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> Instruction Manual for QJZ2K HCT206-19-x2 Take Up Units

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Model: HCT206-19-x2

1. INTRODUCTION

This manual provides essential information for the proper installation, operation, and maintenance of your QJZ2K HCT206-19-x2 Take Up Units. Please read this manual thoroughly before installation and operation to ensure safe and efficient use of the product. Retain this manual for future reference.



Figure 1: Two QJZ2K HCT206-19-x2 Take Up Units. These units are designed for applications requiring shaft tensioning and alignment, commonly found in conveyor systems and agricultural machinery.

2. PRODUCT DESCRIPTION

The QJZ2K HCT206-19-x2 Take Up Units are robust cast iron mounted bearings designed for industrial applications. Each unit consists of a durable cast iron housing (T206) and a high-quality bearing insert (HC206-19). These take-up units are specifically engineered to accommodate shaft diameter of 1 3/16 inches and are suitable for environments requiring reliable shaft support and tensioning capabilities.

Key dimensions and specifications for the unit are as follows:

- **Shaft Dia d (in):** 1 3/16
- **N1 Dimensions (mm):** 16
- **L2 Dimensions (mm):** 10
- **H2 Dimensions (mm):** 56
- **N2 Dimensions (mm):** 37
- **N Dimensions (mm):** 22
- **L3 Dimensions (mm):** 57
- **A1 Dimensions (mm):** 12
- **H1 Dimensions (mm):** 89
- **H Dimensions (mm):** 102
- **L Dimensions (mm):** 113
- **A Dimensions (mm):** 37
- **A2 Dimensions (mm):** 28
- **L1 Dimensions (mm):** 70
- **B1 Dimensions (mm):** 48.3
- **S Dimensions (mm):** 18.2
- **Bearing No.:** HC206-19
- **Housing No.:** T206
- **Mass (Kg):** 1.39
- **Bearing Type:** Take Up Units

3. SPECIFICATIONS

Attribute	Value
Item Model Number	HCT206-19-x2
Brand	QJZ2K
Material	Cast Iron
Bearing Number	HC206-19
Housing Number	T206
UPC	748139267597
Manufacturer	QJZ2K
Date First Available	November 17, 2016

4. SETUP AND INSTALLATION

Proper installation is crucial for the longevity and performance of the take-up units. Always ensure safety precautions are followed, including wearing appropriate personal protective equipment (PPE).

1. **Preparation:** Ensure the mounting surface is clean, flat, and rigid enough to support the unit and its operational loads. Verify that the shaft diameter matches the bearing's inner diameter (1 3/16 inches).
2. **Mounting:** Position the take-up unit on the designated mounting points. Secure the unit using appropriate bolts through the mounting holes at the base of the housing. Tighten bolts evenly to prevent distortion of the housing.
3. **Shaft Insertion:** Carefully slide the shaft through the bearing's inner ring. Ensure the shaft is clean and free of burrs.
4. **Alignment:** Align the take-up unit with the opposing bearing or component to ensure the shaft runs true and without excessive stress. Misalignment can lead to premature bearing failure.
5. **Securing the Bearing to Shaft:** The HC206-19 bearing typically uses set screws or an eccentric locking collar to secure it to the shaft. Refer to the specific bearing insert instructions for proper locking procedure. Ensure the bearing is firmly secured to prevent rotation on the shaft.
6. **Initial Lubrication:** Although bearings are often pre-lubricated, it is good practice to apply a small amount of compatible grease through the grease fitting (visible on top of the housing) before initial operation.

Safety Note: Always disconnect power to machinery before performing any installation or maintenance tasks. Consult a qualified professional if you are unsure about any installation steps.

5. OPERATING INSTRUCTIONS

Once installed, the QJZ2K HCT206-19-x2 Take Up Units are designed for continuous operation within their specified load and speed limits. Monitor the units during initial operation for any unusual noise, vibration, or excessive heat, which may indicate an installation issue or a need for adjustment.

- **Load Management:** Do not exceed the maximum radial and axial load capacities specified for the HC206-19 bearing. Overloading can lead to premature failure.
- **Speed Limits:** Operate within the recommended rotational speed limits for the bearing. High speeds without proper lubrication or cooling can cause overheating.
- **Environmental Conditions:** Ensure the operating environment is within acceptable temperature and humidity ranges for cast iron and bearing components. Protect units from excessive dust, moisture, and corrosive agents.

6. MAINTENANCE

Regular maintenance extends the lifespan of your take-up units and ensures optimal performance.

1. **Lubrication:** Periodically re-lubricate the bearings through the grease fitting. The frequency of lubrication depends on operating conditions (speed, load, temperature, environment). Use a high-quality, compatible grease. Avoid over-greasing, which can cause overheating.
2. **Inspection:** Regularly inspect the units for signs of wear, damage, or corrosion. Check for loose mounting bolts, excessive vibration, or unusual noise.
3. **Cleaning:** Keep the exterior of the units clean to prevent accumulation of dirt and debris, which can contaminate the bearing seals.
4. **Shaft Alignment Check:** Periodically verify shaft alignment, especially if the units are subjected to heavy

loads or vibrations.

7. TROUBLESHOOTING

This section provides guidance for common issues encountered with take-up units.

Problem	Possible Cause	Solution
Excessive Noise	Lack of lubrication, misalignment, worn bearing, contamination.	Check lubrication, verify alignment, inspect bearing for wear, clean unit.
Overheating	Over-lubrication, insufficient lubrication, excessive load, misalignment, tight fit.	Adjust lubrication, reduce load, correct alignment, check shaft fit.
Premature Failure	Improper installation, overloading, contamination, inadequate lubrication, misalignment.	Review installation steps, ensure proper load, maintain cleanliness, follow lubrication schedule, correct alignment.
Vibration	Misalignment, unbalanced shaft, loose mounting, worn bearing.	Correct alignment, balance shaft if necessary, tighten mounting bolts, replace worn bearing.

If issues persist after attempting the above solutions, contact QJZ2K customer support or a qualified technician.

8. WARRANTY AND SUPPORT

For information regarding product warranty, technical support, or replacement parts, please contact QJZ2K directly. Keep your purchase receipt and product model number (HCT206-19-x2) available when contacting support. Contact information can typically be found on the manufacturer's official website or through your point of purchase.