

Lift Table Maintenance and Service

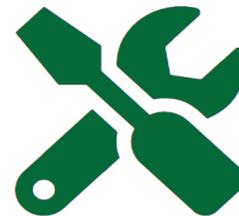
This section will describe service procedures for major mechanical elements of a Lift Table with Power Roll Bed (Normal Application) installed.

⚠ WARNING ⚠

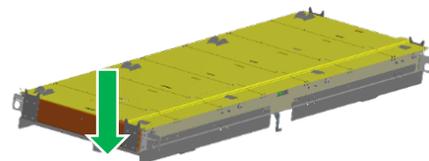
- Only qualified and trained personnel should perform the disassembly and assembly of electrical and mechanical components.
- Before attempting any maintenance on this equipment all involved personnel should follow plant internal regulations along with any state, federal, or province regulations. Do not begin any repair procedure until the proper shutdown procedures and the appropriate power lockout procedures have been applied.

Placing the Lift into the Maintenance Position

- 1 Remove any payload from the eccentric lift.



- 2 Move the lift to the down position.



- 3 Cut and Lock Out power to the lift using your plant's safety procedures.

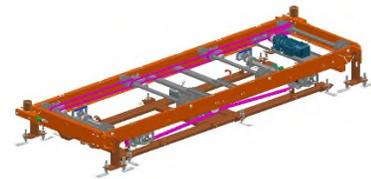


How to Replace the Chains on Lift Table

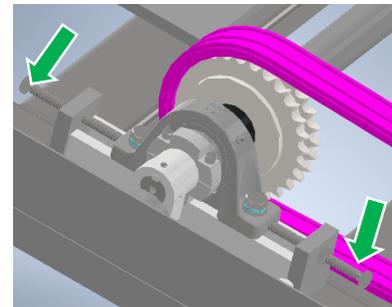
- 1 Place the lift into the maintenance position. Lock Out power to the lift using your plant's safety procedures.



- 2 Remove covers.



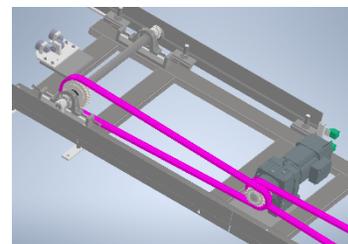
- 3 Loosen the jack bolts for the pillow block bearing on the side of the table where the chain needs to be replaced.



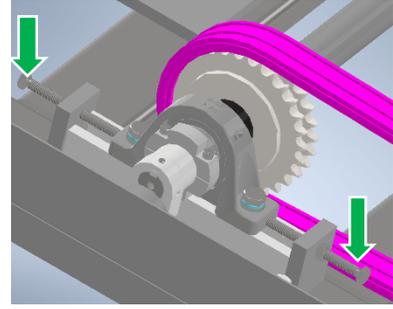
- 4 Locate the connecting link of the chain to open for chain removal from sprockets.



- 5 Replace the chain with a new chain and connect with a new connecting link.



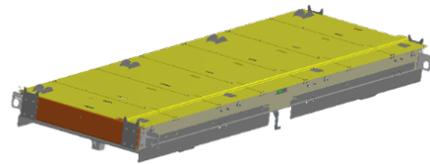
- 6 Tighten the jack bolts on the pillow block bearing on the side of the table where the chain(s) needs to be replaced. **Do Not Overtighten** - roller chain(s) is/are normally used with a suitable amount of slack.



- 7 Cycle the table and observe that the chain(s) are tracking straight. Ensure that the table is square, straight and level. Correct if necessary.



- 8 Lock Out the system again to return safety covers then operate as normal.

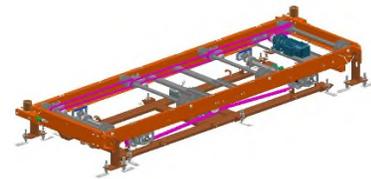


How to Replace the Drive Pulley on Lift Table

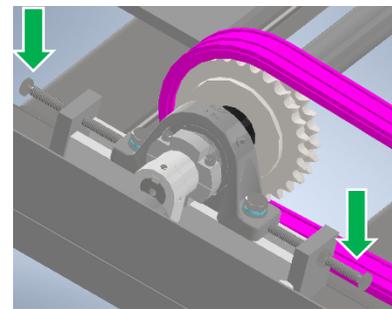
- 1 Place the lift into the maintenance position. Lock Out the power to the lift using your plant's safety procedures.



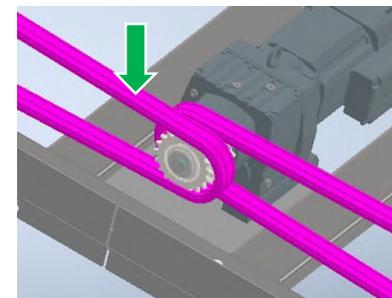
- 2 Remove covers.



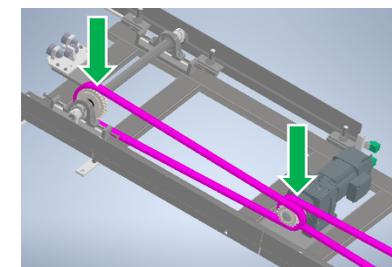
- 3 Loosen the jack bolts for the pillow block bearings on both sides to create enough slack to remove chains from pulley. If there is not enough slack, chain may require to be disconnected at connecting link. Follow *"How to Replace the Lifting Chains"* instructions if necessary.



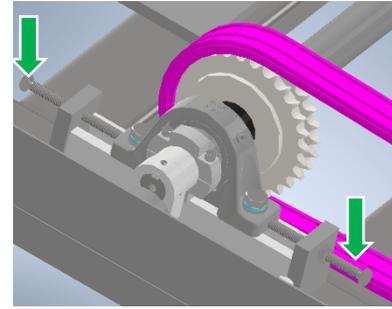
- 4 Remove chains from drive sprocket and replace sprocket.



- 5 Return chains to drive sprocket and ensure chain is properly on sprocket on cam shaft.



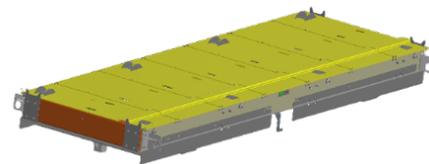
- 6 Tighten the jack bolts for the pillow block bearing on the side of the table where the chain needs to be replaced. **Do Not Overtighten** - roller chain is normally used with a suitable amount of slack.



- 7 Cycle the table and observe that the chains are tracking straight. Ensure that the table is square, straight and level. Correct if necessary.



- 8 Lock Out the system again to return safety covers then operate as normal.



How to Replace the Drive Pulley on Lift Table

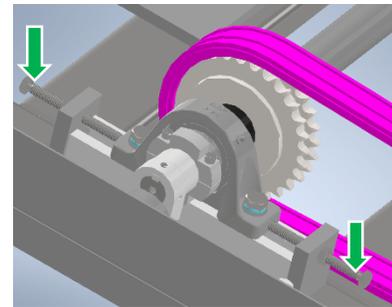
- 1 Place the lift into the maintenance position. Lock Out the power to the lift using your plant's safety procedures.



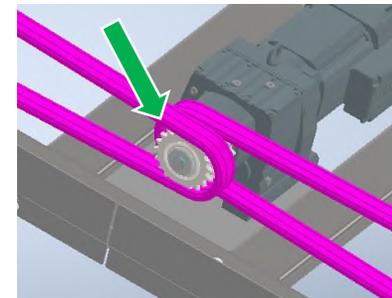
- 2 Remove covers.



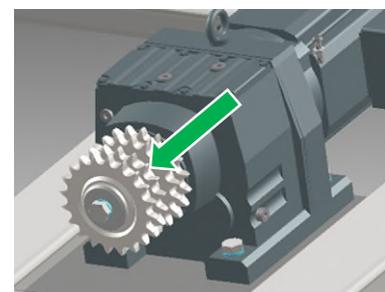
- 3 Loosen the jack bolts for the pillow block bearings on both sides to create enough slack to remove chains from pulley. If there is not enough slack, chain may require to be disconnected at connecting link. Follow *"How to Replace the Lifting Chains"* instructions if necessary.



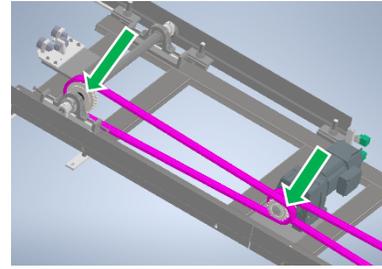
- 4 Remove chains from drive sprocket.



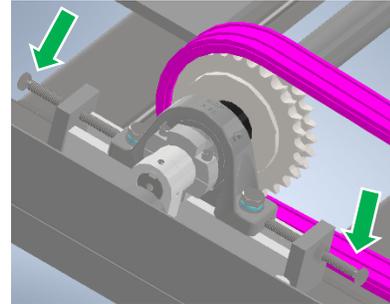
- 5 Remove sprocket by removing bolt from end of drive shaft. Replace with new sprocket.



- 6 Return chains to drive sprocket and ensure chain is properly on sprocket on cam shaft.



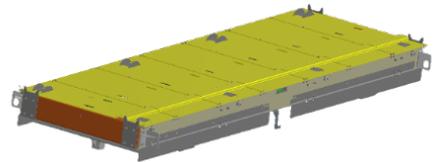
- 7 Tighten the jack bolts for the pillow block bearing on the side of the table where the chain needs to be replaced. **Do Not Overtighten** - roller chain is normally used with a suitable amount of slack.



- 8 Cycle the table and observe that the chains are tracking straight. Ensure that the table is square, straight and level. Correct if necessary.



- 9 Lock Out the system again to return safety covers then operate as normal.

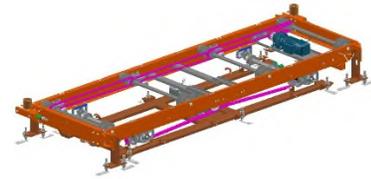


How to Replace the Drive on Lift Table

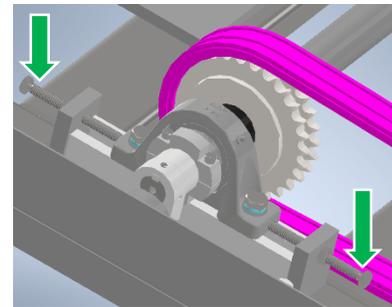
- 1 Place the lift into the maintenance position. Lock Out the power to the lift using your plant's safety procedures.



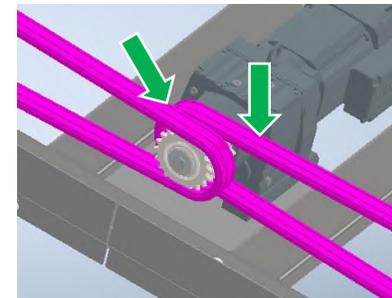
- 2 Remove covers.



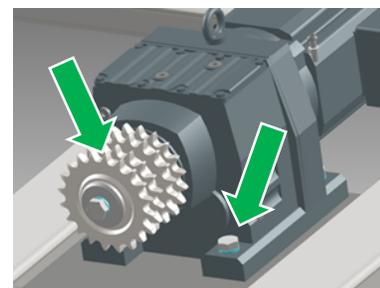
- 3 Loosen the jack bolts for the pillow block bearings on both sides to create enough slack to remove chains from pulley. If there is not enough slack, chain may require to be disconnected at connecting link. Follow *"How to Replace the Lifting Chains"* instructions if necessary.



- 4 Remove chains from drive sprocket.

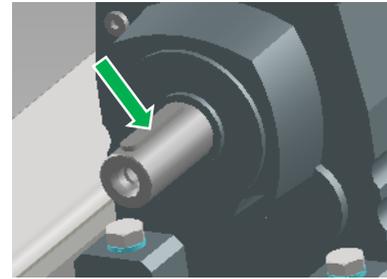


- 5 Loosen and remove the M16 bolts (4) that hold the lift motor to the lift table base.



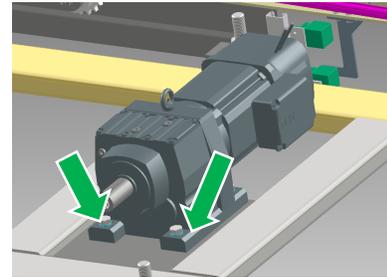
6

Disconnect electric connections from motor and remove motor. Replace with new motor. Ensure motor came with the appropriate pre-filled oil and key stock is properly inserted on drive shaft.



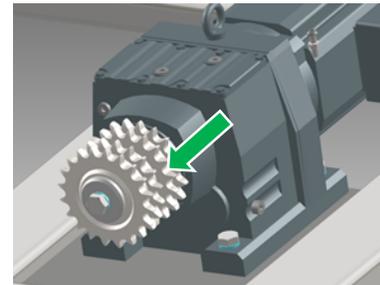
7

Once motor is square and level, tighten new M16 bolts (4) to the lift table base. Reconnect electrical connections.



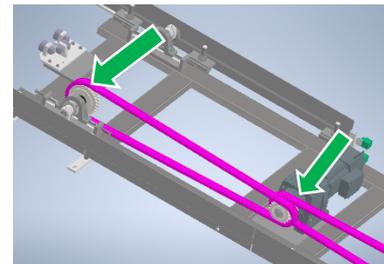
8

Inspect the original drive sprocket before installing on drive shaft. If there is any noticeable wear, replace with new sprocket.



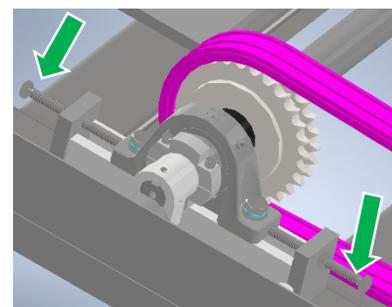
9

Return chains to drive sprocket and ensure chain is properly on sprocket on cam shaft.



10

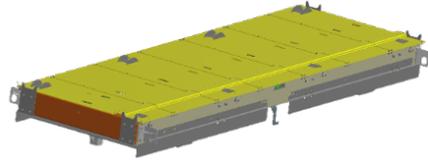
Tighten the jack bolts for the pillow block bearing on the side of the table where the chain needs to be replaced. **Do Not Overtighten** - roller chain is normally used with a suitable amount of slack.



-
- 11** Cycle the table and observe that the motor is functioning properly, chains are tracking straight. Ensure that the table is square, straight and level. Correct if necessary.



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- 12** Lock Out the system again to return safety covers then operate as normal.

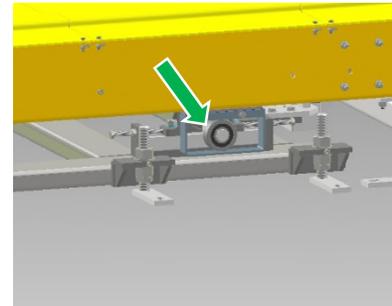


How to Replace Cam Roller on Lift Table

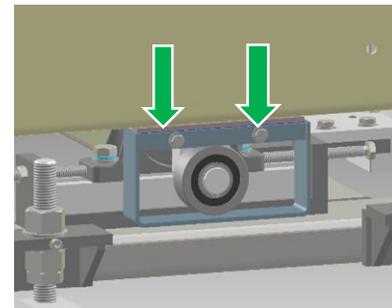
- 1 Place the lift into the maintenance position. Lock Out the power to the lift using your plant's safety procedures.



- 2 Remove side covers to gain access to cam roller rail area.



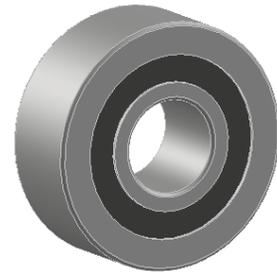
- 3 Loosen and remove the M8 bolts (2) that hold the cam roller rail to the lift table.



- 4 Remove the retainer ring from the original cam roller.



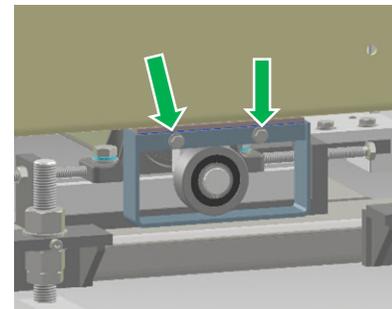
- 5 Replace the cam roller.



- 6 Install new retainer ring.



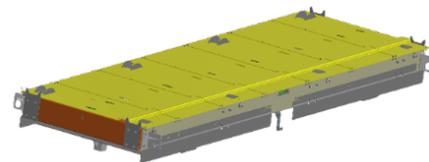
- 7 Reinstall cam roller rail with new M8 bolts (2).



- 11 Cycle the table and observe that the table is functioning properly. Ensure that the table is square, straight and level. Correct if necessary.



- 12 Lock Out the system again to return safety covers then operate as normal.

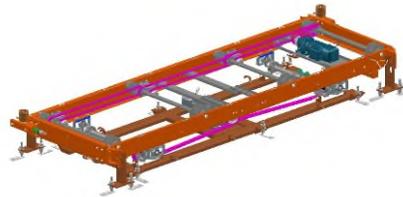


How to Replace a Chain on Power Roll Bed

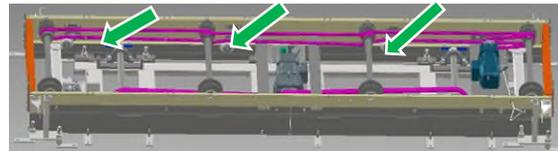
- 1 Place the lift into the maintenance position. Lock out the power to the lift using your plant's safety procedures.



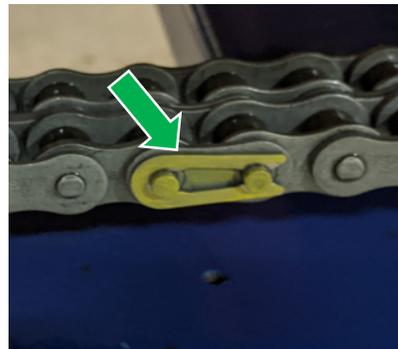
- 2 Remove the covers.



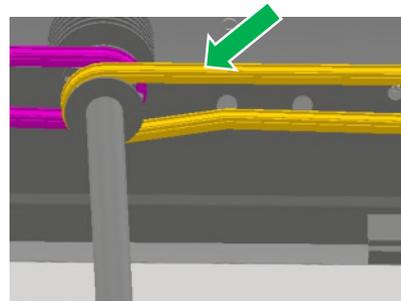
- 3 Adjust all three tensioners within the section being serviced.



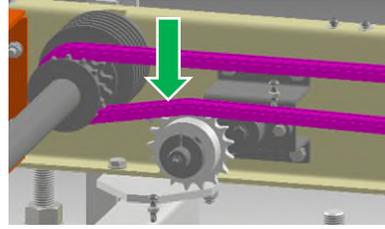
- 4 Open the master link of the chain on both sides of the roller.



- 5 Reinstall the new chain with the master link.



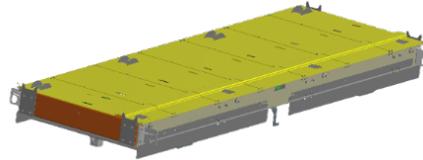
- 6 Install the tensioner to a sufficient chain tension.



- 11 Cycle the table and observe that the table is functioning properly. Ensure that the table is square, straight and level. Correct if necessary.



- 12 Lock Out the system again to return safety covers then operate as normal.

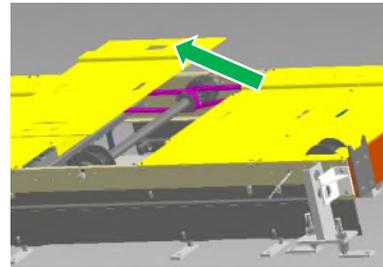


How to Replace a Roller

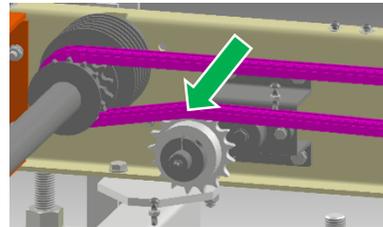
- 1 Remove and Lock Out the power to the Lift Table using your plant's procedures.



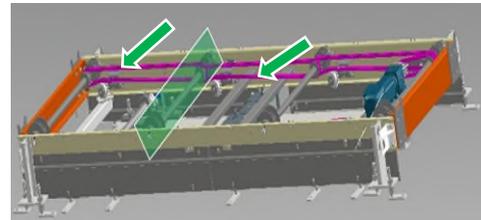
- 2 Remove the necessary covers.



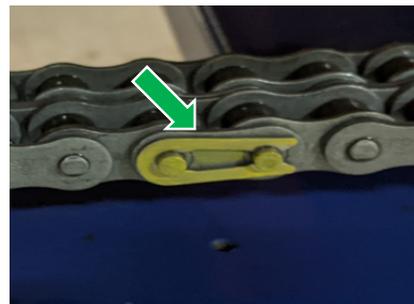
- 3 Adjust the tensioner to relieve tension on the applicable chain(s).



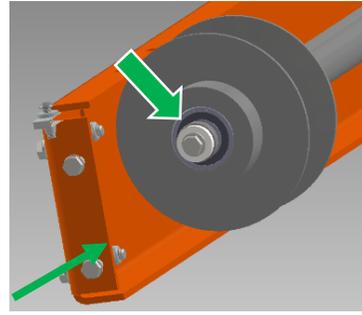
- 4 Disconnect the chain(s).



- 5 Open the master link of the chain on both sides of the roller.



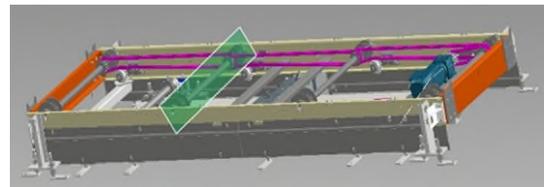
- 6** Remove the M10 bolts holding the flanges on both sides of the worn roller.



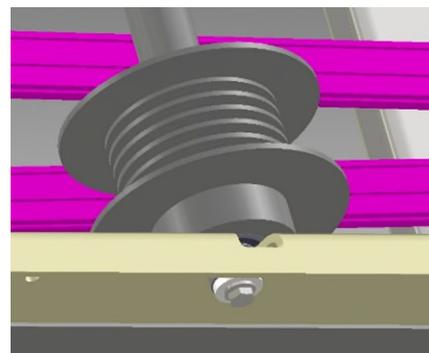
- 7** Turn flanged bearings around 90°, to get them through the cut-out of side frames. If they are clamped between side frames, you must loosen bolts of drive shaft and pull bearings slightly apart, so that the carrying roller can be withdrawn upwards.



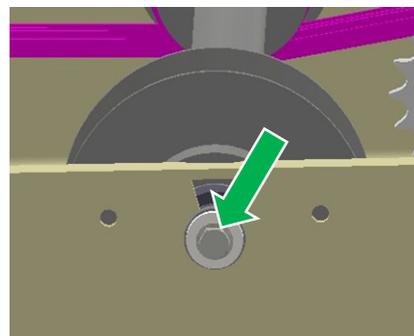
- 8** Replace the roller.



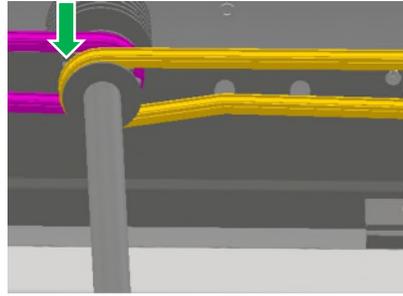
- 9** Turn the flange horizontally and install their hex-head bolts



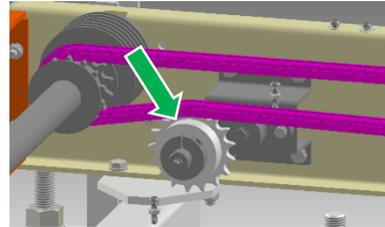
- 10** Retighten all M10 bolts firmly. Take great care that there is contact between the flange and the side frames.



- 11** Re-install the chain(s).



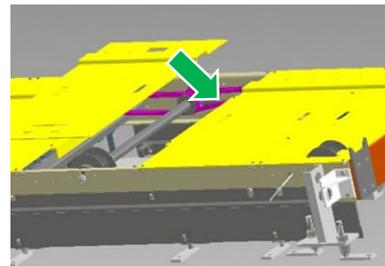
- 11** Adjust the tensioner bolts to re-tighten the chain(s).



- 12** Ensure all personnel have cleared the area, restore power to the system and test for proper operation.



- 13** Place cover back on Power Roll Bed and tighten the bolts.

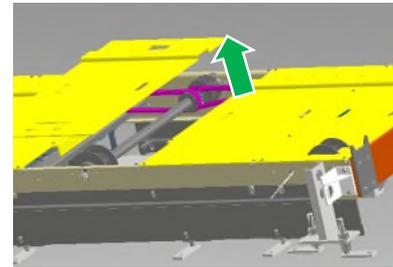


How to Replace a Gearmotor

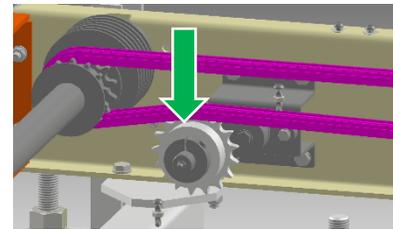
- 1 Remove and Lock Out power to the Power Roll Bed using your plant's procedures.



- 2 Remove any necessary covers.



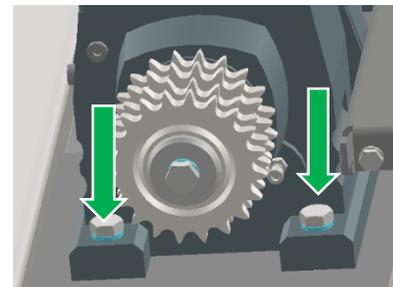
- 3 Adjust the tensioner to loosen the chain(s).



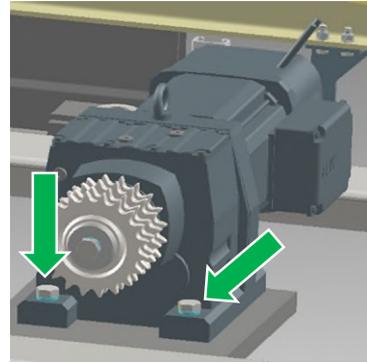
- 4 Open the master link of the chain(s) on both sides of the drive gear.



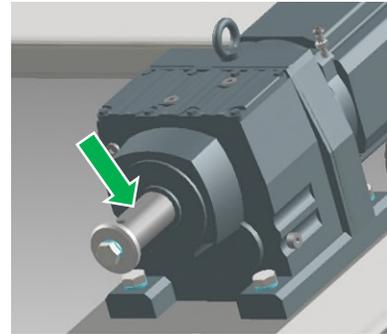
- 5 Loosen the bolts on one side of the motor and then proceed to remove the mounting bolts.



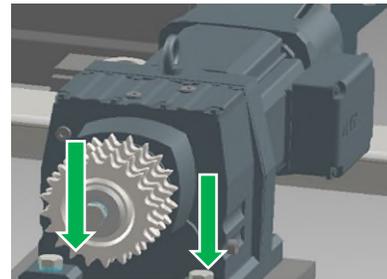
- 6** Using a paint marker, mark the exact location of the existing casting placement to ensure proper relocation of the new motor. Hoist the existing gearmotor then remove the washer/pin assembly and bolts.



- Using a gear puller remove the drive gear from the original motor and mount the new motor.
- 7** Make sure the key stock is transferred to the new motor; it is clean and free of debris.
- Install the drive gear with the original retaining washer/pin assembly.



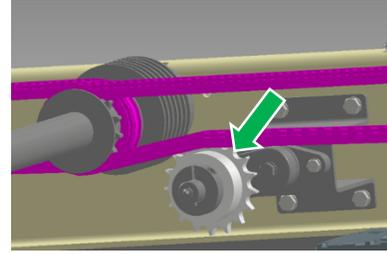
- 8** Retighten the hex head jack bolts and tighten down the gearmotor. Take care that motor is exactly at the right angle with the drive gear. Ensure the motor is square, straight and level.



- 9** Reinstall the chain with the master link.



- 10** Install the tensioner and adjust the chain tension appropriately.



- 11** Ensure all personnel have cleared the area, restore power to the system and test for proper operation. Also, ensure the table is square, straight and level. Correct if necessary.



- 12** Place any covers back on the Power Roll Bed and tighten bolts.

