

24/25

CRAFIEN

WELCOME TO SAEYANG

Thank you for your interest and support for our products.

We, Saeyang, 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



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
2019 Awarded for Daegu Star Company
 Development of Escort II pro (Ver2)
2020 Good Design Selection 2020
 Awarded for Daegu Star Company
 Development of Escort III (Ver2)
2021 Awarded for Daegu Star Company
 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
 Certified CE Mark of New item "K38 pro"
 Certified CE Mark of New item "CYCLONE-VAC"
 Certified FDA of New item "Pro M Class"

PRODUCT LINE UP

www.yamahabiz.com

PEDICURE

NEW N2

NEW N7

CYCLONE-VAC

MANICURE

MICROMOTOR

CONTROL UNIT

SPARE PARTS

PEDICURE



CYCLONE-VAC 40K

All-Round Suction

Powerful BLDC handpiece

Max. 40,000 RPM

Efficient design for handpiece mounting

Filter replacement display

On-off push knob

Handpiece on-off switch



EASY REPLACEMENT OF DUST FILTER

You can know when to replace the dust filter icon on the LCD, and remove the filter by separating the handpiece from the control unit and replace it with a new filter.

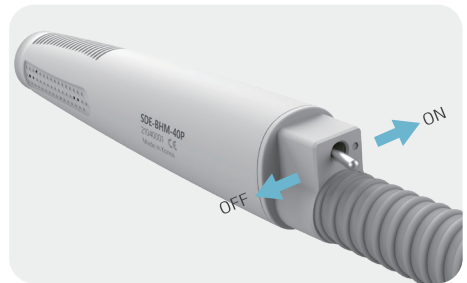


HANDPIECE ON-OFF SWITCH

If the switch at the back of the handpiece is turned off during the operation of the handpiece and suction, the handpiece and suction are temporarily stopped and the rotation speed icon on the LCD blinks.

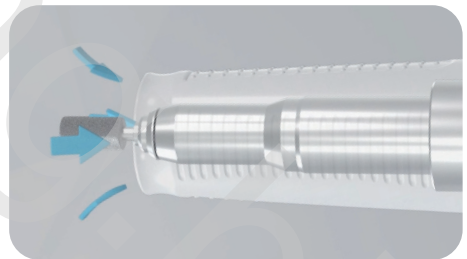
ON-OFF PUSH KNOB

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



ALL-ROUND SUCTION

CYCLONE-VAC can set the suction power in 5 steps, and the dust generated during work can be minimized by suctioning all rounds of the handpiece.



Optional



CONTENTS

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

SPECIFICATION

Model	Control unit (CYCLONE-VAC)
Input	AC 230V, 50Hz
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

NEW 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 has a cover to prevent dust from entering the inside of the controller.

Optional



CONTENTS

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

SPECIFICATION

Model	Control unit (NEW N7)
Input	AC 100-120V, 50/60Hz AC 220-240V, 50/60Hz
Weight	1,700g
Dimension(mm)	W115 x D147 x H96

Model	Handpiece (SDE-SH37L)
Speed	0-40,000 rpm
Torque	4.5 Ncm
Weight	210g
Dimension(mm)	Ø30 x L154

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

NEW N2 35K

Automatic safety overload protection system

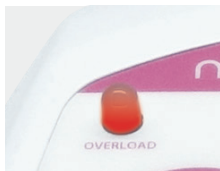
Dust - proof cover for switch

Built - in handpiece cradle & bit stand

Forward / Reverse direction switch

On / Off foot switch (SFP-27)

Variable speed control pedal (FS-60)



AUTOMATIC SAFETY OVERLOAD PROTECTION SYSTEM

The NEW N2 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 (NEW 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

MANICURE



Saeyang Nail Drill

DC HANDPIECE

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

30V

12V

30K



SDE-SH300S

SPEED	0-30,000 rpm
MAX.TORQUE	2.9Ncm
WEIGHT	135 g
DIMENSIONS	L135 x Ø23

30V

30K



SDE-SH30N

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

DC HANDPIECE



30V **30K**

SDE-SH20N

SPEED	0-30,000 rpm
MAX.TORQUE	2.7Ncm
WEIGHT	146 g
DIMENSIONS	L128 x Ø26



24V **25K**

SDE-SH250

SPEED	0-25,000 rpm
MAX.TORQUE	2.9Ncm
WEIGHT	165 g
DIMENSIONS	L129 x Ø22



24V **20K**

SDE-MH24

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



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-SH300

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



12V 30K

SDE-MH20(30K)

SPEED	0-30,000 rpm
MAX.TORQUE	1.3Ncm
WEIGHT	130 g
DIMENSIONS	L120 x Ø20



12V 20K

SDE-MH20(20K)

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



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

K48 PRO 35K



- Standard type / Clip type
- 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.
Pressing the knob again will resume operation at the previous speed.

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.Vdc
Output	12Vdc
Weight	290g
Dimension(mm)	W74 x D138 x H30

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

Model	Handpiece (SDE-BS35)
Max.speed	35,000 rpm
Torque	2.4 Ncm
Weight	120g
Dimension(mm)	Ø19.8 x L126

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

K38 PRO 35K



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



WIRELESS & PORTABLE

It can be used for up to 8 hours with a full charge for 3 hours, and its light and compact size allows you to take it with you wherever you go.

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

Model	Handpiece (SDE-BS30)
Max.speed	35,000 rpm
Torque	2.4 Ncm
Weight	120g
Dimension(mm)	Ø19.8 x L126

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

K38 30K



white



pink



hot pink



blue



mint



black

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.



Optional



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

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)



AUTOMATIC SAFETY OVERLOAD PROTECTION SYSTEM

The K35 automatically activates the protection system in case of overload and the LED light turns on.

Optional



CONTENTS

Control unit / Handpiece / Foot pedal / Handpiece stand

SPECIFICATION

Model	Control unit (K35)
Input	AC 100~120V, 50/60Hz 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.

AUTOMATIC SAFETY OVERLOAD PROTECTION SYSTEM

The K35 MINI automatically activates the protection system in case of overload and the the forward and reverse direction light is blinking

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)



Optional



CONTENTS

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

SPECIFICATION

Model	Control unit (K35 CUBE)
Input	AC 100-120V, 50/60Hz 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-60N)
- On / Off foot switch (SFP-27)



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 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-FS60N)
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)



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 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

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)



BUILT-IN HANDPIECE CRADLE

There is a separate handpiece holder where the handpiece can be inserted, which is advantageous for space utilization.

Optional



CONTENTS

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

SPECIFICATION

Model	Control unit (CHAMPION)
Input	AC 100~120V, 50/60Hz 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

There is a separate handpiece holder where the handpiece can be inserted, which is advantageous for space utilization.

Optional



CONTENTS

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

SPECIFICATION

Model	Control unit (MIGHTY)
Input	AC 100~120V, 50/60Hz
	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)



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 (MIGHTY)
Input	AC 100~120V, 50/60Hz AC 220~240V, 50/60Hz
Weight	1,260g
Dimension(mm)	W118 x D156 x H78

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


















PEDICURE

MODEL	PART NAME	PICTURE
CYCLONE-VAC	CONTROL UNIT CYCLONE-VAC	
	HANDPIECE & HOSE	
	DUST BAG	
	POWER CABLE	
	COLLET CLEANING TOOL	
NEW N7	CONTROL UNIT NEW N7	
	HANDPIECE SDE-SH37L	
	HANDPIECE HOLDER	
	HANDPIECE STAND	
NEW N2	CONTROL UNIT NEW N2	
	HANDPIECE SDE-H35SP1	
	HANDPIECE HOLDER	
	HANDPIECE STAND	





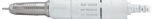


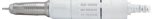




MANICURE

MODEL	PART NAME	PICTURE	
HANDPIECE	BALL BEARING 1260		
	BALL BEARING 1060		
	BALL BEARING 830		
	BALL BEARING 1480		
	BALL BEARING 1040		
	BALL BEARING 1030		
	CARBON BRUSH ASS'Y		
	CHUCK JOINT WRENCH CHUCK WRENCH		
	MOTOR CORD		
	COLLET CHUCK		
	NAIL PUSHER		
	DUST CAP		
	NAIL BIT CASE		
	OTHER	PORTABLE BAG	
		WAIST BELT	
















MANICURE

MODEL	PART NAME	PICTURE
K48 PRO	CONTROL UNIT K48 PRO	
	HANDPIECE SDE-BS35	
	CHARGER	
	HANDPIECE STAND	
K38 PRO	CONTROL UNIT K38 PRO	
	HANDPIECE SDE-BS30	
	CHARGER	
	HANDPIECE STAND	
K38	CONTROL UNIT K38	
	HANDPIECE SDE-MH20	
	CHARGER	
	HANDPIECE STAND	
MINICRO	MINICRO	
	HANDPIECE SDE-SH300	
	CHARGER	
	HANDPIECE STAND	

MANICURE

MODEL	PART NAME	PICTURE
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	
ESCORT II PRO	CONTROL UNIT ESCORT II PRO	
	HANDPIECE SDE-SH20N	
	HANDPIECE STAND	

MANICURE

MODEL	PART NAME	PICTURE
ESCORT III	CONTROL UNIT ESCORT III	
	HANDPIECE SDE-SH30N	
	HANDPIECE HOLDER	
	HANDPIECE STAND	
MARATHON3 CHAMPION	CONTROL UNIT MARATHON3 CHAMPION	
	HANDPIECE SDE-SH20N	
	HANDPIECE HOLDER	
	HANDPIECE STAND	
MARATHON3 MIGHTY	CONTROL UNIT MARATHON3 MIGHTY	
	HANDPIECE SDE-SH20N	
	HANDPIECE HOLDER	
	HANDPIECE STAND	
COMBI24	CONTROL UNIT COMBI24	
	HANDPIECE SDE-SH250	
	HANDPIECE STAND	

OPTIONAL

MODEL	PART NAME	PICTURE
FOOT PEDAL	ON / OFF FOOT SWITCH SFP-27	
	VARIABLE SPEED FOOT PEDAL FS-60 / FS-60N	
K48 PRO K38 PRO K38 MINI CRO	CONTROL UNIT STAND	
	HANDPIECE HOLDER	
	CLIP	

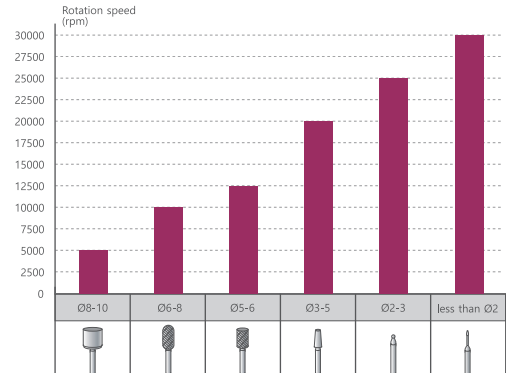
USER GUIDE (For safety & efficiency)

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

1



Check the product if everything is set before use.

2



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

3



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

4



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)

5



Do not exceed the maximum speed.

6



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

7



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.

8



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

9



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

10



Do not customize the product.

11



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

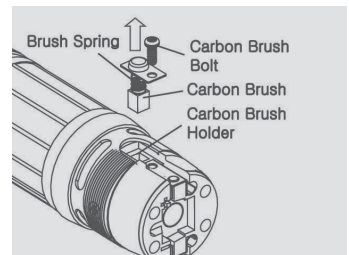
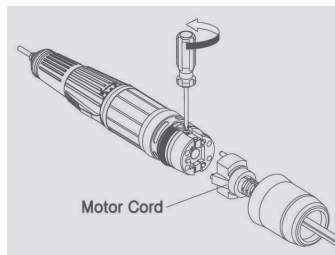
12



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

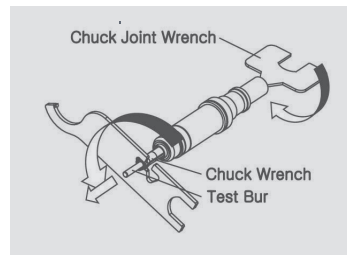
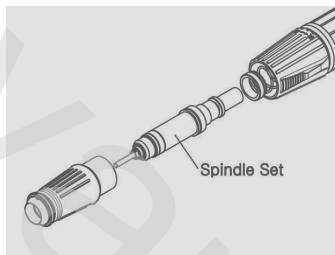
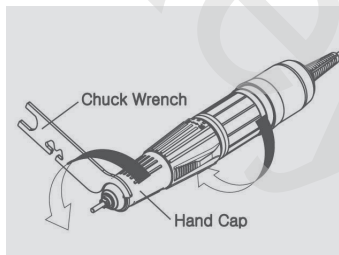
Replacing Carbon Brushes

1. Turn off the power of the Control Unit and remove the Carbon Housing Cover and the Motor Cord from the rear of the handpiece.
2. Take off Carbon Brush Bolts using a screwdriver(+) and remove worn-out Carbon Brushes.
3. While replacing by new ones, the Brush Spring needs to get jammed in the Carbon Brush Holder.
4. Assemble the handpiece.
5. Run the handpiece at 20,000rpm for 30minutes under no load condition before use.



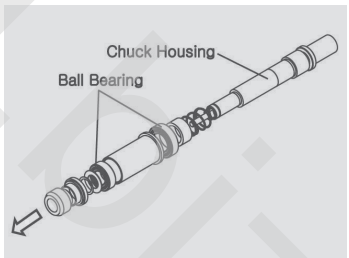
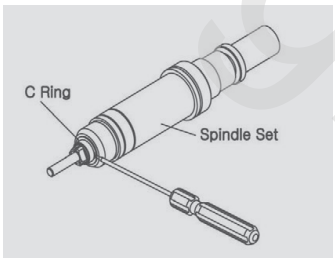
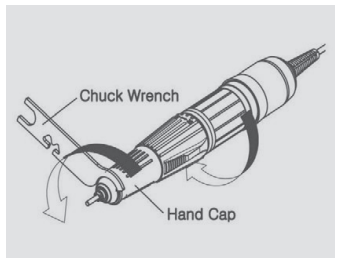
Replacing the Collect Chuck

1. Turn the Hand Cap counterclockwise using the Chuck Wrench until the Hand Cap and the Spindle Set get disassembled.
 2. Keep turning it counterclockwise until the collect chuck gets disassembled.
 3. After replacing a new Collect Chuck, assemble the handpiece.
 4. Run the handpiece under no load condition to check if it works properly before use.
- ※ Collect chuck is supposed to be replaced every 2-3 years, depends on working hours or loading conditions



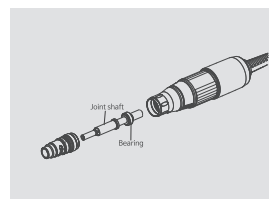
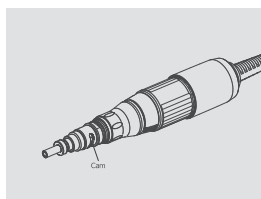
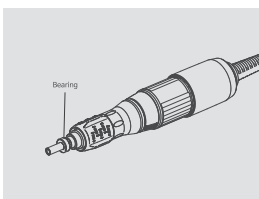
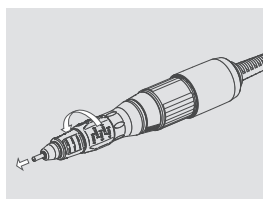
Replacing Ball Bearings

1. Disassemble the Hand Cap and the Spindle Set.
2. Remove the C Ring from the front of the Chuck Housing to disassemble Ball bearings and other parts.
3. Assemble other parts, replace it with new Ball Bearings, and install the C Ring.
4. Connect the Hand Cap and the Spindle Set.
5. Run the handpiece under no load condition to check if it works properly before use.



Replacing Ball Bearings(SH300S)

1. After removing a bur, please open a handle of the handpiece. After that start to disassemble.
2. Disassembling nose-cone and bearing housing by wrench. After that pulling the bearing out.
3. Disassembling a handle and cam and related parts. After that pulling a joint shaft out.
4. Disassembling connector and related parts of joint shaft. After that pulling the bearing out.
5. Replacing bearing by inverse order of disassembly. It will require to apply removable glue on nose cone, bearing housing.
6. Run the handpiece under no load state and confirm proper replacement, and then use.



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