

## Generic RDSNSKPOI01

# NSK Dental Airotor Handpiece User Manual

Model: RDSNSKPOI01 | Brand: Generic

## INTRODUCTION

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The NSK Dental Airotor Handpiece is a high-speed dental drill designed for precision dental procedures. Its ergonomic design ensures comfortable handling, allowing for minute and precise movements required in delicate dental treatments. This manual provides essential information for the proper setup, operation, maintenance, and troubleshooting of your airotor handpiece.

- **Precision Design:** Developed for delivering high precision in dental applications.
- **Ergonomic Comfort:** Designed to rest comfortably in hand for precise movements.
- **Enhanced Accessibility:** Facilitates access to hard-to-reach areas, streamlining procedures.
- **High-Grade Material:** Constructed from durable materials with a stylish design and better grip.
- **Quiet and Stable Operation:** Features a high-quality cartridge for noise-free and stable performance.
- **Autoclavable:** Can be sterilized at 135-degree Celsius for optimal hygiene.

## PACKAGE CONTENTS

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Upon opening the package, verify that all components are present:

- 1 x NSK Dental Airotor Handpiece
- 5 x Spare Cartridges



**Figure 1:** The NSK Dental Airtor Handpiece, shown alongside its packaging box and five individual spare cartridges. This image displays the complete product as received, highlighting the main handpiece unit and the included replacement parts.

## SETUP

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- 1. Unpacking:** Carefully remove the handpiece and all accessories from the packaging. Inspect for any visible damage.
- 2. Air Supply Connection:** Connect the handpiece to a compatible dental unit's air supply hose. Ensure a secure and leak-free connection.
- 3. Bur Insertion:**
  - Identify the chuck mechanism on the handpiece head. This model uses a chuck type mechanism.
  - Insert the dental bur into the chuck. For chuck type handpieces, a bur wrench or push-button mechanism is typically used to secure the bur. Ensure the bur is fully seated and locked into place to prevent dislodgement during operation.



**Figure 2:** A detailed close-up of the handpiece head, illustrating the chuck mechanism where the dental bur is inserted and secured. This view helps in understanding the bur insertion process.

4. **Water Spray Adjustment (if applicable):** If your dental unit allows, adjust the water spray to ensure adequate cooling during operation.

## OPERATING INSTRUCTIONS

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1. **Power On:** Activate the air supply from your dental unit.
2. **Foot Pedal Activation:** Use the foot pedal to control the rotation of the handpiece. Gradually increase speed as needed for the procedure.
3. **Maintain Water Spray:** Ensure continuous water spray during operation to prevent overheating of the tooth and bur.
4. **Proper Technique:** Always use appropriate dental techniques and apply gentle, controlled pressure.
5. **Bur Removal:** After use, carefully remove the bur using the appropriate tool or mechanism.

## MAINTENANCE

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Regular maintenance is crucial for the longevity and optimal performance of your airtor handpiece.

### 1. Cleaning:

- Immediately after each use, clean the exterior of the handpiece with a soft cloth and a suitable disinfectant.
- Flush the internal air and water lines according to your dental unit's instructions.

### 2. Lubrication:

- Lubricate the handpiece before each sterilization cycle using a specialized handpiece lubricant spray. Follow the lubricant manufacturer's instructions for proper application.
- Ensure lubricant is applied to the air drive and chuck mechanisms.

### 3. Sterilization (Autoclaving):

- The handpiece is autoclavable at 135°C (275°F).
- Place the cleaned and lubricated handpiece in a sterilization pouch.
- Process in a steam autoclave according to the manufacturer's guidelines for dental instruments.
- Allow the handpiece to cool completely before handling or storage.

### 4. Cartridge Replacement:

- If the handpiece experiences reduced performance, increased noise, or excessive vibration, the cartridge may need replacement.

- Refer to the specific instructions provided with the spare cartridges for detailed replacement steps. Typically, this involves unscrewing the head and replacing the internal turbine assembly.
- Use only genuine NSK or compatible cartridges.

5. **Storage:** Store the handpiece in a clean, dry, and dust-free environment when not in use.



**Figure 3:** The NSK Dental Airtor Handpiece, along with its accessories, is shown neatly arranged within its clear plastic storage case. Proper storage in such a case helps protect the instrument from dust and damage when not in use.

## TROUBLESHOOTING

Problem	Possible Cause	Solution
Reduced power/speed	Insufficient air pressure; clogged air filter; worn cartridge.	Check air supply pressure; clean/replace air filter; replace cartridge.
Excessive noise/vibration	Worn bearings in cartridge; insufficient lubrication; bent bur.	Replace cartridge; lubricate handpiece thoroughly; replace bent bur.
Bur slipping/not holding	Worn chuck mechanism; incorrect bur size; bur not fully seated.	Replace cartridge (contains chuck); ensure correct bur size (2.35mm shank); re-insert bur firmly.
No water spray or weak spray	Clogged water line/nozzle; insufficient water pressure.	Clean water lines and nozzles; check water supply pressure from dental unit.

## SPECIFICATIONS

Feature	Detail
Brand	Generic
Model Number	RDSNSKPOI01
Manufacturer	NSK JAPAN, IMPORTED
Country of Origin	India
Color	SILVER
Head Type	Standard Head
Chuck Type	Chuck Type (Bur retention mechanism)
Autoclavable Temperature	135°C (275°F)
Included Components	1 Airotor Handpiece, 5 Spare Cartridges

## WARRANTY AND SUPPORT

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Specific warranty details for this product are not provided in the available information. Please refer to your purchase documentation or contact the seller, RDS Dental Hub, for warranty information and technical support.

For further assistance or inquiries, please contact the seller through the platform where the product was purchased.

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This manual is for informational purposes only. Always follow professional dental practices and safety guidelines.

