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DIAGNOSING YARN QUALITY PROBLEMS

If you are having yarn quality problems, specifically twist variation, with your 2/1 twisting machines, here are some things to look for.

High Twist or Hard Twist:

1. Check for the correct gearing combination.
2. Check that the cradle setting is set for the take-up package, alignment, and pressure.
3. Are the centering discs turning freely?
4. Ensure that the take-up roll is not slipping on the shaft.
5. Make sure the take-up roll cot is not damaged or worn.
6. Is the traverse thread guide rubbing the take-up package?
7. Is the take-up yarn tension too high, making the take-up package slip?
8. Is the machine operator following correct procedures?

Low Twist or Slack Twist:

1. Is the gearing combination wrong?
2. Is the yarn lapping on the spindle, and slowing the spindle speed?
3. Is the brake dragging the spindle, and slowing the spindle speed?
4. If the spindle drive tape is set too loosely, this will also cause slow spindle speed.
5. Worn spindle whorls will also cause slow spindle speed.
6. Check for improper yarn settings.

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