



Motors & Spindles, Micro-grinders

Ultra-Precision Electrically / Pneumatically Driven

Precision & Reliability

NSK America

NAKANISHI
E4000 CONTROL UNIT

AMERICAN ROTARY TOOLS CO. (ARTCO TOOLS)
250 WEST DUARTE ROAD, #E
MONROVIA, CA USA 91016-7464

Tel: (626) 358-8466 Fax: (626) 358-0076
Toll Free USA Tel: (800) 624-2212 Fax: (800) 624-2210
Email: info@artcotools.com

2010/11
Edition

Micro-Grinder

Air Driven



ROTUS

30,000 min⁻¹(rpm)

ULTRA-PRECISION HIGH TORQUE AIR GRINDER

- High torque air motor assembled with special vane mechanism.
- Two types of air motors can be selected depending on the application.
- 1/4 and 1/15 Speed Reducers (RG-01, RG-02) can be connected.
- **Lubricating oil is required.**



ECOMO

58,000 min⁻¹(rpm)

ULTRA-PRECISION HIGH-TORQUE AIR GRINDER

- Durable and high-efficient air grinder.
- The ECOMO Series also offers 45 degree and 90 degree models. Choose the type that best fits your application requirements.
- **Lubricating oil is required.**



IMPULSE

60,000 min⁻¹(rpm)

ULTRA-PRECISION HIGH-TORQUE AIR GRINDER

- Durable and quiet high-efficient air grinder.
- The IMPULSE Series also offers 45 degree and 90 degree models. Choose the type that best fits your application requirements.
- **Lubricating oil is required.**



PRESTO II

320,000 min⁻¹(rpm)

ULTRA-PRECISION HIGH SPEED AIR TURBINE GRINDER

- Most suitable for delicate processing works due to no lube air turbine handpiece.



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EmaxEVO
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ROTUS
ECOMO
IMPULSE
PRESTO II
SHEENUS 100
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iSpeed
E2530
E2550
E3000
E3200
E4000
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MA SERIES
ø0.897"
ø1.0"
ø0.98"
ø1.18"
MS SERIES
ø0.75"
ø0.79"
ø0.87"
ø0.91"
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ULTRA-PRECISION HIGH TORQUE AIR GRINDER

“ROTUS”

ROTUS System Chart

CAT. No.	Model	Price
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RE11008	IR-310	268.00
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RE10178	IH-300	268.00
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RE10188	HG-200	268.00
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25,000 min⁻¹(rpm) Max. (*1)

RE10235	BMH-300	268.00
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RE10247	MFC-300S	256.00
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15,000 min⁻¹(rpm) Max. (*1)

RE10252	MFC-300M	206.00
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15,000 min⁻¹(rpm) Max. (*1)

RE10182	IC-300	201.00
---------	--------	--------

20,000 min⁻¹(rpm) Max. (*2)

RE10266	KC-300	201.00
---------	--------	--------

20,000 min⁻¹(rpm) Max. (*2)

LS10815	LS-100	761.00
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LS51307	ML-8	551.00
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LS11380	SLS-16	551.00
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RE18060	HA-500	536.00
---------	--------	--------

20,000 min⁻¹(rpm) Max. (*1) 16,000 min⁻¹(rpm) Max. (*2)

KBS61065	KBS-101	540.00
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Attachment



Ring Type



Lever Type



Torque Type



Long Type



90° Mini Angle Type



90° Mini Angle Type (Very Small Head)



90° Angle Type



45° Angle Type



LUSTER
(Reciprocating motion)



MINI-LUSTER (Reciprocating motion)



SWING-LUSTER (Right to Left motion)



Hammer Action Type



FINE BELT SANDER

Speed Reducer · Extension Joint



Extension Joint

RE10210	CN-01	67.00
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1/4 Speed Reducer

RO10214	RG-01	112.00
---------	-------	--------



1/15 Speed Reducer

RO10228	RG-02	140.00
---------	-------	--------

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



• Air Motor with Chip Air Mechanism
3,000-30,000 min⁻¹(rpm)

RO10163A	IM-300	382.00
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• Air Motor with 360° Twist-Free Joint
3,000-30,000 min⁻¹(rpm)

RO10163	IM-301	382.00
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• Air Line kit

AL0306	AL-0306	242.00
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*This air line kit is designed for use with the AFC-45 foot control, CAT. No.AF10045.



• Foot Control

AF10045	AFC-45	120.00
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1

EmaxEVO

ESPERT

ROTUS

ECOMO

IMPULSE

PRESTO II

SHEENUS

SONIC CUTTER

2

iSpeed

E2530

E2550

E3000

E3200

E4000

3

MA SERIES

φ0.897"

φ1.0"

φ0.98"

φ1.18"

MS SERIES

φ0.75"

φ0.79"

φ0.87"

φ0.91"

φ1.0"

φ0.98"

φ1.18"

HIGH SPEED

AMX

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HES

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Ultra-Precision High-Torque Air Grinder

- 30,000 min⁻¹(rpm)
- High torque air motor assembled with special vane mechanism.
- Two types of air motors can be selected depending on the application.
- 1/4 and 1/15 Speed Reducers (RG-01, RG-02) can be connected.

One Touch Tool Changing

- Ring Type (IR-310)
Ring operated open/close chuck



A Special Rotary Vane Air Motor is Incorporated

The air motor utilizes a special vane design which keeps constant speed even under load providing stable grinding and polishing operation.

Twist Free Hose

To prevent twisting of the hose, 360° Twist- Free Joint connects the motor and the hose.

Wide-range of Collet Sizes

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

Ring Switch

Assembled with ON/OFF, speed control and FWD./REV. control ring switch.

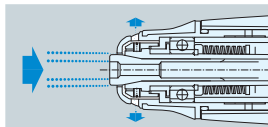
16 Types of Attachments for All Types of Applications

Capable of infinite applications with 13 different handpieces and 3 types of intermediate attachments.
* Interchangeable with attachments form the Emax EVOLution series.



Special Dust Protection Mechanism (patented)

The chuck section of ROTUS has a special built-in dust protection mechanism that prevents entry of foreign matter such as chips and provides superior durability.



Attachment IR-310 + Air motor IM-301

Specifications

Speed	: Max. 30,000 min ⁻¹ (rpm) (56PSI)
Proper Air Pressure	: 42-63PSI
Air Consumption	: 2.65CFM
Output Power	: 46W (motor)
Max. Torque	: 6.6 cN · m (56PSI)
Motor	: Air motor IM-301
Dimensions	: Air motor (IM-301) + Attachment (IR-310) See left figures
Weight	: Air motor (IM-301) + Attachment (IR-310) : 6.63 oz.

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EmaxEVO

ESPERT

ROTUS

ECOMO

IMPULSE

PRESTO II

SHEENUS neo

SONIC CUTTER

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iSpeed

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E2550

E3000

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“ROTUS” STANDARD SET

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CAT. No. 1148 ROTUS STANDARD SET (Ring Type)



This model incorporates the top seller being used in many applications throughout the world. As well as providing an excellent balance of speed, torque, size and weight, it is capable of dealing with rough or precise work. Furthermore the bur can be replaced with one touch, just by turning the ring.

30,000 min⁻¹(rpm)

*The new ring type IR-310 is the standard attachment for ROTUS standard set R301-IR.

CAT.No.	1148	Model	R301-IR	Price	962.00
	Attachment		IR-310	Motor	
	IR-310		IM-301		
Standard Equipment	Air Grinder (IM-301+IR-310) : 1 pc. Collet ø1/8" (CHH-3.175), ø2.35 mm (CHH-2.35) : 1 pc. each Air Line Kit (AL-0306) : 1 pc. Foot Control (AFC-45) : 1 pc. Hose for Piping (K-275) 6 ft : 1 pc. Lubricating Oil (K-211) : 1 pc. Wrench (7 x 5.1) : 1 pc. Pin Wrench (K-233) : 2 pcs. L Shaped Wrench : 1 pc.				

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"ROTUS" MOTOR

AMERICAN ROTARY TOOLS CO. Toll Free USA Tel: (800) 624-2212

Motor for ROTUS (Pneumatically Driven)

Air motor designed for high-efficiency

To achieve high torque, ROTUS air motor is assembled with micron precision between the vanes and the internal surface of cylinder using NAKANISHI's proprietary techniques. This high performance air motor with minimal power loss from load fluctuation has excellent performance in its grinding stability. Moreover, the motor with minimal air consumption runs quietly and the energy-saving mechanism makes it possible to operate with a 1 hp (0.75KW) air compressor.

Air Cooling System generates no heat for a continuous operation

The motor prevents heat generation and expansion of metal by air cooling system and provides stable rotation speed.

Light-weight and compact design

The motor with attachment IR-310 is only 8.74 oz. Its light-weight and well balanced design provides excellent grinding performance.

Assembled with Speed Control and Forward/Reverse Control Ring

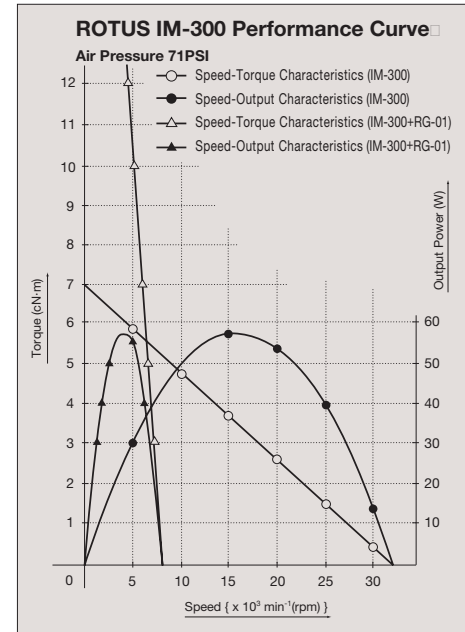
Forward/Reverse Rotating Direction Control Ring located at the end of the motor can control the motor speed as well.

Speed control by Foot Control

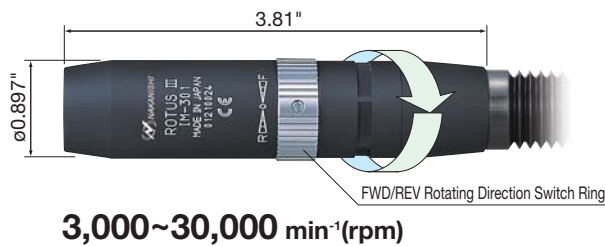
Fine adjustment of variable speed can be controlled by Foot Control.

Excellent quietness with Silencer

By attaching the silencer to the end of the exhaust air tubing, the motor is operated extremely quiet.



CAT. No. R010163 AIR MOTOR IM-301 (with Twist-Free Joint Mechanism)



Air Motor with 360° Twist-Free Joint Mechanism

- Adopted Twist-Free Joint mechanism between the motor and the hose has solved the problem of hose twisting.
- Weight : 4.59 oz. excluding hose

CAT. No.	Model	Standard Accessories	Price
R010163	IM-301	<ul style="list-style-type: none"> • Hose (K-206) : 6 ft • Silencer (K-209) • Pin Wrench (K-233) : 1 pc. 	382.00

CAT. No. R010163A AIR MOTOR IM-300 (with Chip Air Mechanism)



Air Motor with Chip Air Mechanism

- Air motor IM-300 with Chip Air mechanism blows away the cutting dust with clean air coming through the top end of the attachment. The hand-held cutting work remains cool by the chip air allowing comfort through out the working process. (This is only with the attachment IH-300)
- Weight : 4.59 oz. excluding hose



CAT. No.	Model	Standard Accessories	Price
R010163A	IM-300	<ul style="list-style-type: none"> • Hose (K-207) : 6 ft • Silencer (K-209) • Pin Wrench (K-233) : 1 pc. 	382.00

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SHEENUS neo
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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.	268.00

CAT. No. RE10178 LEVER TYPE ATTACHMENT IH-300



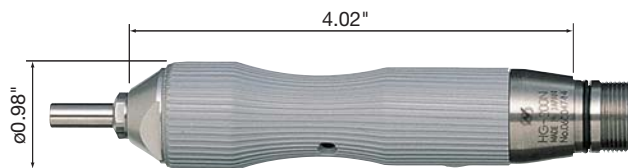
● Perfectly designed for powerful and delicate cutting and grinding, and made slim and light weight for comfortable gripping.

- 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.	268.00

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 : ø1/4" (CHG-6.35)
 Optional Collets : CHG-□□ are shown in page (6-p2)

25,000 min⁻¹(rpm) Max. (*1)
 *Please use it together with Speed Reducer.

Torque Type Attachment

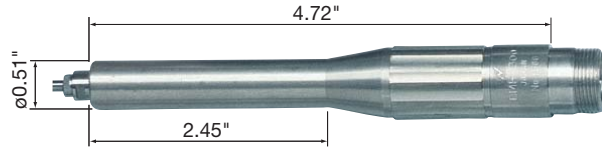
CAT. No.	Model	Standard Accessories	Price
RE10188	HG-200	• Collet ø1/4" (CHG-6.35) : 1 pc. • Wrench (10 x 10) : 1 pc. • Bar Wrench (K-212) : 1 pc. • Pin Wrench (K-233) : 1 pc.	268.00

"ROTUS" ATTACHMENTS

AMERICAN ROTARY TOOLS CO.

Toll Free USA Tel: (800) 624-2212

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 : $\phi 1/8"$ (CHM-3.175)
Optional Collets : CHM-□□ are shown in page (6-p4)

Long Attachment for Deep Hole Grinding

CAT. No.	Model	Standard Accessories	Price
RE10235	BMH-300	<ul style="list-style-type: none"> • Collet $\phi 1/8"$ (CHM-3.175) : 1 pc. • Wrench (7 x 5.1), (6 x 4.5) : 1 pc. each • Pin Wrench (K-233) : 1 pc. 	268.00

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 : $\phi 0.79"$
- Weight : 1.76 oz.
- Standard Collet : $\phi 1.6$ mm (K-252)
- Speed Reduction Ratio : 10/11

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

CAT. No.	Model	Standard Accessories	Price
RE10247	MFC-300S	<ul style="list-style-type: none"> • Collet $\phi 1.6$ mm (K-252) : 1 pc. • Chuck Wrench (K-232) : 1 pc. • Pin Wrench (K-233) : 1 pc. 	256.00

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 : $\phi 0.51"$
- Weight : 1.66 oz.
- Standard Collet : $\phi 1.6$ mm (K-253)
- Speed Reduction Ratio : 10/11

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

CAT. No.	Model	Standard Accessories	Price
RE10252	MFC-300M	<ul style="list-style-type: none"> • Collet $\phi 1.6$ mm (K-253) : 1 pc. • Chuck Wrench (K-232) : 1 pc. • Pin Wrench (K-233) : 1 pc. 	206.00

*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.

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EmaxEVO
ESPERT
ROTUS
ECOMO
IMPULSE
PRESTO II
SHEENUS neo
SONIC CUTTER
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iSpeed
E2530
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E3200
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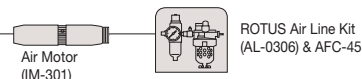
"ROTUS" ATTACHMENTS & ACCESSORIES

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



20,000 min⁻¹(rpm) Max. (*2)
*Please use it together with Speed Reducer.

Drive Motor & Control Unit



*For the details of above air motor, refer to the following page (1-p33)

- 90° Angle attachment with $\phi 1/8"$ ($\phi 3.175$ mm) Collet. Most suitable for polishing flat surfaces, corners and internal surfaces of pipes with paper disk mounted on rubber pad.

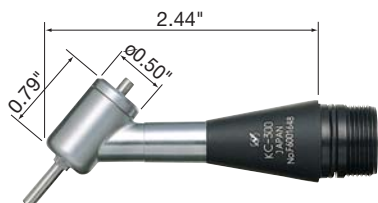
- Reduction Ratio : 3/4
- Weight : 1.59 oz.
- Collet
Standard Size : $\phi 1/8"$ (CHC-3.175)
Optional Collets : CHC-□□ are shown in page (6-p2)



90° Angle Attachment

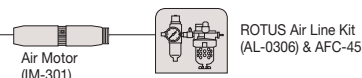
CAT. No.	Model	Standard Accessories	Price
RE10182	IC-300	<ul style="list-style-type: none"> • Collet $\phi 1/8"$ (CHC-3.175) : 1 pc. • Standard Accessories : 1 set • Chuck Wrench (K-231) : 1 pc. • Pin Wrench (K-233) : 1 pc. 	201.00

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



20,000 min⁻¹(rpm) Max. (*2)
*Please use it together with Speed Reducer.

Drive Motor & Control Unit



*For the details of above air motor, refer to the following page (1-p33)

- 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 : $\phi 1/8"$ (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"> • Collet $\phi 1/8"$ (CHC-3.175) : 1 pc. • Standard Accessories : 1 set • Chuck Wrench (K-231) : 1 pc. • Pin Wrench (K-233) : 1 pc. 	201.00


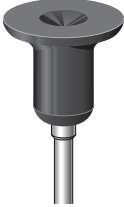
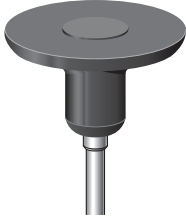
Standard Accessories for IC-300 and KC-300

Description		CAT. No.	Model	O.D.	Grits	Q'ty
Rubber Pad	(Small)	RE11915	---	$\phi 10$ mm ($\phi 0.39"$)	-	1
	(Med)	RE11916	---	$\phi 20$ mm ($\phi 0.79"$)	-	1
	(Large)	RE11917	---	$\phi 30$ mm ($\phi 1.18"$)	-	1
Sandpaper Disk		LS10904	S-018	$\phi 11$ mm ($\phi 0.43"$)	# 180	5
		LS10910	S-060	$\phi 11$ mm ($\phi 0.43"$)	# 600	5
		RE11804	M-018	$\phi 21$ mm ($\phi 0.83"$)	# 180	5
		RE11810	M-060	$\phi 21$ mm ($\phi 0.83"$)	# 600	5
		RE11904	L-018	$\phi 31$ mm ($\phi 1.22"$)	# 180	5
		RE11910	L-060	$\phi 31$ mm ($\phi 1.22"$)	# 600	5




"ROTUS" ACCESSORIES

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	4.00
	Rubber Pad (Med)	RE11916	--	ø20 mm (ø0.79")	-	1 pc./pack	4.00
	Rubber Pad (Large)	RE11917	--	ø30 mm (ø1.18")	-	1 pc./pack	4.00

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	13.00	
		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					
	Sandpaper Disk for med. pad	RE11800	M-008	ø21 mm (ø0.83")	# 80	100 pcs./pack 22.00	
		RE11802	M-012		# 120		
		RE11804	M-018		# 180		
		RE11805	M-024		# 240		
		RE11806	M-032		# 320		
		RE11808	M-040		# 400		
		RE11810	M-060		# 600		
		RE11812	M-080		# 800		
		RE11814	M-100		#1,000		
RE11815	M-150	#1,500					
	Sandpaper Disk for large pad	RE11900	L-008	ø31 mm (ø1.22")	# 80	25.00	
		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					

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“ROTUS” ATTACHMENTS

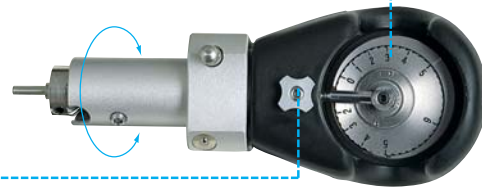
The Features of LUSTER LS-100



- **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.

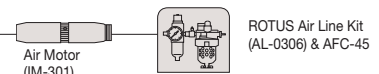


● **Stroke Range : 0~6 mm adjustable by stroke cam**



● **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



*For the details of above air motor, refer to the following page (1-p33)

- Weight : 1 lb. 7.99 oz.
- Max. tool shank diameter $\phi 0.25"$, 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"> • Standard Accessories : 1 set • Allen Wrench (2 mm) : 1 pc. • Lubrication Oil • Lubrication Nozzle for LUSTER 	761.00

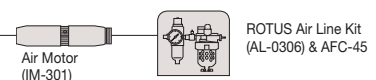
The Features of MINI-LUSTER ML-8



- **Reciprocating Stroke (variable) :** Approx 0~7,600 times/min.
- **Stroke Range (fixed) :** 0.8 mm.
- **Due to pencil type grip, it is most suitable for polishing narrow grooves, details, etc.**
- **Light weight, 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



*For the details of above air motor, refer to the following page (1-p33)

- Weight : 4.59 oz.
- Max. tool shank diameter $\phi 0.13"$, Screw clamp type.
- Various attachment tools and holders are provided as standard accessories.

Pencil-Type Reciprocating Polishing Finisher MINI-LUSTER Attachment

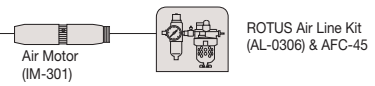
CAT. No.	Model	Stroke Range	Standard Accessories	Price
LS51307	ML-8	0.8mm	<ul style="list-style-type: none"> • Standard Accessories : 1 set • Allen Wrench (1.5 mm) : 1 pc. 	551.00

"ROTUS" ATTACHMENTS & ACCESSORIES

The Features of SWING-LUSTER SLS-16



Drive Motor & Control Unit



*For the details of above air motor, refer to the following page (1-p33)

- 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.



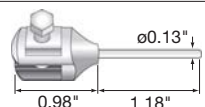

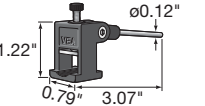




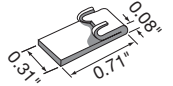



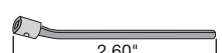

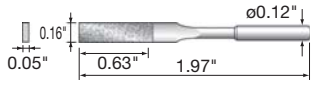





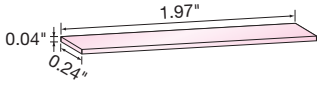


- Weight : 4.48 oz. • Reciprocating Stroke (Variable) : 0~7,600 times/min
- Stroke range (Variable) : 0~1.6 mm
- Max. tool shank diameter $\phi 0.20$ ", Screw clamp type.

Pencil-Type Reciprocating Polishing Finisher SWING-LUSTER Attachment

CAT. No.	Model	Standard Accessories	Price
LS11380	SLS-16	<ul style="list-style-type: none"> • Standard Accessories : 1 set • Allen Wrench (1.5 mm) : 1 pc. 	551.00

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 LS-100	MINI-LUSTER ML-8	SWING-LUSTER SLS-16
Max. clampable size : Thickness 0.08" x width 0.51" 	Grindstone Holder	62501	47.00 (3 pcs./pack)	 (1 pc.)		
Max. clampable size : Thickness 0.18" x width 0.43" 	Grindstone Holder VES	LS10875	29.00 (1 pc./pack)	 (1 pc.)		
Max. clampable size : Thickness 0.43" x width 0.53" 	Grindstone Holder VEA	LS10834	39.00 (1 pc./pack)	 (1 pc.)		
[4] 	Tool Holder with Spring FVA	LS10867	29.00 (1 pc./pack)	 (1 pc.)	 (1 pc.)	
[1] 	Rectangular Pad LKE-2A	LS10891	13.00 (1 pc./pack)	 (1 pc.)		
[2] 	Rod for Rectangular Pad FBA-2	LS10848	14.00 (1 pc./pack)	 (1 pc.)		
[3] 	Angle Rod NGA	LS10853	13.00 (1 pc./pack)	 (1 pc.)		
	Diamond Grindstone DLA4 x 1-100	LS10918	33.00 (1 pc./pack)		 (1 pc.)	 (1 pc.)
Max. clampable size : Thickness 0.14" x width 0.79" 	Grindstone Holder	62951	43.00 (3 pcs./pack)		 (1 pc.)	 (1 pc.)
	Ceramic Fiber Grindstone (#1,200)	60737	37.15 (2 pcs./pack)		 (1 pc.)	 (1 pc.)

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

* Order by catalog number. 1-p39

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“ROTUS” ATTACHMENTS

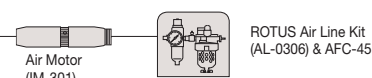
AMERICAN ROTARY TOOLS CO.

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The Features of HA-500



Drive Motor & Control Unit



*For the details of above air motor, refer to the following page (1-p33)


- 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

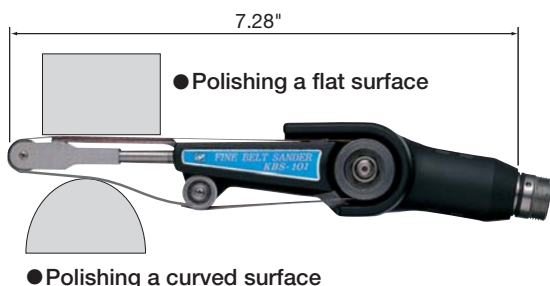
CAT. No.	Model	Standard Accessories	Price
RE18060	HA-500	<ul style="list-style-type: none"> • Wrench (7 x 5.1) : 1 pc. • Bar Wrench (K-212) : 1 pc. • Oil and Oil offer machine • Hammer Bit (For replacement) : 2 pcs. 	536.00

20,000 min⁻¹(rpm) Max. (*1) 16,000 min⁻¹(rpm) Max. (*2) *Please use it together with Speed Reducer.

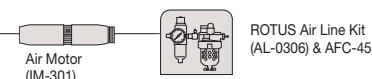
Hammer Bit to be machined to required shapes (SUS-420, heat treated, approx, HRC50)

Product	CAT. No.	Package	Price
	RE65301	3 pcs./pack	45.00

The Features of FINE BELT SANDER KBS-101



Drive Motor & Control Unit



*For the details of above air motor, refer to the following page (1-p33)

- Belt runs Approx. 0~2,300 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"> • 8 mm Belt (3 kinds 2 pcs. each) • 6 mm Belt (3 kinds 2 pcs. each) • 4 mm Belt (3 kinds 2 pcs. each) • Allen Wrench (3 mm) : 1 pc. 	540.00

"ROTUS" ACCESSORIES

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	31.00
		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			
		64220	# 120				
		64923	# 180				
		64221	# 240				
		64925	# 320				
		64222	# 400				
64927	# 600						
64928	# 800						
64941	# 80						
64942	# 120						
64943	# 240						
	Zirconia	64971	# 80	8	300	30 pcs./pack	33.00
		64972	# 100				
		64973	# 120				
	Diamond (Hard Type)	65011	# 80	8	300	3 pcs./pack	62.00
		65012	# 120				
		65014	# 240	8			
		65015	# 320				
		65017	# 600				
	Diamond (Soft Type)	65021	# 120	8	300	3 pcs./pack	47.00
		65022	# 180				
		65023	# 240				
		65024	# 320				
		LS65028	# 400	8			
		65025	# 600				
		LS65026	# 800				
		65027	#1,000				
	Felt	65101	—	8	300	5 pcs./pack	31.00

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"ROTUS" SPEED REDUCER & AIR LINE KIT & PARTS

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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.

Speed Reducer (1/4)

CAT. No.	Model	Standard Accessories	Price
RO10214	RG-01	• Pin Wrench (K-233) : 1 pc.	112.00

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.

Speed Reducer (1/15)

CAT. No.	Model	Standard Accessories	Price
RO10228	RG-02	• Pin Wrench (K-233) : 1 pc.	140.00

CAT. No. RE10210 EXTENSION JOINT CN-01



(Speed 1 : 1)

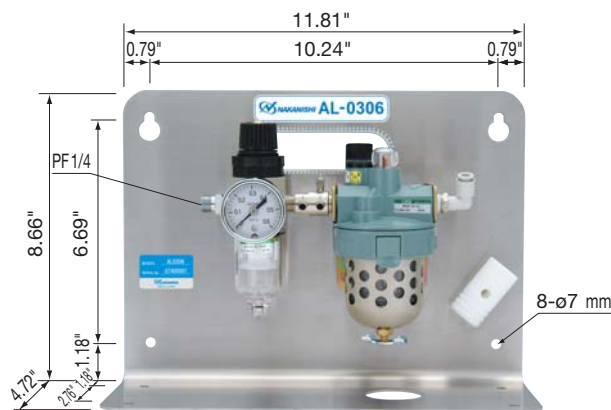
● This is a joint to be connected between a motor and an attachment to extend the total length of the attachment.

● Weight : 2.93 oz.

Extension Joint (Speed 1 : 1)

CAT. No.	Model	Standard Accessories	Price
RE10210	CN-01	• Pin Wrench (K-233) : 1 pc.	67.00

CAT. No. AL0306 AIR LINE KIT AL-0306



*This air line kit is designed for use with the AFC-45 foot control, CAT. No. AF10045.

- Ensures a smooth operation and long life by supplying stable, conditioned air to the air motor.
- Three functions : air filter, regulator, mist lubricator can also be used to adjust motor speed.
- Lubricator is specially designed to supply oil to the air motor and spindle.
- Smart design for setting on floor or wall.

Air Line Kit (For ø6 mm Hose · Filter Mesh 5 µm)

CAT. No.	Model	Standard Equipment · Accessories	Price
AL0306	AL-0306	<ul style="list-style-type: none"> • Air Filter • Air Regulator • Air Pressure Gauge • Lubricator • Air Control Valve (CV-05) • Hose for Piping (K-275) : 6 ft • Bracket • Lubricating Oil (K-211) : 1 pc. 	242.00

CAT. No. AF10045 FOOT CONTROL AFC-45



* Use air line kit AL-0306, CAT. No. AL0306 with this foot control.

- Designed to depress from any direction.
- Fine adjustment of speed control is possible.

Foot Control

CAT. No.	Model	Fit to	Price
AF10045	AFC-45	Air Line Kit (AL-0306)	120.00

CAT. No. AA10040 SILENCER K-209



- By attaching the silencer at the end of exhaust air tubing, the operation noise is extremely reduced.

Silencer

CAT. No.	Model	Description	Price
AA10040	K-209	Large Silencer (w/Metal Fittings)	32.00

"ROTUS" ACCESSORIES

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")	39.00
	62501	Grindstone Holder for (W 0.51" x T 0.08")	47.00
	62951	Grindstone Holder for (W 0.79" x T 0.14")	43.00
	LS 10875	Grindstone Holder VES for (W 0.43" x T 0.18")	29.00
	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")	29.00 *1
	ZO 95008	Oil Stone Lapping Stick Holder for (W 0.24" x T 0.12")	29.00
	LS 10867	Tool Holder with Spring FVA	29.00
	LS 10853	Angle Rod NGA	13.00
	LS 10848	Rod for Lapping FBA-2	14.00
	LS 10891	LKE-2A with Hinge Use with FBA-2	13.00
	LS 11326	Hinge (Diamond) DLC-7 x 18-100	34.00 *2
	LS 10886	Ball Joint LAA-3A Use with SEV	16.00 *2
	LS 11327	Ball Joint (with Diamond) DLD-10/0.75	33.00 *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 13.00		
	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 25.00		
	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	25.00
		LS10918		DLA4 x 1-100	33.00
LS10922		DLA1 x 4-100	27.00		
	LS26712	Black # 600	*2 49.00		
	LS26707	Blue # 800	*2 38.00		
	LS26708	White # 1,000	*2 38.00		
	LS26709	Red # 1,200	*2 37.00		
	LS26711	Black # 600	*2 37.00		
	LS26704	Blue # 800	*2 28.00		
	LS26705	White # 1,000	*2 28.00		
	LS26706	Red # 1,200	*2 23.00		
	LS26710	Black # 600	*2 23.00		
	LS26701	Blue # 800	*2 19.00		
	LS26702	White # 1,000	*2 19.00		
	LS26703	Red # 1,200	*2 19.00		

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MONROVIA, CA USA 91016-7464

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