Installation Instructions
for 9500CASCX-PT CorrPro® Rotary Joint (12 mm) and Stationary Syphon Without Adjustment

Follow your company’s safety procedures whenever working on Kadant Johnson products. Read all of the instructions before proceeding with the installation or repair.

Please refer to the Kadant Johnson assembly drawing for part identification. Assembly drawings are available on request from Kadant Johnson.

Lubricate all fasteners with anti-seize compound. Tighten all fasteners in a star pattern. Torque specifications are listed on the product assembly drawing and are available from Kadant Johnson.

NOTE: Do not use anti-seize or petroleum-based products on O-rings. Only lubricate the O-rings with the silicone lubricant supplied with the Kadant Johnson repair kit. Prior to handling lubricants, consult MSDS information.

PREPARE FOR INSTALLATION
Remove existing internal and external equipment, including the rotary joint, lug supports, syphon, journal adapter flanges, etc. The roll should be stripped down to the journal. If a new bearing cover is included with the CorrPro rotary joint, remove the existing cover at this time. Save any equipment that is to be reused.

Clean the journal face of all debris. If the new wear plate (3) uses an O-ring to seal on the ID of the journal bore, clean the journal bore surface. Make sure there is a lead-in chamfer in the end of the journal bore, allowing the O-ring to compress and not get damaged during installation. Clean the area where the bracket (19) mounts to the machine of all debris that may prevent it from mounting firmly to the machine.

Clean all tapped holes using a bottoming tap.

STEP 1.
If applicable, install the journal adapter flange to the journal using the appropriate gasket or O-ring(s) as shown on the assembly drawing for the installation. If O-rings are used, apply a film of Parker® Super O-Lube before installation. Tighten the fasteners evenly in a star pattern using the proper torque.

Install the applicable O-rings or gasket to the wear plate. If O-rings are used, apply a film of Parker Super O-Lube before installation. Place wear plate (3) onto the journal. Install the wear plate fasteners (3A) and tighten evenly in a star pattern using the proper torque.

STEP 2.
There are two styles of brackets that may be used. One style is integrated into the bearing cover; the other is mounted to the machine face. Install the bracket (19) to the machine using the appropriate fasteners (19A) and secure evenly. If an integrated bearing cover/bracket is used, follow the machine manufacturer’s recommendations for installation.

STEP 3.
Place three drops of seal ring installation fluid (supplied) equally spaced on the conical side of the seal ring (6). Place the seal ring onto the wear plate (3), making sure that it is centered. The seal ring should stick to the wear plate. CAUTION: Ensure that the seal ring does not fall from the wear plate.

Place the body assembly (1) up to the bracket (19), making sure that the piston inside of the body lines up with the flat face of the seal ring. Line up the holes in the body with the bracket, making sure that the inlet connection is in the desired orientation. Fasten the body to the bracket using the supplied fasteners (1A). Please note that the fasteners may be nuts or bolts depending on the installation. Tighten the fasteners evenly in a star pattern using the proper torque.
STEP 4.
Pre-Installation Checks:
1) The horizontal tube (10) and vertical pipe (10B) in most cases are preassembled from the factory. If they are not, install them into the elbow (10A) at this time. Make sure that the locking insert and spring are inserted into the elbow before installing the horizontal tube. Use Loctite® 272 on the threaded connections.

2) Make sure that the elbow (10A), when in the locked position, is 180° from the key (98) located on the opposite end of the horizontal tube (10).

With the syphon in the open position, apply Loctite® 242 to the threaded insert.

SYPHON INSTALLATION

STEP 5.
There are two options for installing the elbow (10A) and horizontal tube (10).

Option 1
1) While still in the open position, slide the syphon assembly through the journal of the roll. Gently rotate it so that the vertical leg (10B) is in the six o’clock position after sliding through the journal.

2) Insert the locking tool through the horizontal tube (10) until it contacts the insert. Turn the tool clockwise until you feel it engage the locking insert key. Turn the tool clockwise two more times to ensure engagement. While pushing on the tool, rotate it counterclockwise until the “T,” which is stamped on the tool, is facing up. Now pull the tool back. You should feel it come back approximately 1” (25 mm). Push the tool forward and start to turn the tool clockwise. The insert should now be threading into the vertical leg (10B). Tighten the insert to 50 ft-lbs (68 Nm).

Option 2
1) Feed a string through the horizontal tube (10) and the elbow (10A). Then feed the string back to the beginning of the horizontal tube. Both ends of the string should be at the beginning of the horizontal tube. See Figure 1.

2) Insert the syphon into the journal. Be sure the syphon is opened. The key (98) at the end of the horizontal tube (10) will be in the six o’clock position.

3) Turn the syphon 180°. The vertical pipe (10B) of the syphon will fall down and the key (98) will be at the 12 o’clock position.

4) Pull the string to close the elbow (10A). Make sure the elbow is in the six o’clock position.

5) Remove the string.

6) Insert the locking tool through the horizontal tube (10) until it contacts the insert. Turn the tool clockwise until you feel it engage the locking insert key. The insert should now be threading into the vertical leg (10B). Tighten the insert to 50 ft-lbs (68 Nm).

STEP 6.

Apply never seize to the tapered portion of the horizontal tube (10). Slide the gasket (12) over the pipe. Apply a thin film of O-ring lubricant and install the cup seal (22) into the groove in the head (2).

Orient the outlet connection in the desired position and slide the head (2) over the horizontal tube (10), making sure that the key (98) on the pipe engages the groove in the head in the 12 o’clock position.

Apply never seize compound to the support tube nut (9) threads and install into the end of the syphon. Do not fully tighten the nut at this time.

STEP 7.
Slide the fasteners (2A) into the retaining ring (21). Slide the retaining ring with fasteners through the head (2) and gasket (12) and fasten to the rotary joint body (1). Tighten the fasteners in a star pattern to 30 to 42 ft-lbs (41 to 57 Nm).

STEP 8.
Tighten the support tube nut (9) to 175 to 200 ft-lbs (237 to 271 Nm).

The rotary joint is ready for the flexible hose piping.

Dimensions and specifications are for reference only and subject to change. Certified drawings are available on request. Please refer to Kadant Johnson Drawing Number A37640 for torque specifications.