


Installation Instructions for the 2000 ELSX™ Rotary Joint

 fluidhandling.kadant.com/en/knowledge-center/installation-and-repair-instructions/els-elsx-rotary-joints/installation-instructions-for-the-2000-elsx-rotary-joint

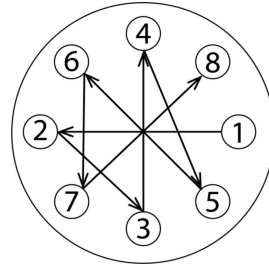
Effective: March 1, 2022



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 fasteners in a star pattern. Certified drawings are available upon request. Dimensions are for reference only and subject to change.




Safety

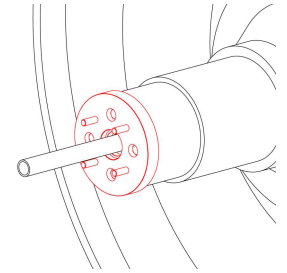


This safety symbol alerts you to risk of death or injury if the instructions are not followed. In all steps, death or injury may result if the machine is not de-energized, depressurized, cooled, and stopped. Death or injury may occur if the product is operated with a fluid type or at a pressure, temperature, 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 all debris from inside the piping and roll.

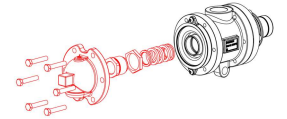
 Equipment must be cool and free of pressure.



Step 2

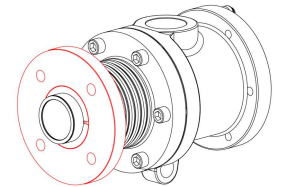
Remove the head (2), packing gland (10N), locknut (30) packing rings (11), and packing (35) from the rotary joint.

Important: Check that the horizontal pipe is straight and true to prevent excess wear and breakage.



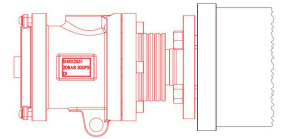
Step 3

Slide the nipple flange over the rotary joint nipple with the taper facing out. Place the split wedges into the recess of the nipple. Slide the nipple flange over the wedges.



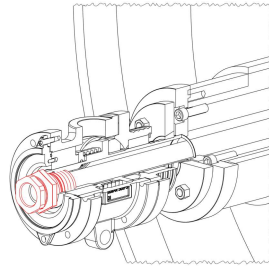
Step 4

Place metal gasket (8Q) into the journal flange. Lift the rotary joint up, slide it over the horizontal pipe and into the journal flange. Secure to studs with nuts. An even gap of 1/8" to 3/16" (3 to 5 mm) should remain in between the journal flange and nipple flange.



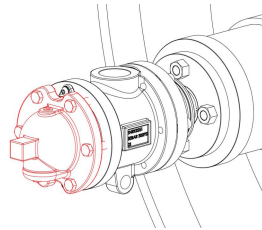
Step 5

Reinstall the packing, packing gland, and locknut. Apply approximately 30 ft-lbs (41 Nm) of torque to the gland and tighten the locknut.



Step 6

Reattach the head and gasket.



Step 7

Connect piping to rotary joint using Kadant Johnson flexible metal hose.

Important: Refer to Flexible Hose Installation.

Recommended MINIMUM HOSE LENGTH	
Hose Size	Minimum Length
1/4"	8" (200 mm)
3/8"	10" (250 mm)
1/2"	10" (250 mm)
3/4"	12" (300 mm)
1"	15" (380 mm)
1-1/4"	18" (450 mm)
1-1/2"	18" (450 mm)
2"	21" (530 mm)
2-1/2"	22" (560 mm)
3"	24" (610 mm)

Step 8

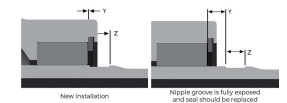
Install anti-rotation device.

Important: Refer to Anti Rotation Rod Installation.

Recommended Sizes for Anti-Rotation Rods			
Rotary Joint Size	Drill Diameter	Rod Size - Up to 200 psig (14 barg)	Rod Size - Over 200 psig (14 barg)
2550 ELSX	55/64"	1/2" Sch. 80	13/16" Rd. 1018
2600 ELSX	1-5/64"	3/4" Sch. 80	3/4" Sch. XXS
2700 ELSX	1-11/32"	1" Sch. 80	1" Sch. XXS OR 1-1/4" Rd. 1018
2750 ELSX	1-11/32"	1" Sch. 80	1" Sch. XXS OR 1-1/4" Rd. 1018

Measuring Seal Ring Wear

Measure the width (Z) of the groove in the nipple. Measure the distance between the dry guide and the edge of the groove (Y). When they are equal (Z = Y) the seal ring is worn and should be replaced. Ring wear may be also be measured using the "X" dimension. Refer to "Measuring Seal Ring Wear."



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The Kadant Johnson Warranty

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.

Kadant Johnson rotary joints and accessories could be subject to European Pressure Equipment Directive 2014/68/EU (PED). Modifications or changes to rotary joints and/or accessories are only permitted upon approval of Kadant Johnson. Only genuine Kadant parts and original accessories will ensure the safety of these assemblies. The use of other than original parts voids the warranty and will lead to forfeiture of the declaration of conformity and will invalidate any liability for damages cause thereby.