

ROTUS

Interchangeability with a variety of attachments ideal for any applications.

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.

17 Types of Attachments for All Types of Applications

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

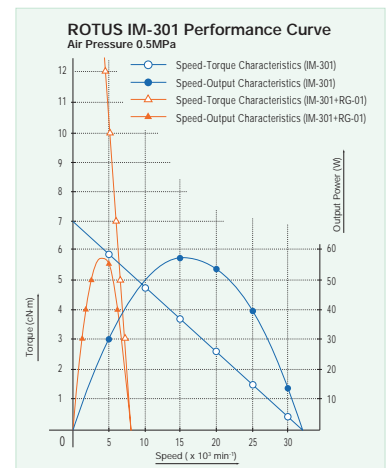
Twist Free Hose

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



ROTUS Series Features

- To achieve high torque, ROTUS air motor is assembled with micron precision between the vanes and the internal surface of the 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 0.75KW (1 hp) air compressor.
- Lightweight and compact design. 130 g (w/o hose)
- 17 types of attachments for all types of applications.
- ON/OFF, FWD./REV. Rotation Direction and Motor Speed can be controlled only by the Ring Switch.
*Foot controller is available : used as an ON/OFF switch as well as a variable speed control.
- Air cooling system generates no heat for continuous operation.
- By attaching the silencer to the end of the exhaust air tubing, the motor is operated extremely quiet.
- Twist-Free Joint mechanism is installed in IM-301 to solve the problem of hose twisting.



Specifications

| | |
|---------------------|---|
| Speed | : Max. 30,000min ⁻¹ (0.4MPa) |
| Proper Air Pressure | : 0.3-0.45MPa |
| Air Consumption | : 75NL/min |
| Max. Torque | : 6.6 cN·m (0.4MPa) |
| Output Power | : 46W |

ROTUS SERIES

ROTUS AIR MOTOR (with Twist-Free Joint Mechanism)

Code No. **1004** Model **IM-301**

3,000~30,000 min⁻¹



<Air Motor with 360° Twist-Free Joint Mechanism>

- Adapted Twist-Free Joint mechanism between the motor and the hose solves the problem of hose twisting.

◆ Weight : 130 g

Standard Accessories _____

- Hose (K-206) : 2 m • Silencer (K-209) • Pin Spanner (K-233) : 1pc.

ROTUS AIR MOTOR (with Chip Air Mechanism)

Code No. **1003** Model **IM-300**

3,000~30,000 min⁻¹



<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 throughout the working process.

* This is only with the attachment IH-300.

◆ Weight : 130 g

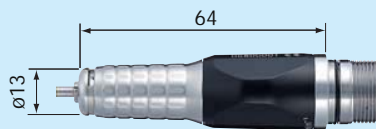
Standard Accessories _____

- Hose (K-207) : 2 m • Silencer (K-209) • Pin Spanner (K-233) : 1pc.



RING TYPE ATTACHMENT

Code No. **1147** Model **IR-310**



40,000 min⁻¹ Max. (*1) 40,000 min⁻¹ Max. (*2)

- High precision and high reliability is realized by micron precision.
- Slim, lightweight design allows for fine finishing of delicate parts.
- One-touch ring type bur replacement.



◆ Weight : 92 g

Standard Size Chuck Collet

ø3.0 mm (CHH-3.0) ø2.35 mm (CHH-2.35)

Standard Accessories _____

- Spanner (7x5.1) : 1 pc. • Pin Spanner (K-233) : 1 pc.
- L Shaped Spanner : 1 pc.

LUSTER ATTACHMENT (Pistol-Type Polisher)

Code No. **1302** Model **LS-100**

Reciprocating motion



30,000 min⁻¹ Max. (*1) 30,000 min⁻¹ Max. (*2)

- High performance grinding & polishing with high power and reciprocating stroke.
- Well-balanced, rubber-grip absorbs vibration.
- Stroke Range : 0~6 mm
- Reciprocating Stroke (variable) : 0~7,600 times/min.

◆ Weight : 680 g

◆ Mountable tool :

Max. shaft diameter ø6.4 mm, Screw clamp type.

Standard Accessories _____

- Lubricating Oil • Lubrication Nozzle for LUSTER
- Standard attachment's tools set

MINI-LUSTER ATTACHMENT (Pencil-Type Polisher)

Code No. **1307** Model **ML-8** Stroke (0.8 mm)

Reciprocating motion



35,000 min⁻¹ Max. (*1) 30,000 min⁻¹ Max. (*2)

- Due to pencil type grip, it is the most suitable for polishing narrow groove, details, etc.
- Reciprocating Stroke (Variable) : 0~7,600 times/min.

◆ Weight : 130 g

◆ Mountable tool : Max. shaft diameter ø3.2 mm, Screw clamp type

Standard Accessories _____

- Standard attachment's tools set

FINE BELT SANDER ATTACHMENT

Code No. **1146** Model **KBS-101**



35,000 min⁻¹ Max. (*1) 35,000 min⁻¹ Max. (*2)

- Adjustable belt speed and angle.
- Exchanging the belt is simply done by lever release.

◆ Belt speed : 0~825 m/min.

◆ Weight : 350 g

◆ Belt Width : 8 mm, 6 mm, 4 mm

Standard Accessories _____

- Allen Wrench (3 mm) : 1 pc. • Standard attachment's tools set

*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.

ROTUS Attachment

| Product | Description | Code No. | Model | Specification |
|---|---|----------|----------|--|
|  | LEVER TYPE ATTACHMENT | 1005 | IH-300 | <ul style="list-style-type: none"> Slim and lightweight for micro grinding process. Lever Type one touch bur release. Chuck Collet : $\phi 3.0$ mm (CHH-3.0), $\phi 2.35$ mm (CHH-2.35) 40,000 min⁻¹ Max. (*1) 40,000 min⁻¹ Max. (*2) |
|  | STRAIGHT TYPE ATTACHMENT | 2811 | IG-400 | <ul style="list-style-type: none"> Lightweight 55g. NK Micron Chuck permits strong retention and high precision performance. Chuck Collet : $\phi 3.0$ mm (NKM6-3.0) ● Chuck Nut (CHN-6) 40,000 min⁻¹ Max. (*1) 40,000 min⁻¹ Max. (*2) |
|  | 6 mm TORQUE TYPE ATTACHMENT | 1016 | HG-200 | <ul style="list-style-type: none"> Permits the use of $\phi 6.0$ mm shank burs. Chuck is tightened by a spanner. Chuck Collet : $\phi 6.0$ mm (CHG-6.0) 27,000 min⁻¹ Max. (*1) 27,000 min⁻¹ Max. (*2) *Please use it with Speed Reducer. |
|  | STRAIGHT ATTACHMENT for Deep Hole Grinding $\phi 13$ mm | 1017 | BMH-300 | <ul style="list-style-type: none"> Suitable for polishing the narrow groove, details and etc. Chuck is tightened by a spanner. Chuck Collet : $\phi 3.0$ mm (CHM-3.0) 35,000 min⁻¹ Max. (*1) 35,000 min⁻¹ Max. (*2) |
|  | 90° MINI ANGLE ATTACHMENT for Chamfering Deep Hole | 1012 | MFC-300S | <ul style="list-style-type: none"> Suitable for chamfering and deburring the inside of the slit pipe. Chuck Collet : $\phi 1.6$ mm (K-252) 15,000 min⁻¹ Max. (*1) 15,000 min⁻¹ Max. (*2) *Please use it with Speed Reducer. |
|  | 90° MINI ANGLE ATTACHMENT for Chamfering Deep Hole (Very Small Head) | 1013 | MFC-300M | <ul style="list-style-type: none"> Suitable for chamfering and deburring the inside of the slit pipe. Chuck Collet : $\phi 1.6$ mm (K-253) 15,000 min⁻¹ Max. (*1) 15,000 min⁻¹ Max. (*2) *Please use it with Speed Reducer. |
|  | 90° ANGLE ATTACHMENT | 1006 | IC-300 | <ul style="list-style-type: none"> Suitable for polishing a flat surface at speed with a grinding disk pad. Chuck Collet : $\phi 3.0$ mm (CHC-3.0) 35,000 min⁻¹ Max. (*1) 20,000 min⁻¹ Max. (*2) *Please use it with Speed Reducer. |
|  | 45° ANGLE ATTACHMENT | 1014 | KC-300 | <ul style="list-style-type: none"> Ideal for the work at 45° angle, especially corners and deep concaves. Chuck Collet : $\phi 3.0$ mm (CHC-3.0) 35,000 min⁻¹ Max. (*1) 20,000 min⁻¹ Max. (*2) *Please use it with Speed Reducer. |
|  | SWING-LUSTER ATTACHMENT (Pencil-Type Polisher) (Right to Left motion) | 1380 | SLS-16 | <ul style="list-style-type: none"> Easily adjustable stroke length allows efficient work on minute areas or large sections. Reciprocating Stroke : 0-9,000 times/min Stroke Range (Variable) : 0-1.6 mm 35,000 min⁻¹ Max. (*1) 24,000 min⁻¹ Max. (*2) |
|  | HAMMER ATTACHMENT | 8060 | HA-500 | <ul style="list-style-type: none"> Various patterns can be processed with hammer action. Stroke Times : 25-5,000 times/min. Stroke Spring Pressure : 4.4-7.1 N (Ring Adjustment Type) 20,000 min⁻¹ Max. (*1) 16,000 min⁻¹ Max. (*2) *Please use it with Speed Reducer. |
|  | 1/4 SPEED REDUCER | 1009 | RG-01 | <ul style="list-style-type: none"> Mounted between an attachment and a motor. The speed is reduced to 1/4 but the torque is multiplied by 4 times. Suitable for high torque grinding process or drilling. 30,000 min⁻¹ Max. (*1) 30,000 min⁻¹ Max. (*2) |
|  | 1/15 SPEED REDUCER | 1010 | RG-02 | <ul style="list-style-type: none"> Mounted between an attachment and a motor. The speed is reduced to 1/15 but the torque is multiplied by 15 times. Suitable for high torque grinding process or drilling. 30,000 min⁻¹ Max. (*1) 30,000 min⁻¹ Max. (*2) |
|  | EXTENSION JOINT | 1015 | CN-01 | <ul style="list-style-type: none"> Speed 1 : 1 This is a joint to be connected between a motor and an attachment to extend the total length of the attachment. 35,000 min⁻¹ Max. (*1) 35,000 min⁻¹ Max. (*2) |

* ROTUS Attachment is exchangeable for Emax EVOLUTION.

AIR LINE KIT



300(W) x 120(D) x 220(H) mm

Code No. **4507** Model **AL-H1207F**

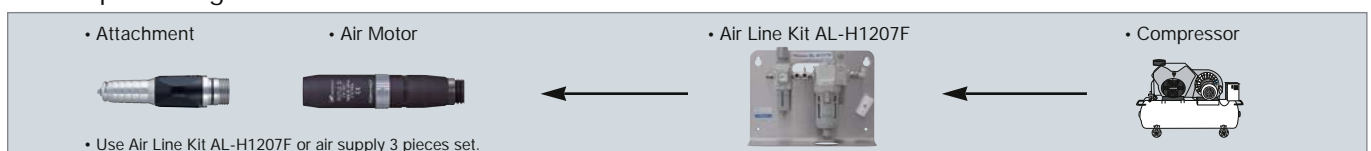
- Ensures a smooth operation and long life by supplying stable, conditioned air to the air motor.
- Three functions : air filter, regulator, mist lubricator can also be used to adjust motor speed.

◆ Weight : 2.2 kg ◆ Filter Mesh : 5 μ m

Standard Accessories

- Air Pressure Gauge • Air Regulator • Air Filter • Lubricator • Air Control Valve (CV-05)
- Piping Hose (K-275) • Lubricating Oil (K-211)

■ Set-Up Drawing



* Please mention "Code Number" upon your order.

ROTUS STANDARD SET

Code No. **1163** Model **ROTUS-IR**



30,000 min⁻¹

The ROTUS System is a hand-held grinder with an energy saving air motor. Since it is an air driven system, there is virtually no heat generation resulting in excellent durability. Select from a variety of attachments depending on the application.

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

Set contents

- Air Grinder (IM-301+IR-310) : 1 pc. • Chuck Collet $\phi 3.0$, $\phi 2.35$ mm
- Air Line Kit (AL-H1207F) : 1 pc. • Foot Control (AFC-45) : 1 pc.
- Accessories : Piping Hose - 2 m (K-275) : 1 pc., Lubricating Oil (K-211) : 1 pc.
- Pin Spanner (K-233) : 2 pc. • Spanner (7x5.1) : 1 pc. • L Shaped Spanner : 1 pc.

SILENCER

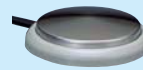
Code No. **1060** Model **K-209**



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

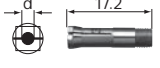
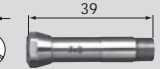



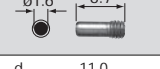

FOOT CONTROL

Code No. **1064** Model **AFC-45**




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

Chuck Collet

| Product | Inside Diameter : ϕd | Fit to | Model | Code No. |
|---|---|----------------|------------|----------|
|  CHC Group | $\phi 1.6$ | IC-300, KC-300 | CHC-1.6 | 90416 |
| | $\phi 2.35$ | | CHC-2.35 | 90492 |
| | $\phi 3.0$ | | CHC-3.0 | 90430 |
| | $\phi 3.175$ | | CHC-3.175 | 90493 |
|  CHG Group | $\phi 2.35$ | HG-200 | CHG-2.35 | 91192 |
| | $\phi 3.0$ | | CHG-3.0 | 91130 |
| | $\phi 3.175$ | | CHG-3.175 | 91193 |
| | $\phi 6.0$ | | CHG-6.0 | 91160 |
| | $\phi 6.35$ | | CHG-6.35 | 91196 |
| | $\phi 1.0, \phi 1.5, \phi 2.0, \phi 2.5, \phi 4.76$ | | CHG-□□ | — |
| | $\phi 1.6, \phi 4.0, \phi 5.0$ | | | |
| | | | | |
|  CHH Group | $\phi 2.35$ | IH-300, IR-310 | CHH-2.35 | 90692 |
| | $\phi 3.0$ | | CHH-3.0 | 90630 |
| | $\phi 3.175$ | | CHH-3.175 | 90693 |
| | $\phi 1.0, \phi 1.5, \phi 2.0, \phi 2.5$ | | CHH-□□ | — |
| | $\phi 1.6$ | | | |
|  CHM Group | $\phi 1.0$ | BMH-300 | CHM-1.0 | 90910 |
| | $\phi 1.6$ | | CHM-1.6 | 90916 |
| | $\phi 2.0$ | | CHM-2.0 | 90920 |
| | $\phi 2.35$ | | CHM-2.35 | 90992 |
| | $\phi 3.0$ | | CHM-3.0 | 90930 |
| | $\phi 3.175$ | | CHM-3.175 | 90993 |
| | | | | |
|  MFC-300S | $\phi 1.6$ | MFC-300S | K-252 | 90316 |
| |  MFC-300M | $\phi 1.6$ | MFC-300M | K-253 |
|  NKM6 Group (NK Micron Chuck) | $\phi 2.35$ | IG-400 | NKM6-2.35 | 92030 |
| | $\phi 3.0$ | | NKM6-3.0 | 92092 |
| | $\phi 3.175$ | | NKM6-3.175 | 92093 |

Chuck Nut

| Product | Description | Fit to | Model | Code No. |
|---|-------------|-------------------------|-------|----------|
|  | Chuck Nut | IG-400 (for NKM6 Group) | CHN-6 | 2104 |

*Please mention "Code Number" upon your order.



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