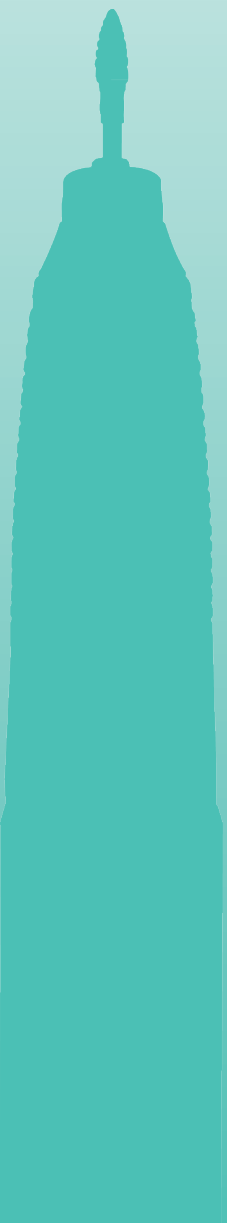


marathon

2017/18

THE BEST CREATION OF MICRO MOTOR



saeyang

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 15 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

Oct.	1976	Company Established
Dec.	1977	Registered manufacturing of medical equipment.
Sep.	1987	Registered trading business
Apr.	1989	Registered Korea medical equipment cooperative association
May.	1971	Registered of designs for engine for dental laboratory
Apr.	1998	Certified ISO 9001 from TUV (Germany)
Feb.	1999	Certified CE Mark from TUV (Germany)
May.	2000	Certified Venture enterprise for high technology
Nov.	2001	Awarded official Superior Exporting Firm
Nov.	2001	Awarded Leading Enterprise
Apr.	2002	Certified CE Mark of New item "Escort"
Jan.	2003	Registered manufacturing Brushless motor
Jun.	2003	Certified CE Mark of "Marathon Multi 600" Brushless motor
Jun.	2004	Established R&D center
Jul.	2004	Certified CE Mark of New item "Marathon N7&N2"
Mar.	2005	Certified CE Mark of New item "Marathon HANDY700 Series" Brush/Brushless motor
Dec.	2005	Awarded official best Exporting Firm
Apr.	2006	Moved into a new factory
Jul.	2006	Certified PSE from TUV
Oct.	2006	Opening Ceremony of a new factory as well as the 30th anniversary
Feb.	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)
Aug.	2010	Certified CE Mark of New item "Endo e class"
Mar.	2011	Development of Endo a class
Mar.	2012	Dental contra angle
Mar.	2013	Developed Implant Motor
Aug.	2013	Certified FDA (Endo Motor)
Jun.	2014	60,000RPM Handpiece Developed
Sep.	2014	20:1 Optic Handpiede Developed
Mar.	2015	Certified FDA CFDA(Implant Motor)
Oct.	2015	Awarded Grand Prize for 2015 Best Company in Daegu City
Dec.	2016	Awarded for Exporting US\$ 20 million



saeyang

Contents

Air Turbine

Air turbine Handpieces	p.8
mat-300W	p.9
mat-300A	p.10

B.L.D.C.

Brushless micromotors	p.14
Multi 600 60k	p.15
Multi 600 50k	p.16
Handy 700 60k	p.17
Handy 700 50k	p.18
Handy Eco	p.19

D.C.

Brush micromotors	p.22
Multi 600 DUO	p.25
Handy 702	p.26
Eco 450	p.27
New N7	p.28
New N2	p.29
K38	p.30
K35	p.31
Escort II pro	p.32
Escort III	p.33
Marathon-4	p.34
M4 mini	p.35
M3 Champion	p.36
M3 Mighty	p.37

Equipments

SDE-SM110, SDE-LS200	p.40
Marathon-20, Marathon-103	p.41
Marathon-37	p.42

Spare parts

Spare parts	p.46
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Marathon Products Line-up

Laboratory
Air turbine



Air turbine handpiece



Brushless
micromotor



E-Type Motor



Brush
micromotor



E-Type Motor



Brushless
control box



Brush
control box





Air Turbine

Air Turbine Handpiece

mat-H300W

Air turbine handpiece (water)



- Dimensions : L124.1 x Ø17.2 (mm)
- Speed : 320,000 rpm
- Weight : 85.5g
- Air Pressure : 2.5 - 3.0 bar

mat-H300A

Air turbine handpiece (water)



- Dimensions : L131.9 x Ø16.9 (mm)
- Speed : 320,000 rpm
- Weight : 60g
- Air Pressure : 2.0 - 2.5 bar

mat-300W water

Features

- Compact size
- speed control pedal
- Easy adjustment of water volume and air pressure
- Simple chuck-handle system
- Less noise and vibration



MODEL **mat-300W**

Specifications control box only

- Air pressure : 2.5 - 3.0 bar
- Weight : 1.7 kg
- speed : MAX 320,000 RPM
- Dimensions : W234 x D99 x H190(mm)
- Contents : Control unit, Handpiece, Foot control

mat-300A air

Features

- Compact size
- speed control pedal
- Easy adjustment of volume and spray air
- Simple chuck-handle system
- Less noise and vibration



MODEL **mat-300A**

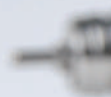
Specifications control box only

- Air pressure : 2.0 - 2.5 bar
- Weight : 1.15 kg
- speed : MAX 320,000 RPM
- Dimensions : W100 x D103 x H182(mm)
- Contents : Control unit, Handpiece, Foot control

memo

A large area of horizontal dashed lines for taking notes, overlaid on a faint image of the Marathon mat-300w device.





B L D C



Brushless Micromotors

SDE-BS50C



- Dimensions : L160 x Ø23 (mm)
- Speed : 1,000 - 60,000 rpm
- Max. Torque : 5.78 Ncm
- Weight : 212g
- Cord length : 1.5m

SDE-BM50S1



- Dimensions : L160 x Ø27 (mm)
- Speed : 1,000 - 50,000 rpm
- Max. Torque : 7.8 Ncm
- Weight : 231g
- Cord length : 1.5m

SDE-BM40S1



- Dimensions : L160 x Ø27 (mm)
- Speed : 1,000 - 40,000 rpm
- Max. Torque : 8.5 Ncm
- Weight : 231g
- Cord length : 1.5m

SDE-BS40E



- Dimensions : L117 x Ø22 (mm)
- Speed : 1000 - 40,000 rpm
- Max. Torque : 6.5 Ncm
- Weight : 265g
- Cord length : 1.5m

Multi600 60K



Features

- Digital speed display window
- Less noise, less vibration
- Excellent durability
- Ceramic ball bearing
- Knee-control type
- Self-diagnosis function
- Auto-cruise function
- Variable speed control pedal (FS60N)



MODEL **Multi600 (60K)**

Specifications control box only

- Power supply : AC100 - 120V or 200 - 240V 50/60 Hz
- speed : MAX 60,000 RPM
- Weight : 3.1 kg
- Dimensions : W122 x D268 x H237(mm)
- Contents : Control unit, Handpiece, Foot control, Handpiece stand

Multi600 50K



Features

- Digital speed display window
- Less noise, less vibration
- Excellent durability
- Ceramic ball bearing
- Knee-control type
- Self-diagnosis function
- Auto-cruise function
- Variable speed control pedal (FS60N)



MODEL **Multi600 (50K)**

Specifications control box only

- Power supply : AC100 - 120V or 200 - 240V 50/60 Hz
- speed : MAX 50,000 RPM
- Weight : 3.1 kg
- Dimensions : W122 x D268 x H237(mm)
- Contents : Control unit, Handpiece, Foot control, Handpiece stand

Handy700 60K



Features

- Digital speed display window
- Maximum speed set mode possible
- Less noise, less vibration
- Excellent durability
- Ceramic ball bearing
- Self-diagnosis function
- Auto-cruise function
- Variable speed control pedal (FS60N)
- Handpiece cradle attached
- Magnetic bur holder attached
- Easy-carry system



Specifications control box only

- Power supply : AC100 - 120V or 200 - 240V 50/60 Hz
- speed : MAX 60,000 RPM
- Weight : 2.7 kg
- Dimensions : W137 x D232 x H180(mm)
- Contents : Control unit, Handpiece, Foot control, Handpiece stand

Handy700 50K



Features

- Digital speed display window
- Less noise, less vibration
- Excellent durability
- Ceramic ball bearing
- Self-diagnosis function
- Auto-cruise function
- Variable speed control pedal (FS60N)
- Handpiece cradle attached
- Magnetic bur holder attached
- Easy-carry system



Specifications control box only

- Power supply : AC100 - 120V or 200 - 240V 50/60 Hz
- speed : MAX 50,000 RPM
- Weight : 2.7 kg
- Dimensions : W137 x D232 x H180(mm)
- Contents : Control unit, Handpiece, Foot control, Handpiece stand

Handy Eco



Features

- Automatic safety overload protection system
- Digital speed display window
- Variable speed control pedal



Specifications control box only

- Power supply : AC100 - 120V or 200 - 240V 50/60 Hz
- speed : MAX 50,000 RPM
- Weight : 1.6 kg
- Dimensions : W141 x D186 x H97(mm)
- Contents : Control unit, Handpiece, Foot control, Handpiece stand

DC



Marathon

SDE-SH87LN

MAX RPM 45,000
S.S. 14120.65

VibroX
Quartz

SDE-SMASC
MAX RPM 45,000
NO. 14050038

Brush Micromotors

SDE-SM45C



- Dimensions : L155 x Ø30 (mm)
- Speed : 0 - 40,000 rpm
- Max. Torque : 4.5 Ncm
- Weight : 230g
- Cord length : 1.5m

SDE-SH37LN



- Dimensions : L152 x Ø28 (mm)
- Speed : 0 - 40,000 rpm
- Max. Torque : 4.5 Ncm
- Weight : 201g
- Cord length : 1.5m

SDE-SH37L(M45)



- Dimensions : L154 x Ø30 (mm)
- Speed : 0 - 40,000 rpm
- Max. Torque : 4.5 Ncm
- Weight : 202g
- Cord length : 1.5m

SDE-H37L1



- Dimensions : L155 x Ø30 (mm)
- Speed : 0 - 35,000 rpm
- Max. Torque : 3.2 Ncm
- Weight : 201g
- Cord length : 1.5m

SDE-H35SP1



- Dimensions : L152 x Ø28 (mm)
- Speed : 0 - 35,000 rpm
- Max. Torque : 3.2 Ncm
- Weight : 201g
- Cord length : 1.5m

SDE-H37LSP

- Dimensions : L154 x Ø30 (mm)
- Speed : 0 - 35,000 rpm
- Max. Torque : 3.2 Ncm
- Weight : 202g
- Cord length : 1.5m

SDE-H37SP for surveyor

- Dimensions : L154 x Ø30 (mm)
- Speed : 0 - 35,000 rpm
- Max. Torque : 3.2 Ncm
- Weight : 202g
- Cord length : 1.5m

SDE-H200

- Dimensions : L129 x Ø22 (mm)
- Speed : 0 - 30,000 rpm
- Max. Torque : 1.6 Ncm
- Weight : 143g
- Cord length : 1.5m

SDE-SH300S

- Dimensions : L135 x Ø23 (mm)
- Speed : 0 - 30,000 rpm
- Max. Torque : 1.6 Ncm
- Weight : 135g
- Cord length : 1.5m

SDE-MH20(30K)

- Dimensions : L120 x Ø20 (mm)
- Speed : 0 - 30,000 rpm
- Max. Torque : 1.3 Ncm
- Weight : 121g
- Cord length : 1.5m

E-Type Motors

SDE-M33E



- Dimensions : L109 x Ø25 (mm)
- Speed : 0 - 35,000 rpm
- Max. Torque : 3.2 Ncm
- Weight : 137g
- Code length : 1.5m

SDE-M33Es



- Dimensions : L99 x Ø25 (mm)
- Speed : 0 - 35,000 rpm
- Max. Torque : 3.2 Ncm
- Weight : 109g
- Code length : 1.5m

SDE-M300Es



- Dimensions : L97 x Ø23 (mm)
- Speed : 0 - 30,000 rpm
- Max. Torque : 3.2 Ncm
- Weight : 86g
- Code length : 1.5m

Multi 600 Duo

brush

brushless

Max
50,000
min⁻¹

DIGITAL



Features

- Digital speed display window
- Less noise, less vibration
- Excellent durability
- Ceramic ball bearing
- Self-diagnosis function
- Auto-cruise function
- Variable speed control pedal (FS60N)



Specifications control box only

- Power supply : AC100 - 120V or 200 - 240V 50/60 Hz
- speed : MAX 50,000 RPM
- Weight : 3.1 kg
- Dimensions : W122 x D268 x H237(mm)
- Contents : Control unit, Handpiece, Foot control, Handpiece stand

Handy 702



Features

- Digital speed display window
- Less noise, less vibration
- Excellent durability
- Self-diagnosis function
- Auto-cruise function
- Variable speed control pedal (FS60N)
- Handpiece cradle attached
- Magnetic bur holder attached
- Easy-carry system



Specifications control box only

- Power supply : AC100 - 120V or 200 - 240V 50/60 Hz
- speed : MAX 40,000 RPM
- Weight : 2.7 kg
- Dimensions : W137 x D232 x H180(mm)
- Contents : Control unit, Handpiece, Foot control, Handpiece stand