Power Roll Bed Normal Application Maintenance & Service

This section will describe service procedures for major mechanical elements of a Power Roll Bed NA.

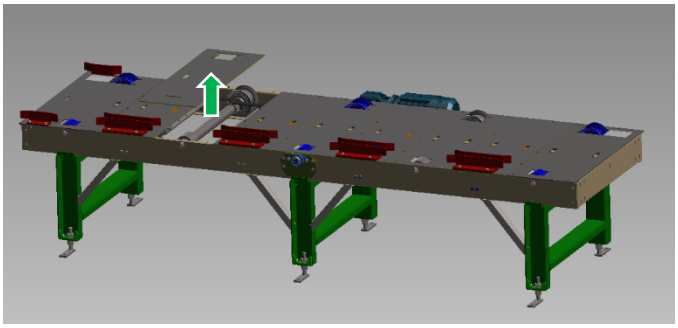
⚠ WARNING ⚠

- 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.

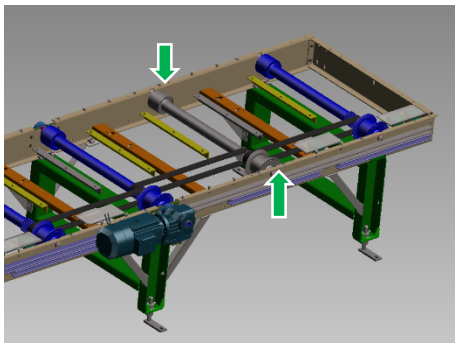
How to Replace a Belt

1 Remove and lock out power to the Power Roll Bed using your plant's procedures.

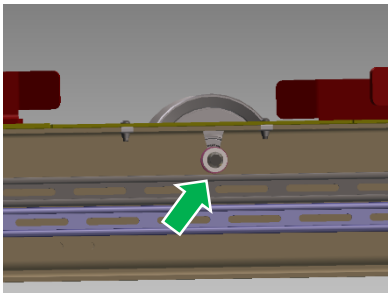
2 Remove cover.



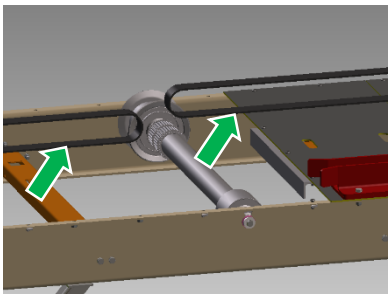
3 Both belt sharing rollers of the damaged belt will need to be loosened from the frame to free up any tension and to replace the belt.



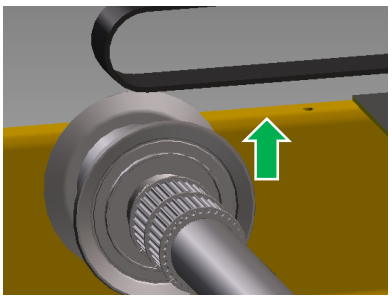
4 Remove the hex head bolts holding the shafts on both sides of the rollers.



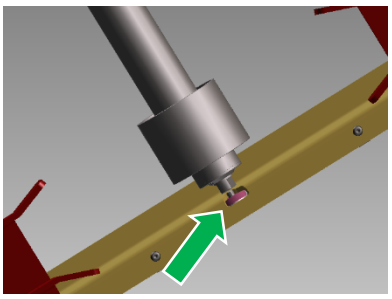
5 Lift roller shaft upward and remove one end of the belt. Perform the same to belt sharing roller shaft.



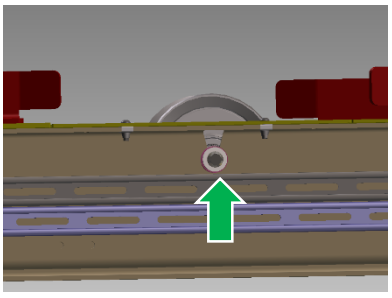
6 Remove damaged belt and replace it with a new belt. Thread each roller through the toothed belt(s) so that they are on the appropriate pulleys and rollers.



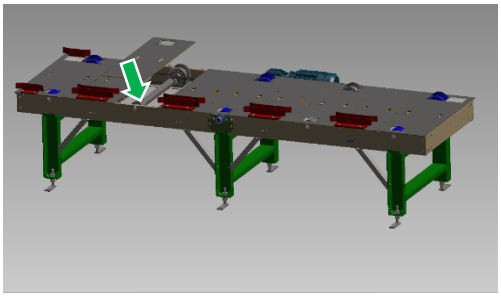
7 Insert rollers into both sides of the frame, turning the roller so that flats on the rod end fit into the slots.



8 Retighten bolts on both sides of rollers on the Power Roll Bed.



9 Place cover back on power roll bed and tighten screws.

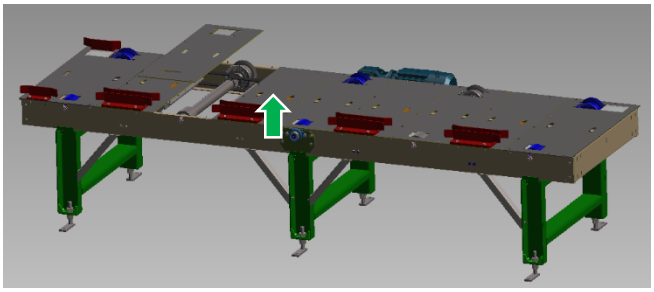


10 Restore power to the system and test for proper operation.

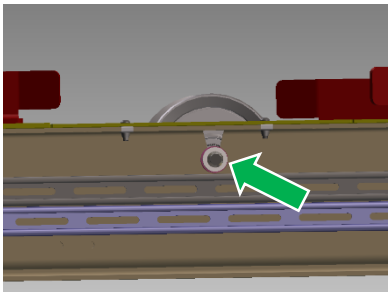
How to Replace a Roller

1 Remove and lock out power to the Power Roll Bed using your plant's procedures.

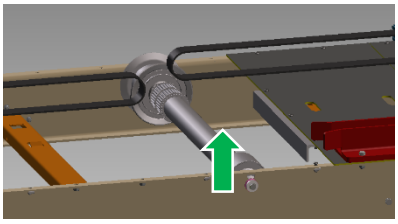
2 Remove cover.



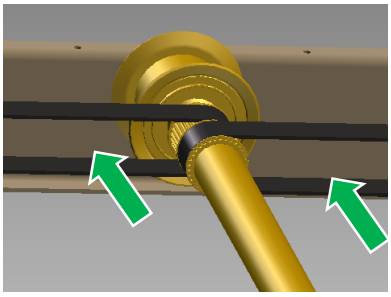
3 Remove the hex head bolts holding the shafts on both sides of the roller. To replace an interior roller, the belt sharing rollers may also need to be loosened from the frame to free up tension from the belts.



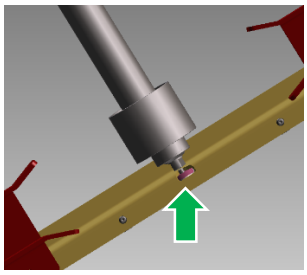
4 Lift roller shaft upward and remove belt(s) off roller shaft.



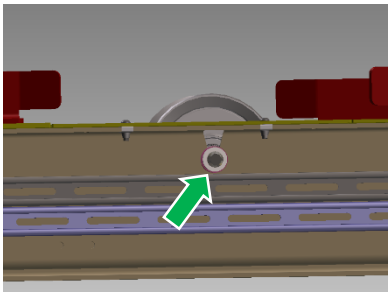
5 Insert new roller through the toothed belt(s) and place on the pulley.



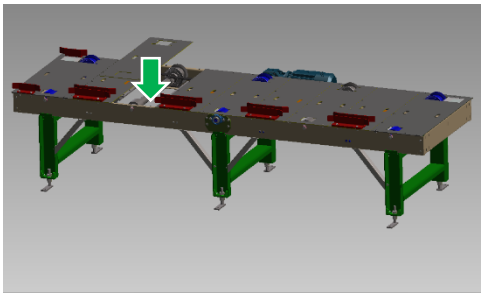
6 Turn the roller so that the flats on the rod end fit into the slots on both sides of the frame.



7 Retighten bolts on both sides of the Power Roll Bed.



8 Place cover back on power roll bed and tighten screws.

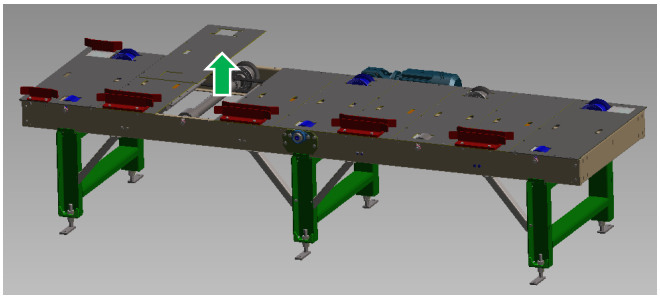


9 Restore power to the system and test for proper operation.

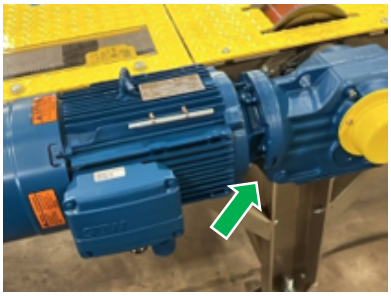
How to Replace a Gearmotor

1 Remove and lock out power to the Power Roll Bed using your plant's procedures.

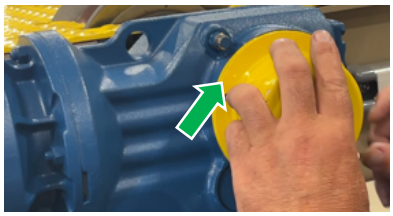
2 Remove covers where necessary.



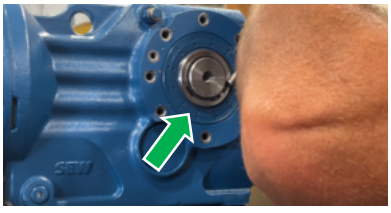
3 Remove all required electrical connections.



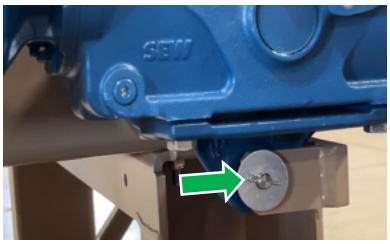
4 Remove all screws to remove the gearmotor cover.



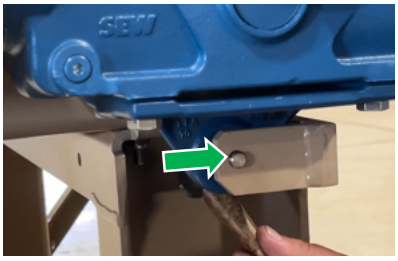
5 Remove the retaining ring from the drive shaft.



6 Remove the cotter pin and washer from the frame mount.

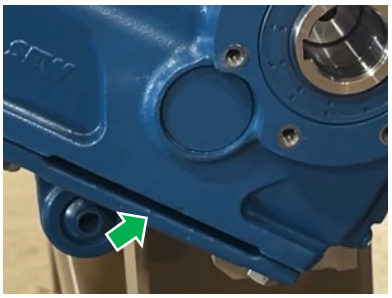


7 Remove the retaining pin from the frame and the gearmotor base.

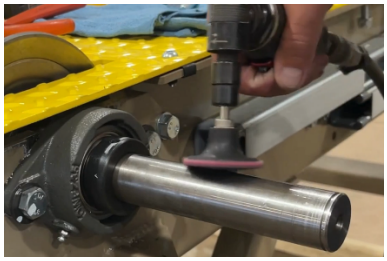


8 Using an overhead crane, carefully hoist the gearmotor off the unit.

9 Remove the gearmotor base from the old gearmotor to install on the new gearmotor.



12 Using a fine-grit sand disk, gently clean the external drive shaft to remove any material buildup.



13 Install a new key by carefully inserting and gently tapping it into the slot on the drive shaft.

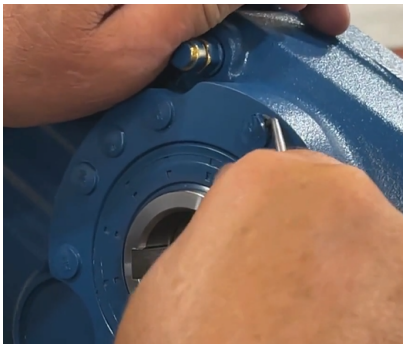
14 Gently sand the edges of the new key to eliminate any burrs for easier insertion into the gearmotor.

15 Remove the protective shipping caps and the contents of the hollow bore in the SEW gearmotor.

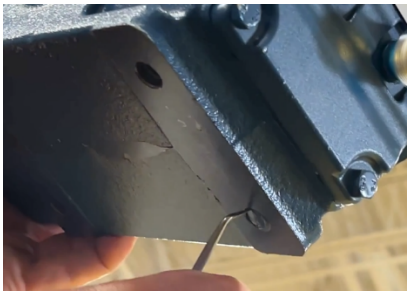
16 Set aside the SEW provided NOCO-Paste corrosion protection and lubricant.

17 Remove the retaining ring from the hollow bore and set it aside.

18 Take out the screw plugs located around the perimeter of the hollow bore.

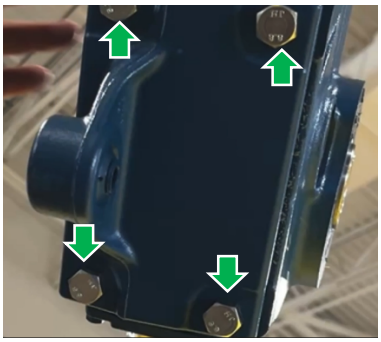


19 Remove the screw plugs from the bottom of the gearmotor as well.

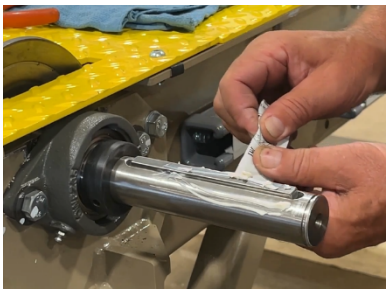


20 Apply Loctite to the bolts intended for securing the gearmotor base to the bottom of the gearmotor.

21 Affix the gearmotor base to the underside of the gearmotor.

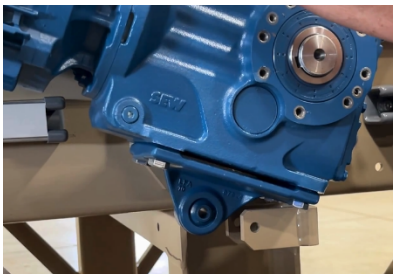


22 Apply the SEW-supplied NOCO-Paste for corrosion protection and lubrication on the drive shaft.



23 Using an overhead crane, place the new gearmotor on the drive shaft. Remove any excess NOCO-Paste.

24 Align the mounting holes on the new gearmotor base with the holes on the conveyor frame.



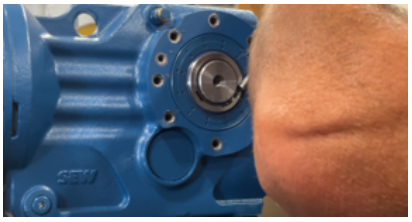
25 Reinsert the retaining pin on the frame and the gearmotor base.

26 Due to restricted space, utilize a C-clamp to aid in maneuvering the pin through the holes.

27 Gently tap the pin the rest of the way through.

28 Reinsert the washer and cotter pin on the frame mount.

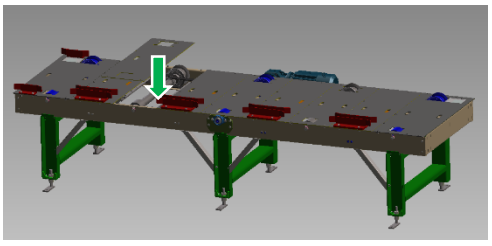
29 Reinsert the retaining ring on the drive shaft.



30 Place the gearmotor safety cover back on the gearmotor.

31 Re-attach all required electrical connections.

32 Place cover(s) back on power roll bed and tighten bolts.



33 Restore power to the system and test for proper operation.