**Eye-Flex® Conveyor Belt**

**Conveyor Design Guidelines**

Roller Chain Belt Edges — Positively Sprocket Driven

**Typical Belt Circuits**

**Simple Loop Circuit**

Take-up Idle Infeed

Drive Discharge

Catenary Slack Loop.

**Inclined Conveyor with Single Reverse Bend Arrangement.**

Reverse bend curved guide wear strips at belt edge roller chain positions.* Do not trap chain between top & bottom curved guides—see page 5

Take-up Idle Infeed. Free rotating sprockets and/or rollers.

Curved chain edge hold down/guide wear strip.

This support wear strip may not be necessary where horizontal infeed section is short.
Inclined Conveyor with Single Forward Bend Arrangement.

Curved support wear strip at belt roller chain edges.

Reverse bend chain edge support curved guide support wear strips.*

Drive Discharge

Take-up Idle Infeed

* For minimum reverse bend radius contact Wire Belt Technical Sales. Radius can vary depending upon the height of any side guards and the chain specification selected. DO NOT support belt on wire links at reverse bend position.
Inclined Conveyor with Reverse & Forward Bend Arrangements.
(“Swan Neck — Z” Configuration).

Reverse bend chain edge hold down curved guide wear strips.*
Do not trap roller chain edges between top & bottom curved guides—see page 5

This support wear strip may not be necessary where horizontal infeed section is short.

Allow suitable clearance between guides for chain roller.

* For minimum reverse bend radius contact Wire Belt Technical Sales. Radius can vary depending upon the height of any side guards and the chain specification selected. DO NOT support belt on wire links at reverse bend position.

Idle Infeed Take-up Options (all circuits):

- (Gravity weight adjustable)
- (Screw Adjustable)
- (Pneumatically Adjustable)
- (Spring Adjustable)

Note: Ensure that belt take-up adjustment operates evenly on each side of the conveyor. DO NOT over tension belt.
Drive & Idle Infeed Shaft Setup

NOTE: Ensure all shafts are parallel & horizontal with sprocket teeth in true alignment and set symmetrically about the conveyor centre line.
Typical Conveyor Cross Section

Top hold down chain guide wear strip. Fit where required.

Ensure adequate clearance

Chain edge support wear strip.

Belt support wear strips at intermediate rows of reinforcing plates. Without intermediate reinforcing plate rows support directly on wire links.

Optional cross flights & side plates.

Alternative Chevron (Herringbone) pattern wear strips can be used to support mesh on straight running conveyor sections. This arrangement shares the load and wear across the full width of the belt. Straight running wear strips will be required to support roller chain edges in combination with the Chevron wear strips. If used on the carry way the cross section of the Chevron wear strips should have a feathered edge. See below:

Roller Chain belt edges to be supported on straight running wear strip rails.

Cross Section “A—A”

NOTE: Where possible always use low friction wear strip material.