

► 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
- Speed control foot pedal TPF100
- Hand piece cradle 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
- Speed control foot pedal TPF100
- Hand piece cradle 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 by 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.



* 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

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

PHP40

MAXIMA NEO DC Motor Handpiece (Lightweight type)

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



* 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

TPF100

Variable Foot Controller



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

TRC04

Handpiece 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
Speed Control Foot Pedal ... TPF100
Heads JA15
Motors EX05
Hand piece cradle 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
Speed Control Foot Pedal ... TPF100
Heads JA15
Motors EX13
Hand piece cradle 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

Speed Control Foot Pedal ... TPF100
Heads JA15
Motors EX12
Hand piece cradle 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
Speed Control Foot Pedal ... TPF100
Heads JA15
Motors EX23
Hand piece cradle 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
Speed Control Foot Pedal ... TPF100
Heads JA15
Motors EX21
Hand piece cradle 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
Speed Control Foot Pedal ... TPF100
Heads JA15
Motors EX20
Hand piece cradle 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.



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
Speed Control Foot Pedal ... TPF100
Heads JR21
Motors EX21
Hand piece cradle 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
Speed Control Foot Pedal ... TPF100
Heads JS21
Motors EX21
Hand piece cradle 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 8000 times/min

MAXIMA NEO Controller
+ EX208 Hand piece Set

● Swingfile

■ Package contents

NEO Controller NSC90
Speed Control Foot Pedal ... TPF100
Heads JP11
Motors EX20
Hand piece cradle 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

● Reciprofile

■ Package contents

NEO Controller NSC90
Speed Control Foot Pedal ... TPF100
Hand piece RE35

MOARE55S

MAXIMA NEO Controller
+ RE55 Reciprofile Set

● Reciprofile

■ Package contents

NEO Controller NSC90
Speed Control Foot Pedal ... TPF100
Hand piece RE55



Auto Cruise Function
Keep a constant rotation speed.

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

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

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

● Belt Sander

■ Package contents

NEO Controller NSC90
Speed Control Foot Pedal ... 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.

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

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

Stepless Control
Steplessly control the rotation speed of the handpiece.

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

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.

EX051

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



* 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.

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



* 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.

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



* 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.

EX216 = Head JR21 + Motor EX21

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

Tip tool is the optional item.

Angle Rotary Hand piece (120° angle)

EX217

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



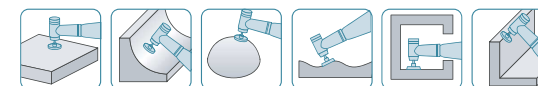
* Collet chuck 3.0 mm Dia. is installed into JS21 Head.
Collet chuck 2.35 mm or 3.175 mm Dia. is supplied as the spare parts.

EX217 = Head JS21 + Motor EX21

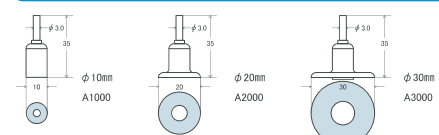
Allowable rotation speed of JS21 Head is 15,000 rpm.
EX21 can be used with JS21.

Tip tool is the optional item.

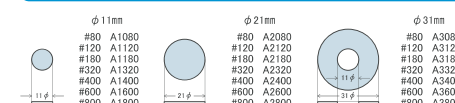
Tooling for Angle Rotary



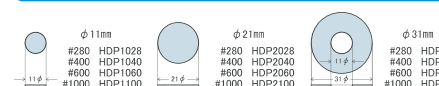
SOFT RUBBER MANDRELS



SILICONE CARBIDE ABRASIVE DISCS



POLYMOND DIAMOND ABRASIVE DISCS



FELT DISCS

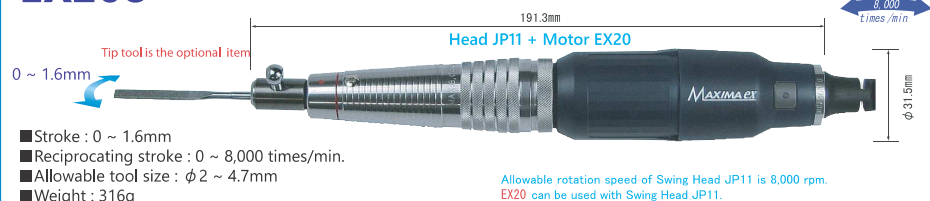


MAXIMA EX Series

► 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



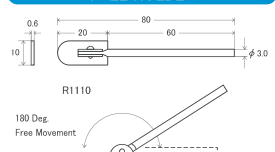
RE55

Short Stroke High Speed Type

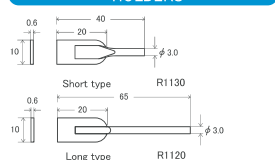


Tools for RE35/55 and EX208

FREE HOLDER

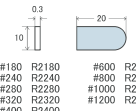


HOLDERS



ABRASIVE PADS

(Self-adhesive backing)

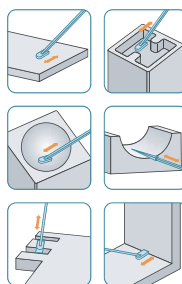
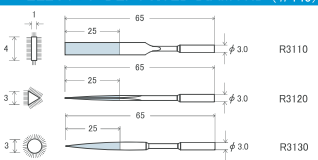


FELT TIPS

(Self-adhesive backing)



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 ~ 8mm)



□ Angle Arm (Option)

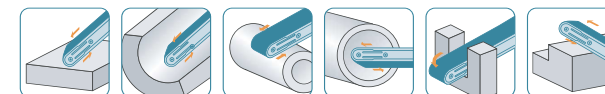
BS1-100-3 (Belt width : 6 ~ 8mm)



ABRASIVE BELTS (Overall length 300mm)



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

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 for Maxima EX controller



- Weight : 540 g
- Cord length : 1.5m

■ Dimension : 100(w) x 185(D) x 75(H) mm

TRC02

Handpiece Stand



- Weight : 77g

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

KE50-155



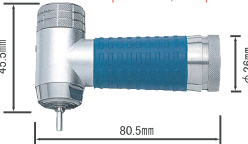
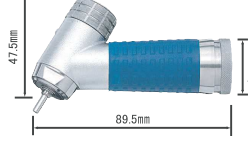
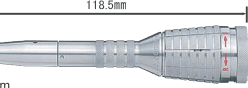


Extension Cord



- Cord length : 3m

MAXIMA EX Series

Heads







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

Motors




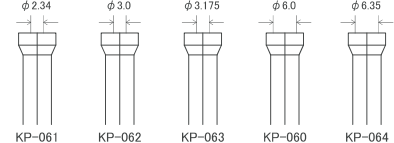
Hand Switch

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

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

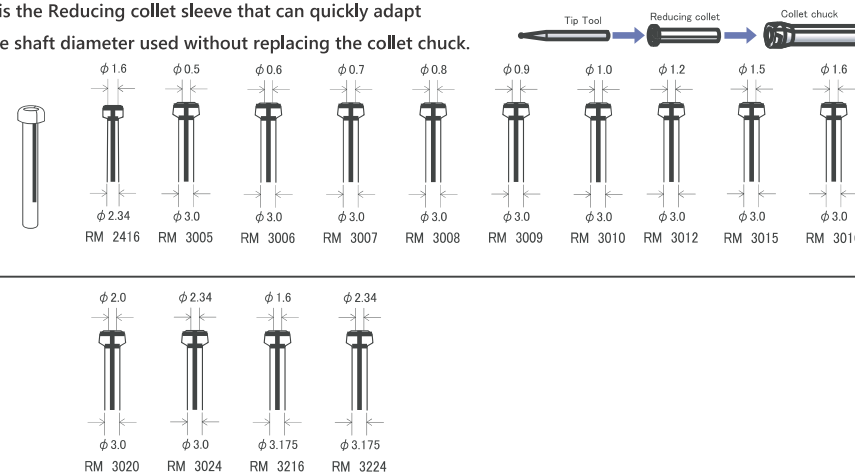
MAXIMA EX Series

Optional Collet Chuck

Applicable Handpiece EX051 • EX121 • EX131 EX201 • EX211 • EX231 EX216 • EX217 	Applicable Head JA33 
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Reducing Collet Sleeves

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



VC90

Speed Control Foot Pedal
(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 Cradle
The handpiece can be placed on the Hand piece Cradle when not in use.



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

Use the protective goggles and the dust protective mask during operation.

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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

Max
55,000
min⁻¹

High Speed type

■ Package contents
EX Controller EXP230(120)
Speed Control Foot Pedal ... VC90
Heads JA15
Motors EX05
Hand piece cradel 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

Max
35,000
min⁻¹

All-Arounder type

■ Package contents
EX Controller EXP230(120)
Speed Control Foot Pedal ... VC90
Heads JA15
Motors EX13
Hand piece cradel 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

Max
20,000
min⁻¹

High Torque type

■ Package contents
EX Controller EXP230(120)

Speed Control Foot Pedal ... VC90
Heads JA15
Motors EX12
Hand piece cradel 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

Max
30,000
min⁻¹

All-Arounder type

■ Package contents
EX Controller EXP230(120)
Speed Control Foot Pedal ... VC90
Heads JA15
Motors EX23
Hand piece cradel 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

Max
15,000
min⁻¹

High Torque type

■ Package contents
EX Controller EXP230(120)
Speed Control Foot Pedal ... VC90
Heads JA15
Motors EX21
Hand piece cradel 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

Max
8,000
min⁻¹

Super Torque type

■ Package contents
EX Controller EXP230(120)
Speed Control Foot Pedal ... VC90
Heads JA15
Motors EX20
Hand piece cradel 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, 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.

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)
Speed Control Foot Pedal ... VC90
Heads JR21
Motors EX21
Hand piece cradel 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)
Speed Control Foot Pedal ... VC90
Heads JS21
Motors EX21
Hand piece cradel 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)
Speed Control Foot Pedal ... VC90
Heads JP11
Motors EX20
Hand piece cradel 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

► 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.

MEXRE35S

MAXIMA EX Controller
+ RE35 Reciprofile Set

● Reciprofile

■ Package contents
EX Controller EXP230(120)
Speed Control Foot Pedal ... VC90
Hand piece RE35

MEXRE55S

MAXIMA EX Controller
+ RE55 Reciprofile Set

● Reciprofile

■ Package contents
EX Controller EXP230(120)
Speed Control Foot Pedal ... VC90
Hand piece RE55



Auto Cruise Function
Keep a constant rotation speed.



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



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



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.

MEXBS33S

MAXIMA EX Controller
+ BS33 Belt Sander Set

● Belt Sander

■ Package contents
EX Controller EXP230(120)
Speed Control Foot Pedal ... VC90
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.



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



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



Stepless Control
Steplessly control the rotation speed of the handpiece.



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

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)
- Speed control foot pedal GRF60
- Hand piece holder GRC02
- Collet chuck changing jig set BLH6070

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 Egodiagnostic 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.

* 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.

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.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.



* 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

Speed Control Foot Pedal



- 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**

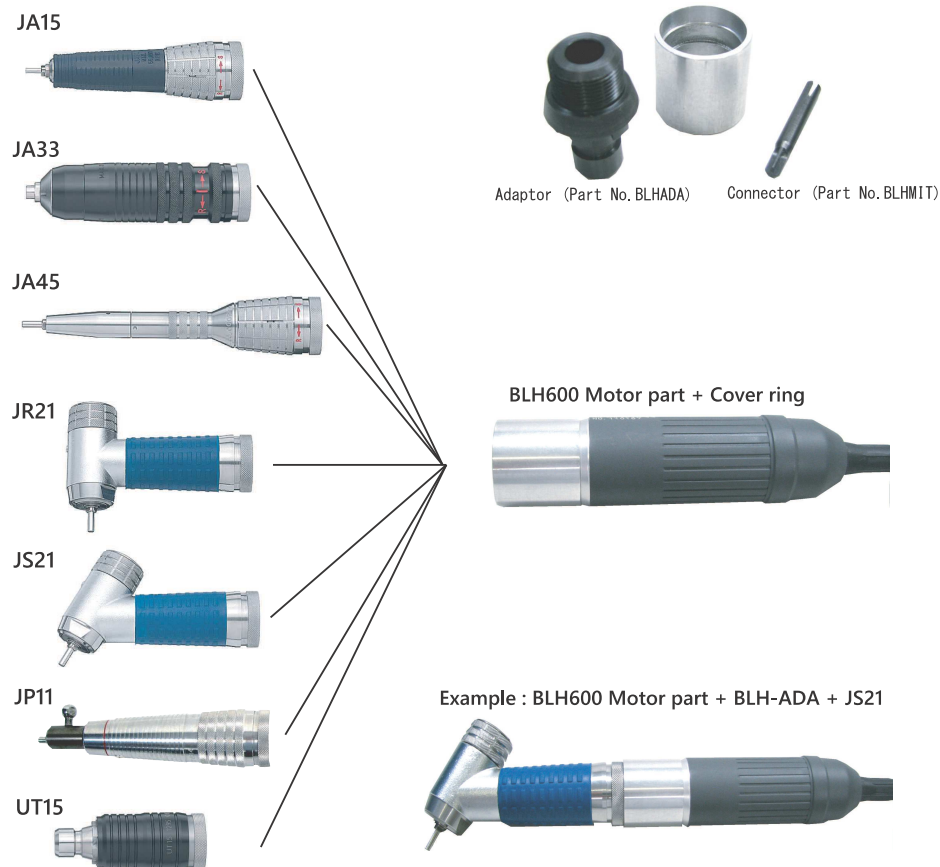
► HIGH TORQUE ADAPTOR

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



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
- Speed control foot pedal TPF77
- Hand piece cradle 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
- Speed control foot pedal TPF77
- Hand piece cradle 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.



Quick Chuck System
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

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

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

TPF77

Variable Foot Controller



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

TRC02

Handpiece 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

