stomdevice

marathon 2017/18

THE BEST CREATION OF MICRO MOTOR



saeyang

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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



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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



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Marathon Products Line-up

Laboratory Air turbine


mat-300W
Water


mat-300A
Air

Air turbine handpiece


Water Air

Brushless micromotor


SDE BS50C | SDE BM50S1 | SDE BM40S1

E-Type Motor

SDE BS40E

Brush micromotor


SDE SM45C | SDE SH37LN | SDE SH37L(M45) | SDE H37L1 | SDE H35SP1 | SDE H37LSP | SDE H37SP | SDE H200 | SDE SH300S | SDE MH20

E-Type Motor

SDE M33E | SDE M33Es | SDE M300Es

Brushless control box


Multi 600 (60,000 rpm) | Multi 600 | Handy 700 (60,000 rpm) | Handy 700 | Handy Eco

Brush control box


Multi 600 (Duo) | Handy 702 | Eco 450 | New N7 | New N2 | K38


K35 | Escort II pro | Escort III | Marathon-4 | M4 mini | M3 Champion


M3 Mighty

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Air Turbine

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Air Turbine Handpiece

mat-H300W

Air tutbine 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 tutbine handpiece (water)



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

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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

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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

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memo



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BLDC



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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

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Multi600 60K

brushless | Max 60,000 min⁻¹ | DIGITAL | Variable | Knee Control

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, Handpeice stand

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Multi600 50K

brushless | Max 50,000 min⁻¹ | DIGITAL | Variable | Knee Control

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, Handpeice stand

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Handy700 60K

brush | brushless | Max 60,000 min⁻¹ | DIGITAL | Variable

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, Handpeice stand

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Handy700 50K

brush | brushless | Max 50,000 min⁻¹ | DIGITAL | Variable

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, Handpeice stand

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Handy Eco

brushless | Max 50,000 min⁻¹ | DIGITAL | Variable

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, Handpeice stand

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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

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SDE-H37LSP



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

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Multi 600 Duo

brush | brushless | Max 50,000 min⁻¹ | DIGITAL | Variable

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, Handpeice stand

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Handy 702

brush | Max 40,000 min⁻¹ | DIGITAL | Variable

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, Handpeice stand

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