











Features

- · Automatic safety overload protection system
- · Variable speed control pedal(FS60N)
- · Less noise, less vibration





Specifications control box only

- Power supply : AC100 - 120V or 200 - 240V 50/60 Hz

·speed : MAX 40,000 RPM

· Weight : 1.6 kg

 Dimensions : W141 x D186 x H97(mm)













Features

- · Automatic safety overload protection system
- · Dust-proof cover for switch
- · On/Off Foot Switch
- · Variable speed control pedal







Specifications control box only

Power supply : AC100 - 120V or 200 - 240V 50/60 Hz

· speed : MAX 40,000 RPM

· Weight : 1.7 kg

· Dimensions : W115 x D147 x H96(mm)

New N2 brush (Max) (1) (1)) (N/OFF Variable Laboration)













Features

- · Automatic safety overload protection system
- · Dust-proof cover for switch
- · On/Off Foot Switch
- · Variable speed control pedal





Specifications control box only

- Power supply : AC100 - 120V or 200 - 240V 50/60 Hz

· speed : MAX 40,000 RPM

· Weight : 1.2 kg

Dimensions: W115 x D147 x H96(mm)

K38













Features

- · MAX 8hours (MH20)
- · LI-ION battery(rechargeable)
- · Digital speed display window
- · LED display for battery charging level
- · Automatic System
 - power save / FWD-REV
 - overload protection(warning signal)
- · On/Off Foot Switch

















Specifications control box only

· Power supply : AC100 - 120V or 200 - 240V 50/60 Hz

: MAX 30,000 RPM · speed

: 277 g · Weight

· Dimensions : W67 x D128 x H30(mm)

















Features

- · Digital speed display window
- · Auto cruise control (in case of connection variable speed control)
- · Automatic System
 - power save / FWD-REV
 - overload protection (warning signal)
- · Variable speed control pedal
- · On/Off Foot Switch







Specifications control box only

- Power supply : AC100 - 120V or 200 - 240V 50/60 Hz

: MAX 35,000 RPM · speed

· Weight : 1.13 kg

Dimensions: W120 x D120 x H75(mm)

Escort II pro brush (Mx) (IV) (IV) (IV) (IV) (IV)









white





blue

pink

Features

- · Powerful performance with low noise & vibration
- · Built-in handpiece cradle and bit stand
- · Automatic safety overload protection system
- Comfortable
- · One-touch change of driving direction during operation
- · Variable speed control pedal
- · On/Off Foot Switch





Specifications control box only

- Power supply : AC100 - 120V or 200 - 240V 50/60 Hz

: MAX 35,000 RPM · speed

: 1.45 kg Weight

Dimensions: W140 x D155 x H90(mm)









Features

- · Powerful and excellent performance with low noise & vibration
- · One-touch change of driving direction efficient operation
- · On/Off Foot Switch







Specifications control box only

Power supply : AC100 - 120V or 200 - 240V 50/60 Hz

· speed : MAX 35,000 RPM

 Weight : 1.23 kg

Dimensions: W112 x D147 x H77(mm)

Marathon-4 brush (ms. 100) (ms. 100)









Features

- · Powerful and excellent performance with low noise & vibration
- · 4 stage speed control
- · One-touch change of driving direction efficient operation
- · On/Off Foot Switch







Specifications control box only

- Power supply : AC100 - 120V or 200 - 240V 50/60 Hz

·speed : MAX 35,000 RPM

 Weight : 1.16 kg

 Dimensions : W112 x D147 x H77(mm)

M4 mini brush (max) (max









Features

- · Powerful pe rformance with low noise & vibration
- · Easy direction change
- · On/Off Foot Switch
- · 4 stage speed control













Specifications control box only

· Power supply : AC100 - 120V or 200 - 240V 50/60 Hz

· speed : MAX 35,000 RPM

 Weight : 1.0 kg

 Dimensions : W78 x D126 x H69(mm)

M3 Champion brush that the control of the control o









Features

- · Built-in handpiece cradle and bit stand
- · Forward&reverse direction switch
- · On-off foot Switch









Specifications control box only

Power supply : AC100 - 120V or 200 - 240V 50/60 Hz

· speed : MAX 35,000 RPM

· Weight : 1.23 kg

 Dimensions : W118 x D156 x H78(mm)









Features

- · Built-in handpiece cradle and bit stand
- · Forward&reverse direction switch
- · On-off foot Switch







Specifications control box only

Power supply : AC100 - 120V or 200 - 240V 50/60 Hz

· speed : MAX 35,000 RPM

 Weight : 1.26 kg

 Dimensions : W118 x D156 x H89(mm)



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SDE-SM110 hammer handpiece



- · 5,000 Strokes/min.
- · Control function of Impact Force
- D.C 30V

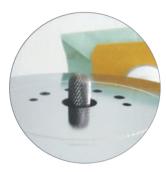


- · Max.speed: 28,000 rpm
- · Compatible Automatic Spindle with laboratory alloy grinders

Marathon-20

center grinder





- · Max.Speed: 3,200 rpm
- · Grinding plaster model
- · Grinding edge part of plaster model with an upper acetal plate
- · Human-friendly dust collecting system
- · Tools can easily change
- · Good & effecive design

Marathon-103

surveyor



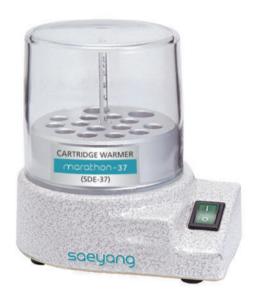


▲ Surveyor tool pin set

- · Precise instrument with exact movement
- · Easy exchangeable system (spindle, model table, cone former and plaster)
- · Excellent finished surface
- · Variable application possible
- · Surveyor tools available

Marathon-37

cartridge warmer





- Maintains painless temperature with 37°C (98.6 °F)
- · Effective for painless injection

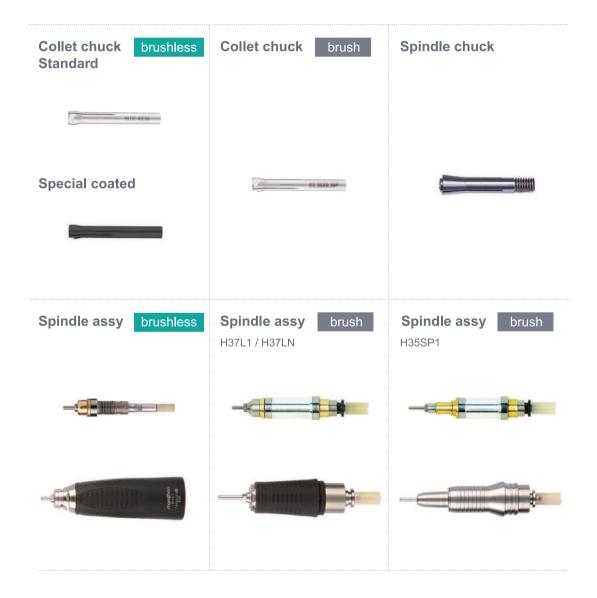
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	CARTRIDGE WARMER
	marathon-37 (SDE-37)



S

Collet sleeve











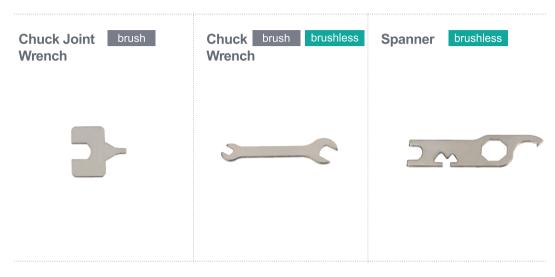








Lab. Air Tubine Variable Speed On / Off Foot Switch **Foot Switch Foot Pedal** Cord brushless Cord brush **Handpiece Stand**



Maintenance & Repair brush brushless



User guide

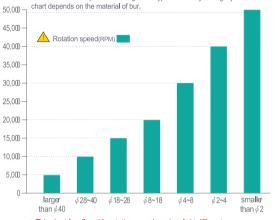
(For safety & efficiency)

* Precaution

- 1. Do not operate a micromotor with a bent, asymmetrical or damaged bur. Must operate it with a standard bur.
- Do not start the motor at a high rotation speed.Start from the low speed and change it slowly to the desired speed.
- 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



** This chart for allowable rotation speed can be slight different depending on bur materials or type



Check the product if everything is set before use.



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.



Do not drop the product.

Dropping the motor may damage ball bearing or weaken durability of the motor



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



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



For safety, make sure to read and understand the operation manual carefully 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 customize the product.



Do not exceed the maximum speed.



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



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



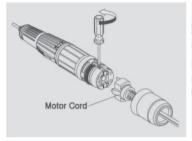
Make sure to turn off the product after use.

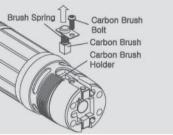
Leaving the product turned on is very dangerous and may cause overheating.

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
- Assemble the handpiece.
- 5. Run the handpiece at 20.000rpm for 30minutes under no load condition before use.



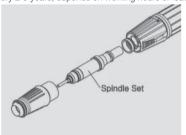


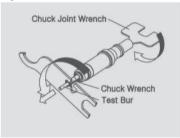


Replacing the Collect Chuck

- 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

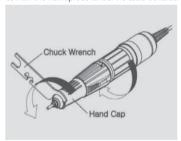


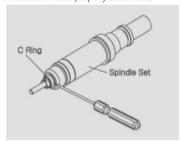


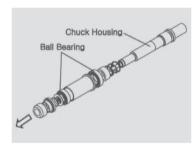


Replacing Ball Bearings

- 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.





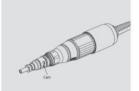


Replacing Ball Bearings(SH300S)

- 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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