

OMNI-FLEX BELT ASSEMBLY INSTRUCTIONS

1. Overview

flex laterally to follow curve paths while maintaining positive drive.

2. Belt Components

SPIRALS	Helically wound wire forming belt body
CROSS-RODS	Connect spirals across belt width
EDGE LOOPS	Secured cross-rod ends at belt edges
CONNECTING ROD	Joins belt ends at splice

3. Assembly Procedure

1. Lay belt flat on clean surface — verify direction of flex matches curve
2. Check belt width — trim if needed (always trim from both sides equally)
3. Position belt on conveyor frame — align with sprocket locations
4. Engage belt with drive sprockets — verify all teeth engage
5. Engage belt with idler sprockets at tail end
6. Bring belt ends together at splice point
7. Insert connecting rod through edge loops at both belt ends
8. Secure connecting rod — bend tabs or install end caps
9. Verify splice is flush — no gap or overlap
10. Set belt tension — snug but not taut

4. Curve Installation

- Verify inner radius matches conveyor curve design
- Check that sprocket positions match belt engagement in curve
- Install curved wear strips — must match radius precisely
- Verify belt flexes smoothly through curve — no binding



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- Check that belt edge does not contact frame in curve
- Adjust tension after belt has settled in curve (24 hours)

5. Post-Assembly Verification

- ☐ Belt engages all sprockets across full width
- ☐ Belt flexes through curve without binding or catching
- ☐ Splice is secure and flush — no protruding rods
- ☐ Belt tracking is centered through straight and curve sections
- ☐ No wire breaks or damage from assembly
- ☐ Tension set correctly — re-check after 24 hours

OMNI-FLEX BELT SUPPLY

Uniking Canada supplies Omni-Flex belts and curve system design.