

# Recommended Preventative Maintenance Program

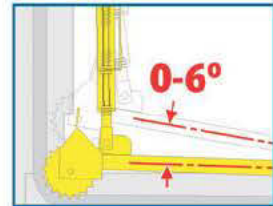
The Ryson Spirals require little maintenance. The bearings are lubricated for life and the chain requires infrequent lubrication. The chain will stretch during operation and needs to be shortened occasionally.

## Daily:

1. Inspect chain and replace any damaged or missing parts. Do not run the spiral with missing parts.

## Weekly:

1. Check the chain tension. Shorten the chain when needed. The chain may have to be shortened within the first 200 hours of operation (see the chain shortening instructions in the manual).
  - The chain tension bar should operate at an angle between 0° and 6°. The chain needs to be shortened when the tension bar is at or below 0° (horizontal).
  - **Spirals with spring tensioner** - Check the spring compression. The compressed spring should measure 140mm. The tensioner flag should operate between the red and the green markers.
  - **Spirals with air operated tensioner** - Check the tensioner air pressure. For the forward direction (up) the pressure should be set at 15 PSI, and the reverse direction (down) at 20 PSI. Larger units may need higher pressure to achieve proper tension - consult your owners manual.
2. Check the transition rollers and holders. All rollers should turn freely and be adjusted to the correct height for smooth transitions. All hardware should be tight.
3. Check speed matching. The in-feed, spiral and out-feed conveyors must be running at the same speed.
4. Check the guide rails for proper position. All hardware should be tight.



## Monthly:

1. Check the chain tensioner and safety circuit for functionality. Fault out the slack chain proximity sensor. The spiral and the infeed conveyors should stop immediately and **not** automatically restart.
2. Check the overload protection device and safety circuit for functionality. Fault out the overload proximity sensor. The spiral and the in-feed conveyors should stop immediately and **not** automatically restart.
3. Check the outfeed jam sensor for functionality. Loads should not back up into a running spiral. The spiral and the infeed conveyors should stop immediately.



## Quarterly:

1. Check the chain and sprockets for wear and lubrication. Apply lubricant only when required, and apply sparingly to prevent dripping and buildup. Do not lubricate plastic parts. We recommend the use of a spray application (see photo) or a brush on method.

## Every 2 years:

1. Change oil in the motor gearbox.

Please refer to the maintenance manual for more details. The Ryson Service Department is always available to assist with installation and service questions. Feel free to call 757.898.1530 or e-mail [service@ryson.com](mailto:service@ryson.com) with questions.