | | | | |
|------------|-----------|-----------------|------------------|----------------------|
| Controller | Handpiece | Handpiece stand | Handpiece holder | On / Off foot switch |
|------------|-----------|-----------------|------------------|----------------------|

M3-Mighty

FEATURE

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



SPECIFICATION



controller

| Model | Power supply | Electric power | Speed | Weight | Dimensions |
|-------------|---------------------------------|----------------|-----------------|--------|-----------------------|
| M3 - MIGHTY | AC100-120V or 220-240V, 50/60Hz | 45W | MAX. 30,000 rpm | 1.2 kg | W115 x D147 x H96(mm) |

handpiece



| Model | Motor type | Input | Speed | Max. Torque | Weight | Dimensions |
|-----------|------------|-------|----------------|-------------|--------|-----------------|
| SDE-SH20N | DC | 30V | 0 - 30,000 rpm | 2.7 Ncm | 160 g | L146 x Ø26 (mm) |
| SDE-H200 | DC | 30V | 0 - 30,000 rpm | 2.9 Ncm | 145 g | L129 x Ø22 (mm) |
| SDE-SH30N | DC | 30V | 0 - 30,000 rpm | 2.9 Ncm | 145 g | L129 x Ø22 (mm) |

CONTENTS

| | | | | |
|------------|-----------|-----------------|------------------|----------------------|
| Controller | Handpiece | Handpiece stand | Handpiece holder | On / Off foot switch |
|------------|-----------|-----------------|------------------|----------------------|

NEW N2

FEATURE

- 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)



SPECIFICATION



controller

| Model | Power supply | Electric power | Speed | Weight | Dimensions |
|--------|---------------------------------|----------------|-----------------|--------|-----------------------|
| NEW N2 | AC100-120V or 220-240V, 50/60Hz | 40W | MAX. 35,000 rpm | 1.2 kg | W115 x D147 x H96(mm) |

handpiece



| Model | Motor type | Input | Speed | Max. Torque | Weight | Dimensions |
|------------|------------|-------|----------------|-------------|--------|-----------------|
| SDE-H35SP1 | DC | 30V | 0 - 35,000 rpm | 3.2 Ncm | 210 g | L152 x Ø27 (mm) |
| SDE-H200 | DC | 30V | 0 - 30,000 rpm | 2.9 Ncm | 145 g | L129 x Ø22 (mm) |
| SDE-SH30N | DC | 30V | 0 - 30,000 rpm | 2.9 Ncm | 145 g | L129 x Ø22 (mm) |

CONTENTS

| | | | | | |
|------------|-----------|-----------------|----------------------|------------------|------------------------------|
| Controller | Handpiece | Handpiece stand | On / Off foot switch | Handpiece holder | Variable speed control pedal |
|------------|-----------|-----------------|----------------------|------------------|------------------------------|

NEW N7

FEATURE

- 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)



SPECIFICATION



controller

| Model | Power supply | Electric power | Speed | Weight | Dimensions |
|--------|---------------------------------|----------------|-----------------|--------|-----------------------|
| NEW N7 | AC100-120V or 220-240V, 50/60Hz | 50W | MAX. 40,000 rpm | 1.7 kg | W115 x D147 x H96(mm) |

handpiece



| Model | Motor type | Input | Speed | Max. Torque | Weight | Dimensions |
|-----------------|------------|-------|----------------|-------------|--------|-----------------|
| SDE-SH37N (M45) | DC | 30V | 0 - 40,000 rpm | 4.5 Ncm | 205 g | L154 x Ø26 (mm) |
| SDE-H200 | DC | 30V | 0 - 30,000 rpm | 2.9 Ncm | 145 g | L129 x Ø22 (mm) |
| SDE-SH30N | DC | 30V | 0 - 30,000 rpm | 2.9 Ncm | 145 g | L129 x Ø22 (mm) |

CONTENTS

| | | | | | |
|------------|-----------|-----------------|----------------------|------------------|------------------------------|
| Controller | Handpiece | Handpiece stand | On / Off foot switch | Handpiece holder | Variable speed control pedal |
|------------|-----------|-----------------|----------------------|------------------|------------------------------|

Combi24

FEATURE

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



SPECIFICATION



controller

| Model | Power supply | Electric power | Speed | Weight | Dimensions |
|---------|---------------------------------|----------------|-----------------|--------|-----------------------|
| COMBI24 | AC100-120V or 220-240V, 50/60Hz | 24W | MAX. 25,000 rpm | 882g | W117 x D154 x H72(mm) |

handpiece

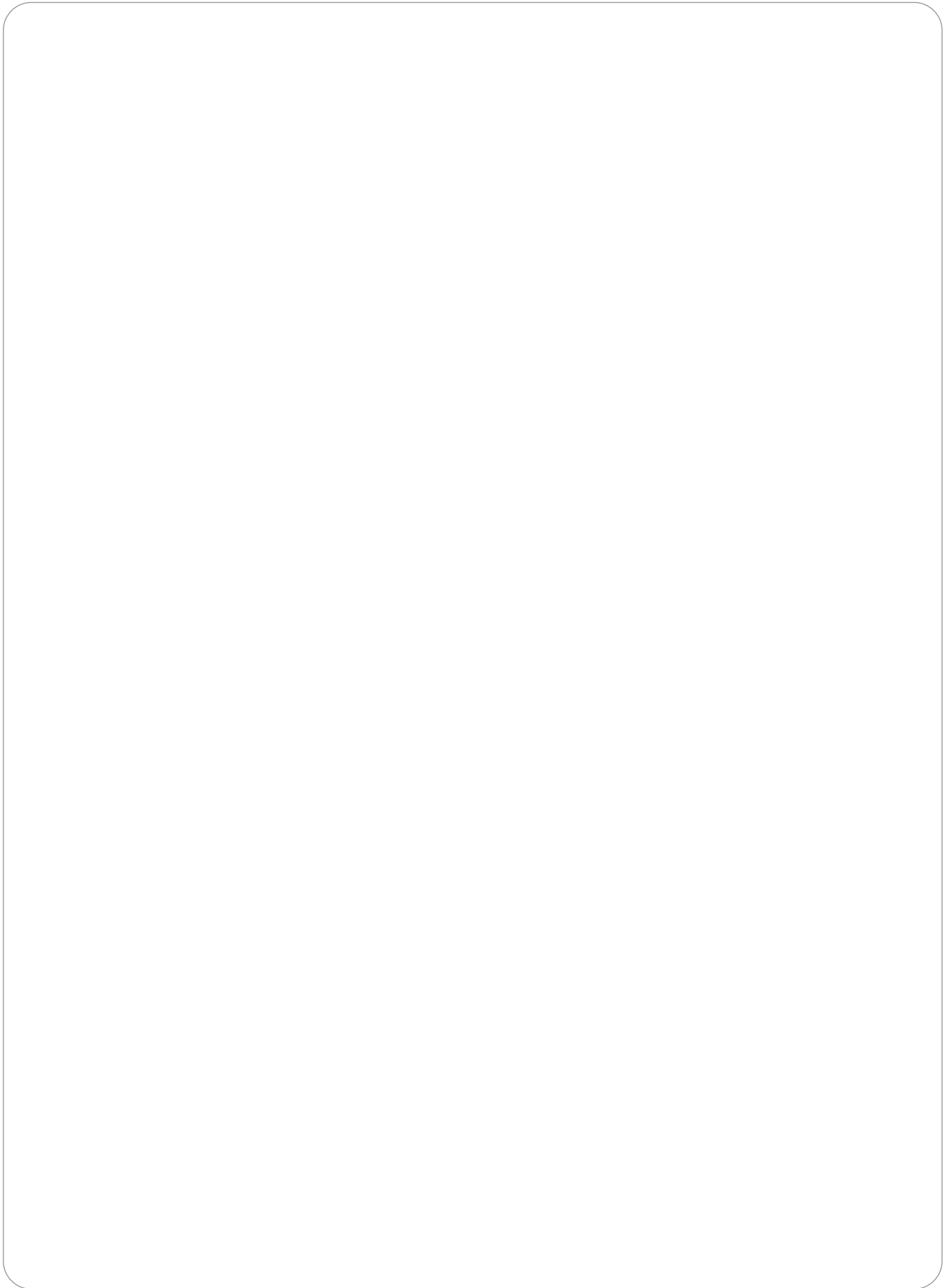


| Model | Motor type | Input | Speed | Max. Torque | Weight | Dimensions |
|-----------|------------|-------|----------------|-------------|--------|-----------------|
| SDE-SH250 | DC | 24V | 0 - 25,000 rpm | 2.9 Ncm | 145 g | L129 x Ø22 (mm) |
| SDE-MH24 | Coreless | 24V | 0 - 25,000 rpm | 2.3 Ncm | 130 g | L120 x Ø20 (mm) |
| SDE-MH24E | DC | 24V | 0 - 20,000 rpm | 2.2 Ncm | 80 g | L96 x Ø20 (mm) |

CONTENTS

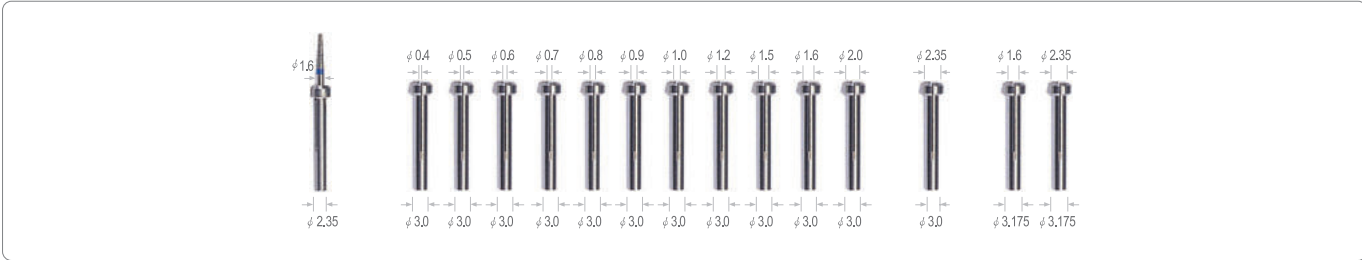
| | | | |
|------------|-----------|-----------------|----------------------|
| Controller | Handpiece | Handpiece stand | On / Off foot switch |
|------------|-----------|-----------------|----------------------|







memo









SPARE PARTS







Collet sleeve



| | | | | | |
|---|---|---|---|---|---|
| Collet chuck | Spindle chuck | Spindle assy | Armature | Carbon brush | Ball Bearing |
|  |  |  |  |  |  |

| | | | | |
|---|---|---|--|---|
| Chuck Joint Wrench | Chuck Wrench | Charger cord | SFP-27 / SFP-22 | FS60/FS60N |
|  |  |  For K38 / MINI cro |  For Combi |  On / off foot switch  Variable speed foot pedal |

| | | | | | |
|---|--|---|---|---|---|
| Handpiece holder | | | Handpiece stand | Motor cord | |
|  DC Control box |  K35 |  K38 / MINI cro |  |  |  |

| | | | | | |
|---|---|---|---|---|---|
| Cradle | Portable bag | Shoulder bag | Dust cap | Nail pusher | Nail bit case |
|  |  |  |  |  |  |

USER GUIDE (For safety & efficiency)

Precaution

- ▶ Install the unit at the working place and do not use it in a dirty or very hot and humid place. (-20°C ~ 40°C, 0 ~ 90% RH)
- ▶ Please be careful not to drop the handpiece. It will damage ball bearing or weaken durability of motor.
- ▶ Please do not allow water or other liquids to spill onto and into the handpiece and control box.
- ▶ After replacing a bur, please make sure to close the chuck handle.

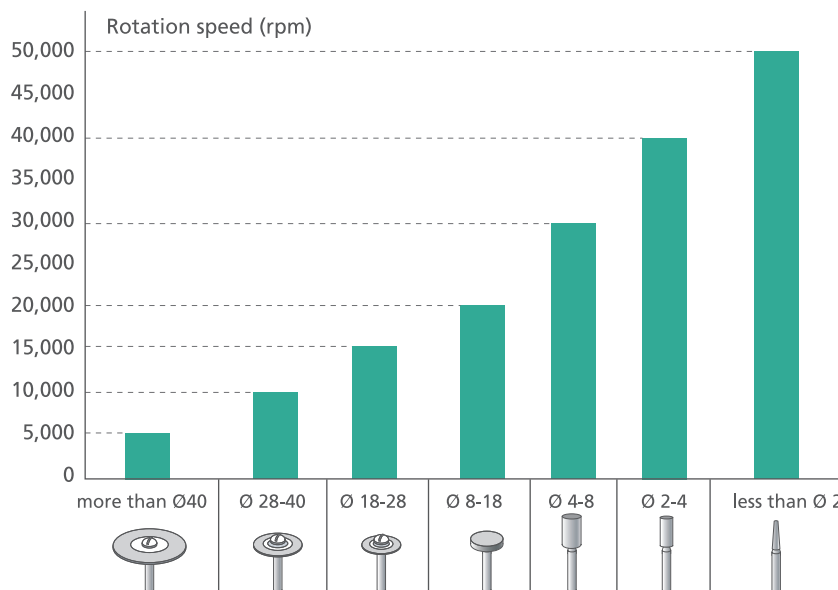
Also, do not to open the chuck handle, while the handpiece is operating.

- ▶ While the handpiece is not in operation, it is recommended to keep the bur into the collet chuck after cleaning up.
- ▶ Please plug the power cord after checking the unit power is off. This unit is made for dental laboratory work, nail care and other drilling work.
- ▶ It's only used for by specialists who is trained of electric micro-motor.

Allowable rotation speed

- ▶ This chart is a general guide for a maximum speed with conventional burs.

The allowable rotation speed can be slightly different, depending on bur materials or types.



※ Notice

1. Make sure not to extend the maximum speed specified by a manufacturer or distributor.
2. Large burs, even being operated below maximum speed, will vibrate.
Speed should be reduced immediately to prevent damage to a bur, a handpiece or operator.
3. Be sure to insert the bur shank all the way, until it touches the back of the collet chuck, then tighten a collect chuck.
If the bur is used not inserted completely, it is very dangerous.

saeyang

www.saeyang.com

SAEYANG MICROTECH CO., LTD.

(Galsan-dong) 348, seongseo-ro, Dalseo-gu, Daegu, 42697, Korea

TEL +82-53-582-9001

E-mail crafien@saeyang.com



mobile app



세계일류상품

JAN, 2020

VER. CR-2020-CA01