

NEXEN 910104 5H40P

Nexen 910104 5H40P Pilot Mount Tooth Clutch, Air Engaged User Manual

INTRODUCTION

This manual provides essential information for the safe and effective installation, operation, and maintenance of the Nexen 910104 5H40P Pilot Mount Tooth Clutch. This air-engaged, spring-released clutch is designed for industrial power transmission applications requiring positive engagement without slippage, such as in-line zoned conveyor systems and applications demanding bi-directional movement.

Key features of this clutch include:

- Pilot mount design, compatible with pulleys, sprockets, and various couplings.
- Positive engagement mechanism, ensuring no slippage during operation.
- Air-engaged for precise control and spring-released for reliable disengagement.
- Suitable for applications requiring bi-directional movement.



This image displays the Nexen 910104 5H40P Pilot Mount Tooth Clutch. It features a robust cylindrical design, typically mounted on a shaft, with connections for air engagement. The clutch is designed for industrial power transmission applications.

SETUP AND INSTALLATION

Proper installation is crucial for the optimal performance and longevity of the clutch. Always ensure safety protocols are followed during installation.

1. **Mounting:** The pilot mount design allows for direct attachment of pulleys, sprockets, or couplings. Ensure the shaft is clean and free of burrs. Mount the clutch securely, adhering to manufacturer's torque specifications for fasteners (if available, otherwise use industry standards for similar

components).

2. **Alignment:** Verify proper alignment between the clutch and the driven component to prevent premature wear and ensure smooth operation. Misalignment can lead to excessive vibration and reduced lifespan.
3. **Pneumatic Connection:** Connect a clean, dry, and regulated air supply to the clutch's air inlet port. The clutch is air-engaged, meaning air pressure is required to engage the clutch. Ensure all pneumatic connections are secure and leak-free. Refer to the specifications section for recommended air pressure.
4. **Initial Check:** Before applying power, manually check for any obstructions or binding. Ensure all components move freely as expected.

OPERATING INSTRUCTIONS

The Nexen 910104 5H40P clutch operates by pneumatic engagement and spring release. Understanding its operational characteristics is key to effective use.

- **Engagement:** To engage the clutch, apply the specified air pressure to the air inlet port. The air pressure will overcome the spring force, causing the clutch to engage positively.
- **Disengagement:** To disengage the clutch, release the air pressure from the inlet port. The internal spring mechanism will then disengage the clutch, returning it to its default disengaged state.
- **Control:** Use a suitable pneumatic control valve to manage the air supply for engagement and disengagement. Ensure the control system allows for rapid and precise operation as required by the application.
- **Monitoring:** During operation, monitor the clutch for unusual noises, excessive heat, or vibration, which may indicate an issue.

MAINTENANCE

Regular maintenance helps ensure the longevity and reliable performance of your Nexen clutch.

- **Inspection:** Periodically inspect the clutch for signs of wear, damage, or corrosion. Pay close attention to the engagement teeth, air seals, and mounting hardware.
- **Air Supply Quality:** Ensure the air supply remains clean and dry. Contaminants in the air can damage internal seals and components, leading to premature failure. Install or maintain appropriate air filters and dryers in the pneumatic system.
- **Lubrication:** Consult specific product documentation from Nexen for any lubrication requirements. If none are specified, the unit is likely designed for maintenance-free operation in terms of lubrication.
- **Cleaning:** Keep the exterior of the clutch clean to prevent accumulation of dust or debris that could interfere with its operation or heat dissipation.
- **Component Replacement:** If any components show significant wear or damage, replace them with genuine Nexen parts to maintain performance and safety.

TROUBLESHOOTING

This section provides general guidance for common issues. For complex problems, contact a qualified technician or Nexen support.

- **Clutch Fails to Engage:**
 - Check air supply pressure and ensure it meets specifications.

- Verify that the pneumatic control valve is functioning correctly and allowing air flow.
- Inspect air lines for leaks or blockages.
- Check for mechanical obstructions preventing engagement.

- **Clutch Fails to Disengage:**

- Ensure air pressure is fully released from the clutch.
- Inspect the internal spring mechanism for damage or fatigue.
- Check for internal binding or excessive friction.

- **Excessive Noise or Vibration:**

- Check for proper alignment of the clutch and connected components.
- Inspect for loose mounting hardware.
- Examine clutch teeth for wear or damage.
- Ensure the shaft is balanced and running true.

SPECIFICATIONS

The following specifications apply to the Nexen 910104 5H40P Pilot Mount Tooth Clutch:

Specification	Value
Model Number	910104 5H40P
Bore Size	1.000 in.
Maximum Static Clutch Torque	3640 in-lbs
Maximum RPM	3000
Number of Engagement Positions	122
Engagement Type	Air Engaged, Spring Released
Manufacturer	Nexen
ASIN	B00TUGPQEK

WARRANTY AND SUPPORT

Specific warranty details and direct support contact information for the Nexen 910104 5H40P Pilot Mount Tooth Clutch were not provided in the available product data. For warranty claims, technical support, or to obtain replacement parts, please refer to the official Nexen website or contact your authorized Nexen distributor.

You may find additional information by visiting the [NEXEN Store on Amazon](#).