



General Problems

PROBLEM	CAUSES	<u>NOTES</u>
Belt Sag	*Insufficient belt tension *Improper idler placement	
Ply separation	*Pulley diameter too small *Damage by chemicals, heat, oils *Excessive impact on belt and splice *Belt edge contacting structure	
Transverse breaks at belt edge	*belt edges folding up on structure *Improper transition between troughed belt and terminal pulley	
Belt cupping (new belt)	*Severe pulley crowning *Belt construction *Belt too elastic (excessive tension) *Belt misapplication	
Belt cupping (old belt)	*Damage by chemicals, heat, oils *Severe pulley crowning	
Belt folding over on itself	*Severe pulley crowning *Material buildup *Component alignment	
Tracking Problem One section runs off	*Pullevs not parallel, level, square	

One section runs off	"Pulleys not parallel, level, square	
line at all conveyor	*Insufficient pulley crowning	
	*Damage by chemicals, heat,	
points	mechanical components	
	*Belt camber	
	*Improper splice procedure/technique	





Tracking Problem continued

PROBLEM

Erratic tracking- belt runs off-line at intermittent points

*Off-center loading
*Idlers/pulleys misaligned
*Insufficient pulley crowning

CAUSES

*Material buildup

Belt miss-tracks at pulley head

*Idlers/pulleys misaligned *Pulley lagging worn *Material buildup

*Improper idler placement

*Off-center loading

Belt miss-tracks at tail pulley

*Insufficient belt tension

*Idlers/pulley misaligned

*Idlers seized *Material build-up

*Insufficient pulley crowning

Belt Slip Problems

Slip while running *Contamination of drive/belt interface

*Insufficient belt tension *Pulley lagging worn

*Material buildup on slider bed/rollers

*Idlers seized

Slip during start-up *Contamination of drive/belt interface

*Insufficient tension *Pulley lagging worn

*Material buildup on slider bed/rollers

*Belt undersized



Splice Problems

PROBLEM

CAUSES

Splice separation

*Excessive belt tension

*Pulley diameter too small

*Improper splice procedure/technique

*Belt misapplication

*Material build-up on conveyor

components

*Excessive impact on belt & splice *Damage by chemical, heat, mechanical components

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Mechanical lacing pulls

out

*Excessive belt tension

*Damage by chemical, heat, mechanical components

*Belt mistracking
*Wrong lace type
*Belt misapplication

Excessive belt elongation

During start-up

*Excessive product load

*Belt misapplication

*Material build up on conveyor

components

*Effects of heat/humidity

Permanent elongation

*Excessive belt tension

*Belt misapplication

*Material build up on conveyor

components

*Damage by chemical, heat, mechanical components

*Excessive impact

*Excessive product load



Traction layer and cover problems

PROBLEM	CAUSES
Ruptures, gouges, cracks, belt is soft in some areas	*High impact on belt & splice *Material entrapment *Belt misapplication *Damage by chemical, heat, mechanical components
Hardening & cracking	*Damage by chemicals, heat, oils *Intense infrared light, UV & ozone *Improper storage and/or handling *Pulley diameters too small *Cold or freezing temperatures
Excessive cover wear	*Relative movement against product *Localized product loading *Belt misapplication *Material build up on conveyor components *Damage by chemical, mechanical components *Excessive impact *Mistracking
Surface scaling	*Due to compression (low tension)
Excessive bottom wear	*Material build up on conveyor components *Idlers seized *Insufficient traction between belt and drive *Pulley lagging worn *Material entrapment *Slider bed higher than end rollers *Mistracking
Swelling/cover degradation	*Damage by chemicals, heat
Longitudinal grooving or cracking of bottom cover	*Sticking idlers *Material build-up *Slippage on drive pulley *Pulley lagging worn *Damage by mechanical components