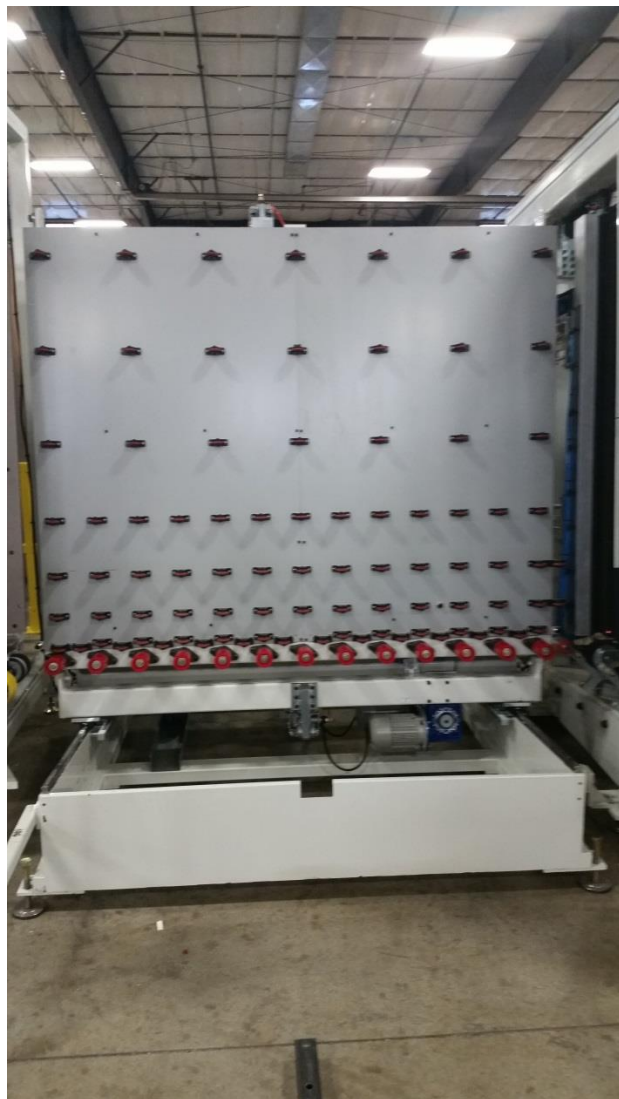
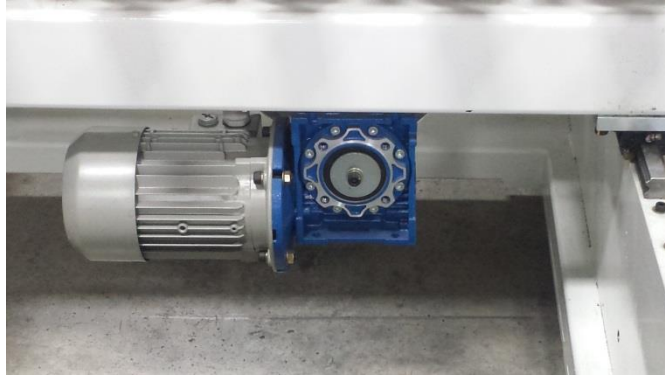


SHUTTLE CONVEYOR

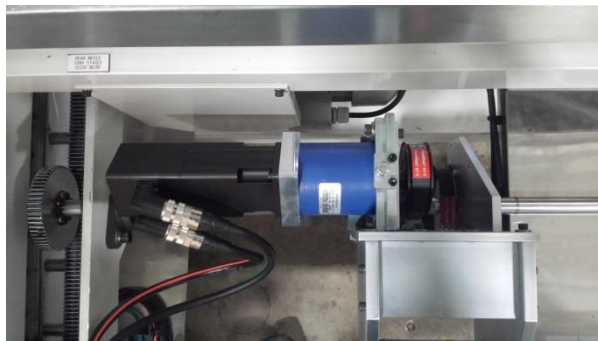
MAINTENANCE INSTRUCTIONS





1. Gear Box

- a. Location: Front and Back, out feed end
- b. Motovario gearboxes are lubricated for life, no additional maintenance required



2. Precision Gear Box

- a. Location: back press
- b. Lubricated for their service life by the manufacturer with a mineral oil-based lithium soap
- c. Inspect for leak and damage



3. Bearing

- a. Location: Front and back-behind guarding
- b. Type: NLGI 2 EP Lithium Grease
- c. Frequency: Lubricate every 216,000 units



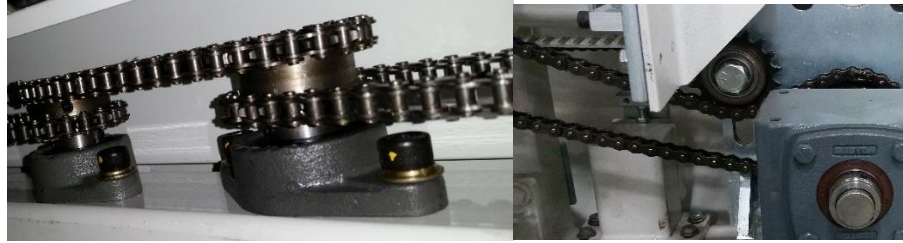
4. THK bearings

- a. Location: Bottom
- b. Pay special attention to Blocks and Rails
- c. Wipe any contaminants such as dust or silicone from rail surfaces daily at minimum, between shifts is preferred
- d. Type: NLGI 2 EP Lithium
- e. Frequency: Grease every 20,000 units



5. Air cylinder

- a. Location: Top Center
- b. Wipe any contaminants such as dust or silicone from rod surface



6. Roller Chain

- a. Location: Back-behind guarding
- b. Inspection: Check for dust build up. Check for tension, wear, abrasions. Replace per manufacturer's instructions and recommendations
- c. Type: Crown 363115-001 Chain Lube
- d. Frequency: Inspect and lubricate once per month



7. Transfer Roller

- a. Location: Vertical bed surface
- b. Inspect and replace as needed



8. Air filter

- a. Location: Back, back shuttle blower motor
- b. Type: F885SP PAPER FILTER
- c. Frequency: Replace as needed