



## Motors & Spindles Micro-grinders

Ultra-Precision Electrically / Pneumatically Driven

AMERICAN ROTARY TOOLS CO. (ARTCO TOOLS)

250 WEST DUARTE ROAD, #E

MONROVIA, CALIFORNIA USA 91016-7464

Tel: (626) 358-8466 Fax: (626) 358-0076

Toll Free US Tel: (800) 624-2212 Fax: (800) 624-2210

Email: info@artcotools.com



# NSK America

## Precision & Reliability

2012/13  
Edition



**1**

EmaxEVO

ESPERT

ROTUS

ECOMO

IMPULSE

PRESTO II

SHEENUS

neo

SONIC

CUTTER

**2**

iSpeed3

E2530

E2550

E3000

– One Piece

E3000

– Modular

ø1.18"

ø1.0"

ø0.98"

ø0.897"

E3200

– Modular

E4000

**3**

MA

ø0.897"

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ø0.98"

ø1.18"

MS

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ø0.79"

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**4**

HES510

HES810

HTS

HPS

**5**

AIR LINE KIT

**6**

PARTS

**7**TECHNICAL  
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# HAND WORK



HAND WORK SOLUTIONS

# Micro-Grinder

## Electrically Driven



### Emax EVOlution

1,000~40,000 min<sup>-1</sup>(rpm)

#### ULTRA-PRECISION BRUSHLESS MICRO-GRINDER

- Digital display enhances safety and efficiency.
- Compact and functional design makes the unit portable.
- Soft touch switches permit easy operation and long service life.



### ESPERT 500

1,000~50,000 min<sup>-1</sup>(rpm)

#### ULTRA-PRECISION BRUSHLESS MICRO-GRINDER

- High output power, 200W, and high reliability are achieved by combining a hall-element brushless DC motor and high grade electronics.



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# ULTRA-PRECISION BRUSHLESS MICRO-GRINDER

# “Emax EVolution”

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## Emax EVolution System Chart

CAT. No.	Model	Price
----------	-------	-------

### Attachment

RE11008	IR-310	294.00
---------	--------	--------



Ring Type

RE10178	IH-300	294.00
---------	--------	--------



Lever Type

2811	IG-400	361.00
------	--------	--------



Straight Type

RE10188	HG-200	294.00
---------	--------	--------

25,000 min<sup>-1</sup>(rpm) Max. (※1)



Torque Type (※3)

RE10235	BMH-300	294.00
---------	---------	--------

35,000 min<sup>-1</sup>(rpm) Max. (※1)



Long Type

RE10247	MFC-300S	281.00
---------	----------	--------

15,000 min<sup>-1</sup>(rpm) Max. (※1)



90° Mini Angle Type

RE10252	MFC-300M	226.00
---------	----------	--------

15,000 min<sup>-1</sup>(rpm) Max. (※1)



90° Mini Angle Type (Very Small Head)

RE10182	IC-300	221.00
---------	--------	--------

35,000 min<sup>-1</sup>(rpm) Max. (※1) 20,000 min<sup>-1</sup>(rpm) Max. (※2)



90° Angle Type

RE10266	KC-300	221.00
---------	--------	--------

35,000 min<sup>-1</sup>(rpm) Max. (※1) 20,000 min<sup>-1</sup>(rpm) Max. (※2)



45° Angle Type

LS10815	LS-100	837.00
---------	--------	--------

30,000 min<sup>-1</sup>(rpm) Max. (※1)



LUSTER  
(Reciprocating motion)

LS51307	ML-8	606.00
---------	------	--------

35,000 min<sup>-1</sup>(rpm) Max. (※1) 30,000 min<sup>-1</sup>(rpm) Max. (※2)



MINI-LUSTER (Reciprocating motion)

LS11380	SLS-16	606.00
---------	--------	--------

35,000 min<sup>-1</sup>(rpm) Max. (※1)



SWING-LUSTER (Right to Left motion)

RE18060	HA-500	589.00
---------	--------	--------

20,000 min<sup>-1</sup>(rpm) Max. (※1) 16,000 min<sup>-1</sup>(rpm) Max. (※2)



Hammer Action Type

KBS61065	KBS-101	594.00
----------	---------	--------

35,000 min<sup>-1</sup>(rpm) Max. (※1)



FINE BELT SANDER



LUSTER  
(Reciprocating motion)  
Built-in Motor  
1483 | NLS-110 | 1,600.00  
30,000 min<sup>-1</sup>(rpm) Max. (※1)

- Wide selection of attachments available depending on the application.

### Speed Reducer · Extension Joint



Extension Joint

RE10210	CN-01	73.00
---------	-------	-------

35,000 min<sup>-1</sup>(rpm) Max. (※1)



1/4 Speed Reducer

RO10214	RG-01	123.00
---------	-------	--------

30,000 min<sup>-1</sup>(rpm) Max. (※1)



1/15 Speed Reducer

RO10228	RG-02	154.00
---------	-------	--------

30,000 min<sup>-1</sup>(rpm) Max. (※1)

\* May be connected between the motor and the attachment as required for increased torque.

\*Maximum Allowable Speed, continuous use may change depending on the material being cut and other application variables.  
※1 : Maximum Allowable Speed, intermittent use. ※2 : Maximum Allowable Speed, continuous use. ※3 : Use 6mm torque Type HG-200 to connect ENK-250T

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**Motor**

CAT. No.	Model	Price
8086	ENK-410S	605.00

**Control Unit**

CAT. No.	Model	Price
8224	NE249 120	533.00

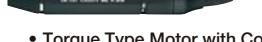
•  Emax Evolution

- Standard Type Motor with Cord  
1,000~40,000 min<sup>-1</sup>(rpm)

8086 ENK-410S 605.00

- Torque Type Motor with Cord  
1,000~25,000 min<sup>-1</sup>(rpm)

8087 ENK-250T 715.00



# “Emax EVOlution” FEATURES

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- Digital display enhances safety and efficiency.
- Compact and functional design makes the unit portable.
- Soft touch switches permit easy operation and long service life.

## New Advanced Design Control Unit

### Advanced Control Function

Upgraded Digital Display.  
**EVOLUTION** Speed Control with Flash Load Indicator.



### Diversity for work efficiency

2 Motors A and B can be connected to cover multiple work requirements.

\*Simultaneous motor operation is not allowable



### Memory Speed Function FiXpeed®

An exclusive new feature of the Emax EVOlution is the FiXpeed® system allowing independent foot switch operation for the A and B Motors. A Motor foot switch can be on/off and B Motor foot switch can be variable speed. This function brings unprecedented versatility and workability.

### Advanced User Friendly Design

New Industrial Design.  
**EVOLUTION** new user friendly case meets design and performance requirements.



### Auto Cruise Function

The control unit is equipped with an Auto Cruise Function. While using foot control for work, anyone could fix the motor at any speed by the embedded motor switch.

Once speed is set, foot pedal control is not required. This function eliminates foot fatigue during operation.



### Emax EVOlution Control Unit

CAT. No.	Model	Specifications	Price
8224 (120V)	NE249 120	<ul style="list-style-type: none"><li>• Weight : 5 lb. 1.13 oz.</li><li>• Power Source : AC120V, 50-60Hz</li><li>• Dimensions : W5.12" x D10.0" x H3.82"</li></ul>	533.00

Accessories : Handpiece Holder : 1 pc., Handpiece Stand : 1 pc.  
Power Supply Cord : 1 pc.

## Ultra-Precision Micro-Grinder



### NAKANISHI Smart Switch

The switch provides a click sensation. A confirmation tone is reacted by the control unit when the switch is operated. The motor type is distinguishable by the switch color.



### One Touch Tool Changing

- Ring Type (IR-310)  
Easy twist open/close chuck

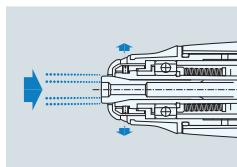


### Various Collet Size

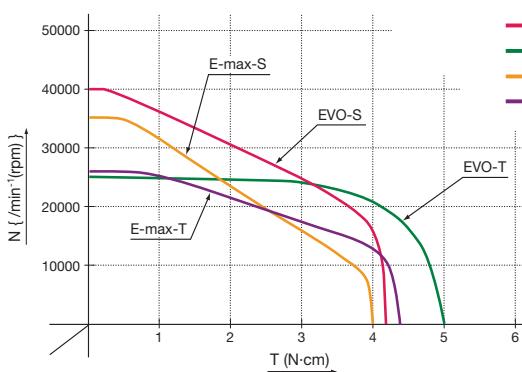
Various sizes ranging from ultra-small diameter (0.3 mm) are available for each attachment. Furthermore, collet replacement can be easily performed without wrench.

### Special Dust Protection Mechanism (patented)

The chuck section of Emax EVolution has a special built-in dust protection mechanism that prevents entry of foreign materials such as chips, and provides superior durability as well.



### Emax EVOlution vs E-max Torque Characteristic



### 2 Types of Motors

Provides choice of various applications.

- Standard Type Motor 1,000~40,000 min<sup>-1</sup> (rpm) (ENK-410S) **Blue**
- Torque Type Motor 1,000~25,000 min<sup>-1</sup> (rpm) (ENK-250T) **Green**

\*Exclusive use for Emax EVolution

Emax EVolution and Electer E-max have different motor cord pin configurations.



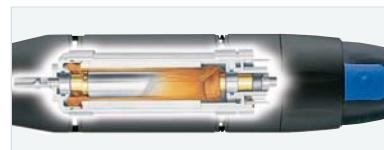
Emax EVolution



Electer E-max

### Excellent Durability

- High performance brushless motor eliminates the need of changing carbon brushes.
- RPM variation is minimal even when load changes. Allowing difficult and stable cutting in stress free motion. Suitable performance for finish grinding.
- Provides superior quietness and smoothness from low speed to high speed.



### 17 Types of Attachments for All Types of Applications

Capable of infinite applications with 14 different handpieces and 3 types of intermediate attachments.

\*Interchangeable with attachments from the E-max and ROTUS system.

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# “Emax EVOlution” STANDARD SET

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Emax  
EVOLUTION

## RING TYPE STANDARD SET

Capabilities for a wide variety of applications.  
Excellent balance and motor power for smooth speed  
and handling.

1,000~40,000 min<sup>-1</sup>(rpm)

\*New Ring Type IR-310 is the standard attachment  
for Emax EVOlution standard set EV410-IR



CAT.No.	8231 (120V)	Model	EV410-IR	Price
			1,094.00	
		Attachment IR-310		Motor ENK-410S
Standard Equipment	Micro Grinder (IR-310+ENK-410S) : 1 pc. Collet ø1/8" (CHH-3.175), ø2.35 mm (CHH-2.35) : 1 pc. each Control Unit (NE249 120) : 1 pc. Handpiece Holder : 1 pc. Handpiece Stand : 1 pc. Power Supply Cord : 1 pc. Wrench (7 x 5.1) : 1 pc. Pin Wrench (K-233) : 1 pc. L Shaped Wrench : 1 pc.			

Emax  
EVOLUTION

## RING TYPE TORQUE SET

For heavy duty and larger tools, Torque type promises  
to extend operation ranges.

1,000~25,000 min<sup>-1</sup>(rpm)

\*New Ring Type IR-310 is the standard attachment  
for Emax EVOlution torque set EV250-IR



CAT.No.	8232 (120V)	Model	EV250-IR	Price
			1,309.00	
		Attachment IR-310		Motor ENK-250T
Standard Equipment	Micro Grinder (IR-310+ENK-250T) : 1 pc. Collet ø1/8" (CHH-3.175), ø2.35 mm (CHH-2.35) : 1 pc. each Control Unit (NE249 120) : 1 pc. Handpiece Holder : 1 pc. Handpiece Stand : 1 pc. Power Supply Cord : 1 pc. Wrench (7 x 5.1) : 1 pc. Pin Wrench (K-233) : 1 pc. L Shaped Wrench : 1 pc.			

# "Emax EVolution" MOTOR

**AMERICAN ROTARY TOOLS CO.**

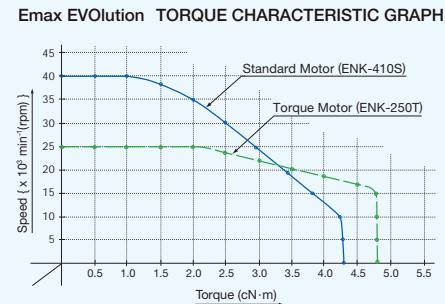
**Toll Free US & CA +1 (800) 645-3824**

## Motor for *Emax Evolution* (Electrically Driven)

- **NAKANISHI Smart Switch.**
- High performance samarium cobalt magnet.
- High accuracy, lightweight, compact, high reliability and superior durability.
- Major reduction of RF noise.
- Provides extremely quiet operation from low to high speed with stepless speed adjustment.

### Motor Specifications

Motor Model	ENK-410S	ENK-250T
Speed	1,000~40,000 min <sup>-1</sup> (rpm)	1,000~25,000 min <sup>-1</sup> (rpm)
Weight (w/o Cord)	3.17 oz.	5.19 oz.
Max. Torque	4.3 cN·m	4.8 cN·m
Output Power	73W	76W



CAT.  
No.

## 8086 STANDARD TYPE MOTOR ENK-410S



**1,000~40,000 min<sup>-1</sup>(rpm)**

- Excellent combination of high speed, lightweight, small diameter and high torque. This lightweight and compact general-use type is perfect for precision work.

CAT. No.	Model	Standard Accessories	Price
8086	ENK-410S	• Straight Cord : 4.5 ft	605.00

CAT.  
No.

## 8087 TORQUE TYPE MOTOR ENK-250T



**1,000~25,000 min<sup>-1</sup>(rpm)**

- Combines the best of both high speed and high torque. It is perfect for applications requiring large burs.

CAT. No.	Model	Standard Accessories	Price
8087	ENK-250T	• Straight Cord : 4.5 ft	715.00

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# “Emax EVOlution” ATTACHMENTS

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## CAT. No. RE11008 RING TYPE ATTACHMENT IR-310



- Perfectly designed for powerful and delicate cutting and grinding, and made slim and light weight for comfortable gripping.

- Weight : 3.25 oz.
- Simple, no wrench bur replacement.
- Wrench is not required to exchange the chuck.
- Collet  
Standard Size : Ø1/8" (CHH-3.175),  
Ø2.35 mm (CHH-2.35)
- Optional Collets: CHH-[ ] are shown in page (6-p2)

### Ring Type Attachment

CAT. No.	Model	Standard Accessories	Price
RE11008	IR-310	• Collet Ø1/8" (CHH-3.175), Ø2.35 mm (CHH-2.35) : 1 pc. each • Wrench (7 x 5.1) : 1 pc. • Pin Wrench (K-233) : 1 pc. • L Shaped Wrench : 1 pc.	294.00

## CAT. No. RE10178 LEVER TYPE ATTACHMENT IH-300



- Perfectly designed for powerful and delicate cutting and grinding, and made slim and light weight for comfortable gripping.

- Weight : 2.19 oz.
- Just turn the lever to exchange the bur.
- Wrench is not required to exchange the chuck.
- Collet  
Standard Size : Ø1/8" (CHH-3.175),  
Ø2.35 mm (CHH-2.35)
- Optional Collets: CHH-[ ] are shown in page (6-p2)

### Lever Type Attachment

CAT. No.	Model	Standard Accessories	Price
RE10178	IH-300	• Collet Ø1/8" (CHH-3.175), Ø2.35 mm (CHH-2.35) : 1 pc. each • Wrench (7 x 5.1) : 1 pc. • Pin Wrench (K-233) : 1 pc.	294.00

## CAT. No. 2811 STRAIGHT TYPE ATTACHMENT IG-400

NEW



- Light weight ergonomically designed with minimal vibration for extended use.
- High precision NK Micron Collet for maximum tool retention.

- Weight : 1.94 oz.
- Collet  
Standard Size : Ø1/8" (NKM6-3.175)  
Optional Collets: NKM6-[ ] are shown in page (6-p6)

### Straight Type Attachment

CAT. No.	Model	Standard Accessories	Price
2811	IG-400	• Collet Ø1/8" (NKM6-3.175) : 1 pc. • Collet Nut (CHN-6) : 1 pc. • Wrench (9 x 9), (15 x 17) : 1 pc. each • Bar Wrench (PCR-30) : 1 pc.	361.00

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# "Emax EVolution" ATTACHMENTS

**AMERICAN ROTARY TOOLS CO.**

**Toll Free US & CA +1 (800) 645-3824**

## CAT. No. RE10188 TORQUE TYPE ATTACHMENT HG-200



- The resistance produced by cutting and grinding is absorbed by a special rubber grip to eliminate slipping.
- Chuck is tightened by a Wrench.
- Weight : 7.41 oz.
- Collet Standard Size :  $\varnothing 1/4"$  (CHG-6.35)  
Optional Collets: CHG- $\square\square$  are shown in page (6-p2)

### Torque Type Attachment

\*Use 6mm torque Type HG-200 to connect ENK-250T

CAT. No.	Model	Standard Accessories	Price
RE10188	HG-200	• Collet $\varnothing 1/4"$ (CHG-6.35) : 1 pc. • Bar Wrench (K-212) : 1 pc. • Pin Wrench (K-233) : 1 pc.	294.00

## CAT. No. RE10235

## For Deep Hole Grinding LONG ATTACHMENT BMH-300



- This unique slim body makes it ideal for cutting and grinding the bottom surface of deep ribs or holes.
- Weight : 5.50 oz.
- Wrench is not required to exchange the chuck.
- Collet Standard Size :  $\varnothing 1/8"$  (CHM-3.175)  
Optional Collets: CHM- $\square\square$  are shown in page (6-p4)

### Long Attachment for Deep Hole Grinding

CAT. No.	Model	Standard Accessories	Price
RE10235	BMH-300	• Collet $\varnothing 1/8"$ (CHM-3.175) : 1 pc. • Wrench (7 x 5.1), (6 x 4.5) : 1 pc. each • Pin Wrench (K-233) : 1 pc.	294.00

## CAT. No. RE10247

## For Chamfering Deep Hole 90° MINI ANGLE TYPE ATTACHMENT MFC-300S



- Ideal for chamfering and deburring the inside of slit pipe.
- Minimum Inner Diameter :  $\varnothing 0.79"$
- Weight : 1.76 oz.
- Standard Collet :  $\varnothing 1.6$  mm (K-252)
- Speed Reduction Ratio : 10/11

### 90° MINI ANGLE TYPE Attachment for Chamfering Deep Hole, Bur Only $\varnothing 1.6$ mm

CAT. No.	Model	Standard Accessories	Price
RE10247	MFC-300S	• Collet $\varnothing 1.6$ mm (K-252) : 1 pc. • Chuck Wrench (K-232) : 1 pc. • Pin Wrench (K-233) : 1 pc.	281.00

## CAT. No. RE10252

## For Chamfering Deep Hole 90° MINI ANGLE TYPE ATTACHMENT MFC-300M



- The smallest 90°Angle type head is suitable for chamfering and deburring the inside of the slit pipe.
- Minimum Inner Diameter :  $\varnothing 0.51"$
- Weight : 1.66 oz.
- Standard Collet :  $\varnothing 1.6$  mm (K-253)
- Speed Reduction Ratio : 10/11

### 90° MINI ANGLE TYPE Attachment for Chamfering Deep Hole, Bur Only $\varnothing 1.6$ mm (Very Small Head)

CAT. No.	Model	Standard Accessories	Price
RE10252	MFC-300M	• Collet $\varnothing 1.6$ mm (K-253) : 1 pc. • Chuck Wrench (K-232) : 1 pc. • Pin Wrench (K-233) : 1 pc.	226.00

\*Maximum Allowable Speed, continuous use may change depending on the material being cut and other application variables.

\*1 : Maximum Allowable Speed, intermittent use.  
\*2 : Maximum Allowable Speed, continuous use.

\* Order by catalog number.

1-p9

1  
EmaxEVO  
ESPERT  
ROTRS  
ECONO  
IMPULSE  
PRESTO II  
SHEENUS neo  
SONIC CUTTER  
2  
iSpeed3  
E2530  
E2550  
E3000 — One Piece  
E3000 — Modular  
ø1.18"  
ø1.0"  
ø0.98"  
ø0.897"  
E3200 — Modular  
E4000

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MA  
ø0.897"  
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ø0.75"  
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4  
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# “Emax EVolution” ATTACHMENTS & ACCESSORIES

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neo  
SONIC  
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CAT. No. RE10182 90°ANGLE ATTACHMENT IC-300



35,000 min<sup>-1</sup>(rpm) Max. (\*1)  
20,000 min<sup>-1</sup>(rpm) Max. (\*2)

## Drive Motor & Control Unit



Electric Motor (ENK-410S, ENK-250T) Emax EVolution Control Unit (NE249 120)

\*For the details of above micromotor, refer to the following page (1-p7)

2

iSpeed3  
E2530  
E2550  
E3000  
— One Piece  
E3000  
— Modular  
Ø1.18"  
Ø1.0"  
Ø0.98"  
Ø0.897"  
E3200  
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E4000

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4

HES510  
HES810

HTS  
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- 90°Angle attachment with Ø1/8" (Ø3.175 mm) Collet. Most suitable for polishing flat surfaces, corners and internal surfaces of pipes with paper disk mounted on rubber pad.

- Reduction Ratio : 3/4
- Weight : 1.59 oz.
- Collet Standard Size : Ø1/8" (CHC-3.175)  
Optional Collets : CHC-[] are shown in page (6-p2)



## 90° Angle Attachment

CAT. No.	Model	Standard Accessories	Price
RE10182	IC-300	<ul style="list-style-type: none"> <li>• Collet Ø1/8" (CHC-3.175) : 1 pc.</li> <li>• Standard Accessories : 1 set</li> <li>• Chuck Wrench (K-231) : 1 pc.</li> <li>• Pin Wrench (K-233) : 1 pc.</li> </ul>	221.00

CAT. No. RE10266 45°ANGLE ATTACHMENT KC-300



35,000 min<sup>-1</sup>(rpm) Max. (\*1)  
20,000 min<sup>-1</sup>(rpm) Max. (\*2)

## Drive Motor & Control Unit



Electric Motor (ENK-410S, ENK-250T) Emax EVolution Control Unit (NE249 120)

\*For the details of above micromotor, refer to the following page (1-p7)

- Ideal for the work at 45°angle, especially corners and deep concaves.

- Use the motor in reverse rotation for clockwise rotation.
- Speed Reduction Ratio : 3/4
- Weight : 1.59 oz.
- Collet Standard Size : Ø1/8" (CHC-3.175)  
Optional Collets : CHC-[] are shown in page (6-p2)



## 45° Angle Attachment

CAT. No.	Model	Standard Accessories	Price
RE10266	KC-300	<ul style="list-style-type: none"> <li>• Collet Ø1/8" (CHC-3.175) : 1 pc.</li> <li>• Standard Accessories : 1 set</li> <li>• Chuck Wrench (K-231) : 1 pc.</li> <li>• Pin Wrench (K-233) : 1 pc.</li> </ul>	221.00

## Standard Accessories for IC-300 and KC-300

Description		CAT. No.	Model	O.D.	Grits	Q'ty
Rubber Pad	(Small)	RE11915	—	Ø10mm (Ø 0.39")	—	1
	(Med)	RE11916	—	Ø20mm (Ø 0.79")	—	1
	(Large)	RE11917	—	Ø30mm (Ø 1.18")	—	1
Sandpaper Disk	LS10904	S-018	Ø11mm (Ø 0.43")	# 180	5	
	LS10910	S-060	Ø11mm (Ø 0.43")	# 600	5	
	RE11804	M-018	Ø21mm (Ø 0.83")	# 180	5	
	RE11810	M-060	Ø21mm (Ø 0.83")	# 600	5	
	RE11904	L-018	Ø31mm (Ø 1.22")	# 180	5	
	RE11910	L-060	Ø31mm (Ø 1.22")	# 600	5	

# "Emax EVolution" ACCESSORIES

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## Optional Accessories for IC-300 and KC-300

### Rubber Pad

Product	Description	CAT. No.	Model	O.D.	Grits	package	Price
	Rubber Pad (Small)	RE11915	—	ø10 mm (ø0.39")	—	1 pc./pack	5.00
	Rubber Pad (Med)	RE11916	—	ø20 mm (ø0.79")	—	1 pc./pack	5.00
	Rubber Pad (Large)	RE11917	—	ø30 mm (ø1.18")	—	1 pc./pack	5.00

### Sandpaper Disk (Paper Type for Metals, Adhesive Back)

Product	Description	CAT. No.	Model	O.D.	Grits	package	Price
	Sandpaper Disk for small pad	LS10900	S-008	ø11 mm (ø0.43")	# 80	100 pcs./pack	15.00
		LS10902	S-012		# 120		
		LS10904	S-018		# 180		
		LS10905	S-024		# 240		
		LS10906	S-032		# 320		
		LS10908	S-040		# 400		
		LS10910	S-060		# 600		
		LS10912	S-080		# 800		
		LS10914	S-100		#1,000		
		LS10915	S-150		#1,500		
		RE11800	M-008		# 80		
		RE11802	M-012		# 120		
		RE11804	M-018		# 180		
		RE11805	M-024		# 240		
		RE11806	M-032		# 320		
	Sandpaper Disk for med. pad	RE11808	M-040		# 400		25.00
		RE11810	M-060		# 600		
		RE11812	M-080		# 800		
		RE11814	M-100		#1,000		
		RE11815	M-150		#1,500		
		RE11900	L-008	ø31 mm (ø1.22")	# 80	100 pcs./pack	28.00
		RE11902	L-012		# 120		
		RE11904	L-018		# 180		
		RE11905	L-024		# 240		
		RE11906	L-032		# 320		
		RE11908	L-040		# 400		
		RE11910	L-060		# 600		
		RE11912	L-080		# 800		
		RE11914	L-100		#1,000		
		RE11925	L-150		#1,500		

**1**

EmaxEVO

ESPERT

ROTUS

ECONO

IMPULSE

PRESTO II

SHEENUS

neo

SONIC

CUTTER

**2**

iSpeed3

E2530

E2550

E3000

— One Piece

E3000

— Modular

ø1.18"

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ø0.98"

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E3200

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E4000

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**4**

HES510

HES810

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HPS

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# “Emax EVolution” ATTACHMENTS

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## The Features of LUSTER NLS-110 (Built-in Motor)

### ● NAKANISHI Smart Switch

### ● High Power

LUSTER (NLS-110) is a powerful reciprocating stroke polisher equipped with 1/4 Speed Reducer to multiply the torque by 4 times.

### ● Reciprocating Stroke :

0~7,600 times/min. Fully adjustable.

### ● Ultra-Precision Grinder

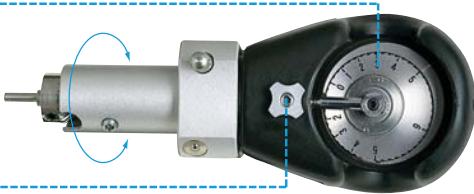
All important parts are hardened by heat treatment to provide excellent durability.

### ● Designed with comfortable rubber-grip

Well balanced, rubber-grip absorbs vibration from reciprocating strokes reducing fatigue and allowing long, continuous operation.



### ● Stroke Range : 0~6 mm adjustable by stroke cam



### ● The tilt angle of grindstone arbor is adjustable.

The grinding surface can be set at any angle between 0 and 360° enabling grinding of bottom, right, left and top surfaces without moving the machine itself.

### Control Unit



Emax EVolution  
Control Unit (NE249 120)

- Weight : 1 lb. 12.22 oz.
- Max. tool shank diameter Ø0.25", Screw clamp type.
- Various types of attachment tools are provided as standard accessories.

### Reciprocating Motion Polishing Finisher LUSTER

CAT. No.	Model	Standard Accessories	Price
1483	NLS-110	<ul style="list-style-type: none"> <li>• Standard Accessories : 1 set</li> <li>• Allen Wrench (2 mm) : 1 pc.</li> <li>• Lubrication Oil</li> <li>• Lubrication Nozzle for LUSTER</li> </ul>	1,600.00

30,000 min<sup>-1</sup>(rpm) Max. (\*1)

## The Features of LUSTER LS-100

### ● High Power

LUSTER (LS-100) is a powerful reciprocating stroke polisher.

### ● Reciprocating Stroke :

0~7,600 times/min. Fully adjustable.

### ● Ultra-Precision Grinder

All important parts are hardened by heat treatment to provide excellent durability.

### ● Designed with comfortable rubber-grip

Well balanced, rubber-grip absorbs vibration from reciprocating strokes reducing fatigue and allowing long, continuous operation.



### ● Stroke Range : 0~6 mm adjustable by stroke cam



### ● The tilt angle of grindstone arbor is adjustable.

The grinding surface can be set at any angle between 0 and 360° enabling grinding of bottom, right, left and top surfaces without moving the machine itself.

### Drive Motor & Control Unit



Electric Motor  
(ENK-410S, ENK-250T)      Emax EVolution  
Control Unit (NE249 120)

\*For the details of above micromotor, refer to the following page (1-p7)

- Weight : 1 lb. 7.99 oz.
- Max. tool shank diameter Ø0.25", Screw clamp type.
- Various types of attachment tools are provided as standard accessories.

### Reciprocating Motion Miniature Polisher LUSTER

CAT. No.	Model	Standard Accessories	Price
LS10815	LS-100	<ul style="list-style-type: none"> <li>• Standard Accessories : 1 set</li> <li>• Allen Wrench (2 mm) : 1 pc.</li> <li>• Lubrication Oil</li> <li>• Lubrication Nozzle for LUSTER</li> </ul>	837.00

30,000 min<sup>-1</sup>(rpm) Max. (\*1)

1

EmaxEVO

ESPERT

ROTRS

ECONO

IMPULSE

PRESTO II

SHEENUS

neo

SONIC

CUTTER

2

iSpeed3

E2530

E2550

E3000  
— One Piece

E3000  
— Modular

Ø1.18"

Ø1.0"

Ø0.98"

Ø0.897"

E3200  
— Modular

E4000

3

MA

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HES510

HES810

HTS

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# "Emax EVolution" ATTACHMENTS

## The Features of MINI-LUSTER ML-8



- Reciprocating Stroke (variable) : Approx 0~9,000 times/min.
- Stroke Range (fixed) : 0.8 mm.
- Due to pencil type grip, it is most suitable for polishing narrow grooves, details, etc.
- Lightweight, compact design and minimal vibration keep the hand free from fatigue for long continuous operation.
- By using the grindstone holder provided, various tools such as oil stone, super stone, diamond files, etc. can be used.



### Drive Motor & Control Unit



Electric Motor (ENK-410S, ENK-250T) Emax EVolution Control Unit (NE249 120)

\*For the details of above micromotor, refer to the following page (1-p7)

- Weight : 4.59 oz.
- Max. tool shank diameter ø0.13", Screw clamp type.
- Various attachment tools and holders are provided as standard accessories.

### Pencil-Type Reciprocating Polishing Finisher MINI-LUSTER Attachment

CAT. No.	Model	Stroke Range	Standard Accessories	Price
LS51307	ML-8	0.8mm	<ul style="list-style-type: none"> <li>• Standard Accessories : 1 set</li> <li>• Allen Wrench (1.5 mm) : 1 pc.</li> </ul>	606.00

35,000 min<sup>-1</sup>(rpm) Max. (\*1) 30,000 min<sup>-1</sup>(rpm) Max. (\*2)

## The Features of SWING-LUSTER SLS-16



- High speed grinding and polishing operations can be performed while maintaining the fine and delicate feeling of hand polishing.
- Lightweight pencil type design makes it easy to work in tight areas.
- Ergonomically designed to provide high sensitivity for precision work.
- Easily adjustable stroke length allows efficient work on minute areas or large sections.

- Weight : 4.48 oz.
- Reciprocating Stroke (variable) : 0~9,000 times/min
- Stroke range (variable) : 0~1.6 mm
- Max. tool shank diameter ø0.20", Screw clamp type.

### Drive Motor & Control Unit



Electric Motor (ENK-410S, ENK-250T) Emax EVolution Control Unit (NE249 120)

\*For the details of above micromotor, refer to the following page (1-p7)

### Pencil-Type Reciprocating Polishing Finisher SWING-LUSTER Attachment

CAT. No.	Model	Standard Accessories	Price
LS11380	SLS-16	<ul style="list-style-type: none"> <li>• Standard Accessories : 1 set</li> <li>• Allen Wrench (1.5 mm) : 1 pc.</li> </ul>	606.00

35,000 min<sup>-1</sup>(rpm) Max. (\*1)

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1

EmaxEVO

ESPERT

ROTUS

ECONOMO

IMPULSE

PRESTO II

SHEENUS neo

SONIC CUTTER

2

iSpeed3

E2530

E2550

E3000

— One Piece

E3000

— Modular

ø1.18"

ø1.0"

ø0.98"

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E3200

— Modular

E4000

3

MA

ø0.897"

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ø1.0"

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4

HES510

HES810

HTS

HPS

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TECHNICAL DATA

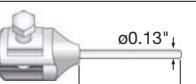
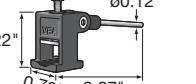
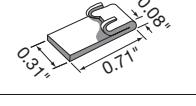
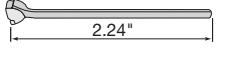
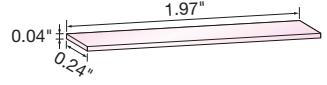
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APPLICATION EXAMPLES

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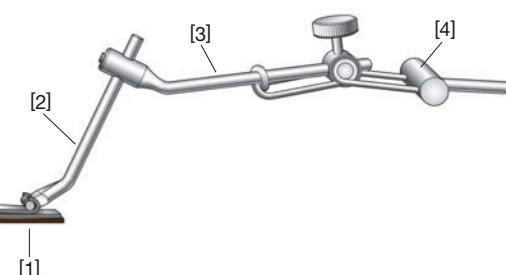
## Tool and standard accessories for LUSTER, MINI-LUSTER, SWING-LUSTER

- Each product is provided with tool  as standard.

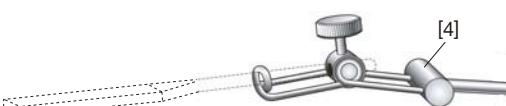
Product	Model	CAT. No.	Price (Package)	LUSTER NLS-110 LS-100	MINI-LUSTER ML-8	SWING-LUSTER SLS-16
Max. clampable size : Thickness 0.08" x width 0.51" 	Grindstone Holder	62501	52.00 (3 pcs./pack)	 (1 pc.)		
Max. clampable size : Thickness 0.18" x width 0.43" 	Grindstone Holder VES	LS10875	32.00 (1 pc./pack)	 (1 pc.)		
Max. clampable size : Thickness 0.43" x width 0.53" 	Grindstone Holder VEA	LS10834	43.00 (1 pc./pack)	 (1 pc.)		
[4] 	Tool Holder with Spring FVA	LS10867	32.00 (1 pc./pack)	 (1 pc.)	 (1 pc.)	
[1] 	Rectangular Pad LKE-2A	LS10891	15.00 (1 pc./pack)	 (1 pc.)		
[2] 	Rod for Rectangular Pad FBA-2	LS10848	16.00 (1 pc./pack)	 (1 pc.)		
[3] 	Angle Rod NGA	LS10853	15.00 (1 pc./pack)	 (1 pc.)		
0.16" x 0.05" x 1.97" 	Diamond Grindstone DLA4 x 1-100	LS10918	37.00 (1 pc./pack)		 (1 pc.)	 (1 pc.)
Max. clampable size : Thickness 0.14" x width 0.79" 	Grindstone Holder	62951	48.00 (3 pcs./pack)		 (1 pc.)	 (1 pc.)
0.04" x 1.97" x 0.24" 	Ceramic Fiber Grindstone (#1,200)	60737	41.00 (2 pcs./pack)		 (1 pc.)	 (1 pc.)

### ● Illustration Usage

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2



# memo

1

EmaxEVO

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HES510

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## The Features of HA-500



### Drive Motor & Control Unit



\*For the details of above micromotor, refer to the following page (1-p7)

- Stroke speed : 25~5,000 strokes/min
- A wide variety of patterns can be produced by varying the spring pressure and hammer speed.
- Light weight, pencil type grip makes the handpiece very comfortable to hold and easy to use.
- Adjustable spring pressure.
- Self lubricating hammer mechanism ensure excellent durability.

- Weight : 3.35 oz.
- Stroke range : 0.4 mm • Stroke Spring Pressure : 4.4~7.1N (Ring Adjustment Type)

### Engraving and Ornament Processing Work Hammer Attachment

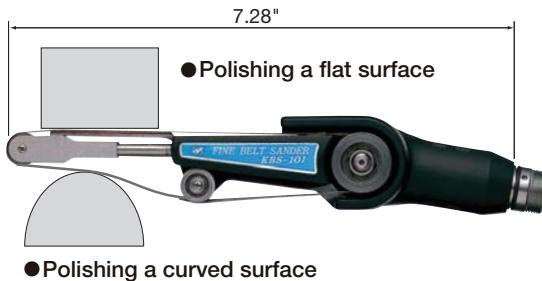
CAT. No.	Model	Standard Accessories	Price
RE18060	HA-500	<ul style="list-style-type: none"> <li>• Wrench (7 x 5.1) : 1 pc.</li> <li>• Bar Wrench (K-212) : 1 pc.</li> <li>• Oil and Oil offer machine</li> <li>• Hammer Bit (For replacement) : 2 pcs.</li> </ul>	589.00

20,000 min<sup>-1</sup>(rpm) Max. (\*1) 16,000 min<sup>-1</sup>(rpm) Max. (\*2)

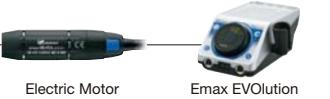
Hammer Bit to be machined to required shapes (SUS-420, heat treated, approx, HRC50)

Product	CAT. No.	Package	Price
	RE65301	3 pcs./pack	50.00

## The Features of FINE BELT SANDER KBS-101



### Drive Motor & Control Unit



\*For the details of above micromotor, refer to the following page (1-p7)

- Belt runs Approx. 0~2,700 ft/min
  - 8 mm, 6 mm and 4 mm width belts are available.
  - The angle of the belt section is fully adjustable.
  - Exchanging the belt is simply done by lever release.
  - Weight : 12.35 oz.
- Light-weight, compact, minimal vibration and a small diameter grip design keep the hand free from fatigue for long, continuous operation.
- When polishing a curved surface, the tension between the front and central pulley can be utilized. When polishing a flat surface or a groove, use the flat part of belt.



### FINE BELT SANDER Attachment

CAT. No.	Model	Standard Accessories	Price
KBS61065	KBS-101	<ul style="list-style-type: none"> <li>• 8 mm Belt (3 kinds 2 pcs. each)</li> <li>• 6 mm Belt (3 kinds 2 pcs. each)</li> <li>• 4 mm Belt (3 kinds 2 pcs. each)</li> <li>• Allen Wrench (3 mm) : 1 pc.</li> </ul>	594.00

35,000 min<sup>-1</sup>(rpm) Max. (\*1)

\*Maximum Allowable Speed, continuous use may change depending on the material being cut and other application variables.

\*1 : Maximum Allowable Speed, intermittent use.  
\*2 : Maximum Allowable Speed, continuous use.

# "Emax EVolution" ACCESSORIES

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**1**

EmaxEVO

ESPERT

ROTUS

ECONO

IMPULSE

PRESTO II

SHEENUS neo

SONIC CUTTER

**2**

iSpeed3

E2530

E2550

E3000

— One Piece

E3000

— Modular

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ø0.897"

E3200

— Modular

E4000

**3**

MA

ø0.897"

ø1.0"

ø0.98"

ø1.18"

MS

ø0.75"

ø0.79"

ø0.87"

ø0.91"

ø1.0"

ø0.98"

**4**

HES510

HES810

HTS

HPS

**5**

AIR LINE KIT

**6**

PARTS

**7**

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## Belt for FINE BELT SANDER (Ring Type)

Product	Description	CAT. No.	Grit	Width (mm)	Length (mm)	Package	Price (Package)			
	Sand Belt	64901	# 80	4	300	30 pcs./pack	35.00			
		64210	# 120							
		64903	# 180							
		64211	# 240							
		64905	# 320							
		64212	# 400							
		64911	# 80	6						
		64201	# 120							
		64913	# 180							
		64202	# 240							
		64915	# 320							
		64203	# 400							
		64921	# 80	8	300	30 pcs./pack	35.00			
		64220	# 120							
		64923	# 180							
		64221	# 240							
		64925	# 320							
		64222	# 400							
	Sand Belt for Wood	64927	# 600							
		64928	# 800							
		64941	# 80							
	Zirconia	64942	# 120							
		64943	# 240							
		64971	# 80	8	300	30 pcs./pack	37.00			
	Diamond (Hard Type)	64972	# 100							
		64973	# 120							
		65011	# 80	8	300	3 pcs./pack	69.00			
		65012	# 120							
		65014	# 240							
	Diamond (Soft Type)	65015	# 320	8	300	3 pcs./pack	58.00			
		65017	# 600							
		65021	# 120	8	300	3 pcs./pack	52.00			
		65022	# 180							
		65023	# 240							
		65024	# 320	8	300	3 pcs./pack	47.00			
		LS65028	# 400							
	Felt	65025	# 600							
		LS65026	# 800							
		65027	#1,000							

# “Emax EVOlution” SPEED REDUCER & PARTS

AMERICAN ROTARY TOOLS CO.

[www.artcotoools.com](http://www.artcotools.com)

1

EmaxEVO

ESPERT

ROTRS

ECONOMO

IMPULSE

PRESTO II

SHEENUS

neo

SONIC

CUTTER

2

iSpeed3

E2530

E2550

E3000

— One Piece

E3000

— Modular

ø1.18"

ø1.0"

ø0.98"

ø0.897"

E3200

— Modular

E4000

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CAT.  
No. RO10214 SPEED REDUCER RG-01



**TORQUE UP 4 TIMES**  
(1/4 Speed Reducer)

- The speed is reduced to 1/4 but the torque is multiplied by 4 times.

- Weight : 2.40 oz.

30,000 min<sup>-1</sup>(rpm) Max. (※1)

#### Speed Reducer (1/4)

CAT. No.	Model	Standard Accessories	Price
RO10214	RG-01	• Pin Wrench (K-233) : 1 pc.	123.00

CAT.  
No. RO10228 SPEED REDUCER RG-02



**TORQUE UP 15 TIMES**  
(1/15 Speed Reducer)

- The speed is reduced to 1/15 but the torque is multiplied by 15 times.

- Weight : 3.28 oz.

30,000 min<sup>-1</sup>(rpm) Max. (※1)

#### Speed Reducer (1/15)

CAT. No.	Model	Standard Accessories	Price
RO10228	RG-02	• Pin Wrench (K-233) : 1 pc.	154.00

CAT.  
No. RE10210 EXTENSION JOINT CN-01



**(Speed 1 : 1)**

- This is a joint to be connected between a motor and an attachment to extend the total length of the attachment.

- Weight : 2.93 oz.

35,000 min<sup>-1</sup>(rpm) Max. (※1)

#### Extension Joint (Speed 1 : 1)

CAT. No.	Model	Standard Accessories	Price
RE10210	CN-01	• Pin Wrench (K-233) : 1 pc.	73.00

CAT.  
No. 8106 FOOT PEDAL FC-64



- Used as an ON/OFF switch as well as a variable speed control.

#### Foot Pedal

CAT. No.	Model	Fit to	Price
8106	FC-64	Emax EVOlution	99.00

\*Maximum Allowable Speed, continuous use may change depending on the material being cut and other application variables.

\*1 : Maximum Allowable Speed, intermittent use.

\*2 : Maximum Allowable Speed, continuous use.

# "Emax EVolution" ACCESSORIES

AMERICAN ROTARY TOOLS CO.

Toll Free US & CA +1 (800) 645-3824

1

EmaxEVO

ESPERT

ROTUS

ECONO

IMPULSE

PRESTO II

SHEENUS neo

SONIC CUTTER

2

iSpeed3

E2530

E2550

E3000 — One Piece

E3000 — Modular

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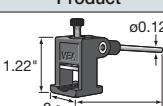
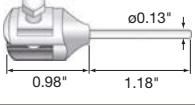
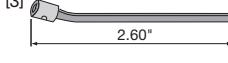
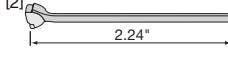
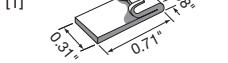
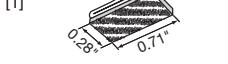
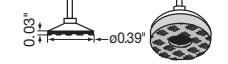
TECHNICAL DATA

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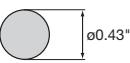
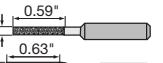
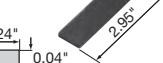
## Common Tools for LUSTER, MINI-LUSTER

Product	CAT. No.	Description · Model	Price
	LS 10834	Grindstone Holder VEA for (W 0.53" x T 0.43")	43.00
	62501	Grindstone Holder for (W 0.51" x T 0.08")	52.00
	62951	Grindstone Holder for (W 0.79" x T 0.14")	48.00
	LS 10875	Grindstone Holder VES for (W 0.43" x T 0.18")	32.00
	ZO 94005 94006 94007	Holder for Super Stone ...SH-10 (L1=0.40") (L2=1.00") ...SH-6 (L1=0.24") (L2=0.92") ...SH-4 (L1=0.16") (L2=0.87")	32.00 *1
	ZO 95008	Oil Stone Lapping Stick Holder for (W 0.24" x T 0.12")	32.00
	LS 10867	Tool Holder with Spring FVA	32.00
	LS 10853	Angle Rod NGA	15.00
	LS 10848	Rod for Lapping FBA-2	16.00
	LS 10891	LKE-2A with Hinge Use with FBA-2	15.00
	LS 11326	Hinge (Diamond) DLC-7 x 18-100	38.00 *2
	LS 10886	Ball Joint LAA-3A Use with SEV	18.00 *2
	LS 11327	Ball Joint (with Diamond) DLD-10/0.75	37.00 *2

[1]~[4] : Please See Page 1-p14 for Illustration Usage.

\*1 : Other than noted, prices are per piece.

\*2 : Available while supply lasts. Check with NSK America.

Product	CAT. No.	Description · Model	Price
	LS10900	S-008 # 80	100 pcs. Package 15.00
	LS10902	S-012 # 120	
	LS10904	S-018 # 180	
	LS10905	S-024 # 240	
	LS10906	S-032 # 320	
	LS10908	S-040 # 400	
	LS10910	S-060 # 600	
	LS10912	S-080 # 800	
	LS10914	S-100 # 1,000	
	LS10915	S-150 # 1,500	
	LS10917	K-008 # 80	100 pcs. Package 28.00
	LS10919	K-012 # 120	
	LS10921	K-018 # 180	
	LS10924	K-024 # 240	
	LS10923	K-032 # 320	
	LS10925	K-040 # 400	
	LS10927	K-060 # 600	
	LS10929	K-080 # 800	
	LS10931	K-100 # 1,000	
	LS10932	K-150 # 1,500	
	LS10963	DLA-1-100	28.00
	LS10918	DLA4 x 1-100	37.00
	LS10922	DLA1 x 4-100	30.00
	LS26712	Black # 600	*2
	LS26707	Blue # 800	*2
	LS26708	White # 1,000	*2
	LS26709	Red # 1,200	*2
	LS26711	Black # 600	*2
	LS26704	Blue # 800	*2
	LS26705	White # 1,000	*2
	LS26706	Red # 1,200	*2
	LS26710	Black # 600	*2
	LS26701	Blue # 800	*2
	LS26702	White # 1,000	*2
	LS26703	Red # 1,200	*2