

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)
 Certified CE Mark of New item "Endo e class"
2010
2011 Development of Endo a class
2012 Dental contra angle
2013 Developed Implant Motor
 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

yanagibiz

DENTAL HANDPIECE

STRAIGHT HANDPIECE

CONTRA ANGLE

POLISHING HANDPIECE

SURGICAL HANDPIECE

IMPLANT HANDPIECE

ORTHODONTICS

PRO M CLASS

ORAL SURGERY & IMPLANTOLOGY

Ki-20

ENDODONTICS

Endo A Class

Endo A Class (LED)

Endo E Class

ELECTRIC MICROMOTOR

KE-40I

KE-40E

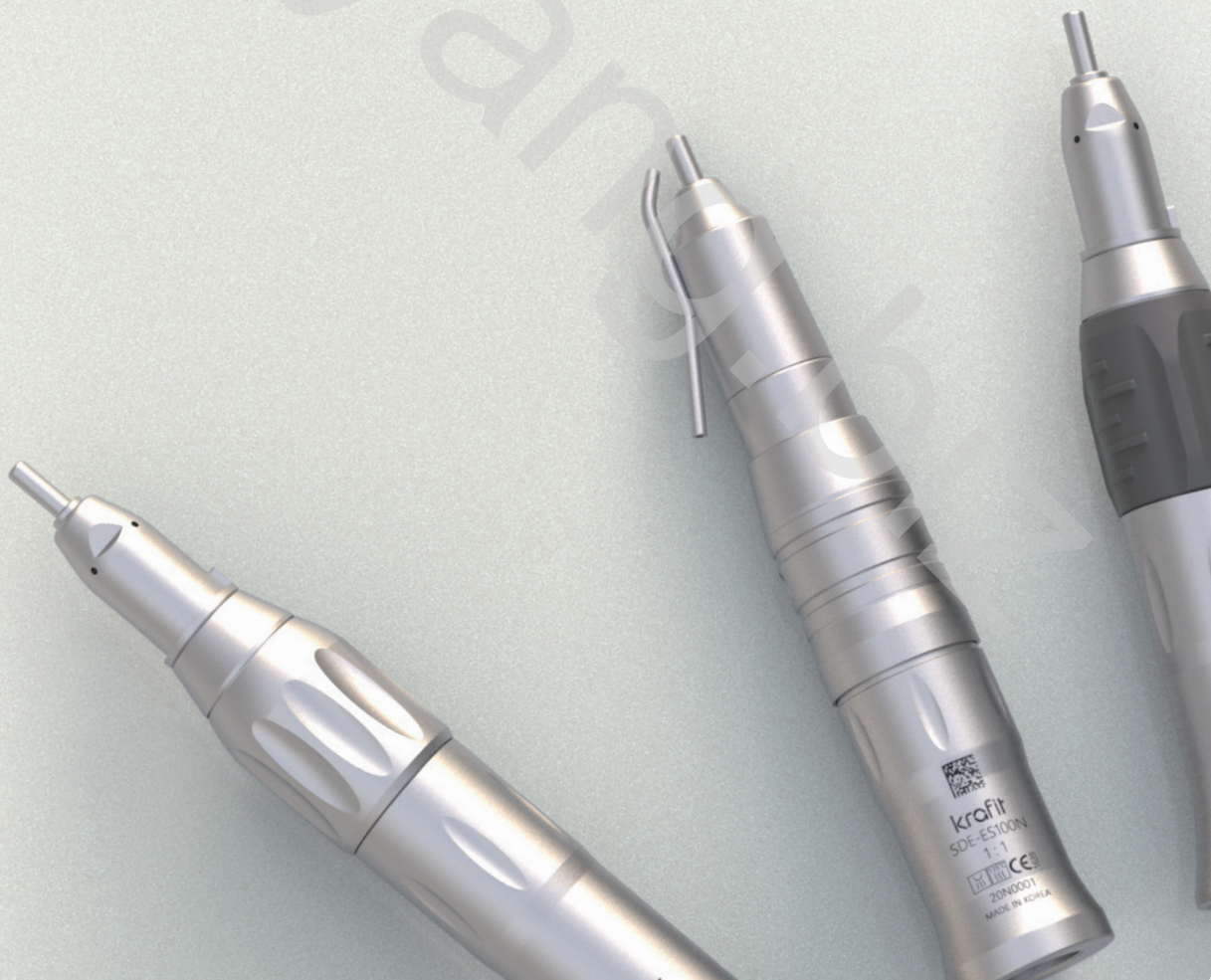
OTHERS

K48 PRO

MARATHON-37

SPARE PARTS

DENTAL HANDPIECE



CONTRA & STRAIGHT HANDPIECE



SDE-ES6

| | |
|-------------------|-----------------|
| SPEED | MAX. 40,000 rpm |
| GEAR RATIO | 1 : 1 |
| WEIGHT | 71 g |
| DIMENSIONS | L85 x Ø20 |



SDE-ES04

| | |
|-------------------|-----------------|
| SPEED | MAX. 10,000 rpm |
| GEAR RATIO | 4 : 1 |
| WEIGHT | 86 g |
| DIMENSIONS | L100 x Ø20 |



EXTERNAL WATER SPRAY

SDE-ES100N

| | |
|-------------------|-----------------|
| SPEED | MAX. 40,000 rpm |
| GEAR RATIO | 1 : 1 |
| WEIGHT | 75 g |
| DIMENSIONS | L88 x Ø17.5 |



PUSH TYPE

SP-CE

| | |
|-------------------|-----------------|
| SPEED | MAX. 40,000 rpm |
| GEAR RATIO | 1 : 1 |
| WEIGHT | 58 g |
| DIMENSIONS | L81 x Ø20 |

CONTRA & STRAIGHT HANDPIECE



SP-RE04

| | |
|-------------------|-----------------|
| SPEED | MAX. 10,000 rpm |
| GEAR RATIO | 4 : 1 |
| WEIGHT | 67 g |
| DIMENSIONS | L91 x Ø19,55 |



VERTICAL
RECIPROCATING

SO-RE04

| | |
|-------------------|-----------------|
| SPEED | MAX. 10,000 rpm |
| GEAR RATIO | 4 : 1 |
| WEIGHT | 68 g |
| DIMENSIONS | L93,7 x Ø19,55 |



FG BUR (Ø1.6)

FP-CE

| | |
|-------------------|-----------------|
| SPEED | MAX. 40,000 rpm |
| GEAR RATIO | 1 : 1 |
| WEIGHT | 59.7 g |
| DIMENSIONS | L81,4 x Ø19,6 |

POLISHING HANDPIECE



SDE-EP6

| | |
|-------------------|-----------------|
| SPEED | MAX. 20,000 rpm |
| GEAR RATIO | 1 : 1 |
| WEIGHT | 70 g |
| DIMENSIONS | L88 x Ø20 |



SDE-EP04

| | |
|-------------------|----------------|
| SPEED | MAX. 5,000 rpm |
| GEAR RATIO | 4 : 1 |
| WEIGHT | 80 g |
| DIMENSIONS | L95.5 x Ø20 |

COMPATIBLE E-TYPE MOTOR



12V

SDE-BE35

| | |
|--------------|-----------------|
| SPEED | MAX. 35,000 rpm |
|--------------|-----------------|

SURGICAL HANDPIECE



OSCILLATING

EXTERNAL
WATER SPRAY

SGS-0

| | |
|------------|-------------------------|
| STROKES | MAX. 12,800 strokes/min |
| GEAR RATIO | 3 : 1 |
| WEIGHT | 89.5 g |
| DIMENSIONS | L107 x Ø20 |



SAGITTAL

EXTERNAL
WATER SPRAY

SGS-S

| | |
|------------|-------------------------|
| STROKES | MAX. 12,600 strokes/min |
| GEAR RATIO | 3 : 1 |
| WEIGHT | 92 g |
| DIMENSIONS | L109 x Ø20 |



RECIPROCATING

EXTERNAL
WATER SPRAY

SGS-R

| | |
|------------|-------------------------|
| STROKES | MAX. 12,600 strokes/min |
| GEAR RATIO | 3 : 1 |
| WEIGHT | 94.5 g |
| DIMENSIONS | L110 x Ø20 |



EXTERNAL
WATER SPRAY

SGC-S101

| | |
|------------|-----------------|
| SPEED | MAX. 40,000 rpm |
| GEAR RATIO | 1 : 1 |
| WEIGHT | 74 g |
| DIMENSIONS | L110 x Ø20 |

IMPLANT HANDPIECE



OPTIC

**RIGHT-HANDED
LEFT-HANDED**

**INTERNAL
WATER SPRAY**

**EXTERNAL
WATER SPRAY**

Ki-AG20L

| | |
|-------------------|----------------|
| SPEED | MAX. 2,000 rpm |
| GEAR RATIO | 20 : 1 |
| TORQUE | MAX. 70Ncm |
| WEIGHT | 85 g |
| DIMENSIONS | L98 x Ø20 |



NON-OPTIC

**RIGHT-HANDED
LEFT-HANDED**

**INTERNAL
WATER SPRAY**

**EXTERNAL
WATER SPRAY**

Ki-AG20

| | |
|-------------------|----------------|
| SPEED | MAX. 2,000 rpm |
| GEAR RATIO | 20 : 1 |
| TORQUE | MAX. 70Ncm |
| WEIGHT | 95 g |
| DIMENSIONS | L95 x Ø20 |



NON-OPTIC

**DETACHABLE
TYPE**

**EXTERNAL
WATER SPRAY**

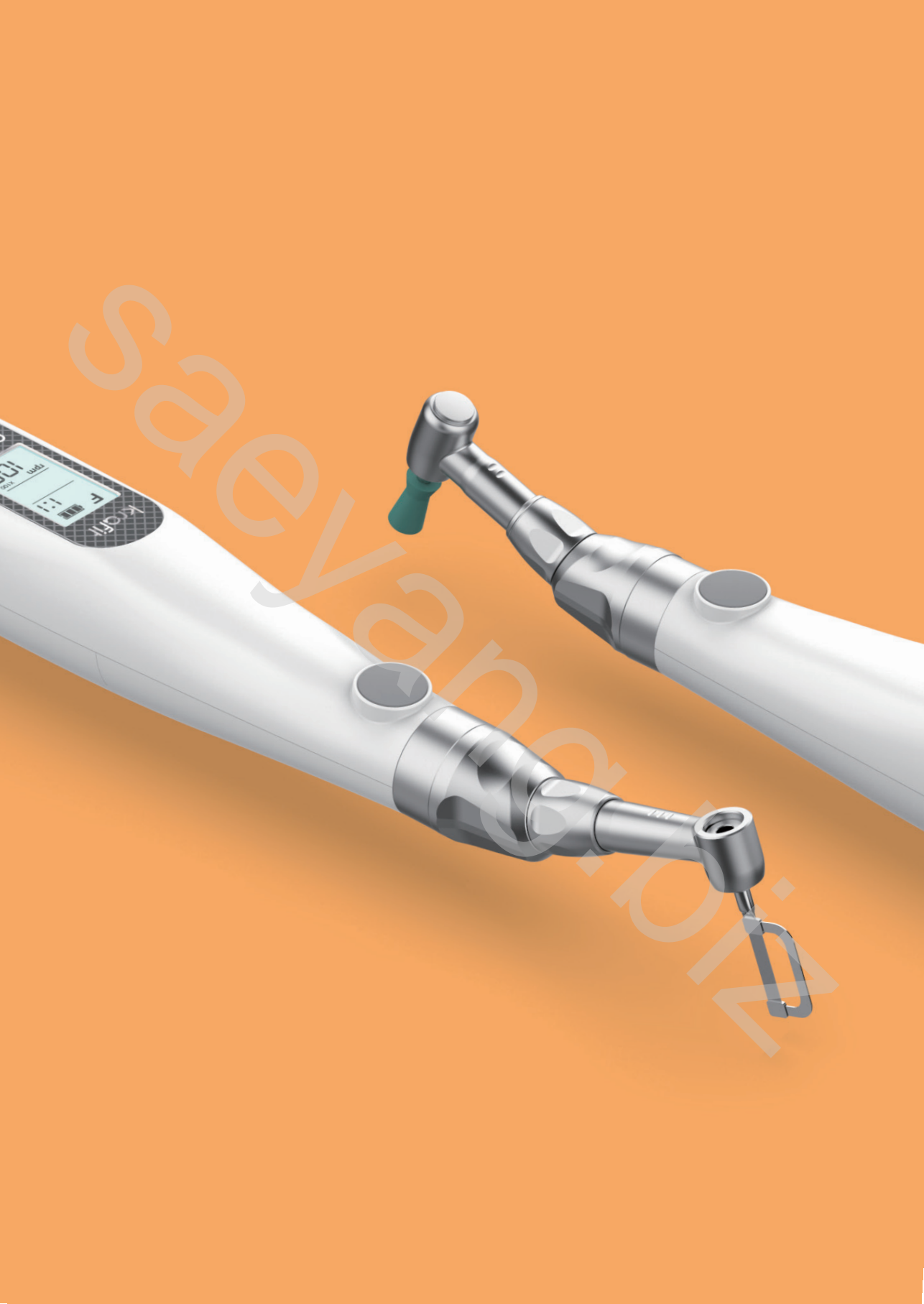
Ki-AG20S

| | |
|-------------------|----------------|
| SPEED | MAX. 2,000 rpm |
| GEAR RATIO | 20 : 1 |
| TORQUE | MAX. 70Ncm |
| WEIGHT | 80.4 g |
| DIMENSIONS | L96 x Ø19,8 |

NOTE

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ORTHODONTICS



PRO M CLASS *All in one System*

LI-ION battery (rechargeable)
Wireless & wired charging (C type)
5 gear ratio (1:1, 4:1, 16:1, 160:1, 320:1)
Charging time for 90 min

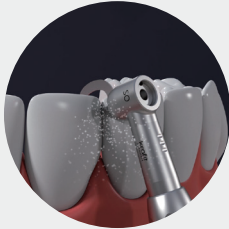


MULTIPLE TREATMENTS POSSIBLE WITH ONE MOTOR

It can be used in various procedures by changing the angle and gear ratio.



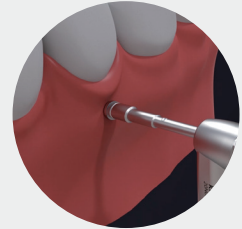
SO-0T6



Stripping



TD-160



Mini implant

ORTHODONTIC



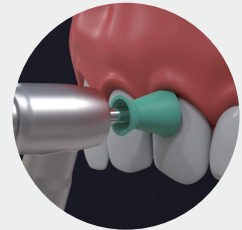
SC-R04
Screw type



SPC-R04
Push type



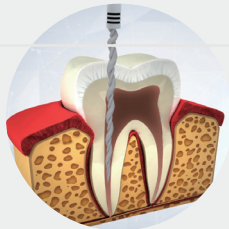
PR-04



POLISHING



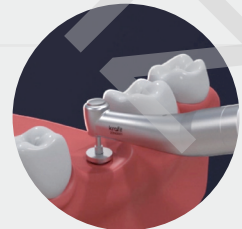
SP-RA16M



ENDODONTICS



TD-320

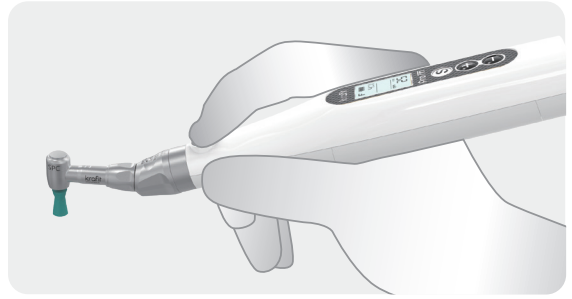


IMPLANT TORQUE DRIVER



WIRELESS

PRO M CLASS is a wireless type, and it is free to move during the procedure, reducing the operator's fatigue.



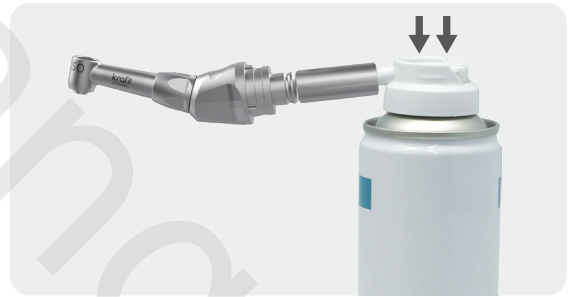
C TYPE CABLE

It can be charged with a highly compatible C TYPE cable.



LUBRICATING THE CONTRA ANGLE

Insert the spray nozzle into the rear part of the contra angle attachment and lubricate until oil comes out from the attachment head which is approximately 2-3 seconds. Attachments should be vertically positioned so all extra oil will drain out then wipe off outside surface



CONTENTS

Motor handpiece / Contra angle / Charger / Adapter / Spray nozzle / Switch lever / Motor handpiece cap

SPECIFICATION

| | |
|----------------------|------------------------|
| Model | Motor handpiece |
| Rechargeable battery | Li-ion, 3.7V, 800mA |
| Weight | 86.5g |
| Dimension(mm) | W26.6 x D27.2 x H145.1 |

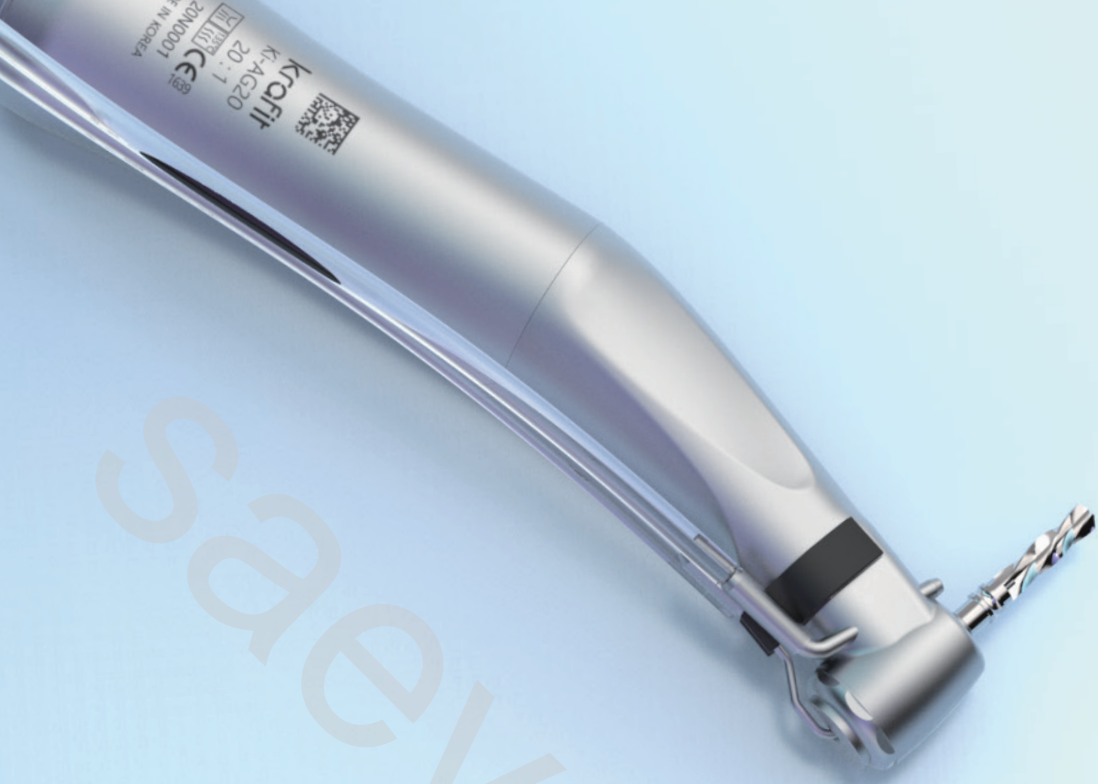
| | |
|---------------|----------------------------|
| Model | Adapter |
| Input | AC 100-240V, 50/60Hz, 0.6A |
| Output | DC 5V 1.2A |
| Weight | 104.0g |
| Dimension(mm) | W43.5 x D74.0 x H36.8 |

| | |
|---------------|------------------------|
| Model | Charger |
| Weight | 97.5 |
| Dimension(mm) | W81.4 x D103.7 x H46.7 |

Contra angle

| | | | | | | | |
|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| Model | SO-OT6 | SC-R04 | SPC-R04 | PR-04 | SP-RA16M | TD-160 | TD-320 |
| Gear ratio | 1:1 | 4:1 | 4:1 | 4:1 | 16:1 | 160:1 | 320:1 |
| Max. speed | 10,000 rpm | 2,500 rpm | 2,500 rpm | 2,500 rpm | 600 rpm | 70 rpm | 25 rpm |
| Weight | 35.5g | 34.0g | 35g | 36g | 34g | 66g | 65.5g |
| Dimension(mm) | L62.1 x Ø16.7 | L59.8 x Ø16.7 | L59.7 x Ø16.7 | L55.5 x Ø16.7 | L63.6 x Ø16.7 | L75.2 x Ø16.9 | L75.2 x Ø16.9 |

**ORAL SURGERY
& IMPLANTOLOGY**



SaeYanabi

Ki-20

Optic led control

9 memory programs can be stored on single motor

Large LCD display



POWERFUL OPTIC MICRO MOTOR

Ki-MTO motor is equipped with powerful optic function, which helps to improve the accuracy of operation with high visibility.

ERGONOMIC ANGLE SHAPE TO IMPROVE HANDGRIP

Efficient cooling provides high cooling without disturbing visibility, and it is divided into two types, right-handed and left-handed, so that the treatment can be performed under optimal conditions.



CONTENTS

Control unit / Micromotor / Motor cable / Implant 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 AC 220-240V, 50/60Hz |
| Output | 100VA |
| Weight | 2,606g |
| Dimension(mm) | W240 x D225 x H97 |

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

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

| Implant handpiece | | |
|-------------------|------------------|---------------------|
| Model | KI-AG20L (OPTIC) | KI-AG20 (NON-OPTIC) |
| Gear ratio | 20 : 1 | 20 : 1 |
| Max. speed | 2,000 rpm | 2,000 rpm |
| Max. torque | 80Ncm | 80Ncm |
| Weight | 85 g | 95 g |
| Dimension(mm) | L98 x Ø20 | L95 x Ø20 |



SD-T Driver

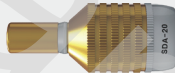
For Implant Screw Driver

Universal manual screw driver
 Contra angle type (easy to access in mouth)
 3 torque values (∞ or 20,35Ncm)
 Good to use maxilla, mandible jaw surgery



SDA

No limited torque



SDA-20

20Ncm



SDA-35

35Ncm



CONTENTS

SD-T Driver / SDA / SDA-20 / SDA-35 / Spray nozzle

SPECIFICATION

| | |
|---------------|-------------|
| Model | SD-T Driver |
| Weight | 57g |
| Dimension(mm) | L119 x Ø11 |

| | |
|---------------|-----------------|
| Model | SDA |
| Torque | ∞ |
| Weight | 22.5g |
| Dimension(mm) | L48.96 x Ø15.75 |

| | |
|---------------|----------------|
| Model | SDA-20 |
| Torque | 20Ncm |
| Weight | 47.5g |
| Dimension(mm) | L52.1 x Ø21.87 |

| | |
|---------------|----------------|
| Model | SDA-35 |
| Torque | 35Ncm |
| Weight | 47.5g |
| Dimension(mm) | L52.1 x Ø21.87 |

| | |
|---------------|--------------|
| Model | Spray nozzle |
| Weight | 11.5g |
| Dimension(mm) | L30 x Ø19.5 |

ENDODONTICS

ssadeyapnig.biz



Endo A Class

Suitable for endodontic procedures

Auto stop reverse feature

6 Memory programs

Ni-MH battery

Operatable for 90 min



Auto Stop Reverse Forward **QA**

When the motor handpiece is overloaded, it stops running immediately and runs in reserve direction until the overload is solved. After the overload is solved, the handpiece starts and runs again in forward direction.

Auto Stop Reverse Stop **A**

When the motor handpiece is overloaded, it stops running immediately and runs in reserve direction until the overload is solved. After the overload is solved, the handpiece stops running.

Auto Stop **NO INDICATION**

When the motor handpiece is overloaded, it stops running. If you need to run the motor handpiece in forward direction, press the on/off switch.

CONTENTS

Motor handpiece / Contra angle / Charger / Power Cord / Spray nozzle / Motor handpiece cap

SPECIFICATION

| | |
|----------------------|---------------------|
| Model | Motor handpiece |
| Rechargeable battery | Li-MH, 2.4V, 1000mA |
| Weight | 150g |
| Dimension(mm) | W135 x D27 x H28 |

| | |
|---------------|-------------------|
| Model | Charger |
| Input power | AC 100-240V, 11VA |
| Rated current | 800mA |
| Weight | 160g |
| Dimension(mm) | W98 x D115 x H60 |



| | |
|---------------|-----------------------|
| Model | Contra angle(SP-RA16) |
| Gear ratio | 16:1 |
| Speed | 140 - 500 rpm |
| Weight | 366g |
| Dimension(mm) | L76 x Ø18 |

Endo A Class (LED)

- Wireless endo motor
- Suitable for endodontic procedures with LED light
- Wider LCD display
- Auto stop reverse feature
- 9 Memory programs
- Li-ion battery
- Operatable for 90 min



WIRELESS

Endo A Class (LED) is a wireless type, and it is free to move during the procedure, reducing the operator's fatigue.

LED LIGHT

Suitable for endodontic procedure with LED light

LUBRICATING THE CONTRA ANGLE

Insert the spray nozzle into the rear part of the contra angle attachment and lubricate until oil comes out from the attachment head which is approximately 2~3 seconds.



CONTENTS

Motor handpiece / Contra angle / LED ass'y / Charger / Power Cord / Spray nozzle / LED cap

SPECIFICATION

| | |
|----------------------|------------------------|
| Model | Motor handpiece |
| Rechargeable battery | Li-ion, 3.7V, 800mA |
| Weight | 130g |
| Dimension(mm) | W29.9 x D32.9 x H157.1 |

| | |
|----------------|-------------------------|
| Model | Charger |
| Main Voltage | AC 100-240V, 50/60Hz |
| Rated Capacity | 300mA |
| Weight | 150g |
| Dimension(mm) | W100.0 x D100.0 x H49.4 |

| | |
|---------------|------------------------|
| Model | Contra angle(SP-RA16N) |
| Gear ratio | 1:1 |
| Speed | 150 - 600 rpm |
| Weight | 30g |
| Dimension(mm) | L87.0 x Ø15.5 |

Endo E Class

Suitable for endodontic procedures

Auto stop reverse feature

15 Memory programs

E-Type(SDE-EM24E) Endo Handpiece

On/off foot switch



CONTENTS

Control unit / Micromotor / Contra angle / Foot switch / Handpiece stand / Power cord

SPECIFICATION

| | |
|---------------|--|
| Model | Control unit |
| Input | AC 100~120V, 50/60Hz AC 220~240V, 50/60Hz |
| Output | DC24V |
| Weight | 910g |
| Dimension(mm) | W175 x D125 x H90 |

| | |
|---------------|------------------|
| Model | Micromoto(EM24E) |
| Max speed | 17,500 rpm |
| Weight | 160g |
| Dimension(mm) | W98 x D115 x H60 |

| | |
|---------------|-----------------------|
| Model | Contra angle(SP-RE16) |
| Gear ratio | 16:1 |
| Speed | 140 - 500 rpm |
| Weight | 366g |
| Dimension(mm) | L76 x Ø18 |



NOTE

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ELECTRIC MICROMOTOR



KE-40I Internal type



- Flexible installation and customised positioning
- Compact micro motor 40.000 rpm(1:1)
- Optic LED control
- Up to 5 programs
- 4 gear ratios
- Dual motor



FLEXIBLE INSTALLATION AND CUSTOMISED POSITIONING

The compact size allows you to mount various control units according to your needs. With a minimum of space and simple installation, you can use the electric motor that can be applied to a wide range of treatments.



CONTENTS

Control unit / Main unit / Micromotor / Motor cable / Mounting bracket / AC Cable / C to C Cable / Mounting bracket bolts and nuts / Motor plug / Motor cap

SPECIFICATION

| | |
|---------------|-------------------------|
| Model | Control unit (Ke-40 UI) |
| Input | AC 24V, 50/60Hz |
| Weight | 185g |
| Dimension(mm) | W97.5 x D130.6 x H141.4 |

| | |
|---------------|-------------------------|
| Model | Main Unit (Ke-40 IM) |
| Weight | 335g |
| Dimension(mm) | W126.1 x D128.9 x H39.6 |

| | |
|---------------|----------------------|
| Model | Micromotor (KEM-40L) |
| Speed range | 2,000 – 40,000rpm |
| Water supply | 100mL/min |
| Weight | 70.5g |
| Dimension(mm) | L74.5 x Ø22.0 |



KE-40E External type



- Flexible installation and customised positioning
- Compact micro motor 40.000 rpm(1:1)
- Optic LED control
- Up to 5 programs
- 4 gear ratios
- Dual motor

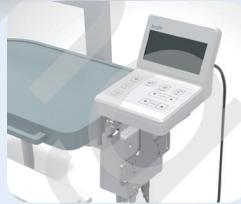


POWERFUL OPTIC MICRO MOTOR

KEM-40L motor is equipped with powerful optic function, which helps to improve the accuracy of operation with high visibility.

FLEXIBLE INSTALLATION AND CUSTOMISED POSITIONING

The compact size allows you to mount various control units according to your needs. With a minimum of space and simple installation, you can use the electric motor that can be applied to a wide range of treatments.



CONTENTS

Control unit / Main unit / Micromotor / Motor cable / Mounting bracket / DC Adapter / C to C Cable / Power Cord / Mounting bracket bolts and nuts / Motor plug / Motor cap

SPECIFICATION

| | |
|---------------|-------------------------|
| Model | Control unit (Ke-40 UI) |
| Weight | 185g |
| Dimension(mm) | W97.5 x D130.6 x H141.4 |

| | |
|---------------|-------------------------|
| Model | Main unit (Ke-40EM) |
| Weight | 243 g |
| Dimension(mm) | W96.8 x D130.4 x H116.1 |

| | |
|---------------|----------------------|
| Model | Micromotor (KEM-40L) |
| Speed range | 2,000 – 40,000rpm |
| Water supply | 100mL/min |
| Weight | 70.5g |
| Dimension(mm) | L74.5 x Ø22.0 |

| | |
|---------------|------------------------|
| Model | DC Adapter |
| Input | AC100-240V, 50/60Hz |
| Output | 24Vdc, 2.7A |
| Weight | 261g |
| Dimension(mm) | W120.0 x D52.0 x H35.0 |

OTHERS



35

BRUSHLESS

sony

BRUSHLESS
SDE-BE35

MADE IN KOREA
200001
Kraft!
SDE-ES6
1:1
QR CODE

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.



CONTENTS

Control unit / Handpiece / Handpiece stand / Charger / Control unit stand(optional) / Foot pedal(optional) / Handpiece holder(optional) / Clip(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-BE35) |
| Max.speed | 35,000 rpm |
| Torque | 2.4 Ncm |
| Weight | -- |
| Dimension(mm) | -- |

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

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

MARATHON-37 cartridge warmer

Maintains painless temperature with 37°C (98.6 °F)

Helps patients feel very comfortable

Effective for painless injection



TEMPERATURE MAINTENANCE

Cartridge warmer is designed to give patients painless feelings when injection.

It is very effective to maintain same temperature of 37±3 °C throughout the whole day.

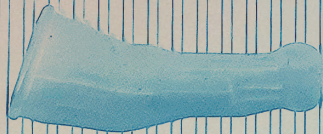
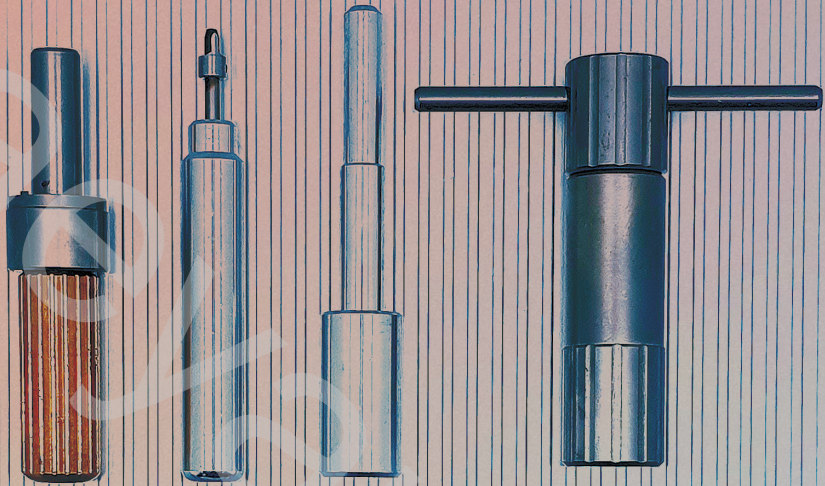
Please insert thermometer into center hole, and lidocaine into the bigger 15 holes round about.






SPECIFICATION

| | |
|----------------|--------------------------|
| Model | Marathon-37 |
| Electric power | AC110/220V, 50/60Hz, 60W |
| Temperature | 37±3 °C |
| Weight | 800g |
| Dimension(mm) | W92 x D116 x H132 |

SPARE PARTS







CONTRA & STRAIGHT HANDPIECE

| MODEL | PART NAME | PICTURE |
|---------------------|-----------------------|---|
| SDE-ES6 SDE-ES04 | SPRAY NOZZLE |  |
| SDE-ES100N | EXTERNAL WATER NOZZLE |  |
| | SPRAY NOZZLE |  |
| SP-CE | SP HEAD ASS'Y |  |
| | BODY ASS'Y |  |
| | SPRAY NOZZLE |  |








POLISHING HANDPIECE

| MODEL | PART NAME | PICTURE |
|---------------------|--------------|---|
| SDE-EP6 SDE-EP04 | SPRAY NOZZLE |  |


SURGICAL HANDPIECE

| MODEL | PART NAME | PICTURE |
|-------------------------|-----------------------|---|
| SGS-O SGS-S SGS-R | EXTERNAL WATER NOZZLE |  |
| | SPRAY NOZZLE |  |
| SGC-S101 | EXTERNAL WATER NOZZLE |  |
| | SPRAY NOZZLE |  |














IMPLANT HANDPIECE

| MODEL | PART NAME | PICTURE |
|---------------------|---------------------------|--|
| KI-AG20 KI-AG20L | HEAD GEAR HOUSING ASS'Y |  |
| | MIDDLE GEAR HOUSING ASS'Y |  |
| | NOZZLE CLAMP |   RIGHT HANDED LEFT HANDED |
| | WRENCH |  |
| | NOZZLE PIN |  |
| | INTERNAL SPRAY NOZZLE |  |











MAINTENANCE & REPAIR TOOL BOX

| MODEL | PART NAME | PICTURE |
|--------------------|------------------|---|
| REPAIR TOOL BOX | DENTAL HANDPIECE |  |





















ORTHODONTICS

| MODEL | PART NAME | PICTURE |
|-------------|--------------------------|---|
| PRO M CLASS | MOTOR HANDPIECE |  |
| | CHARGER |  |
| | CONTRA ANGLE SO-0T6 |  |
| | CONTRA ANGLE SPC-R04 |  |
| | CONTRA ANGLE SC-R04 |  |
| | CONTRA ANGLE PR-04 |  |
| | CONTRA ANGLE SP-RA16M |  |
| | CONTRA ANGLE TD-160 |  |
| | CONTRA ANGLE TD-320 |  |
| | ADAPTER |  |
| | SPRAY NOZZLE |  |
| | MOTOR HANDPIECE CAP |  |
| | SWITCH LEVER |  |
















ORAL SURGERY & IMPLANTOLOGY

| MODEL | PART NAME | PICTURE |
|-------|--|---|
| KI-20 | CONTROL UNIT KI-20 |  |
| | MICRO MOTOR KI-MTO |  |
| | IMPLANT HANDPIECE KI-AG20 / NON-OPTIC |  |
| | IMPLANT HANDPIECE KI-AG20L / OPTIC |  |
| | FOOT CONTROL KI-F20 |  |
| | FOOT HANGER |  |
| | POWER CORD |  |
| | IRRIGATION TUBE |  |
| | MOTOR PLUG |  |
| | HANDPIECE STAND |  |
| | COOLANT HANGER |  |









ENDODONTICS

| MODEL | PART NAME | PICTURE |
|-----------------------|---|---|
| ENDO A CLASS (LED) | MOTOR HANDPIECE |  |
| | CHARGER |  |
| | CONTRA ANGLE SP-RA16N |  |
| | POWER CORD |  |
| | OPTIC LED ASS'Y |  |
| | SPRAY NOZZLE |  |
| | LED CAP |  |
| ENDO A CLASS | MOTOR HANDPIECE |  |
| | CHARGER |  |
| | CONTRA ANGLE SP-RA16N |  |
| | POWER CORD |  |
| | SPRAY NOZZLE |  |
| | MOTOR HANDPIECE CAP |  |
| ENDO E CLASS | CONTROL UNIT |  |
| | MICRO MOTOR EM24E |  |
| | MOTOR CORD |  |
| | CONTRA ANGLE SP-RE16 |  |
| | FOOT SWITCH |  |
| | HANDPIECE STAND |  |
| POWER CORD |  | |

ELECTRIC MICROMOTOR

| MODEL | PART NAME | PICTURE |
|---------|-------------------------|---|
| KE-40I | CONTROL UNIT KE-40UI |  |
| | MICRO MOTOR KEM-40L |  |
| | MOTOR CABLE |  |
| | MAIN UNIT KE-40 IM |  |
| | C TO C CABLE / AC CABLE |  |
| | MOUNTING BRACKET |  |
| | MOTOR PLUG / MOTOR CAP |  |
| KE-40EI | CONTROL UNIT KE-40UI |  |
| | MICRO MOTOR KEM-40L |  |
| | MOTOR CABLE |  |
| | KE-40EM |  |
| | DC ADAPTER |  |
| | C TO C CABLE |  |
| | MOUNTING BRACKET |  |
| | MOTOR PLUG / MOTOR CAP |  |

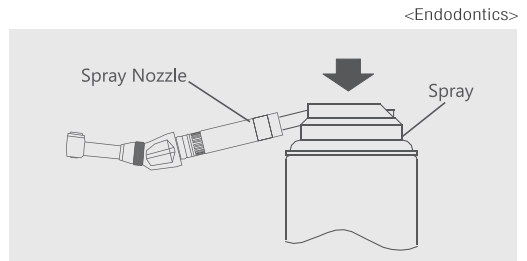
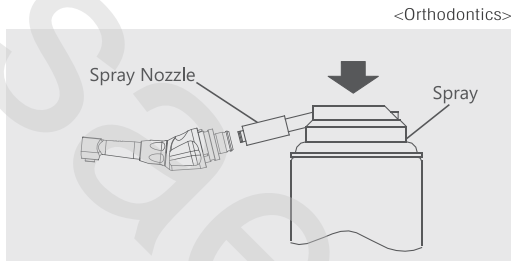
OTHERS

| MODEL | PART NAME | PICTURE |
|---------|--|---|
| K48 PRO | CONTROL UNIT K48 PRO |  |
| | E-TYPE MOTOR SDE-BE35 |  |
| | CHARGER |  |
| | HANDPIECE STAND |  |
| | CONTROL UNIT STAND (OPTIONAL) |  |
| | HANDPIECE HOLDER (OPTIONAL) |  |
| | CLIP (OPTIONAL) |  |
| | ON / OFF FOOT SWITCH SFP-27 (OPTIONAL) |  |

USER GUIDE (For safety & efficiency)

Lubrication I Oil

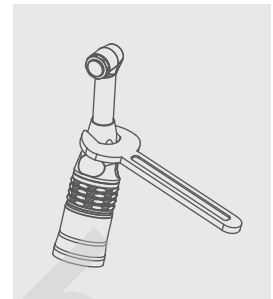
- * After each use, please lubricate the contra angle hand piece and keep it under normal condition.
 - * The contra angle handpiece detached from air motor or micromotor should be lubricated as following order.
- 1) Shake the oil spray about 10 times to mix the contents enough, and install the enclosed spray nozzle on the spray.
 - 2) Clean the entrance of spray nozzle.
 - 3) Insert the spray nozzle into the inserting part of the contra angle hand piece.
 - 4) Spray for 2-3 seconds.



- 5) If the contra angle hand piece is contaminated by blood or etc., please unscrew the nut and disassemble the contra head by using a spanner
- 6) Clean the detached contra head with flowing water or ultrasonic cleaner.
- 7) After cleaning the contra head, dry it out completely and lubricate enough to remove the water inside of it.

Autoclave I Dry

- * Autoclaving is recommended.
 - * The contra angle handpiece should be sterilized after each use.
 - * Autoclaving sequence
- 1) Clean the dust using the brush, and wipe off the contra angle with the soft cloths wet by alcohol.
 - 2) After detaching the contra angle from micromotor, and lubricate it.
 - 3) Put the contra angle handpiece without a micromotor into the autoclave.
 - 4) Set the temperature of the autoclave. (e.g. about 4 minutes at 132°C)
 - 5) Keep the contra angle handpiece under normal condition after autoclaving and drying it out.(drying 30 minutes)



Caution

- 1) Place the contra angle handpiece on the upper or middle tray of the autoclave. If there is the heat generator at the bottom of it, placing the contra angle handpiece at the bottom could cause the possibility that the temperature exceeds a set point.
- 2) Do not place the contra angle handpiece into the autoclave with other contaminated instruments by chemical substances to prevent discoloration or corrosion of its plating.
- 3) It is necessary for the users to operate our products by following the maintenance requirements in this manual. The manufacture is not responsible for any accident or problem caused by not following the manual.
- 4) The device consists the durability of at least 250 sterilization cycles.
- 5) In case of anything wrong with products, please stop using the products and contact your local dealer.
- 6) Do not try to disassemble or convert the contra angle handpiece except for instructions mentioned on the manual.
- 7) Be careful not to drop the contra angle handpiece and be away from any impact.
- 8) Please pay attention to the condition of a contra angle handpiece such as vibration, heat generation and instability of the file.
- 9) Do not push the button while the file is rotating.
- 10) The contra angle hand piece should be disconnected from micromotor after rotation of a file completely stops.
- 11) If the head part inside is contaminated, please detach the gear-shift and do the cleaning inside of it, and then lubricate the contra angle handpiece and try to reassemble carefully.

SAEYANG CO., LTD.

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

TEL +82-53-582-9001 **FAX** +82-53-581-9003

marathon@saeyang.com

saeyang.com

