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RYECO Edge Marking Systems Maintenance

RYECO Recommended maintenance 1-2 times per year.

To purge the dye delivery system and seal the reservoirs:

1. Remove the lids of each dye tank reservoir then disconnect the air and dye supply tubing
2. Empty the reservoirs of all dye and wash them out with clean water
3. Re-fill with warm water and put the reservoirs back into the Ink Station
4. Re-connect the dye supply tubing then the air supply tubing to the tanks
5. Tighten the lids and allow the reservoirs to build up pressure
6. Remove the ten tube connector from the back of the extension tube
7. Press in on the ten tube shut off valves 3, 4 and 5, (counting CCW from the notch) with a small instrument until clean water is flowing
8. Scribe a reference mark across the modules in the transition box to ensure proper re-alignment of the modules
9. Remove the Edge Marker Module (EMM) and Edge Tracking Module (ETM) from the extension tube
10. Reconnect the ten tube connector to the Extension tube
11. Press the manual mark buttons for each color until clean water flows out of the dye supply lines
12. Push the buttons rapidly several times to dislodge any silt from the solenoid valves
13. Thoroughly clean the Edge Marking module by soaking it in a bucket or sink of warm water and washing it down
14. Remove the liquid tip from the spray nozzle bodies of the marker module and clean or replace the filter screens and liquid tip
15. Re-connect the marker to the dye supply tubing and vacuum drain line
16. Press all of the color buttons until clean water sprays through the marker module
17. Empty the water from the dye reservoirs and dry thoroughly
18. Refill each reservoir with the correct color RYECO dye (caution - use only RYECO specified dyes - the system and its components are configured specifically for these formulations)
19. Tighten the lids and allow the reservoirs to build up pressure, then test the fittings for air leaks
20. Remove the ten tube connector from the back of the extension tube
21. Press in on the ten tube shut off valves 3, 4 and 5, with a small instrument until good un-diluted dye is flowing through the connector
22. Re-connect the tube connector and press the manual mark buttons for each color until the marker is marking with un-diluted dye

Approximately every year:

1. Check ETM modules for dirty or oily air, clean if necessary
2. Check for paper/paper dust buildup at the marker jaw.

Weekly Routine:

1. Check dye tank level
2. Check amount of paper dust buildup or a piece of paper lodged in the EMM
3. Check mark quality and width.

Monthly shutdowns (or as needed):

This schedule depends on mill conditions and can be extended with the use of a Hot Swap spare marker tube.

Clean the Edge Marking Module (EMM):

This can be done by using the Marker Test Station (filled with water) and flushing the tube and EMM with water.

This can also be done by removing the EMM from the Extension Tube. Place the EMM in a bucket of water or under running water. Clean all paper dust and buildup out of the jaw area. Reconnect the EMM to the Extension Tube. Off sheet, manually spray until undiluted dye comes from the sprayers. Place in service.

At this time, verify that purge air is blowing from the ETM eye slots.

Pin-out Sprayer Maintenance:

This version of the EMM uses a pin-out cylinder, which more precisely controlled spray times and helps in keeping the spray tip clear.

There is a 'piston' cylinder, requiring 30-40psi Cylinder Air (regulator inside of the ink station) which must raise to spray dye.

Once in good operation at installation, these are very reliable sprayers. After 1-2 years or >2 million cycles, the packing and seals may need to be replaced.

Steps: Remove the EMM from the Extension Tube.

Remove the marker jaw cap (4 small screws)

With the sprayer removed from the EMM, or in place: hold the base of the sprayer firmly and unscrew the upper half.

Save the spring and the bronze ring.

Carefully pull the pin-cylinder straight out. Note any binding.

On the spraying end, unscrew the nozzle tip chamber. There is an hourglass shape piece that should be cleaned. Check that the interior hole is not blocked by dried dye or other obstruction.

Do not let these small nozzle pieces drop into your sink drain.

Reassemble the sprayer

Reassemble the EMM

*** Call Ryeco's 24-hour Customer Service if you have any questions ***

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