

## INSTRUCTIONS

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The Tech-Roll comes supplied with self-aligning flange bearings or pillow block bearings. The hydraulic manifold is located in a corresponding bearing housing and is also self-aligning. In addition, the locked shaft can be moved approx. 3/16" to either side of center to allow for adjustment to mounting holes in the conveyor frame and centering the roller in the frame. The locked shaft is supplied with a nipple just inside the hydraulic feed/shaft-lock. The nipple is the breather vent for the inside of the roller.

The end of the locked shaft is stamped with an "A" and a "B". Pressurizing the "A" side fitting will make the roller turn counterclockwise, the "B" side pressurized will turn the roller clockwise (seen from the end of the shaft)

In wet locations, it is recommended that a transparent hose be fitted to the nipple to prevent water from entering the roller. The hose will also serve as an indicator of an unlikely hydraulic leak inside the roller. Be sure to point the nipple facing down or horizontally to avoid clogging the nipple. On stainless steel rollers, the internal ball bearing is grease-able through a grease fitting at the end of the shaft. This bearing should be greased a minimum of once a week, as should the live-shaft bearing.

The Tech-Roll is ready to bolt onto a framework and to be connected to a hydraulic system. Should it be necessary to disassemble the roller this can be accomplished by removing the two screws that hold the vertical key on the locked shaft, and sliding off the hydraulic feed/shaft-lock assembly in one piece - (do not attempt to remove the two hydraulic fittings from the assembly, they are securely tightened and sealed with Loctite). Remove the four screws (on small diameter rollers, loosen the three screws three turns only) on the locked shaft hub. Reinstall the vertical key on the locked shaft to serve as a handle when lifting up the power module. Lift up the power module. We recommend that the O-rings and shaft-seal on the hub be changed every two years.

Should it be necessary to dismantle the hydraulic motor, remove the bolts that hold the locked shaft to the motor. The shaft and the motor will now separate, as will the individual parts of the motor. To reassemble, reverse the order of operation: tighten bolts on the hydraulic motor/shaft to 25 ft/lb. Maximum pressure is 1000 psi unless otherwise approved by Tech-Roll, Inc. Service manuals are available on request from Tech-Roll.

If any questions should arise, contact Tech-Roll, Inc at (360) 371-4321 or email us at [sales@tech-roll.com](mailto:sales@tech-roll.com)

