

ARGOFILE

ARGOFILE JAPAN LIMITED

Revolutionize your grinding experience with **ARGOFILE TOOLS**

Ultraform/Micromotor System/
Air Grinder/NewSuper Stone



- **Ultraform UF-0103/SF-355/ST-360** P.2 - 4, P.6 - 9
- **Ultraform Accessories** P.5, P.10 - 25
- **Micromotor System MAXIMA NEO** P.26 - 31
- **Micromotor System MAXIMA EX** P.32 - 41
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ULTRAFORM Series

► ULTRAFORM UF-0103

ULTRAFORM UF-0103 is the Ultrasonic Polishing Machine which is very powerful. As the main features, you can feel the very strong ultrasonic function with the aggressive polishing power and the powerful DC motor hand piece with the amazing torque output. On the other hand, the ultra-fine polishing and the manual delicate work can be made comfortably. The delicate polishing work that was possible only by hand work can be very easily done with UF-0103.



UF-0103 (Standard item)

PHP35 (Standard item)

UF-9705 (Standard item)

UF-7405 (Optional item)

Highly Powerful Polishing with Output of 100W

The control function of the Oscillator (Controller) has been improved, and by using a large-sized transducer (optional item UF-7405), a wide surface can be rough-grinding with ultrasonic waves at once. The standard supplied DC motor handpiece (PHP35) can maintain a higher level of rotational torque than the conventional model.



Conventional machine

45W



POWER
UP



UF-0103

100W



ULTRAFORM Series

► ULTRAFORM UF-0103

Features and Advantages

UF-0103 supports your works such as rough polishing, grinding, removing the machined deformation layer due to EDM, ultra fine polishing, delicate and finishing works in the Mold & Die field.

Polishing Mode (Hard Mode & Soft Mode) NANO Function

Hard Mode keeps vibration constantly against the processing pressure and powerful polishing can be made. Soft Mode automatically weakens vibration according to the processing pressure to prevent damage to the workpiece.

Ultra-fine vibration under 1 μm of amplitude in NANO Function makes the ultrasonic polishing up to the finishing process which was not possible until now and shorten the work time drastically.



TOUCH Function

TOUCH Function ultrasonically vibrates with extremely small amplitude, and when the tip tool comes into contact with the workpiece, it amplifies to the specified amplitude. Also, when the tip tool moves away from the workpiece, it returns to its extremely small amplitude. It prevents damage due to unexpected contact during machining.



User-Friendly LCD Window

The settings and work status are displayed on LCD Window in real time.



Continuous operation

By supplying the cooling air to the transducer when working for a long time or under heavy load, the heat operation can be done.

* Use dry air that does not contain oil.

2 types of transducers with different characteristics

Small-sized transducer UF-9705 (standard item) has the advantage of operability and versatility.

Large-sized transducer UF-7405 (optional item) can aggressively grind and polish in the wide range.



ULTRAFORM Series

► ULTRAFORM UF-0103

UF-0103 Oscillator (Controller)



Front side



Rear side

Power supply	Single phase AC100-120V AC200-240V 50/60 Hz
Max. Output	100W (Ultrasonic) DC30V 4A (DC Motor)
Power consumption	300VA
Frequency	17-31Hz
Amplitude adjustment	99 steps (Ultrasonic) 30 steps (DC Motor)
Dimensions	W: 180 mm D : 252 mm H : 215 mm
Weight	5.3 kgs

PHP35 DC Motor Hand piece (Standard supplied item)



Rotation speed	0 - 35,000 rpm max.
Torque output	6.5 Ncm
Motor cord length	1.5 M
Dimensions	φ 26mm x L150mm
Weight	200 grams

UF-9705 Ultrasonic transducer (Standard supplied item)



Dimensions	φ 28mm x L128.5mm
Weight	260 grams
Cable length	1.7 M
Screw thread	M6 (with M6-M4 Adaptor)

UF-7405 Ultrasonic transducer (Optional item)



Dimensions	φ 40mm x L150mm
Weight	450 grams
Cable length	1.7 M
Screw thread	M8

No. UF-7116

On / Off Foot switch (Optional item)



This is the Foot switch that can be switched on and off in the ultrasonic function.

VC90

Variable Foot controller (Optional item)



This is the Foot controller that can control the strength of the output according to the degree of stepping on. In the DC motor function,

Auto Cruise Function

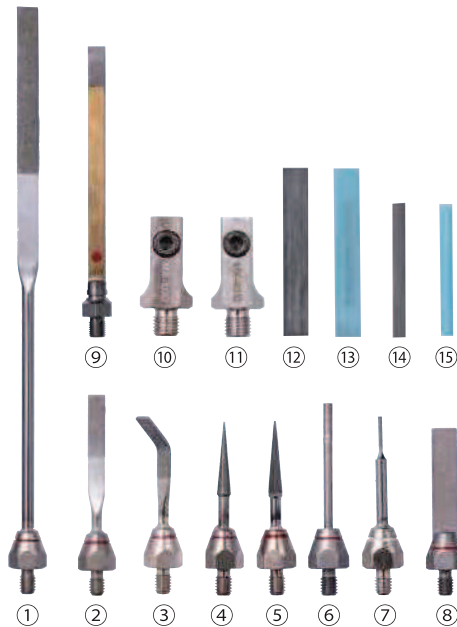


Auto Cruise Function constantly controls the rotation speed of DC motor hand piece in the use of VC90 to reduce the burden on your feet.

ULTRAFORM Series

► STANDARD TOOLS and ACCESSORIES FOR UF-0103

For UF-9705 Standard Transducer



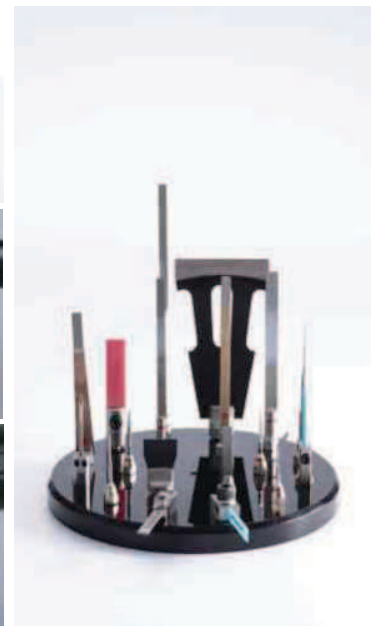
- ① SE-8851 Diamond file Flat Square
1.0t x 5w x 124L #200 (M4)
- ② SE-5845 Diamond file Flat Square
0.8-0.3t x 4w #200 (M4)
- ③ SE-7841 Diamond file Flat with angle
1.0t x 4w 45° #200 (M4)
- ④ SE-6803 Diamond file Cone
3.0 dia. #200 (M4)
- ⑤ SE-3803 Diamond file Trigonal pyramid
3.0Δ #200 (M4)
- ⑥ SD-1802 Diamond stone Cylinder
2.0 dia. #200 (M4)
- ⑦ SE-9801 Diamond file Cylinder
1.0 dia. #200 (M4)
- ⑧ SD-4862 Diamond stone Flat Square
1.5t x 6w #200 (M4)
- ⑨ MD-8862-C1 Diamond file Flat Square
1.5t x 5w x 81L #200 (M4)
- ⑩ MX-1030 Tool clamps
For 3.0 dia. (M6)
- ⑪ MX-4010 Tool clamps
For 1.0t (M6)
- ⑫ NSP106F Ceramic stone Flat
1.0t x 6w x 40L #600
- ⑬ NSB106F Ceramic stone Flat
1.0t x 6w x 40L #800 Blue
- ⑭ NSPD3F Ceramic stone Round
3.0 dia. #600 Brown
- ⑮ NSBD3F Ceramic stone Round
3.0 dia. #800 Blue

For UF-7405 Large-sized Transducer



- ① LD-0721 Diamond stone
1.0t x 20w #320 (M8)
- ② LX-4020-1 Tool clamps
For 2.0t (M8)
- ③ LD-0762 Diamond stone
2.5t x 60w #320 (M8)
- ④ NSP212F Ceramic stone Flat
2.0t x 12w #600 Brown
- ⑤ NSB212F Ceramic stone Flat
2.0t x 12w #800 Blue

* Unit in Size : mm



ULTRAFORM Series

► ULTRAFORM UF-0103

With MAXIMA EX Series

As the additional items, why not try using MAXIMA EX Series with UF-0103 ? The various kinds of the hand pieces are prepared in MAXIMA EX Series.



Straight Rotary Hand piece (EX051, EX121, EX131, EX201, EX211, EX231)



EX051	EX121	EX131	EX201	EX121	EX131
■ Max.RPM : 55,000	■ 20,000	■ 35,000	■ 8,000	■ 15,000	■ 30,000
■ Max.Torque : 3.6Ncm	■ 6.4Ncm	■ 5.4Ncm	■ 9.8Ncm	■ 8.8Ncm	■ 6.8Ncm
■ Weight : 190g	■ 220g	■ 220g	■ 276g	■ 276g	■ 276g

90 ° Angle Rotary Hand piece (EX216)



- Max.RPM : 15,000
- Max.Torque : 8.8Ncm
- Weight : 386g

120 ° Angle Rotary Hand piece (EX217)



- Max.RPM : 15,000
- Max.Torque : 8.8Ncm
- Weight : 386g

Swingfile (EX208)



- Stroke : 0 ~ 1.6mm
- Reciprocating stroke : 0~8,000 times/min.
- Allowable tool size : ϕ 2 ~ 4.7mm
- Weight : 316g

ULTRAFORM Series

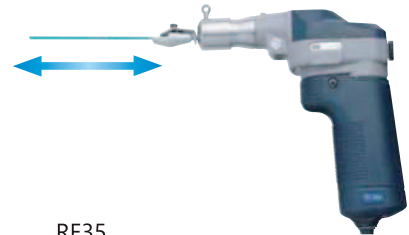
► ULTRAFORM UF-0103

With MAXIMA EX Series

RE35 and RE55 are the back and forth reciprocating type handpiece with adjustable stroke, which is exactly the tool required for mold polishing.



Reciprofile (RE35, RE55)



RE35

- Stroke : 0 ~ 6 mm
- Frequency : 0 ~ 4,200 stroke/min.
- Allowable tool size : ϕ 2 ~ 6.35mm
- Weight : 675g

RE55

- Stroke : 0 ~ 2 mm
- Frequency : 0 ~ 7,000 stroke/min.
- Allowable tool size : ϕ 2 ~ 6.35mm
- Weight : 675g

BS33 is suitable for deburring work on flat and curved surfaces and rotating round bar-shaped workpieces for lapping work.



Belt Sander (BS33)



BS33

- Belt Speed : 5 ~ 12m/sec.
- Standard Belt Arm : BS1-100-2
- Cord length : 150mm
- Weight : 400g

ULTRAFORM Series

► SONOFILE SF-355

SF-355 Oscillator (Controller)



Power supply	Single phase AC100-120V AC200-240V 50/60 Hz
Max. Output	45W (Ultrasonic)
Power consumption	150VA
Frequency	20-24Hz
Amplitude adjustment	Continuous variable control
Dimensions	W: 130 mm D : 250 mm H : 230 mm
Weight	2.6 kgs

UF-7083

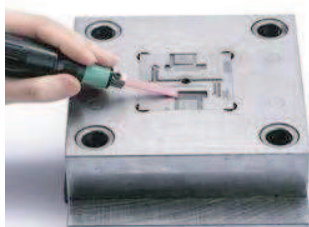
On / Off Foot switch (Optional item)



HP-9706 Ultrasonic transducer (Standard supplied item)



Dimensions	φ 28mm x L128.0mm
Weight	150 grams
Screw thread	M6 (with M6-M4 Adaptor)



SF-355 is the small-sized but the rough polishing and fine polishing can be done. It can easily polish the portion where is hard to polish by hand or the narrow grooves finished by EDM.

Continuous operation for SF-355/ST-360

By supplying the cooling air to the transducer when working for a long time or under heavy load, the heat generation is suppressed and continuous operation can be done.

* Use dry air that does not contain oil.

ULTRAFORM Series

► SonoCraft ST-360

ST-360 Oscillator (Controller)



Power supply	Single phase AC100-120V AC200-240V 50/60 Hz
Max. Output	45W (Ultrasonic)
Power consumption	150VA
Frequency	20-24Hz
Amplitude adjustment	Continuous variable control
Dimensions	W: 130 mm D : 250 mm H : 230 mm
Weight	2.6 kgs

UF-7083

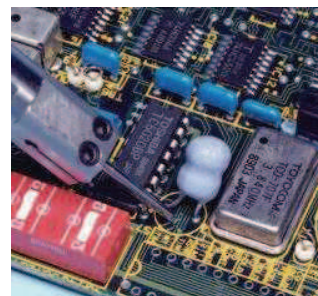
On / Off Foot switch (Optional item)



HP-9706 Ultrasonic transducer (Standard supplied item)



Dimensions	φ 28mm x L128.0mm
Weight	150 grams
Screw thread	M6 (with M6-M4 Adaptor)



Patterns of Oscillation Intervals

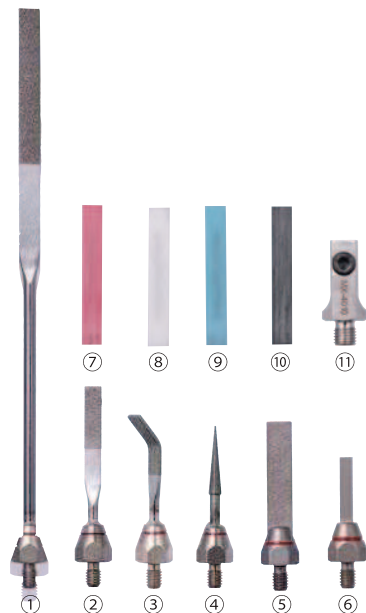
Hammering work can be made by the various oscillation pattern (single, intermittent, continuous). The metal engraving works such as stone setting, scraper, blowhole treatment, hammered mark etc., can be also made.

ST-360 can attach the special tool and can be used for pattern cutting with a line spacing of 0.1 mm for PCB modification and for removal of resist film, and is used for multiple purposes such as fossil cleaning and cutting of strata.

ULTRAFORM Series

► STANDARD TOOLS & ACCESSORIES FOR SF-355/ST-360

For SF-355



- ① SE-8851 Diamond file
1t x 5w #200
- ② SE-5845 Diamond file
0.8-0.3t x 4w #200
- ③ SE-7841 Diamond file
1t x 4w 45° #200
- ④ SE-6803 Diamond file
3.0 dia. #200
- ⑤ SD-4862 Diamond stone
1.5t x 6w #200
- ⑥ SD-4831 Diamond stone
1t x 3w #200
- ⑦ NSR106F Ceramic stone
6w x 1.0t x 40L #1200
- ⑧ NSW106F Ceramic stone
6w x 1.0t x 40L #1000
- ⑨ NSB106F Ceramic stone
6w x 1.0t x 40L #800
- ⑩ NSP106F Ceramic stone
6w x 1.0t x 40L #600
- ⑪ MX-4010 Tool Clamp
for 1.0t (M6)

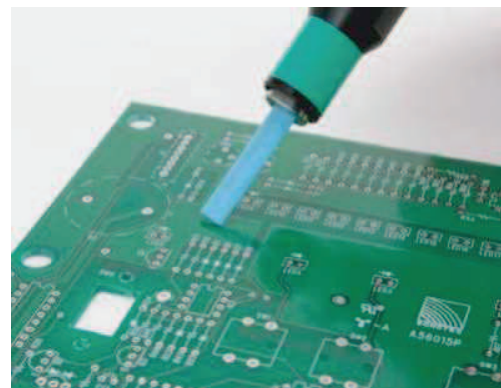


For ST-360 / Multi-purpose Set



- ① SE-8851 Diamond file
1t x 5w #200
- ② SE-5845 Diamond file
0.8-0.3t x 4w #200
- ③ HR-2020 Chisel holder
- ④ TF-1000 Chisel
Flat shape
- ⑤ TR-1000 Chisel
Round shape
- ⑥ TB-3000 Chisel
Burnishing tool
- ⑦ MX-4010 Tool clamps
for 1.0t (M6)
- ⑧ NSP106F Ceramic stone
6w x 1.0t x 40L #600
- ⑨ NSR106F Ceramic stone
6w x 1.0t x 40L #1200

* Unit in Size : mm



ULTRAFORM Series

► STANDARD TOOLS & ACCESSORIES FOR ST-360

For ST-360 / Archaeological Set

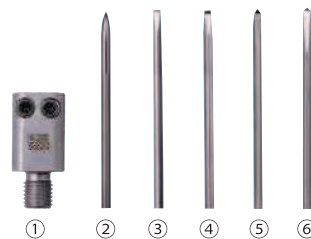


- ① T89160-X2 Curved tool
- ② HB-1004 Blade holder
- ③ HR-2020 Chisel holder
- ④ B-21 Blade
0.4t×38L
- ⑤ B-11 Blade
0.4t×30L
- ⑥ B-14 Blade
0.4t×30L
- ⑦ B-15 Blade
0.4t×24L
- ⑧ B-23 Blade
0.4t×36L
- ⑨ B-10 Blade
0.4t×30L
- ⑩ CS-8120-X3 Ceramic stone
2.0 dia. #800
- ⑪ CS-1568 Ceramic stone
Cylindrical type #1200
- ⑫ CS-1168 Ceramic stone
Cylindrical type #1000
- ⑬ CS-8168 Ceramic stone
Cylindrical type #800

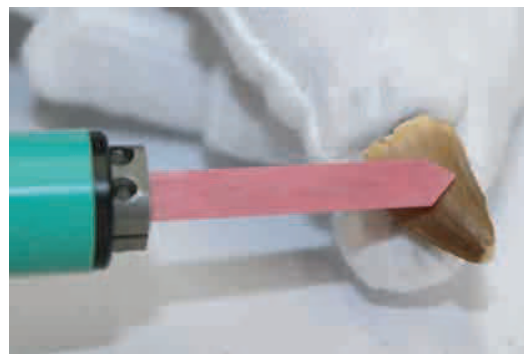
* Unit in Size : mm



For ST-360 / Chisel Engraving Set



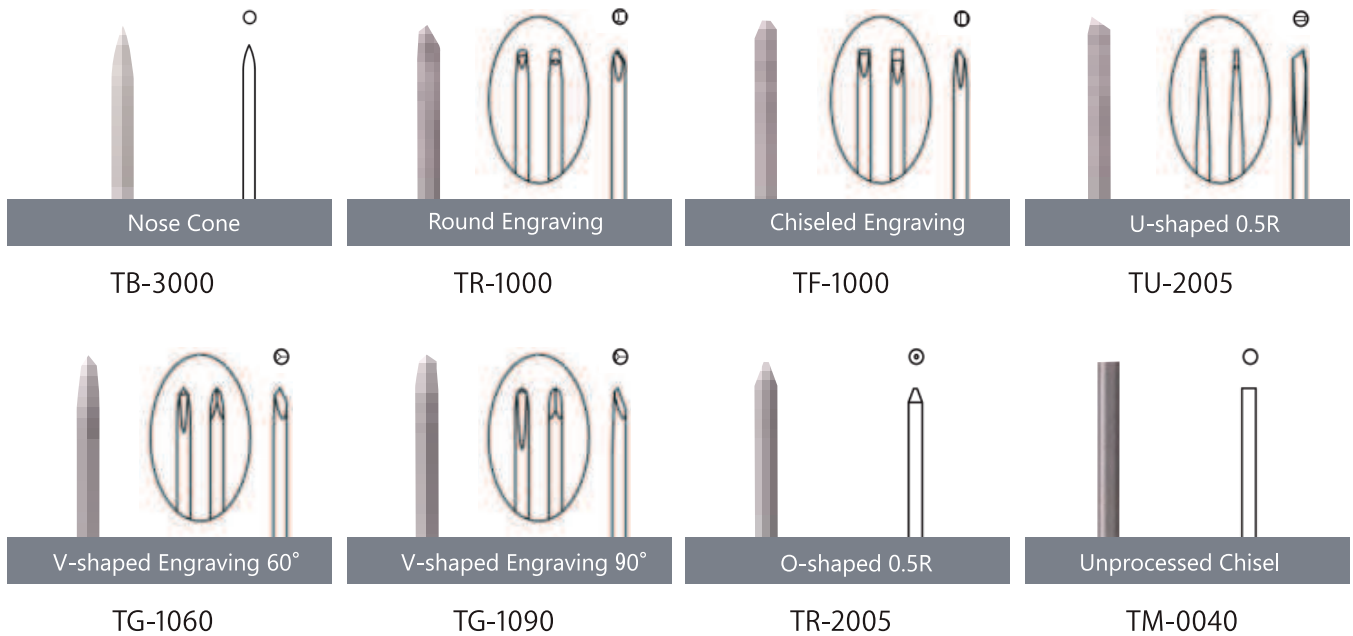
- ① HR-2020 Chisel holder
- ② TB-3000 Chisel
Burnishing tool
- ③ TR-1000 Chisel
Round shape
- ④ TF-1000 Chisel
Flat shape
- ⑤ TG-1060 Chisel
V-Shaper 60°
- ⑥ TG-1090 Chisel
V-Shaper 90°



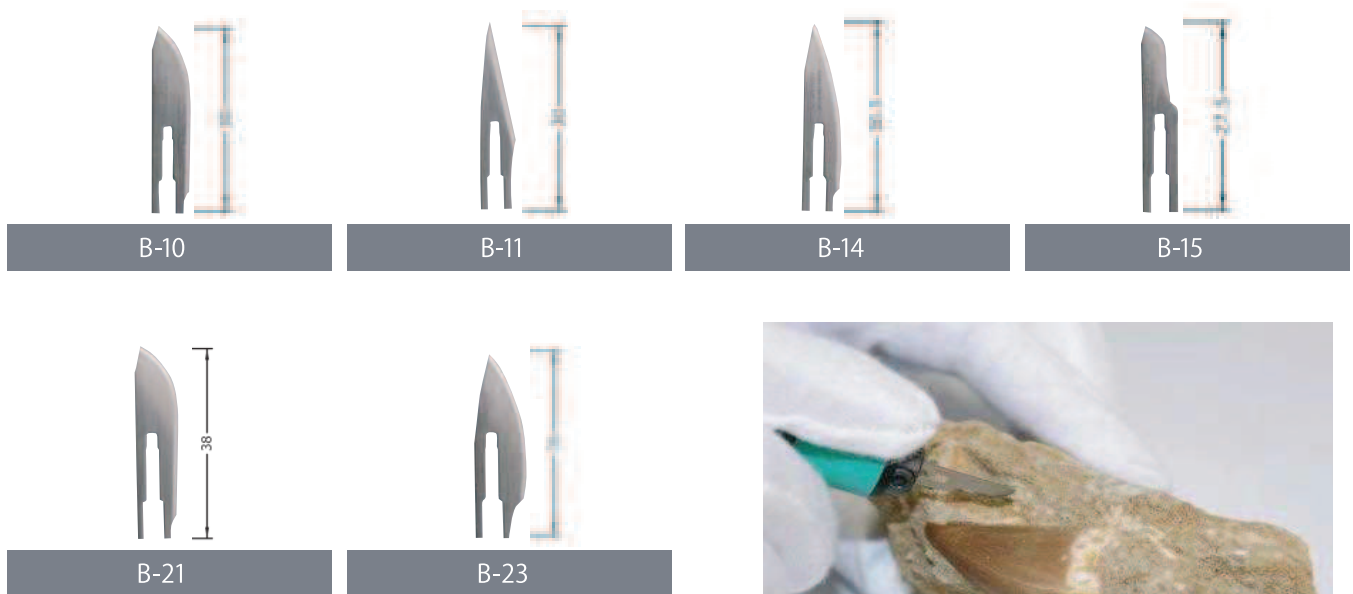
ULTRAFORM Series

► SPECIAL TOOLS FOR ST-360

Tungsten Chisel series L40 ϕ 2.0



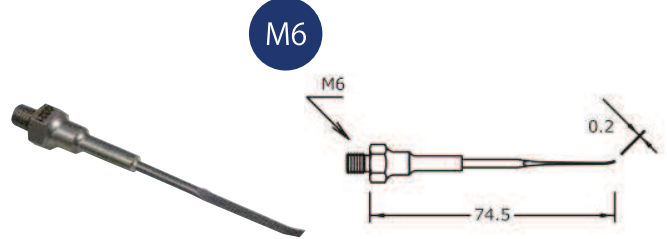
Blade series



ULTRAFORM Series

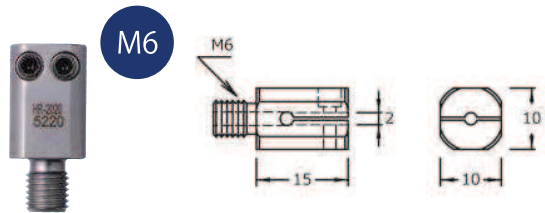
► SPECIAL TOOLS FOR ST-360

Archaeological series

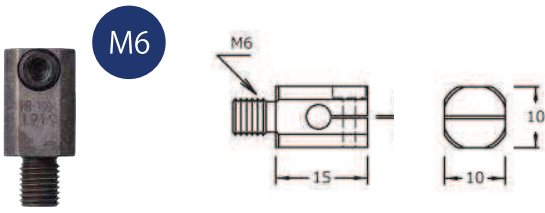


Curved Tool
T89160

Holders



Chisel Holder
HR-2020



Blade Holder
HB-1004



ST-360



Front panel of ST-360

ULTRAFORM Series

► TOOLS & ACCESSORIES


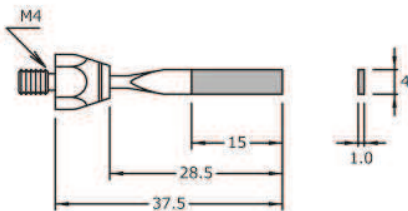
Diamond Files


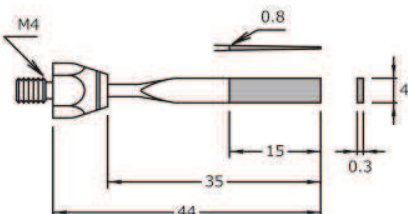
- This is the electroplated diamond files exclusively for ultrasonic polishing, which was developed with an emphasis on electrodeposition strength and grinding power.
- It can be used for rough grinding and deburring of the machined deformation layer due to EDM.
- Various shapes suitable for narrow portion such as rib grooves and small holes are available.

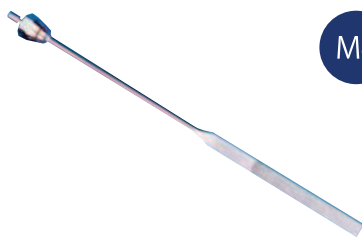
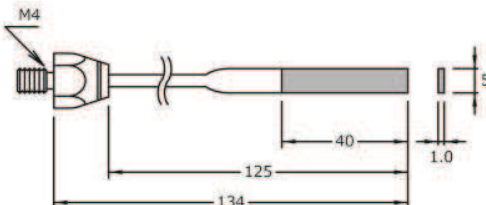
Grain size : #200 (Red), #320 (Black), #600 (White)


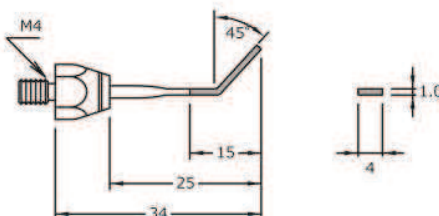
Please note that although the grinding power is large, deep scratches may remain.

● = Screw thread
unit : mm

Flat Square		Tool No.	Grain size
		SE-4841	● 200
		SE-4741	● 320
		SE-4541	○ 600


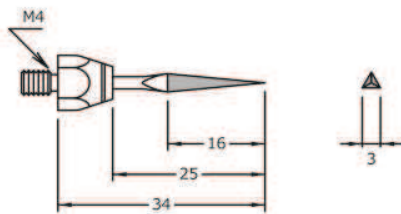
Flat Square / Taper		Tool No.	Grain size
		SE-5845	● 200
		SE-5745	● 320
		SE-5545	○ 600


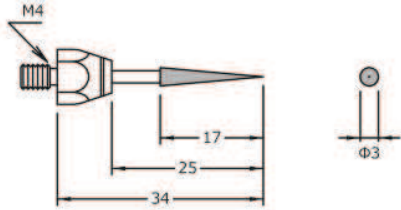
Flat Square / Long shank		Tool No.	Grain size
		SE-8851	● 200
		SE-8751	● 320
		SE-8551	○ 600


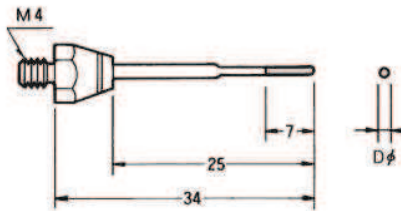
Flat Square / With angle		Tool No.	Grain size
		SE-7841	● 200
		SE-7741	● 320
		SE-7541	○ 600


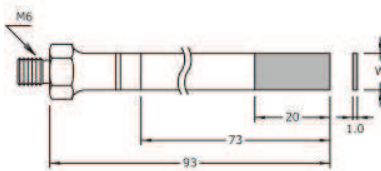
ULTRAFORM Series

► TOOLS & ACCESSORIES

Trigonal pyramid		Tool No.	Grain size
	M4	SE-3803	● 200
		SE-3703	● 320
		SE-3503	○ 600
			

Cone		Tool No.	Grain size
	M4	SE-6803	● 200
		SE-6703	● 320
		SE-6503	○ 600
			

Cylinder		Tool No.	Grain size	D
	M4	SE-9801	● 200	1
		SE-9701	● 320	1
		SE-9501	○ 600	1
		SE-9802	● 200	2
		SE-9702	● 320	2
		SE-9502	○ 600	2
				

Flat Square		Tool No.	Grain size	D
	M6	ME-9851	● 200	5
		ME-9751	● 320	5
		ME-9551	○ 600	5
		ME-9881	● 200	8
		ME-9781	● 320	8
		ME-9581	○ 600	8
				



ULTRAFORM Series

► TOOLS & ACCESSORIES

Diamond Stones (Metal bonded)

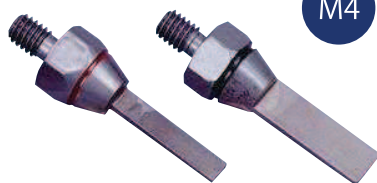
- This is the special tool made by molding and sintering metal powder and diamond particles.
- Since it can be used not only on the surface but also inside, it has a longer life than a diamond file.
- The tip shape can be machined with a GC grinder or diamond file.

Grain size : #200 (Red), #320 (Black), #500 (Blue), #1000 (Green)

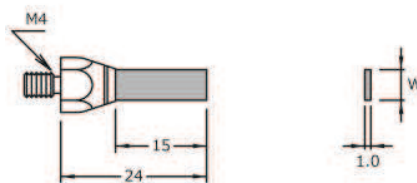
Since thin tools are easy to break, please use with modest machining pressure and amplitude.

● = Screw thread
unit : mm

Flat Square

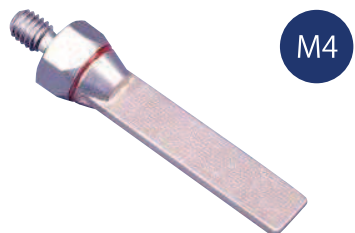


M4

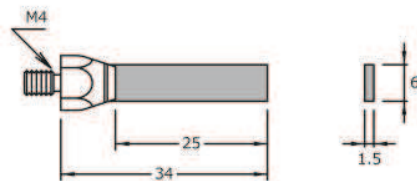


Tool No.	Grain size	W
SD-4831	● 200	3
SD-4731	● 320	3
SD-4631	● 500	3
SD-4331	● 1000	3
SD-4851	● 200	5
SD-4751	● 320	5
SD-4651	● 500	5
SD-4351	● 1000	5

Flat Square



M4

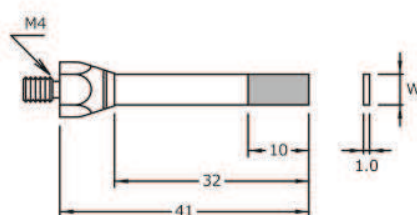


Tool No.	Grain size
SD-4862	● 200
SD-4762	● 320
SD-4662	● 500
SD-4362	● 1000

Flat Square



M4

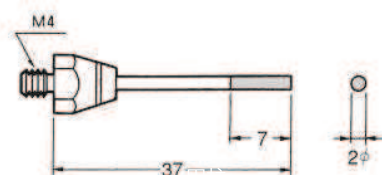


Tool No.	Grain size	W
SD-5831	● 200	3
SD-5731	● 320	3
SD-5851	● 200	5
SD-5751	● 320	5

Cylindrical




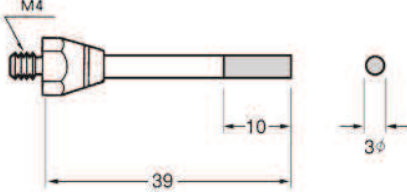
M4

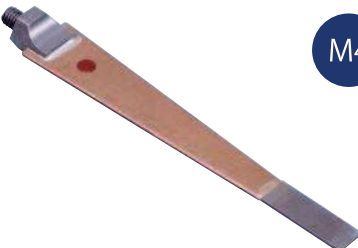
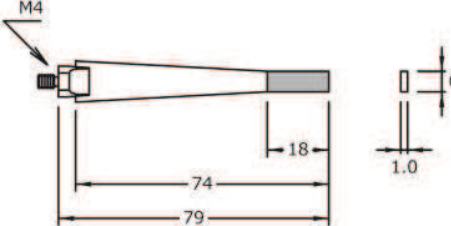



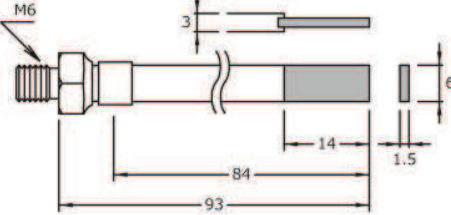
Tool No.	Grain size
SD-1802	● 200
SD-1702	● 320
SD-1602	● 500
SD-1302	● 1000


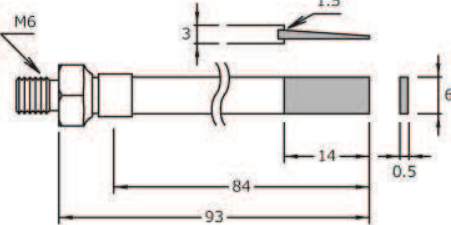
ULTRAFORM Series

TOOLS & ACCESSORIES

Cylinder		Tool No.	Grain size	
	M4		SD-1803	● 200
			SD-1703	● 320
			SD-1603	● 500
			SD-1303	● 1000

Flat Square		Tool No.	Grain size	
	M4		SD-5861	● 200
			SD-5761	● 320

Flat Square		Tool No.	Grain size	
	M6		MD-8862-C1	● 200
			MD-8762-C1	● 320



Flat Square / Taper		Tool No.	Grain size	
	M6		MD-9865-C1	● 200
			MD-9765-C1	● 320



ULTRAFORM Series

► TOOLS & ACCESSORIES



Diamond Stones (Metal bonded)

Flat Square		Tool No.	Grain size
	M8	LD-0721	● 320
Flat Square		Tool No.	Grain size
	M8	LD-0762	● 320

Ceramic Stones

- This is the composite material of Alumina fibers and Thermosetting resin.
 - It shows high grinding power using alumina fibers with good ultrasonic vibration characteristics.
 - The tip shape can be molded with a file or sander.
 - It can finish smoothly even on fine surfaces and delicate portions.
- Grain size : #80 (Violet), #120 (Emerald), #180 (Gold), #300 (Light Brown), #400 (Orange), #600 (Brown), #800 (Blue), #1000 (White), #1200 (Red)

● = Screw thread ■ = Thickness unit : mm

Round type		Tool No.	Grain size
 <div>Φ3.0</div>		NSVD3F	■ 80
		NSVD3F	■ 120
		NSGD3F	■ 180
		NSLD3F	■ 300
		NSOD3F	■ 400
		NSPD3F	■ 600
		NSBD3F	■ 800
		NSWD3F	□ 1000
		NSRD3F	■ 1200

ULTRAFORM Series

► TOOLS & ACCESSORIES

● =Screw thread ■ =Thickness unit : mm


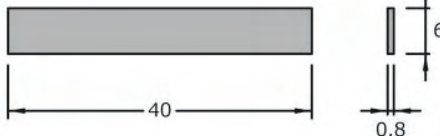
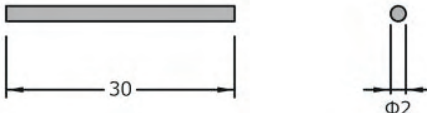

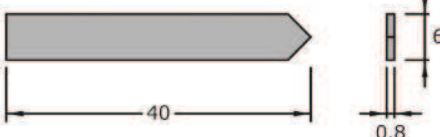
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<div data-bbox="394 1117 526 1180" data-label="Text"> <p>t0.8 t1.0</p> </div> 	<div data-bbox="754 1064 836 1084" data-label="Text"> <p>Flat type</p> </div>  <div data-bbox="754 1406 836 1426" data-label="Text"> <p>Flat type</p> </div> 	<table> <tr> <th>Tool No.</th><th>Grain size</th></tr> <tr><td>NSV084F</td><td>80</td></tr> <tr><td>NSE084F</td><td>120</td></tr> <tr><td>NSG084F</td><td>180</td></tr> <tr><td>NSL084F</td><td>300</td></tr> <tr><td>NSO084F</td><td>400</td></tr> <tr><td>NSP084F</td><td>600</td></tr> <tr><td>NSB084F</td><td>800</td></tr> <tr><td>NSW084F</td><td>1000</td></tr> <tr><td>NSR084F</td><td>1200</td></tr> </table> <table> <tr> <th>Tool No.</th><th>Grain size</th></tr> <tr><td>NSV104F</td><td>80</td></tr> <tr><td>NSE104F</td><td>120</td></tr> <tr><td>NSG104F</td><td>180</td></tr> <tr><td>NSL104F</td><td>300</td></tr> <tr><td>NSO104F</td><td>400</td></tr> <tr><td>NSP104F</td><td>600</td></tr> <tr><td>NSB104F</td><td>800</td></tr> <tr><td>NSW104F</td><td>1000</td></tr> <tr><td>NSR104F</td><td>1200</td></tr> </table>	Tool No.	Grain size	NSV084F	80	NSE084F	120	NSG084F	180	NSL084F	300	NSO084F	400	NSP084F	600	NSB084F	800	NSW084F	1000	NSR084F	1200	Tool No.	Grain size	NSV104F	80	NSE104F	120	NSG104F	180	NSL104F	300	NSO104F	400	NSP104F	600	NSB104F	800	NSW104F	1000	NSR104F	1200
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ULTRAFORM Series

► TOOLS & ACCESSORIES

Ceramic Stones

● =Screw thread ■ =Thickness unit : mm

<div><div>t0.8</div><div>t1.0</div></div> 	Flat type			<table><tr><th>Tool No.</th><th>Grain size</th></tr><tr><td>NSV086F</td><td>■ 80</td></tr><tr><td>NSE086F</td><td>■ 120</td></tr><tr><td>NSG086F</td><td>■ 180</td></tr><tr><td>NSL086F</td><td>■ 300</td></tr><tr><td>NSO086F</td><td>■ 400</td></tr><tr><td>NSP086F</td><td>■ 600</td></tr><tr><td>NSB086F</td><td>■ 800</td></tr><tr><td>NSW086F</td><td>□ 1000</td></tr><tr><td>NSR086F</td><td>■ 1200</td></tr></table>	Tool No.	Grain size	NSV086F	■ 80	NSE086F	■ 120	NSG086F	■ 180	NSL086F	■ 300	NSO086F	■ 400	NSP086F	■ 600	NSB086F	■ 800	NSW086F	□ 1000	NSR086F	■ 1200
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Flat type			<table><tr><th>Tool No.</th><th>Grain size</th></tr><tr><td>NSV106F</td><td>■ 80</td></tr><tr><td>NSE106F</td><td>■ 120</td></tr><tr><td>NSG106F</td><td>■ 180</td></tr><tr><td>NSL106F</td><td>■ 300</td></tr><tr><td>NSO106F</td><td>■ 400</td></tr><tr><td>NSP106F</td><td>■ 600</td></tr><tr><td>NSB106F</td><td>■ 800</td></tr><tr><td>NSW106F</td><td>□ 1000</td></tr><tr><td>NSR106F</td><td>■ 1200</td></tr></table>	Tool No.	Grain size	NSV106F	■ 80	NSE106F	■ 120	NSG106F	■ 180	NSL106F	■ 300	NSO106F	■ 400	NSP106F	■ 600	NSB106F	■ 800	NSW106F	□ 1000	NSR106F	■ 1200	
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NSW106F	□ 1000																							
NSR106F	■ 1200																							
 <div><div>●</div><div>Φ2.0</div></div>	Round type			<table><tr><th>Tool No.</th><th>Grain size</th></tr><tr><td>CS-8120</td><td>■ 800</td></tr></table>	Tool No.	Grain size	CS-8120	■ 800																
	Tool No.	Grain size																						
CS-8120	■ 800																							
 <div><div>t0.8</div></div>	Flat type (Pointed tip)			<table><tr><th>Tool No.</th><th>Grain size</th></tr><tr><td>CS-8168</td><td>■ 800</td></tr><tr><td>CS-1168</td><td>□ 1000</td></tr><tr><td>CS-1568</td><td>■ 1200</td></tr></table>	Tool No.	Grain size	CS-8168	■ 800	CS-1168	□ 1000	CS-1568	■ 1200												
	Tool No.	Grain size																						
	CS-8168	■ 800																						
CS-1168	□ 1000																							
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ULTRAFORM Series

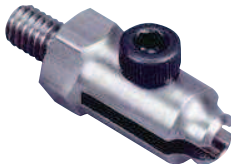




► TOOLS & ACCESSORIES

Tool Clamp / Adaptor

- A tool holder for attaching and using marketed tools in addition to ULTRAFORM standard tools.
- Typical sizes are available for both cylindrical and flat tools.
- Check the tool screw diameter of the transducer and the screw diameter of the Tool Clamps.

※ Since the clamp tool is easily damaged by heat generation, set the ultrasonic output to clamp mode.
(For SF-355 / ST-360, reduce the output to less than half)

● = Tool screw diameter unit : mm




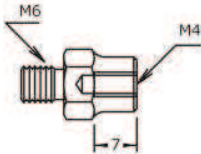
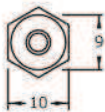

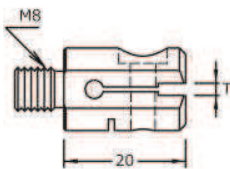

	M4	For cylindrical tools		<table><tr><th>Part No.</th><th>D</th></tr><tr><td>SX-1002</td><td>2</td></tr><tr><td>SX-1024</td><td>2.4</td></tr><tr><td>SX-1003</td><td>3.0</td></tr><tr><td>SX-1033</td><td>3.2</td></tr></table>		Part No.	D	SX-1002	2	SX-1024	2.4	SX-1003	3.0	SX-1033	3.2		
		Part No.	D														
		SX-1002	2														
		SX-1024	2.4														
		SX-1003	3.0														
SX-1033	3.2																
	M4	For flat tools		<table><tr><th>Part No.</th><th>T</th></tr><tr><td>SX-4012</td><td>2.0</td></tr></table>		Part No.	T	SX-4012	2.0								
		Part No.	T														
		SX-4012	2.0														
			M4	For cylindrical tools		<table><tr><th>Part No.</th><th>D</th></tr><tr><td>SX-1004</td><td>4.0</td></tr><tr><td>SX-1005</td><td>5.0</td></tr><tr><td>SX-1006</td><td>6.0</td></tr></table>		Part No.	D	SX-1004	4.0	SX-1005	5.0	SX-1006	6.0		
				Part No.	D												
SX-1004	4.0																
SX-1005	5.0																
SX-1006	6.0																
	M4	For flat tools		<table><tr><th>Part No.</th><th>T</th></tr><tr><td>SX-4008</td><td>0.8</td></tr><tr><td>SX-4011</td><td>1.0</td></tr><tr><td>SX-4021</td><td>2.0</td></tr><tr><td>SX-4031</td><td>3.0</td></tr><tr><td>SX-4033</td><td>3.2</td></tr></table>		Part No.	T	SX-4008	0.8	SX-4011	1.0	SX-4021	2.0	SX-4031	3.0	SX-4033	3.2
		Part No.	T														
		SX-4008	0.8														
		SX-4011	1.0														
		SX-4021	2.0														
SX-4031	3.0																
SX-4033	3.2																
	M6	For cylindrical tools		<table><tr><th>Part No.</th><th>D</th></tr><tr><td>MX-1020</td><td>2.0</td></tr><tr><td>MX-1024</td><td>2.4</td></tr><tr><td>MX-1030</td><td>3.0</td></tr><tr><td>MX-1033</td><td>3.3</td></tr></table>		Part No.	D	MX-1020	2.0	MX-1024	2.4	MX-1030	3.0	MX-1033	3.3		
		Part No.	D														
		MX-1020	2.0														
		MX-1024	2.4														
		MX-1030	3.0														
MX-1033	3.3																

ULTRAFORM Series

► TOOLS & ACCESSORIES

Tool Clamp / Adaptor

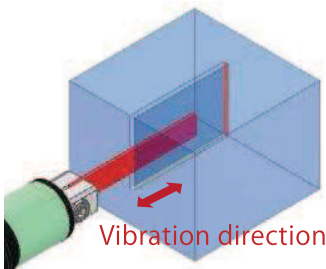
● = Tool screw diameter unit : mm

		M6	For flat tools		<table><tr><th>Part No.</th><th>T</th></tr><tr><td>MX-4008</td><td>0.8</td></tr><tr><td>MX-4010</td><td>1.0</td></tr><tr><td>MX-4020</td><td>2.0</td></tr><tr><td>MX-4030</td><td>3.0</td></tr><tr><td>MX-4033</td><td>3.3</td></tr></table>		Part No.	T	MX-4008	0.8	MX-4010	1.0	MX-4020	2.0	MX-4030	3.0	MX-4033	3.3
Part No.	T																	
MX-4008	0.8																	
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MX-4033	3.3																	
		M6	For flat tools		<table><tr><th>Part No.</th><th>T</th></tr><tr><td>SMAX-2680</td><td>0.1~1.5</td></tr></table>		Part No.	T	SMAX-2680	0.1~1.5								
Part No.	T																	
SMAX-2680	0.1~1.5																	
※ Use the metal shim attached.			M6-M4 conversion adapter		<table><tr><th>Part No.</th><th>T</th></tr><tr><td>MS-0064</td><td></td></tr></table>		Part No.	T	MS-0064									
Part No.	T																	
MS-0064																		
		M6	 															
		M8	For flat tools		<table><tr><th>Part No.</th><th>T</th></tr><tr><td>LX-4020-1</td><td>2.0</td></tr></table>		Part No.	T	LX-4020-1	2.0								
Part No.	T																	
LX-4020-1	2.0																	
			 															

ULTRAFORM Series


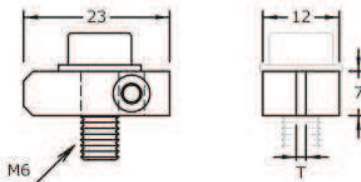
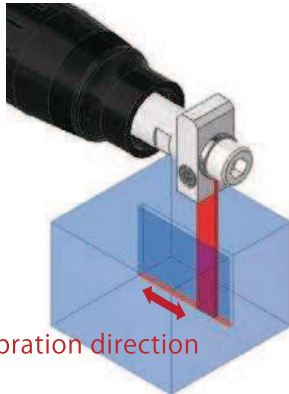
► New concept for polishing fine grooves (Rib grooves)


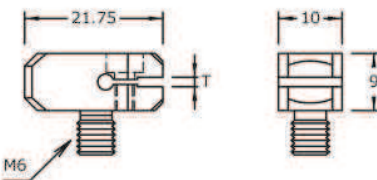
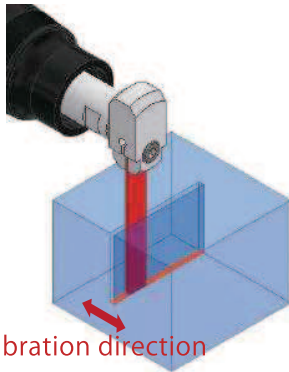
Conventional ultrasonic vibrations are good at polishing the sides of ribs by applying vibrations back and forth, but they could not polish the bottom surface. therefore, we have developed a tool with a new concept and applied vibrations in the thickness and width directions so that the bottom surface, which was difficult to work with until now, can be polished.



The back surface (bottom surface) could not be polished by the vibration in the longitudinal direction.

● =Tool screw diameter unit : mm

For flat tools		Part No.	T
<div>NEW</div> <div>M6</div> 		MX-4010-W	1.0
		MX-4015-W	1.5
			

For flat tools		Part No.	T
<div>NEW</div> <div>M6</div> 		MX-4010-T	1.0
		MX-4015-T	1.5
			

ULTRAFORM Series

► OPTIONAL ITEMS



Protector sleeve

A standard protector sleeve that can secure a wide handle. Screw type

No.UF-7024



Protector sleeve

Protector sleeve for thin tools (chisel) that can secure a wide handle.

No.UF-7046



Protector sleeve

Large-sized protector sleeve that can secure a wide handle. Insert type

No.UF-7025



Foot switch

It is a foot switch to switch over On/Off of ultrasonic oscillation. It turns On while you are stepping on it.

Part No.UF-7083: For SF-355, ST-360
Part No.UF-7085: For UF-0101



Foot switch

It is a foot switch to switch over On/Off of ultrasonic oscillation. It turns On while you are stepping on it.

Part No.UF-7116: For UF-0103



Foot controller

The rotation speed of the DC motor handpiece can be adjusted. The strength is controlled depending on the degree of depressing the foot controller. (Do not use for ultrasonic control)

Part No.VC90: For UF-0103



Transducer cord

This is the cord can connect the transducer and oscillator.

Part No.UF-7055
Applicable oscillator: UF-0103/UF-0101
Applicable transducer: UF-9701/UF-7401



Wrench

Part No.UF-7302: 8 mm
Part No.UF-7305: 10 mm
Part No.UF-7318: 12 mm
Part No.UF-7312: 14 mm



Clamp horn key

Part No.UF-7006: M2.5
Part No.UF-7003: M3
Part No.UF-7005: M4

ULTRAFORM Series

▶ OPTIONAL ITEMS



Tool extractor

This is the jig that fixes the transducer and assists in attaching and detaching tools. It can be used for transducer with widths of 10mm and 13 mm.







No.UF-7015



Handpiece rest

Hand piece rest made of rubber that allows you to safely place the transducer and DC motor hand piece.

No.UF-7502

Power cord	Part No.	Main using area	Applicable voltage	Plug socket shape
	UF-7100	Japan	100 — 120V	
	UF-7101	USA	100 — 120V	
	UF-7102	EU	200 — 240V	
	UF-7103	Australia	200 — 240V	
	UF-7107	UK	200 — 240V	

5 types of power cord are available depending on various plug socket shapes.

► MAXIMA NEO Series

A more powerful model called "MAXIMA NEO" has been joined to the MAXIMA Series. With the new design, the powered-up model has further evolved and as new functions, a Digital Rotation Speed Display Function and a convenient Pause Function are standard equipment. With its excellent Dustproof Function and Rotational Accuracy, it can perform not only precision work such as dental laboratory, jewelry, and wood carving, but also various mold polishing and deburring powerfully.

MOA35ST

MAXIMA NEO PHP35 SET

* Diameter of collet chuck (2.35 / 3.0 / 3.175 mm) are available. When ordering, please advise us which size should be installed into hand piece.

This is the Standard type of Maxima NEO series.
Handpiece weight is 200 grams.

■ Package contents

- DC motor hand piece PHP35
- MAXIMA NEO controller NSC90
- Variable Foot Controller..... TPF100
- Hand piece stand TRC04
- Carbon brushes
- Chuck wrench & Chuck joint wrench

MAXIMA NEO Controller + PHP35 Brush type motor hand piece
Max. Rotation speed is 35,000 rpm
Max. Torque output is 6.5 Ncm
Hand piece weighs just 200 grams

Max
35,000
min⁻¹



MOA40ST

MAXIMA NEO PHP40 SET

* Diameter of collet chuck (2.35 / 3.0 / 3.175 mm) are available. When ordering, please advise us which size should be installed into hand piece.

This is the Light-weight type of Maxima NEO series.
Handpiece weight is 170 grams.

■ Package contents

- DC motor hand piece PHP40
- MAXIMA NEO controller NSC90
- Variable Foot Controller..... TPF100
- Hand piece stand TRC04
- Carbon brushes
- Chuck wrench & Chuck joint wrench

MAXIMA NEO Controller + PHP40 Brush type motor hand piece
Max. Rotation speed is 40,000 rpm
Max. Torque output is 6.0 Ncm
Hand piece weighs just 170 grams

Max
40,000
min⁻¹



Lightweight and high-precision handpieces are suitable for a wide range of applications from fine polishing to powerful grinding. The collet chuck uses a convenient one-touch opening / closing method, and the tip tool can be attached/detached without using a special spanner. In addition, the standard foot pedal is a variable type with an upper limit that can be set.



Stepless Control

Steplessly control the rotation speed of the hand piece.



Overload protection

Stops and protects the hand piece when the motor is overloaded.



Rotation Direction Change

One-touch operation to switch between forward and reverse rotation.



Layout free design

The shape of the MAXIMA NEO controller is square, so it can be placed horizontally or vertically.



Variable Foot Control

Control the rotation speed of the motor byu stepping on.



Quick Chuck System

Quick chuck system that allows you to attach and detach tip tools with one-touch.

PHP35

MAXIMA NEO DC Motor Handpiece

* Diameter of collet chuck (2.35 / 3.0 / 3.175 mm) is available.

Max
35,000
min⁻¹



* Tip Tool is optional item.

■ Max.Torque Output : 6.5Ncm ■ Rotation speed : 0~35,000 rpm min
■ Motor cord length : 1.5m ■ Weight : 200g ■ Dimension : φ26×L 150 mm

PHP40

MAXIMA NEO DC Motor Handpiece (Lightweight type)

* Diameter of collet chuck (2.35 / 3.0 / 3.175 mm) is available.

Max
40,000
min⁻¹



* Tip Tool is optional item.

■ Max.Torque Output : 6.0Ncm ■ Rotation speed : 0~40,000 rpm min
■ Motor cord length : 1.5m ■ Weight : 170g ■ Dimension : φ26×L 145 mm

NSC90

MAXIMA NEO Controller



■ Input Voltage : AC100V/230V 50/60Hz
■ Output Voltage : DC3~30V 0.4A
■ Dimension : 81(w) x 151(D) x 151(H) mm
■ Max. Output power : 50W ■ Weight : 2.15 kg

TPF100

Variable Foot Controller



■ Weight : 500 g
■ Cord length : 1.8m
■ Dimension : 90(w) x 170(D) x 60 (H) mm

TRC04

Hand piece Stand



■ Weight : 77 g
■ Dimension : 110(w) x 50(D) x 40(H) mm

Maintenance parts

These parts are supplied as the standard accessories for PHP35/PHP40.

PHP35-4-164

Carbon Brushes Set
(1 pair = 2 pcs)



PHP35-301

Chuck Joint Wrench



PHP35-300

Chuck Wrench



MAXIMA NEO Series

MOA051S Max.55,000min-1

MAXIMA NEO Controller
+ EX051 Hand piece Set



High Speed type

Package contents

NEO Controller NSC90
Variable Foot Controller ... TPF100
Heads JA15
Motors EX05
Hand piece stand TRC04
Carbon brushes
Joint stopper
Chuck wrench
Collet chuck installed



* Collet chuck 2.35 mm Dia. is installed into JA15 Head.
Collet chuck 3.0 mm or 3.175 mm Dia. is supplied as the spare parts.

MOA131S Max.35,000min-1

MAXIMA NEO Controller
+ EX131 Hand piece Set



All-Arounder type

Package contents

NEO Controller NSC90
Variable Foot Controller ... TPF100
Heads JA15
Motors EX13
Hand piece stand TRC04
Carbon brushes
Joint stopper
Chuck wrench
Collet chuck installed



* Collet chuck 2.35 mm Dia. is installed into JA15 Head.
Collet chuck 3.0 mm or 3.175 mm Dia. is supplied as the spare parts.

MOA121S Max.20,000min-1

MAXIMA NEO Controller
+ EX121 Hand piece Set



High Torque type

Package contents

NEO Controller NSC90

Variable Foot Controller ... TPF100
Heads JA15
Motors EX12
Hand piece stand TRC04

Carbon brushes
Joint stopper
Chuck wrench
Collet chuck installed



Auto Cruise Function
Keep a constant rotation speed.



Stepless Control
Steplessly control the rotation speed of the handpiece.



Overload Protection
Stops and protects the handpiece when the motor is overloaded.



Rotation Direction Change
One-touch operation to switch between forward rotation and reverse rotation.



Digital Rotation Display
Rotation speed is displayed in digital indicator.



Variable Foot Control
Control the rotation speed of the motor by stepping on.



Alarm Function
When the motor is loaded, it sounds an alarm to stop and protect the handpiece.



Quick Chuck System
Quick chuck system that allows you to attach and detach tip tools with one-touch.



Equipped with a convenient Hand Switch.

When using the MAXIMA EX motor with the MAXIMA NEO controller, you can turn it On / Off with the Hand Switch.

MAXIMA EX Motor is equipped with a convenient Hand Switch. It is now possible to perform frequent On/Off operations on the Handpiece side during work. Even when the Variable Foot Pedal (TRF100) is connected, the Hand Switch is automatically recognized and On/Off operation is possible.

MOA231S Max.30,000min⁻¹

MAXIMA NEO Controller
+ EX231 Hand piece Set



All-Arounder type

Package contents

NEO Controller NSC90
Variable Foot Controller ... TPF100
Heads JA15
Motors EX23
Hand piece stand TRC04
Carbon brushes
Joint stopper
Chuck wrench
Collet chuck installed



* Collet chuck 2.35 mm Dia. is installed into JA15 Head.
Collet chuck 3.0 mm or 3.175 mm Dia. is supplied as the spare parts.

MOA211S Max.15,000min⁻¹

MAXIMA NEO Controller
+ EX211 Hand piece Set



High Torque type

Package contents

NEO Controller NSC90
Variable Foot Controller ... TPF100
Heads JA15
Motors EX21
Hand piece stand TRC04
Carbon brushes
Joint stopper
Chuck wrench
Collet chuck installed

MOA201S Max.8,000min⁻¹

MAXIMA NEO Controller
+ EX201 Hand piece Set



Super Torque type

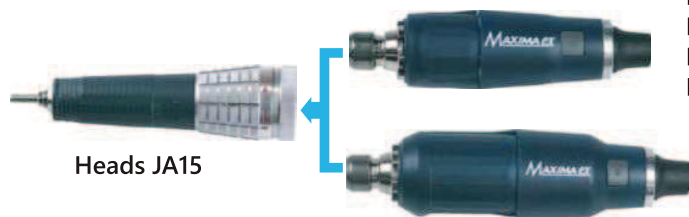
Package contents

NEO Controller NSC90
Variable Foot Controller ... TPF100
Heads JA15
Motors EX20
Hand piece stand TRC04
Carbon brushes
Joint stopper
Chuck wrench
Collet chuck installed

For Straight type Hand pieces, we have a lineup of All-Arounder type, High Speed type, High Torque type, and Super Torque type. As one of the selection criteria for different types of Hand pieces, if the head diameter of the tip tool to be used is 6 mm or less, use EX051, EX121, EX131, which are light-weight and easy to handle, and If you powerfully want to use the tip tools with a head diameter larger than 6 mm, please select EX231, EX211, EX201 with large torque. Also, select a High Speed type for carbide cutters and diamond points, and an All-Arounder type Hand piece when using a lot of rubberized mounted points, Felt Buffs, Brushes, etc..

High-Performance Hand piece with Detachable Motor part and Head part

Head part and Motor part can be attached and detached easily and quickly by using a coupler joint system that simply pulls up the Ring on the Head part. You can freely switch from a Straight type Hand piece to an Angle type or Swing type Hand piece.



Motors
EX05
EX12
EX13

Motors
EX23
EX21
EX20



Auto Cruise Function
Keep a constant rotation speed.



Stepless Control
Steplessly control the rotation speed of the handpiece.



Overload Protection
Stops and protects the handpiece when the motor is overloaded.



Rotation Direction Change
One-touch operation to switch between forward rotation and reverse rotation.



Digital Rotation Display
Rotation speed is displayed in digital indicator.



Variable Foot Control
Control the rotation speed of the motor by stepping on.



Alarm Function
When the motor is loaded, it sounds an alarm to stop and protect the handpiece.



Quick Chuck System
Quick chuck system that allows you to attach and detach tip tools with one-touch.

► Angle Rotary Hand piece & Swingfile Set

This is Angle Rotary Hand piece which is equipped with a 90 and 120 Angle Heads on a High Power Motor with a Hand Switch. Furthermore, It is Swingfile that swings sideways to the left and right. You can freely adjust the speed and amplitude.

MOA216S Max.15,000min-1

MAXIMA NEO Controller
+ EX216 Hand piece Set



● 90° Angle type

■ Package contents

NEO Controller NSC90
Variable Foot Controller I ... TPF100
Heads JR21
Motors EX21
Hand piece stand TRC04
Carbon brushes
Joint stopper
Chuck wrench
Collet chuck installed



* Collet chuck 3.0 mm Dia. is installed into JR21 Head.
Collet chuck 2.35 mm or 3.175 mm Dia. is supplied as the spare parts.

MOA217S Max.15,000min-1

MAXIMA NEO Controller
+ EX217 Hand piece Set



● 120° Angle type

■ Package contents

NEO Controller NSC90
Variable Foot Controller ... TPF100
Heads JS21
Motors EX21
Hand piece stand TRC04
Carbon brushes
Joint stopper
Chuck wrench
Collet chuck installed



* Collet chuck 3.0 mm Dia. is installed into JS21 Head.
Collet chuck 2.35 mm or 3.175 mm Dia. is supplied as the spare parts.

MOA208S Max Vibration 8,000 times/min

MAXIMA NEO Controller
+ EX208 Hand piece Set



● Swingfile

■ Package contents

NEO Controller NSC90
Variable Foot Controller ... TPF100
Heads JP11
Motors EX20
Hand piece stand TRC04
Carbon brushes



Instead of Collet system, V ditch chuck is mounted. 2.0-4.7mm Dia. of tip tools can be installed. Polish the bottom of the workpiece, deep cavities, corners to grooves.

► Reciprofile Set

This is the electric filing machine that reciprocates back and forth with a stroke adjustment function. We have a lineup of two types, RE35 emphasizes stroke, and RE55 has an advantage in speed.

MOARE35S

MAXIMA NEO Controller
+ RE35 Reciprofile Set

Max 4,200
6mm
shuttle/min

● Reciprofile

■ Package contents

NEO Controller NSC90
Variable Foot Controller ... TPF100
Hand piece RE35

MOARE55S

MAXIMA NEO Controller
+ RE55 Reciprofile Set

Max 7,000
2mm
shuttle/min

● Reciprofile

■ Package contents

NEO Controller NSC90
Variable Foot Controller ... TPF100
Hand piece RE55



Auto Cruise Function
Keep a constant rotation speed.



Overload Protection
Stops and protects the handpiece when the motor is overloaded.



Variable Foot Control
Control the rotation speed of the motor by stepping on.



Stepless Control
Steplessly control the rotation speed of the handpiece.

► Belt Sander Set

Ideal for deburring work on flat surfaces, curved surfaces, and edge surfaces. The belt and belt arm are removable by one-touch operation.

MOABS33S

MAXIMA NEO Controller
+ BS33 Belt Sander Set

Max 777m/min

● Belt Sander

■ Package contents

NEO Controller NSC90
Variable Foot Controller ... TPF100
Hand piece BS33
Standard Belt Arm BS1-100-2
Abrasive Belts 6mm width .. #120,#180,#320
Abrasive Belts 8mm width .. #120,#180,#320
* Each 1 piece every Mesh size.



Auto Cruise Function
Keep a constant rotation speed.



Overload Protection
Stops and protects the handpiece when the motor is overloaded.



Rotation Direction Change
One-touch operation to switch between forward rotation and reverse rotation.



Variable Foot Control
Control the rotation speed of the motor by stepping on.



Stepless Control
Steplessly control the rotation speed of the handpiece.

MAXIMA EX Series

► Rotary Hand piece (Head + Motor Separate type)

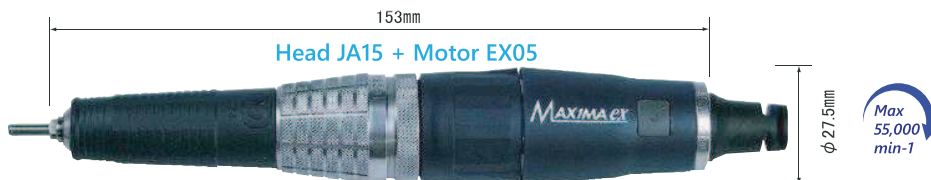
This is the Rotary Hand piece which is 2 pieces construction joined the Detachable Head to Motor equipped with the Hand Switch. It can be widely used for grinding, polishing, deburring, etc.

Collet size 2.35 mm, 3.0 mm and 3.175 mm are available.

* Collet chuck 2.35 mm Dia. is installed into JA15 Head.
Collet chuck 3.0 mm or 3.175 mm Dia. is supplied as the spare parts.

EX051

Max.RPM 55,000
Max. Torque 3.6Ncm
■Weight : 190g



EX121

Max.RPM 20,000
Max. Torque 6.4Ncm
■Weight : 220g



EX131

Max.RPM 35,000
Max. Torque 5.4Ncm
■Weight : 220g



EX201

Max.RPM 8,000
Max. Torque 9.8Ncm
■Weight : 276g



EX211

Max.RPM 15,000
Max. Torque 8.8Ncm
■Weight : 276g



EX231

Max.RPM 30,000
Max. Torque 6.8Ncm
■Weight : 276g



MAXIMA EX Series



Hand Switch

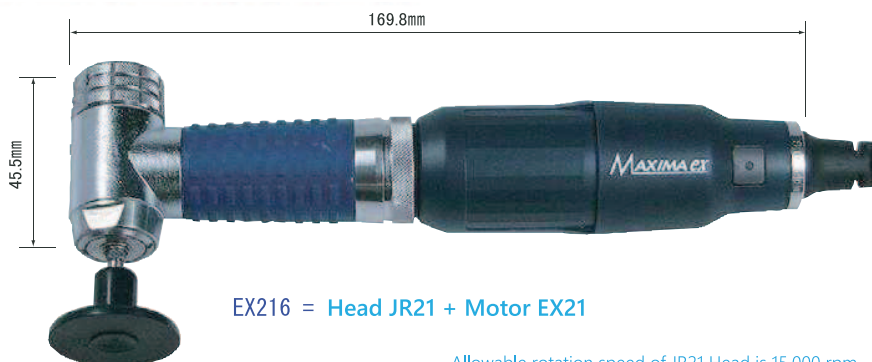
It is easy to start and stop by Hand Switch.
It is not necessary to press the button on the controller.

Collet size 2.35 mm, 3.0 mm and 3.175 mm are available.

Angle Rotary Hand piece (90° angle)

EX216

Max.RPM 15,000
Max. Torque 8.8Ncm
■ Weight : 386g



EX216 = Head JR21 + Motor EX21

Tip tool is the optional item.

Allowable rotation speed of JR21 Head is 15,000 rpm.
EX21 can be used with JR21.

* Collet chuck 3.0 mm Dia. is installed into JR21 Head.
Collet chuck 2.35 mm or 3.175 mm Dia. is supplied as the spare parts.

Angle Rotary Hand piece (120° angle)

EX217

Max.RPM 15,000
Max. Torque 8.8Ncm
■ Weight : 386g



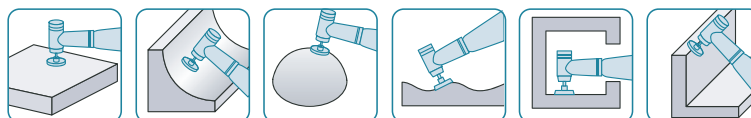
EX217 = Head JS21 + Motor EX21

Tip tool is the optional item.

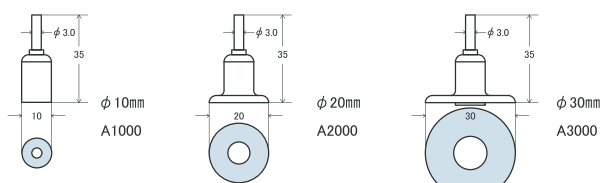
Allowable rotation speed of JS21 Head is 15,000 rpm.
EX21 can be used with JS21.

* Collet chuck 3.0 mm Dia. is installed into JS21 Head.
Collet chuck 2.35 mm or 3.175 mm Dia. is supplied as the spare parts.

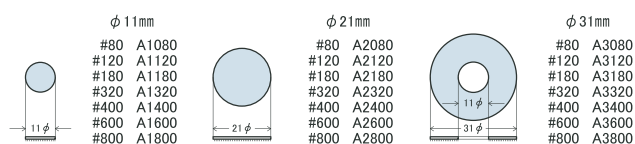
Tooling for Angle Rotary



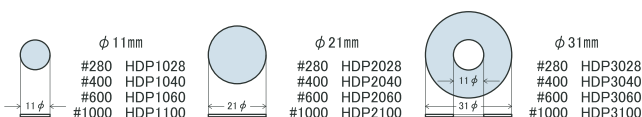
SOFT RUBBER MANDRELS



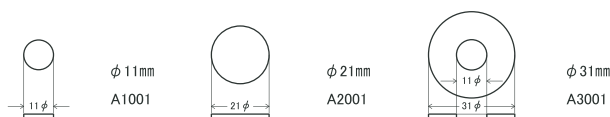
SILICONE CARBIDE ABRASIVE DISCS



POLYMOND DIAMOND ABRASIVE DISCS



FELT DISCS

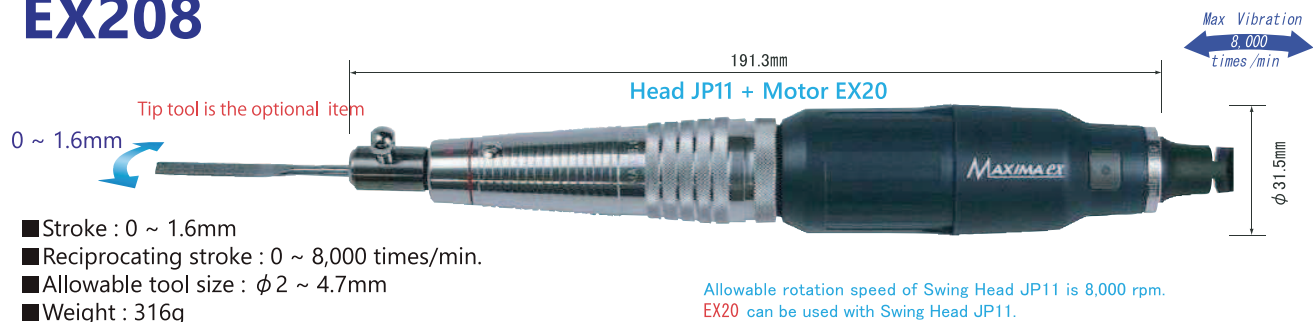


MAXIMA EX Series

► Swingfile (Head + Motor Separate type) & Reciprofile

Swingfile EX208 a unique sideways reciprocating action with a choice of speed and stroke is perfect for polishing base areas in deep cavities, corners and deep slots. The Hand piece EX208 consists of Head JP11 and Motor EX20.

EX208

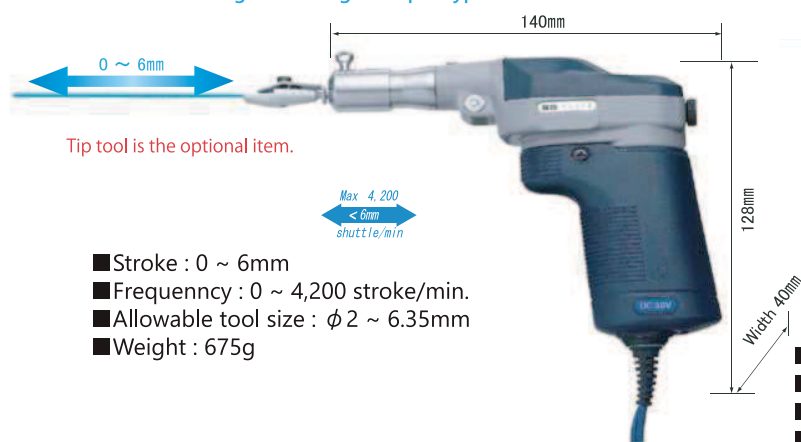


RE35 and RE55 reciprocating profilers are light-weight and comfortable Hand pieces for continuous polishing. Both models have adjustable stroke and floating Head with 360° orientation.

Reciprofile

RE35

Long Stroke High Torque Type



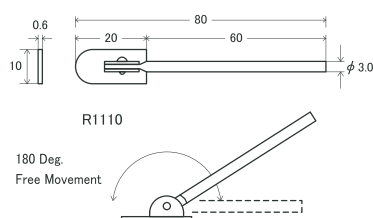
RE55

Short Stroke High Speed Type



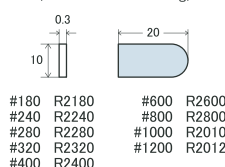
Tools for RE35/55 and EX208

FREE HOLDER



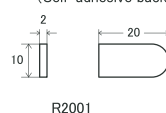
ABRASIVE PADS

(Self-adhesive backing)

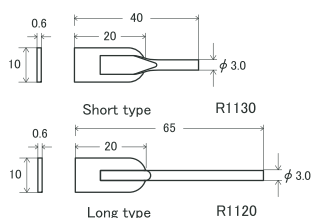


FELT TIPS

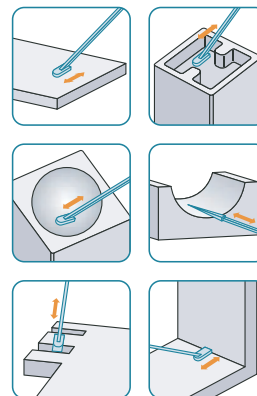
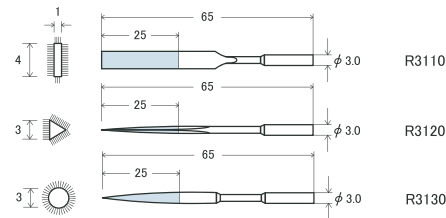
(Self-adhesive backing)



HOLDERS



ELECTRO-DEPOSITED DIAMOND (# 140)



MAXIMA EX Series

► Belt Sander

Belt Sander

Suitable for deburring, removing EDM and machine tool marks, and sanding flat and curved surface and narrow slots.

BS33



- Belt Speed : 5 ~ 12m/sec.
- Standard Belt Arm : BS1-100-2
- Cord length : 150mm
- Weight : 400g



Optional Belt Arm

□ Thin Belt Arm (Option)

BS1-100-1 (Belt width : 4~6mm)



□ Standard Belt Arm (Standard Accessories)

BS1-100-2 (Belt width : 6~8 mm)

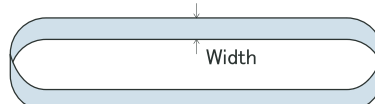


□ Angle Arm (Option)

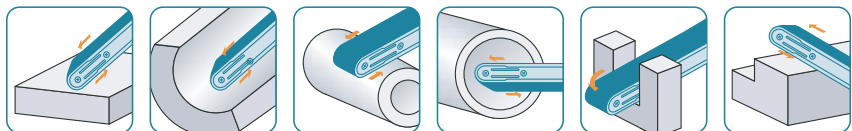
BS1-100-3 (Belt width : 6~8 mm)



ABRASIVE BELTS (Overall length 300mm)



4mm Width		6mm Width		8mm Width	
#80	B4080	#80	B6080	#80	B8080
#120	B4120	#120	B6120	#120	B8120
#180	B4180	#180	B6180	#180	B8180
#320	B4320	#320	B6320	#320	B8320



► Controller

EXP-120 & EXP-230

(AC120V type)

(AC230V type)

- Input Voltage : AC120V / AC230V, 50/60Hz
- Dimension : 200(w) x 180(D) x 110(H) mm
- Max. Output power : 120 W
- Weight : 2.3 kgs

With digital rotation display function.

Two hand pieces can be connected, and it also supports Motors with a Hand Switch.



► Accessories

VC90

Variable Foot Controller



- Weight : 540 g
- Cord length : 1.5m
- Dimension : 100(w) x 185(D) x 75(H) mm

TRC02

Hand piece Stand



- Weight : 77g
- Dimension : 110(w) x 50(D) x 40(H) mm

KE50-155

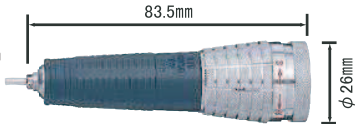

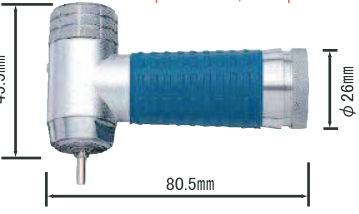
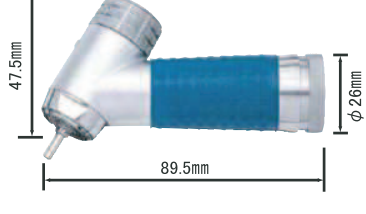
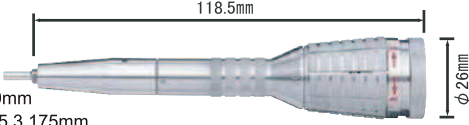

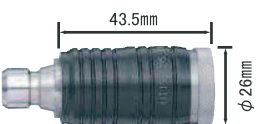
Extension Cord



- Cord length : 3m

MAXIMA EX Series

► Heads







<p>Standard Head JA15</p> <p>●Applicable Motor EX20 EX21 EX23 EX05 EX12 EX13</p> <p>Allowable rotation speed <55,000 rpm</p> <p>Weight : 100g Stadard collet size : 2.35,3.0mm Special collet size : 3.175mm</p> 	<p>Heavy Duty Head JA33</p> <p>●Applicable Motor EX20 EX21 EX23</p> <p>Allowable rotation speed <30,000 rpm</p> <p>Weight : 150g Stadard collet size : 6.0mm Special collet size : 2.35,3.0, 3.175,6.35 mm</p> 
<p>90° Angle Head JR21</p> <p>●Applicable Motor EX20 EX21</p> <p>Allowable rotation speed <15,000 rpm</p> <p>Weight : 200g Stadard collet size : 2.35,3.0mm Special collet size : 3.175mm</p> 	<p>120° Angle Head JS21</p> <p>●Applicable Motor EX20 EX21</p> <p>Allowable rotation speed <15,000 rpm</p> <p>Weight : 210g Stadard collet size : 2.35,3.0mm Special collet size : 3.175mm</p> 
<p>Slender Head JA45</p> <p>●Applicable Motor EX20 EX21 EX23 EX05 EX12 EX13</p> <p>Allowable rotation speed <55,000 rpm</p> <p>Weight : 120g Stadard collet size : 3.0mm Special collet size : 2.35,3.175mm</p> 	<p>Swing Head JP11</p> <p>●Applicable Motor EX20</p> <p>Weight : 140g Available tool shank : ϕ 2.0-4.7mm</p> <p>Allowable rotation speed <10,000 rpm</p> 
<p>1/4 Reduction Gear UT15</p> <p>●Applicable Motor EX20 EX21 EX23 EX12</p> <p>Connect between the motor and head for four times torque and reduce speed one fourth.</p> <p>Weight : 150g</p> <p>Allowable rotation speed <30,000 rpm</p> 	

► Motors



Hand Switch

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

<p>EX 05 Max. RPM 55,000</p> <p>■Max.Torque : 3.6Ncm ■Weight : 90g</p> 	<p>EX 12 Max. RPM 20,000</p> <p>■Max.Torque : 6.4Ncm ■Weight : 120g</p> 	<p>EX 13 Max. RPM 35,000</p> <p>■Max.Torque : 5.4Ncm ■Weight : 120g</p> 
<p>EX 20 Max. RPM 8,000</p> <p>■Max.Torque : 9.8Ncm ■Weight : 176g</p> 	<p>EX 21 Max. RPM 15,000</p> <p>■Max.Torque : 8.8Ncm ■Weight : 176g</p> 	<p>EX 23 Max. RPM 30,000</p> <p>■Max.Torque : 6.8Ncm ■Weight : 176g</p> 

MAXIMA EX Series

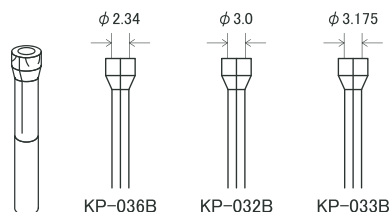
► Optional Collet Chuck

□ Applicable Handpiece

EX051 • EX121 • EX131
EX201 • EX211 • EX231
EX216 • EX217

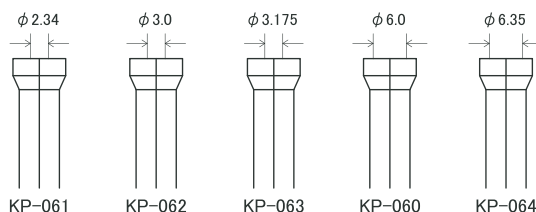
□ Applicable Head

JA15 • JA45
JR21 • JS21



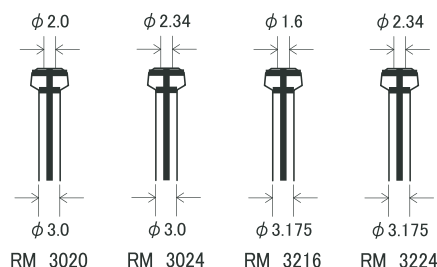
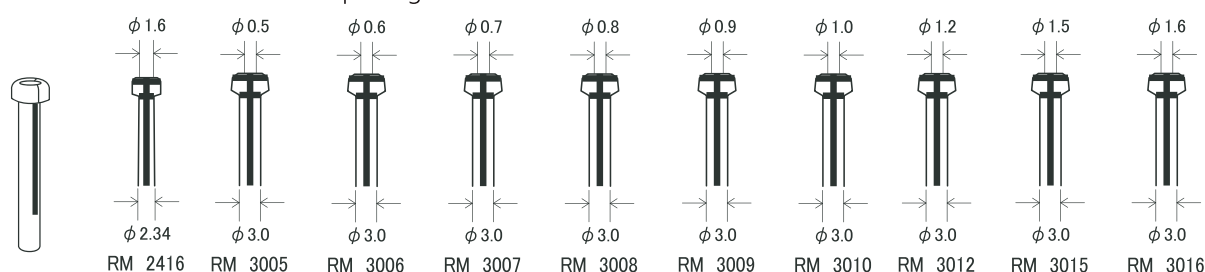
□ Applicable Head

JA33



► Reducing Collet Sleeves

This is the Reducing collet sleeve that can quickly adapt to the shaft diameter used without replacing the collet chuck.



VC90

Variable Foot Controller

In addition to turning on / off the rotation, the output value can be adjusted by stepping on.



- Weight : 540g
- Cord length : 1.5m
- Size : 100W x 185D x 75H mm

KE50-155

Hand piece Extension Cord

The length of the motor cord of MAXIMA EX MOTOR can be extended.



- Cord length : 3m

TRC02

Hand piece Stand

The handpiece can be placed on the Hand piece Cradle when not in use.



- Weight : 77g
- Size : 110W x 50D x 40H mm

MAXIMA EX Series

► Straight Rotary Hand piece Set

MAXIMA EX Series are the high-class and high-performance micro grinder system. The motor has a Hand Switch that can be turned On and Off at hand. the Motor part and Head part can be attached and detached with an attachment and exchangeable, various combinations can be made according to the applications.

MEX051S Max.55,000min⁻¹ Max.Torque: 3.6Ncm

MAXIMA EX Controller
+ EX051 Hand piece Set



High Speed type

■ Package contents

EX Controller EXP230(120)
Variable Foot Controller ... VC90
Heads JA15
Motors EX05
Hand piece stand TRC02
Carbon brushes
Joint stopper
Chuck wrench
Collet chuck installed



* Collet chuck 2.35 mm Dia. is installed into JA15 Head.
Collet chuck 3.0 mm or 3.175 mm Dia. is supplied as the spare parts.

MEX131S Max.35,000min⁻¹ Max.Torque: 5.4Ncm

MAXIMA EX Controller
+ EX131 Hand piece Set



All-Arounder type

■ Package contents

EX Controller EXP230(120)
Variable Foot Controller ... VC90
Heads JA15
Motors EX13
Hand piece stand TRC02
Carbon brushes
Joint stopper
Chuck wrench
Collet chuck installed



* Collet chuck 2.35 mm Dia. is installed into JA15 Head.
Collet chuck 3.0 mm or 3.175 mm Dia. is supplied as the spare parts.

MEX121S Max.20,000min⁻¹ Max.Torque: 6.4Ncm

MAXIMA EX Controller
+ EX121 Hand piece Set



High Torque type

■ Package contents

EX Controller EXP230(120)

Variable Foot Controller ... VC90
Heads JA15
Motors EX12
Hand piece stand TRC02

Carbon brushes
Joint stopper
Chuck wrench
Collet chuck installed



Auto Cruise Function
Keep a constant rotation speed.



Stepless Control
Steplessly control the rotation speed of the handpiece.



Overload Protection
Stops and protects the handpiece when the motor is overloaded.



Rotation Direction Change
One-touch operation to switch between forward rotation and reverse rotation.



Digital Rotation Display
Rotation speed is displayed in digital indicator.



Variable Foot Control
Control the rotation speed of the motor by stepping on.



Alarm Function
When the motor is loaded, it sounds an alarm to stop and protect the handpiece.



Quick Chuck System
Quick chuck system that allows you to attach and detach tip tools with one-touch.

MAXIMA EX Series



Equipped with a convenient Hand Switch.

When using the MAXIMA EX motor with the MAXIMA EX controller, you can turn it On / Off with the Hand Switch.

MAXIMA EX Motor is equipped with a convenient Hand Switch. It is now possible to perform frequent On/Off operations on the Handpiece side during work. Even when the Variable Foot Pedal (VC90) is connected, the Hand Switch is automatically recognized and On/Off operation is possible. Also, even when 2 types of hand pieces are connected, the handpiece that presses the Hand Switch is automatically recognized without switching Stations on the Controller side. Equipped with a convenient

MEX231S Max.30,000min-1 Max.Torque: 6.8Ncm

MAXIMA EX Controller
+ EX231 Hand piece Set



All-Arounder type

Package contents

EX Controller EXP230(120)
Variable Foot Controller ... VC90
Heads JA15
Motors EX23
Hand piece stand TRC02
Carbon brushes
Joint stopper
Chuck wrench
Collet chuck installed



* Collet chuck 2.35 mm Dia. is installed into JA15 Head.
Collet chuck 3.0 mm or 3.175 mm Dia. is supplied as the spare parts.

MEX211S Max.15,000min-1 Max.Torque: 8.8Ncm

MAXIMA EX Controller
+ EX211 Hand piece Set



High Torque type

Package contents

EX Controller EXP230(120)
Variable Foot Controller ... VC90
Heads JA15
Motors EX21
Hand piece stand TRC02
Carbon brushes
Joint stopper
Chuck wrench
Collet chuck installed

MEX201S Max.8,000min-1 Max.Torque: 9.8Ncm

MAXIMA EX Controller
+ EX201 Hand piece Set



Super Torque type

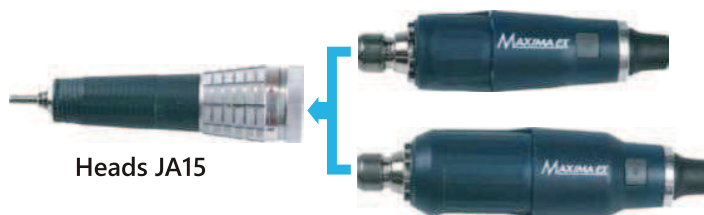
Package contents

EX Controller EXP230(120)
Variable Foot Controller ... VC90
Heads JA15
Motors EX20
Hand piece stand TRC02
Carbon brushes
Joint stopper
Chuck wrench
Collet chuck installed

For Straight type Hand pieces, we have a lineup of All-Arounder type, High Speed type, High Torque type, and Super Torque type. As one of the selection criteria for different types of Hand pieces, if the head diameter of the tip tool to be used is 6 mm or less, use EX051, EX121, EX131, which are light-weight and easy to handle, and If you powerfully want to use the tip tools with a head diameter larger than 6 mm, please select EX231, EX211, EX201 with large torque. Also, select a High Speed type for carbide cutters and diamond points, and an All-Arounder type Hand piece when using a lot of rubberized mounted points, Felts Buffs, Brushes, etc..

High-Performance Hand piece with Detachable Motor part and Head part

Head part and Motor part can be attached and detached easily and quickly by using a coupler joint system that simply pulls up the Ring on the Head part. You can freely switch from a Straight type Hand piece to an Angle type or Swing type Hand piece.



Motors
EX05
EX12
EX13

Motors
EX23
EX21
EX20



Auto Cruise Function
Keep a constant rotation speed.



Stepless Control
Steplessly control the rotation speed of the handpiece.



Overload Protection
Stops and protects the handpiece when the motor is overloaded.



Rotation Direction Change
One-touch operation to switch between forward rotation and reverse rotation.



Digital Rotation Display
Rotation speed is displayed in digital indicator.



Variable Foot Control
Control the rotation speed of the motor by stepping on.



Alarm Function
When the motor is loaded, it sounds an alarm to stop and protect the handpiece.



Quick Chuck System
Quick chuck system that allows you to attach and detach tip tools with one-touch.

MAXIMA EX Series

► Angle Rotary Hand piece & Swingfile Set

This is Angle Rotary Hand piece which is equipped with a 90 and 120 Angle Heads on a High Power Motor with a Hand Switch. Furthermore, It is Swingfile that swings sideways to the left and right. You can freely adjust the speed and amplitude.

MEX216S Max.15,000min⁻¹ Max.Torque: 8.8Ncm

MAXIMA EX Controller
+ EX216 Hand piece Set



● 90° Angle type

■ Package contents

EX Controller EXP230(120)
Variable Foot Controller ... VC90
Heads JR21
Motors EX21
Hand piece stand TRC02
Carbon brushes
Joint stopper
Chuck wrench
Collet chuck installed



* Collet chuck 3.0 mm Dia. is installed into JR21 Head.
Collet chuck 2.35 mm or 3.175 mm Dia. is supplied as the spare parts.

MEX217S Max.15,000min⁻¹ Max.Torque: 8.8Ncm

MAXIMA EX Controller
+ EX217 Hand piece Set



● 120° Angle type

■ Package contents

EX Controller EXP230(120)
Variable Foot Controller ... VC90
Heads JS21
Motors EX21
Hand piece stand TRC02
Carbon brushes
Joint stopper
Chuck wrench
Collet chuck installed



* Collet chuck 3.0 mm Dia. is installed into JS21 Head.
Collet chuck 2.35 mm or 3.175 mm Dia. is supplied as the spare parts.

MEX208S Max Vibration 8,000 times/min

MAXIMA EX Controller
+ EX208 Hand piece Set

● Swingfile

■ Package contents

EX Controller EXP230(120)
Variable Foot Controller ... VC90
Heads JP11
Motors EX20
Hand piece stand TRC02
Carbon brushes



Instead of Collet system, V ditch chuck is mounted. 2.0-4.7mm Dia. of tip tools can be installed. Polish the bottom of the workpiece, deep cavities, corners to grooves.

MAXIMA EX Series

► Angle Rotary Hand piece & Swingfile Set

This is Angle Rotary Hand piece which is equipped with a 90 and 120 Angle Heads on a High Power Motor with a Hand Switch. Furthermore, It is Swingfile that swings sideways to the left and right. You can freely adjust the speed and amplitude.

MEX216S Max.15,000min⁻¹ Max.Torque: 8.8Ncm

MAXIMA EX Controller
+ EX216 Hand piece Set



● 90° Angle type

■ Package contents

EX Controller EXP230(120)
Variable Foot Controller ... VC90
Heads JR21
Motors EX21
Hand piece stand TRC02
Carbon brushes
Joint stopper
Chuck wrench
Collet chuck installed



* Collet chuck 3.0 mm Dia. is installed into JR21 Head.
Collet chuck 2.35 mm or 3.175 mm Dia. is supplied as the spare parts.

MEX217S Max.15,000min⁻¹ Max.Torque: 8.8Ncm

MAXIMA EX Controller
+ EX217 Hand piece Set



● 120° Angle type

■ Package contents

EX Controller EXP230(120)
Variable Foot Controller ... VC90
Heads JS21
Motors EX21
Hand piece stand TRC02
Carbon brushes
Joint stopper
Chuck wrench
Collet chuck installed



* Collet chuck 3.0 mm Dia. is installed into JS21 Head.
Collet chuck 2.35 mm or 3.175 mm Dia. is supplied as the spare parts.

MEX208S Max Vibration 8,000 times/min

MAXIMA EX Controller
+ EX208 Hand piece Set

● Swingfile

■ Package contents

EX Controller EXP230(120)
Variable Foot Controller ... VC90
Heads JP11
Motors EX20
Hand piece stand TRC02
Carbon brushes



Instead of Collet system, V ditch chuck is mounted. 2.0-4.7mm Dia. of tip tools can be installed. Polish the bottom of the workpiece, deep cavities, corners to grooves.

Hybrid Micromotor System **GRANDE**

► **GRANDE**

Hybrid Micromotor System Grande Set is the best combination that consists of the powerful controller and the brushless motor (BLDC) handpiece that provides stable torque from low to maximum rotations. It minimizes heat generation and has an excellent dustproof structure for continuous use. The collet chuck uses a convenient one-touch opening / closing method, and the tip tool can be attached / detached without using a special spanner. In addition to high speed rotation and strong torque, it is extremely quiet and can be used for a wide range of applications such as mold polishing, deburring of parts, jewelry making, wood carving, and glass litzten. As the optional item, the brush motor(DC) hand pieces are also prepared.

BLH600ST

GRANDE BLH600 SET

Maximum rotation speed : 50,000 rpm
Maximum torque output : 7.8 Ncm



■ Package contents

- Super high speed brushless motor hand piece BLH600
- Hybrid controller GRC2000 (AC100-120V) / GRC2022 (AC200-240V)
- Variable Foot Controller GRF60
- Hand piece holder..... GRC02
- Collet chuck changing jig set BLH6070

* Diameter of collet chuck (2.35 / 3.0 / 3.175 mm) are available. When ordering, please advise us which size should be installed into hand piece.

Brushless motor (BLDC) hand piece and Brush motor (DC) hand piece can be alternately used in one controller because of Hybrid system which is adopted for this Hybrid Micromotor system GRANDE Set. As further attractive functions, you can experience the Auto-cruise system which the hand piece is run at the same rotation speed even if you step out from the foot pedal. Its rotation speed of BLH600 brushless motor hand piece is 50,000 rpm max but very Silent construction and you can see the rotation speed in the RPM digital display. Torque output is computer-controlled (Torque control system) and the contents of the error is indicated in the display by Ego diagnostic system.

When you would like to change other diameter of collet chuck, it is very easy to make it due to Easy collet change system.

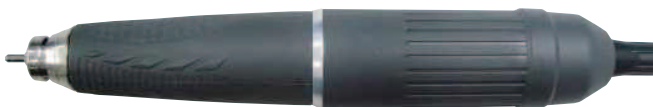
Hybrid Micromotor System **GRANDE**

BLH600

Super high speed brushless motor hand piece

* Diameter of collet chuck (2.35 / 3.0 / 3.175 mm) is available.

Max
50,000
min⁻¹



- Max.Torque Output : 7.8Ncm
- Rotation speed : 0~50,000 rpm min
- Motor cord length : 1.5m
- Weight : 231g
- Dimension : φ27×L 161 mm

PHP35

DC motor Handpiece

* Diameter of collet chuck (2.35 / 3.0 / 3.175 mm) is available.

Max
35,000
min⁻¹



* Tip Tool is optional item.

- Max.Torque Output : 6.5Ncm
- Rotation speed : 0~35,000 rpm min
- Motor cord length : 1.5m
- Weight : 200g
- Dimension : φ26×L 150 mm

GRC2000 (AC100-120V)

GRC2022 (AC200-240V)

GRANDE Controller



- Input Voltage : AC100V-120V / AC200V-240V
- Output : DC30V
- Max.Output power : 230W
- Dimension : 90(w) x 205(D) x 182(H)mm
- Weight : 2,4 kgs

GRF60

Variable Foot Controller



- Cord length : 1.8 m
- Dimension : 110(w) x 170(D) x 60(H)mm
- Weight : 530 g

GRC02

Handpiece Holder



BLH6070

Collet chuck changing jig set



Auto Cruise Function

Keep a constant rotation speed.



Digital Rotation Display

Rotation speed is displayed in digital indicator.



Rotation Direction Change

One-touch operation to switch between forward rotation and reverse rotation.



Hand piece holder

Hand piece holder that can insert the hand pieces are included as 2 pcs.



Variable Foot Control

Control the rotation speed of the motor by stepping on.



Alarm Function

When the motor is loaded, it sounds an alarm to stop and protect the handpiece.



Stepless Control

Steplessly control the rotation speed of the handpiece.



Safety Function

Reliable design that the controller detects the idle rotation of the motor and forcibly stops the handpiece.



Overload Protection

Stops and protects the handpiece when the motor is overloaded.



Quick Chuck System

Quick chuck system that allows you to attach and detach tip tools with one-touch.

Hybrid Micromotor System **GRANDE**

► **HIGH TORQUE ADAPTOR**

New Adaptor system model No.BLH-ADA can be installed with GRANDE brushless motor hand piece BLH600 and you can apply 6 types of Maxima EX Series Heads such as JA15, JA33, JA11, JA45, JR21, JS21. The torque output you can obtain with this Adaptor system, is more than double than our Conventional Maxima EX Motors EX23, EX21 and EX20.

It is the strongest torque with this system when applied on JA33 Heavy Duty head (for 6mm shank tool). Hybrid Micromotor System Grande Set is the best combination that consists of the powerful controller and the brushless motor handpiece BLH600 that provides stable torque from low to maximum rotations.

BLH-ADA

High Torque Adaptor

JA15



JA33



JA45



JR21



JS21



JP11



UT15



BLH-ADA

Cover Ring (Part No.BLHHUE)



Adaptor (Part No.BLHADA)

Connector (Part No.BLHMIT)

BLH600 Motor part + Cover ring










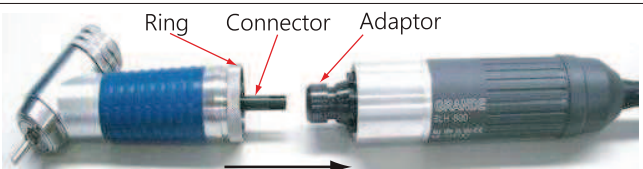

Example : BLH600 Motor part + BLH-ADA + JS21



Hybrid Micromotor System **GRANDE**

BLH-ADA

Example of connection between BLH600 Motor and JS21 Head by BLH-ADA

1.		This is the brushless motor hand piece BLH600. You can see the Head part and Motor part.
2.		Unscrew the Head part from the Motor part.
3.		Insert "Cover Ring" into the Motor part.
4.		"Cover Ring" is connected with the Motor part.
5.		Insert and screw Adaptor with Motor part.
6.		Adaptor is connected with Motor part.
7.		Insert Connector into JS21 head. .
8.		Connect JS21 Head with Adaptor. Pull the ring to Head side when attaching Adaptor.
9.		Finished

► MAXIMA Series

Micromotor system MAXIMA Series are a very easy-to-use, easy-to-handle as the entry model, and at the same time, it can be used for various purposes as a professional use. Precision work such as wood carving, jewelry etc., and powerful grinding and polishing work such as mold polishing, deburring can also be performed. As for the handpiece, powerful PHP35 with 35,000 rpm and light-weight PHP40 with 40,000 rpm are prepared for MAXIMA Series.

MPS35ST

MAXIMA PS220 + PHP35 SET

MAXIMA PS220 Controller + PHP35 Brush type motor hand piece
Max. Rotation speed is 35,000 rpm
Max. Torque output is 6.5 Ncm
Hand piece weighs just 200 grams

Max
35,000
min⁻¹

This is the Standard type
of Maxima series.
Handpiece weight is 200 grams.

■ Package contents

- DC motor hand piece PHP35
- MAXIMA controller PS220
- Variable Foot Controller TPF77
- Hand piece stand TRC02
- Carbon brushes
- Chuck wrench & Chuck joint wrench



* Diameter of collet chuck (2.35 / 3.0 / 3.175 mm)
are available. When ordering, please advise us
which size should be installed into hand piece.

MPS40ST

MAXIMA PS220 + PHP40 SET

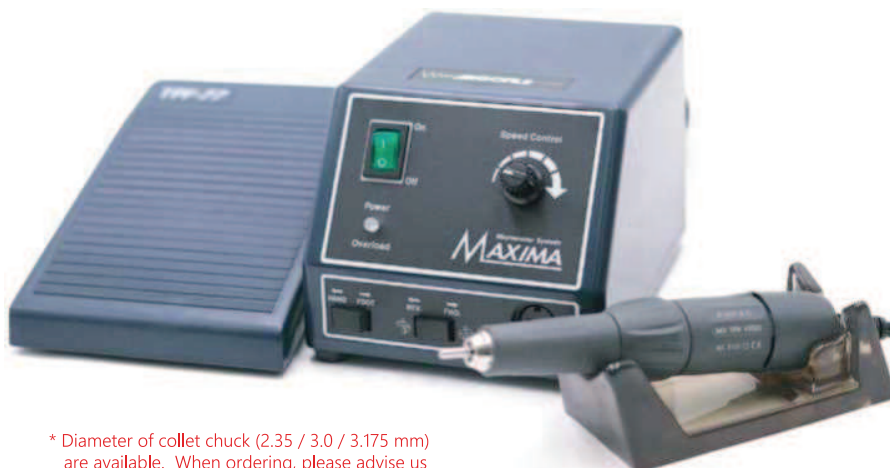
MAXIMA PS220 Controller + PHP40 Brush type motor hand piece
Max. Rotation speed is 40,000 rpm
Max. Torque output is 6.0 Ncm
Hand piece weighs just 170 grams

Max
40,000
min⁻¹

This is the Light-weight type
of Maxima series.
Handpiece weight is 170 grams.

■ Package contents

- DC motor hand piece PHP40
- MAXIMA controller PS220
- Variable Foot Controller TPF77
- Hand piece stand TRC02
- Carbon brushes
- Chuck wrench & Chuck joint wrench



* Diameter of collet chuck (2.35 / 3.0 / 3.175 mm)
are available. When ordering, please advise us
which size should be installed into hand piece.

► MAXIMA Series

MAXIMA all purpose micro hand piece PHP35 or PHP40 are craftsman designed and modeled. Controller PS220 is the compact sized, continuously variable speed control. Automatic stop turning on Red light with alarming beep sound and resetting when overloaded.



Stepless Control

Steplessly control the rotation speed of the hand piece.



Overload protection

Stops and protects the hand piece when the motor is overloaded.



Rotation Direction Change

One-touch operation to switch between forward and reverse rotation.



QuickChuckSystem

Quick chuck system that allows you to attach and detach tip tools with one-touch.



Variable Foot Control

Control the rotation speed of the motor by stepping on.

PHP35

MAXIMA DC Motor Handpiece

* Diameter of collet chuck (2.35 / 3.0 / 3.175 mm) is available.

Max
35,000
min⁻¹



* Tip Tool is optional item.

■ Max.Torque Output : 6.5Ncm ■ Rotation speed: 0~35,000 rpm min
■ Motor cord length: 1.5m ■ Weight: 200g ■ Dimension: φ26×L 150 mm

PHP40

MAXIMA DC Motor Handpiece (Lightweight type)

* Diameter of collet chuck (2.35 / 3.0 / 3.175 mm) is available.

Max
40,000
min⁻¹



* Tip Tool is optional item.

■ Max.Torque Output : 6.0Ncm ■ Rotation speed: 0~40,000 rpm min
■ Motor cord length: 1.5m ■ Weight: 170g ■ Dimension: φ26×L 145 mm

PS220

MAXIMA Controller



■ Input Voltage : AC100V - 240V 50/60Hz
■ Output Voltage : DC3~30V 0.4A
■ Dimension : 110(w) x 148(D) x 98(H) mm
■ Max. Output Power : 90W
■ Weight : 1.6 kg

TPF77

Variable Foot Controller



■ Weight : 580 g
■ Cord length : 1.8m
■ Dimension : 110(w) x 170(D) x 70 (H) mm

TRC02

Hand piece Stand



■ Weight : 77 g
■ Dimension : 110(w) x 50(D) x 40(H) mm

■ Maintenance parts

These parts are supplied as the standard accessories for PHP35/PHP40.

PHP35-4-164

Carbon Brushes Set
(1 pair = 2 pcs)



PHP35-301

Chuck Joint Wrench



PHP35-300

Chuck Wrench



ARGOFILE
ARGOFILE JAPAN LIMITED

*A new concept in
tool making*



IF YOU HAVE ANY QUESTIONS

PLEASE FEEL FREE TO CONTACT US!

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- ✓ Plastics & Robotic Industry
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