

marathon


brush

AG-103S 電動精密研磨機

CE



- ★ 高扭力無段變速系統（良好的無段變速系統設計輸出從0至35,000轉）
- ★ 具有正逆轉功能
- ★ 手動/腳踏開關系統
- ▲ It is well designed to output upto 0~35,000rpm by using non-stage speed system.
- ▲ Right & Left turning ability
- ▲ On/Off foot switch system
- ▲ Micromotor electric power tool set, consisting of a power pack, rotary micro motor, On/off foot switch, handpiece cradle and accessories.

AG-103	輸入電壓 Power Input	輸出電力來源 Output	保險絲 Fuse (max)	最大負載電流 Power Range	尺寸 Size (mm)	重量 (KG)
	AC 110/220V (60/50 Hz)	DC 0~32V	3A	110V:2A 220V:1A	長×寬×高 160x108x88	1.2kg
AH-37L	AH-37:DC手機 Handpiece			手機尺寸/Dimension(mm)		
	轉速	扭力	重量	LxWxH		
	35,000rpm	2.9 Ncm	200g	159x28.2x18.9		

AG-700S 電動無刷高速研磨機



★ 轉速指數表

(無段變速系統設計輸出從1,000到50,000轉)

- ★ 高扭力、低噪音、低振頻
- ★ 負載自動保護系統
- ★ 使用陶瓷培林、耐磨低消耗
- ★ 具有正逆轉功能
- ★ 手動/腳踏轉速控制系統
- ★ 具雙功能雙孔裝置 (無碳刷/有刷手機)

- Digital speed display window
- Maximum speed set mode possible
- Lowest noise, lowest vibration
- Self-diagnosis function
- Ceramic ball bearing
- Error code display, Auto-cruise function
- Vertical & easy-carry system

AG-700	輸入電壓 Power Input	輸出電力來源 Output	保險絲 Fuse (max)	最大負載電流 Power Range	尺寸 Size (mm)	重量 (KG)
	AC 110/220V (60/50 Hz)	230W DC 0~32V	3A	110V:2A 220V:1A	長×寬×高 210x135x188	2.4kg
AH-50S	AH-50S:無碳刷手機/ Brushless Handpiece			手機尺寸/Dimension(mm)		
	轉速	扭力	重量	LxWxH		
	1,000~50,000rpm	7.8 Ncm	238g	160x26.2x18.9		

brush

Micromotor Grinder

AG-204-102L 電動精密研磨機 CE



35,000 R.P.M.

- ★ 高扭力無段變速系統（良好的無段變速系統設計輸出從0至35,000轉）
- ★ 具有正逆轉功能
- ★ 手動/腳踏開關系統
- ▲ It is well desinged to output upto 0~35,000rpm by using non-stage speed system.
- ▲ Right & Left turning ability
- ▲ On/Off foot switch system
- ▲ Micromotor electric power tool set, consisting of a power pack, rotary micro motor, On/off foot switch, handpiece cradle and accessories.

AG-204	輸入電壓 Power Input	輸出電力來源 Output	保險絲 Fase (max)	最大負載電流 Power Range	尺寸 Size (mm)	重量 (KG)
	AC 110/220V (60/50 Hz)	DC 0~32V	3A	110V:2A 220V:1A	寬×長×高 109x131x85	1.37kg
102L	102L:DC手機 Handpiece			手機尺寸/Dimension(mm)		
	轉速	扭力	重量	L×W×H		
	35,000rpm	2.8 Ncm	200g	159x28.2x18.9		

brush

Micromotor Grinder

AG-206-103 電動精密研磨機



★ 高扭力無段變速系統

(無段變速系統設計輸出從0到45,000轉)

★ 加工施力回饋系統

★ 負載自動保護系統

★ 可重新設定裝置

★ 具有正逆轉功能

★ 手動/腳踏轉速控制系統

Non stage speed system

▲ It's well designed use from SER 0 to 45,000 RPM

▲ by using non stage speed system

▲ Double output system

▲ Hand/Foot speed control system

▲ Right & Left turning system

▲ Automatic overload protection system

AG-206	輸入電壓 Power Input	輸出電力來源 Output	保險絲 Fuse (max)	最大負載電流 Power Range	尺寸 Size (mm)	重量 (KG)
	AC 110/220V (60/50 Hz)	DC 0~32V	3A	110V:2A 220V:1A	寬×長×高 130x190x133	1.7kg
103L	103L:DC手機 Handpiece			手機尺寸/Dimension(mm)		
	轉速	扭力	重量	LxWxH		
	45,000rpm	4.5 Ncm	238g	155x29x19		



Bench/Flex-Shaft Grinder

ACS-302 桌上型電動刻磨機 CE



腳踏開關 (無段變速)

CS-306 電動刻磨機

延長傳動線

桌上型電動刻磨機(附腳踏開關)

- ★ 輸出功率(HP)：1/3HP(250W), 50/60Hz, 1Ph.
- ★ 電壓：110~120V or 220~240V
- ★ 轉速：500~22,000 R.P.M.
- ★ 夾頭：0.5~4mm

CS-302 Bench-Flexible Shaft Grinder (With foot pedal set)

The machine is a mini type bench grinder with flexible shaft. It can be used for grinding, cutting and polishing the small tools, knives and parts. Its electronic adjustable speed function can meet your requested.

ACS-302 規格

轉速 R. P. M.	電壓 Voltage	輸出電力來源 Power Output	夾頭 Collet Chuck Size	尺寸 WxDxH (mm)	重量 Weight
500~22,000	AC-DC110/ 220V (50/60 Hz)	1/3HP(250W) 50/60 Hz .1ph	φ 0.5~4.0mm	100x131x122	2.84kgs

AMG-360 專業指甲研磨機, 雕刻筆刀 Mini Grinder-Pen Type Power Tool



- 可調整轉速3000~13000R. P. M
- 可依需求更換鑽頭
- 附2.34/3.0mm柄夾頭各1支
鑽石磨棒5支

轉速 R. P. M.	電壓 Voltage	輸出電力來源 Power Output	夾頭 Collet Chuck Size	尺寸 WxDxH (mm)	重量 Weight
4,000~16,500	AC100V-240V-10W	50/60 Hz .1ph	φ 0.3~3.2mm	24x139mm	147g

REX-6868 電動超音波研磨機 CE



- ★ 超音波/電動旋轉雙功能型，雙插座可分開使用。
- ★ 超強80瓦輸出功率以每秒約40,000高速音波震動，效率高，大幅縮短研磨拋光時間。
- ★ 超音波的震動力道較氣動銼磨機小，適用各種模具的細部及特殊形狀加工，對於寶石加工及電子類模具更為適合，每組加附手工具機座。
- ▲ Dual functions Ultrasonic and Mechanical polishing.
- ▲ 80W High Output rating for the most demanding applications.
- ▲ Each unit included 1 each of Ultrasonic handpiece, Foot switch, power cord. 2pcs of cradle and tool kits.
- ▲ Motor hand types are also available as separate option(AG-102L).

REX-6868	輸入電壓 Power Input	發振頻率 OSC Frequency	消耗功率 Power Output	輸出功率範圍 Output Power Range	尺寸 Size (mm)	重量 (KG)
	AC 90V~ 240V (60/50 Hz)	18K Hz ~ 40K Hz AUTO SWEEP	80w max	超音波出力： 8w~45w 電動工具： DC 7V~35V(1Amp)	寬x長x高 170x240x140	2.5kg
EX-H04	超音波手機/ Ultrasonic Handpiece			研磨頭拆卸工具組/ Tool Kits		
	行程	研磨頭牙距	重量	開口扳手	六角扳手	
	3~50um	m8xp1.0mm	260g	#10 and #12	#2.5	

REX-5858 電動超音波研磨機 CE



★ 超音波及電動手機雙功率輸出，提供您多重功能之各種研磨及拋光作業。

★ 最大45瓦之輸出，提供高效率的研磨、拋光性能。

★ 無段超音波輸出，滿足各種加工需求。

▲ Dual function (Ultrasonic / Mechanical) allow for varieties of grinding and polishing application.

▲ 45W Max output, provides excellent polishing and finishing performance.

▲ Step-less ultrasonic output for all types of grinding and polishing works.



REX-5858	輸入電壓 Power Input	發振頻率 OSC Frequency	消耗功率 Power Output	輸出功率範圍 Output Power Range	尺寸 Size (mm)	重量 (KG)
	AC 90V~ 240V (60/50 Hz)	18K Hz ~ 30K Hz AUTO SWEEP	45w max	超音波出力： 3w~40w 電動工具： DC 5V~30V(1Amp)	寬×長×高 150x250x130	2.5kg
EX-H04	超音波手機 / Ultrasonic Handpiece			研磨頭拆卸工具組 / Tool Kits		
	行程	研磨頭牙距	重量	開口扳手	六角扳手	
	16~50um	m8xp1.0mm	260g	#10 and #12	#2.5	

Ultrasonic Lapping Machine

REX-2828 電動經濟型超音波研磨機 CE



新品

40W

- ★本機為超音波單功能型，價格實惠適合各種加工需求。
- ★最大輸出功率為40瓦高速音波震動。
- ★可用於各種模具的細部及特殊形狀之加工，尤其使用於寶石加工及電子類模具更為適合。
- ★無段式腳踏開關系統。
- ▲ Ultrasonic functions with vastly improved reliability and performance.
- ▲ 40W Max output, easily handle most general grinding and polishing tasks.
- ▲ On/Off foot switch free speed.

REX-2828	輸入電壓 Power Input	發振頻率 OSC Frequency	消耗功率 Power Output	輸出功率範圍 Output Power Range	尺寸 Size (mm)	重量 (KG)
	AC110V (60/50 Hz) AC230V (60/50 Hz)	25K Hz ~ 40K Hz AUTO SWEEP	40w max	超音波出力： 5w~35w	寬×長×高 140x190x95	1.6kg (±0.2kg)
EX-H01	超音波手機 / Ultrasonic Handpiece			研磨頭拆卸工具組 / Tool Kits		
	行程 Travel	研磨頭牙距 Grinding Head Thread Dis.	重量 Weight	開口扳手 Open Wrench	六角扳手 Hexagon wrench	
	16~37um	m8x1.0mm	200g(±30g)	#10 and #11	#1.5 and #2.5	

SF-1000 日本製超音波研磨機 **CE**



Simple and Compact **SF-1000** Oscillator

■ Maximum power output is 30 W. This model enables infinite adjustment of power output between minimum and maximum. The automatic frequency-tracking circuit and amplitude control circuit ensure stable vibration amplitude at all times. Simple and easy operation can be realized with just the power supply switch and power output knob.

■ Tools can be attached by one-handed tightening with an 8 mm wrench. Processing can be adjusted freely such that strong vibrations are used for cutting of rough surfaces and weak vibrations are used for detailed mirror finish.

30W

SF-1600 Transducers

This small size hand-piece was designed for ease of use and excellent durability. A tool can be attached with only one wrench. Only SONOFILE dedicated M4 tools are applicable.

Attachments



- ★本機為超音波單功能型，價格實惠適合各種加工之需求。
- ★最大輸出功率為30瓦高速音波震動。
- ★可用於各種模具的細部及特殊形狀之加工，尤其使用於寶石加工及電子類模具更為適合。
- ★無段式腳踏開關系統。

SF-1000	輸入電壓 Power Input	發振頻率 OSC Frequency	消耗功率 Power Output	輸出振幅範圍 Amplitude	尺寸 Size (mm)	重量 (KG)
	AC100V (60/50 Hz) AC240V (60/50 Hz)	20 ~ 30K Hz AUTO SWEEP	30w max	4-40 micrometers	W×L×H 142x200x130	1.9kg
SF-1600	超音波手機 / Ultrasonic Handpiece			研磨頭拆卸工具組 / Tool Kits		
	手機尺寸 Outer dimensions	研磨頭牙距 Grinding Head Thread Dis.	重量 Weight	開口扳手 Spanner	六角扳手 Hexagon wrench	
	φ 18/27×128.5L(mm)	M4 with adaptor	150g	M8,M10,M13	M2.5	

UF-2600 日本製超音波研磨機 CE



High-power ultrasound SF-2600 Oscillator

- Maximum power output is 45 W. The “ORDINARY TOOL” mode enables the full range of MIN-MAX power output. The “CLAMP TOOL” mode enables the half range. Each mode enables infinitive adjustment of power output between minimum and maximum.
- The unique amplitude control circuit automatically detects the operation conditions and ensures stable vibration amplitude at all times.
- Center frequency, 24 kHz; area coverage, 20-30 kHz. The operation is simplified by employing soft touch-push button switches, easily viewable display lamps, and an electronic buzzer.
- You can concentrate your fine work, since a foot switch (optional) and a foot controller (optional) can be used for turning on/off and adjusting power output.

45W



★最大45瓦之輸出，提供高效率的研磨、拋光性能。

★超音波的震動力道較氣動銼磨機小，適用各種模具的細部及特殊形狀加工，對於寶石加工及電子類模具更為適合，每組加附手工具機座。

★無段超音波輸出，及自動追尾頻率以滿足各種加工需求。

SF-2600	輸入電壓 Power Input	發振頻率 OSC Frequency	消耗功率 Power Output	輸出振幅範圍 Amplitude	尺寸 Size (mm)	重量 (KG)
	AC100V (60/50 Hz) AC250V (60/50 Hz)	20 ~ 30K Hz AUTO SWEEP	45w max	4-40 micrometers	W×L×H 178x210x154	2.4kg (±0.2kg)
SF-9700	超音波手機 / Ultrasonic Handpiece			研磨頭拆卸工具組 / Tool Kits		
	手機尺寸 Outer dimensions	研磨頭牙距 Grinding Head Thread Dis.	重量 Weight	開口扳手 Spanner	六角扳手 Hexagon wrench	
	φ 15/28×128L(mm)	M4 and M6 with adaptor	130g	M8,M10,M13	M2.5	

UF-5600 日本製超音波研磨機 CE



High-power ultrasound, in cooperation with a rotary electric transducer
SF-5600 Oscillator

- Center frequency, 24 kHz; area coverage, 20–30kHz.
- The operation is simplified by employing soft touch-push button switches, easily viewable display lamps, and an electronic buzzer.
- An exclusive circuit adds automatic recovery from overloads to the high-speed and high-torque power supply for the electric drive. You can continue your work without needing to reset.
- You can concentrate your fine work, since a foot switch (optional) and a foot controller (optional) can be used for turning on/off and adjusting power output.



45W

- ★ 超音波/電動旋轉雙功能型，雙插座可分開使用。
- ★ 超音波的震動力道較氣動銼磨機小，適用各種模具的細部及特殊形狀加工，對於寶石加工及電子類模具更為適合，每組加附手工具機座。
- ★ 無段超音波輸出，及自動追尾頻率以滿足各種加工需求。

SF-5600	輸入電壓 Power Input	發振頻率 OSC Frequency	消耗功率 Power Output	輸出振幅範圍 Amplitude	尺寸 Size (mm)	重量 (KG)
	AC100V (60/50 Hz) AC250V (60/50 Hz)	20 ~ 30K Hz AUTO SWEEP	45w max DC 0~30 volts	4-40 micrometers	W×L×H 162x280x210	3.7kg
SF-9700	超音波手機 / Ultrasonic Handpiece			研磨頭拆卸工具組 / Tool Kits		
	手機尺寸 Outer dimensions	研磨頭牙距 Grinding Head Thread Dis.	重量 Weight	開口扳手 Spanner	六角扳手 Hexagon wrench	
	φ 15/28×128L(mm)	M4 and M6 with adaptor	130g	M8,M10,M13	M2.5	

ARGOFILE — EX 專業電動拋光研磨機 CE



型號 Model	輸入電壓 Power Input	輸出電力來源 Output	保險絲 Fuse (max)	輸出插座 Output socket	尺寸 Size (mm)	重量 (KG)
EXP-120	120V (60/50 Hz)	DC 30V	0.3A×2	2 個獨立可調	200(W)	2.3kg
EXP-230	230V (60/50 Hz)				180(D)	

Controller

Controller Features

微電腦控制器

Micro Computer Control
micro computer is built-in and enables to make smooth operation. This will control the best torque for each motor automatically.

負載指示燈

Load indicator
8 steps load indicator allows operator to see the condition clearly. For longer life time, it will be cautioned for overwork.

操作音量控制

Operation volume control
it sounds beeping when pushing button, and also when overworks for cautions. It is possible to adjust sound volume as vol.3, vol.2, vol.1 and none.

無段速腳踏板

Auto Cruise Foot Pedal

It is possible to fix the rotation speed when using foot pedal and it is not necessary to keep stepping foot pedal.



功能選擇

Mode Selection

Controller automatically finds motor on A or B. It is also possible to use foot pedal only connecting to controller.



weight : 2.3kgs
Size : 200(W) × 180(D) × 110(H)

轉速指數表

Digital Rotation Display

2 digit display can be used for easy adjustment of rotation speed. Appropriate rotation speed for each tool brings out the best performance.

錯誤代碼警示

Error Code

When heating up overload and defective of motor cord, error code is displayed for each trouble shooting.

安全警示

Self Diagnostic Function

Controller checks the condition of motor and controller for safety reason. When heating up, fan inside the controller start automatically to reduce the temperature.



MICROMOTOR SYSTEM MAXIMA EX



旋轉式超高速研磨機

編號/Model No.	EX-051
轉速/Free speed	55,000 rpm
最大扭矩/Max. torque	3.6 N.cm
尺寸/Size	153(L)x 27.5mm(D)
重量/Weight	190 g
頭部+馬達/Head+Motor	JA15+EX05



旋轉式高速研磨機

編號/Model No.	EX-131
轉速/Free speed	35,000 rpm
最大扭矩/Max. torque	5.4 N.cm
尺寸/Size	164(L)x 27.5mm(D)
重量/Weight	220 g
頭部+馬達/Head+Motor	JA15+EX13



旋轉式精密研磨機

編號/Model No.	EX-121
轉速/Free speed	20,000 rpm
最大扭矩/Max. torque	6.4 N.cm
尺寸/Size	164(L)x 27.5mm(D)
重量/Weight	220 g
頭部+馬達/Head+Motor	JA15+EX12



旋轉式高扭力研磨機

編號/Model No.	EX-201
轉速/Free speed	8,000 rpm
最大扭矩/Max. torque	9.8 N.cm
尺寸/Size	176(L)x 31.5mm(D)
重量/Weight	276 g
頭部+馬達/Head+Motor	JA15+EX20



旋轉式低扭力研磨機

編號/Model No.	EX-211
轉速/Free speed	15,000 rpm
最大扭矩/Max. torque	8.8 N.cm
尺寸/Size	176(L)x 31.5mm(D)
重量/Weight	276 g
頭部+馬達/Head+Motor	JA15+EX21



旋轉式精密研磨機

編號/Model No.	EX-231
轉速/Free speed	30,000 rpm
最大扭矩/Max. torque	6.8 N.cm
尺寸/Size	176(L)x 31.5mm(D)
重量/Weight	276 g
頭部+馬達/Head+Motor	JA15+EX23



90°角型旋轉式研磨機

編號/Model No.	EX-216
轉速/Free speed	15,000 rpm
最大扭矩/Max. torque	8.8 N.cm
尺寸/Size	160.5(L)x 31.6(φ)x 45.5mm(H)
重量/Weight	370 g
頭部+馬達/Head+Motor	JR21+EX21



120°角型旋轉式研磨機

編號/Model No.	EX-217
轉速/Free speed	15,000 rpm
最大扭矩/Max. torque	8.8 N.cm
尺寸/Size	169.5(L)x 31.6(φ)x 47.5mm(H)
重量/Weight	380 g
頭部+馬達/Head+Motor	JS21+EX21



左右振動銼刀研磨機

編號/Model No.	EX-208
轉速/Free speed	8,000 rpm
最大扭矩/Max. torque	9.8 N.cm
尺寸/Size	182(L)x 31.6mm(D)
重量/Weight	310 g
頭部+馬達/Head+Motor	JP11+EX20



往覆式銼刀研磨機

編號/Model No.	RE-35
往覆行程/Linear Stroke	0~6 mm
往覆頻率/Frequency	4,200 Strokes/min
尺寸/Size	140(L)x 128mm(H)
重量/Weight	675 g



往覆式銼刀研磨機

編號/Model No.	RE-55
往覆行程/Linear Stroke	0~2 mm
往覆頻率/Frequency	7,000 Strokes/min
尺寸/Size	140(L)x 128mm(H)
重量/Weight	675 g



迴轉式砂布研磨機

編號/Model No.	BS-33
轉速/Belt speed	5-12 m/sec
環帶尺寸/Size of Belt	4~ 8mm(W)
尺寸/Size	160(L)x 119mm(H)
重量/Weight	400 g

Accessories/選購配件



VC90/ 腳踏開關
Speed Control Foot Pedal
Suitable for EXP-120/230



KE50-155/ 延伸線
Handpiece extension cord
Length : 3.0 meters



KE50-156/ 轉換配線
Adaptor for PA111/113



TRCO2/ 工具擱置塊
Handpiece Cradle



編號/Model No.	UT15(1/4減速)
夾頭/Standard Collet	2.35, 3.0 mm
尺寸/Size	43.5(L)x 26.0(D)mm
重量/Weight	150 g
適用機型/ Applicable motor	EX20, EX21, EX23
(Connected between the motor and head for four times torque and reduce speed one fourth)	

ARGOFILE



Detachable head



Hand Switch

It is easy to start and stop by Hand Switch.
It is not necessary to push the button on the controller.

Head 頭部機型



編號/Model No.	JA15(標準型)
夾頭/Standard Collet	3.0 mm
尺寸/Size	86.5(L)x 25.8mm(D)
重量/Weight	100 g
適用機型/Applicable motor	EX20, EX21, EX23

編號/Model No.	JA33(強力型)
夾頭/Standard Collet	6.0 mm
尺寸/Size	95.0(L)x 26.4mm(D)
重量/Weight	150 g
適用機型/Applicable motor	EX20, EX21, EX23

編號/Model No.	JA45(細長型)
夾頭/Standard Collet	3.0 mm
尺寸/Size	121.0(L)x 25.8mm(D)
重量/Weight	120 g
適用機型/Applicable motor	EX20, EX21, EX23



編號/Model No.	JR21(90°度)
夾頭/Standard Collet	2.35, 3.0 mm
尺寸/Size	80.5(L)x 25.4(D)x 45.5(H)mm
重量/Weight	200 g
適用機型/Applicable motor	EX20, EX21

編號/Model No.	JS21(120°度)
夾頭/Standard Collet	2.35, 3.0 mm
尺寸/Size	89.5(L)x 25.4(D)x 47.5(H) mm
重量/Weight	210 g
適用機型/Applicable motor	EX20, EX21

編號/Model No.	JP11(左右搖擺)
夾頭/Standard Collet	2.0 ~ 4.7mm
尺寸/Size	102.0(L)x 26.0mm(D)
重量/Weight	140 g
適用機型/Applicable motor	EX20

Motor 電動馬達



編號/Model No.	EX-05
轉速/Free speed	55,000 rpm
最大扭力/Max. torque	3.6 N.cm
尺寸/Size	66.5(L)x 27.5mm(D)
重量/Weight	90 g

編號/Model No.	EX-12
轉速/Free speed	20,000 rpm
最大扭力/Max. torque	6.4 N.cm
尺寸/Size	77.0(L)x 27.5mm(D)
重量/Weight	120 g

編號/Model No.	EX-13
轉速/Free speed	35,000 rpm
最大扭力/Max. torque	5.4 N.cm
尺寸/Size	77.0(L)x 27.5mm(D)
重量/Weight	120 g



編號/Model No.	EX-20
轉速/Free speed	8,000 rpm
最大扭力/Max. torque	9.8 N.cm
尺寸/Size	89.3(L)x 31.5mm(D)
重量/Weight	176 g

編號/Model No.	EX-21
轉速/Free speed	15,000 rpm
最大扭力/Max. torque	8.8 N.cm
尺寸/Size	89.3(L)x 31.5mm(D)
重量/Weight	176 g

編號/Model No.	EX-23
轉速/Free speed	30,000 rpm
最大扭力/Max. torque	6.8 N.cm
尺寸/Size	89.3(L)x 31.5mm(D)
重量/Weight	176 g