

Installation Instructions for the LJX-PT Rotary Joint

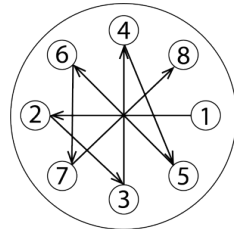
 fluidhandling.kadant.com/en/knowledge-center/installation-and-repair-instructions/installation-ljx-pt

Effective: December 13, 2024



Introduction

Read all of the instructions before proceeding. Refer to Kadant Johnson assembly drawing for part identification and to drawing A37640 for Torque specifications. For easy identification, parts used in individual steps are often accompanied with their position in the assembly drawing [e.g. gasket (8B)]. Tighten all fastener in a star pattern. Certified drawing are available upon request. Dimensions are for reference only and subject to change.



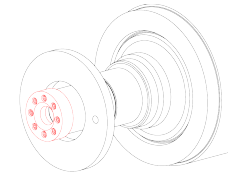
Safety



This safety symbol alerts you to risk of death or injury if the instructions are not followed. In all steps, death or injury may result if the machine is not de-energized, depressurized, cooled, and stopped. Death or injury may occur if the product is operated with a fluid type or at a pressure, temperature, or speed that do not meet its specifications. Death or injury may occur if heavy parts and pinch hazards are not handled properly. Follow your company's safety procedures.

Step 1

Remove the existing rotary joint, syphon and support rods from the roll. Install the wear plate (16) onto the journal flange using a new gasket or O-ring (16B).



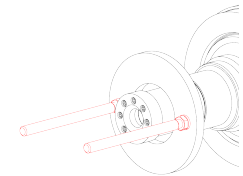
Important: If reusing the journal flange, clean and inspect the bore where the nipple is inserted. If damaged, replace with a new flange.



Equipment must be cool and free of pressure.

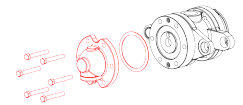
Step 2

Install the new support rods.



Step 3

Remove the head and gasket (8) from the rotary joint.



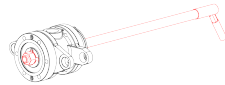
Step 4

Remove the retention nut and multi-tab washer from the horizontal pipe. Apply anti-seize compound to the threads and tapered portion of the horizontal pipe.



Step 5

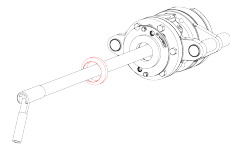
Carefully pass the horizontal pipe through the nipple (4) until the key on the horizontal pipe is engaged with the keyway in the retention plate (31). Install the multi-tab washer and the retention nut on the horizontal pipe. Do not fully tighten the nut.



Note: The retention plate allows for multiple syphon locations. Refer to the assembly drawing for the correct location.

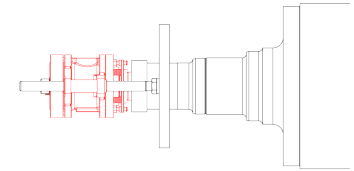
Step 6

Carefully slide the seal ring (6) over the syphon and position it near the nipple (4) with the convex side facing away from the rotary joint.



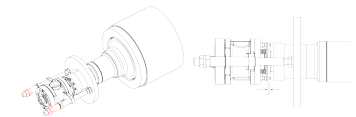
Step 7

Lift the rotary joint up and slide onto the support rods while passing the syphon through the journal. Carefully guide the seal ring (6) into position against the wear plate (16). The syphon vertical leg should fall downward into position.



Step 8

Check that the rotary joint is making firm contact with the seal ring. If using spacers on the support rods, install one on each rod followed by a nut on each rod. Tighten evenly moving the joint toward the roll until the correct "X" dimension is obtained. Install lock washers and the remaining nuts to lock the rotary joint in place.



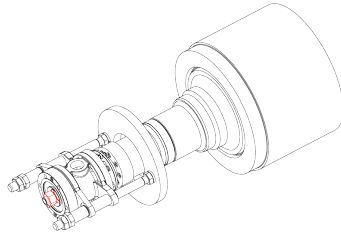
Important: Make sure the rotary joint is on center and perpendicular to the roll centerline.

Reference the Kadant Johnson drawing for the correct "X" dimension.

Note: As the seal ring wears, the "X" dimension will decrease. Maximum seal ring wear can be found on the Kadant Johnson drawing.

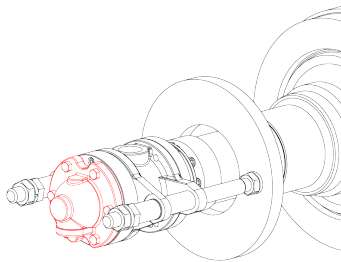
Step 9

Tighten the retention nut to 75 ft-lbs.
Bend multi-tab lock washer over the retention nut.



Step 10

Install the gasket (8) and head.



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Kadant Johnson products are built to a high standard of quality. Performance is what you desire: that is what we provide. Kadant Johnson products are warranted against defects in materials and workmanship for a period of one year after the date of shipment. It is expressly understood and agreed that the limit of Kadant Johnson's liability shall, at Kadant Johnson's sole option, be the repair or resupply of a like quantity of non-defective product.

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