



# **BULK CONVEYOR LOADING ZONES**

## **Building Success from the Ground Up**

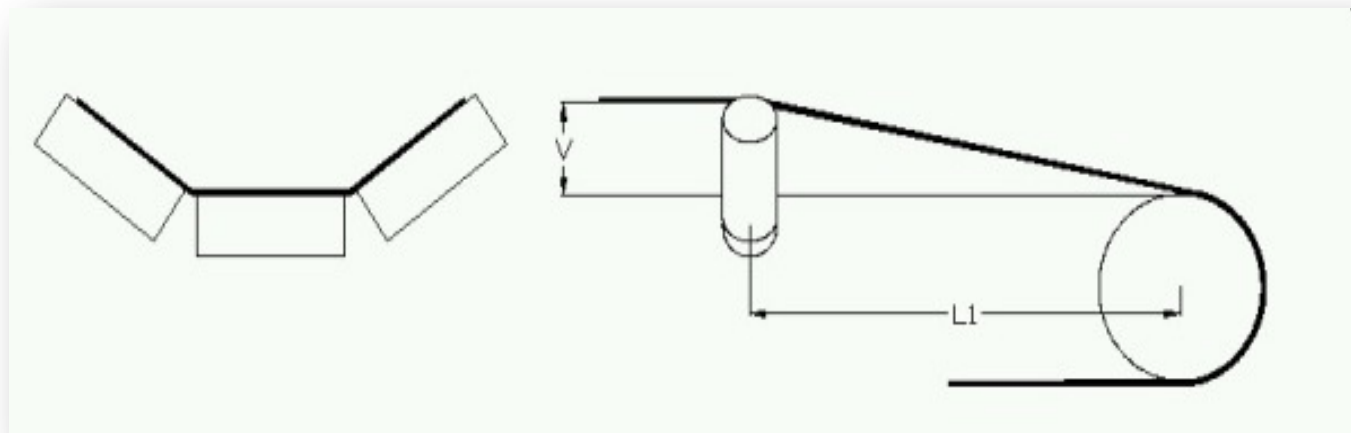
# Success from the Ground Up

- **Establish Constant Belt Elevation**
- **Provide Belt Support**
- **Provide Impact Protection**
- **Contain Bulk Material**
- **Provide Wear Protection**
- **Seal Dust and Fines**



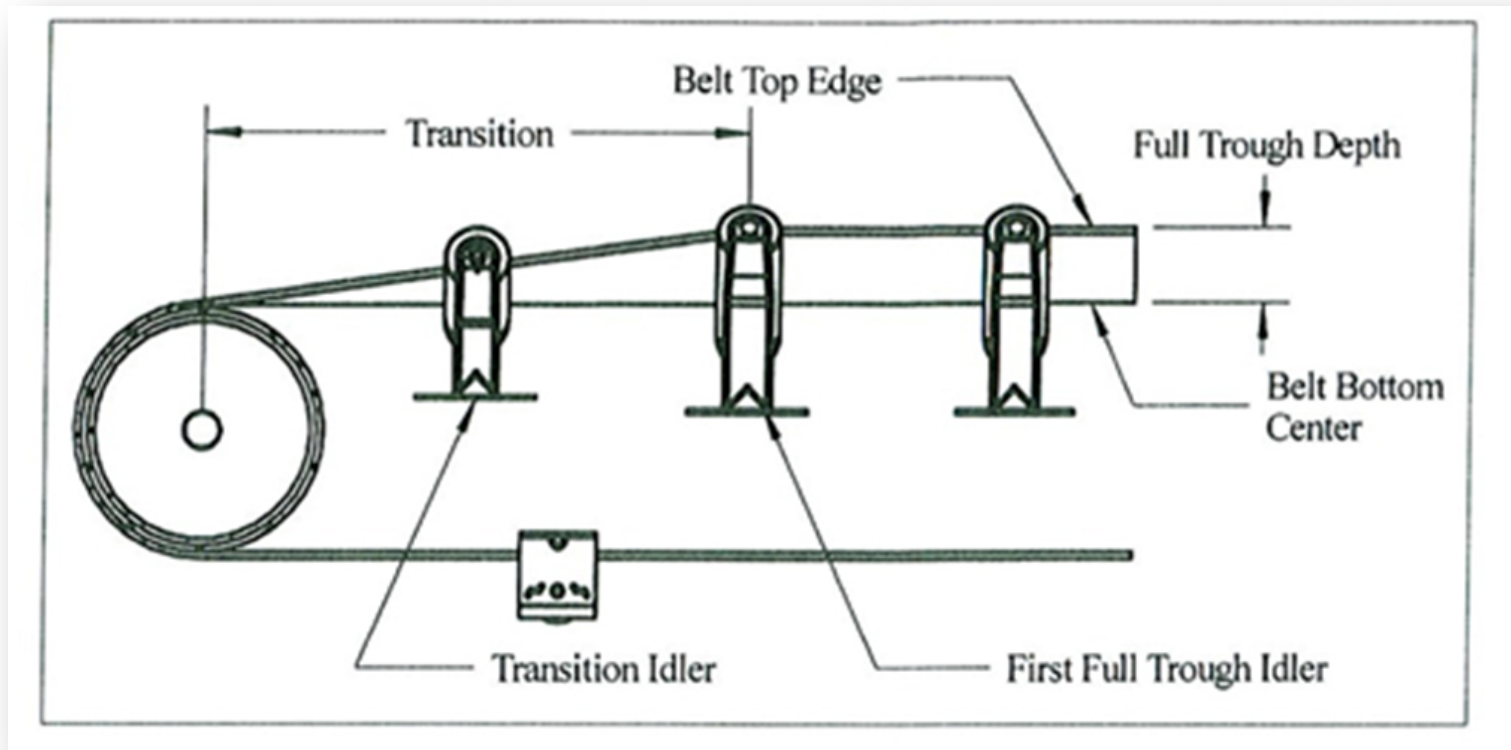
# Constant Belt Elevation

Importance of Trough Transitions



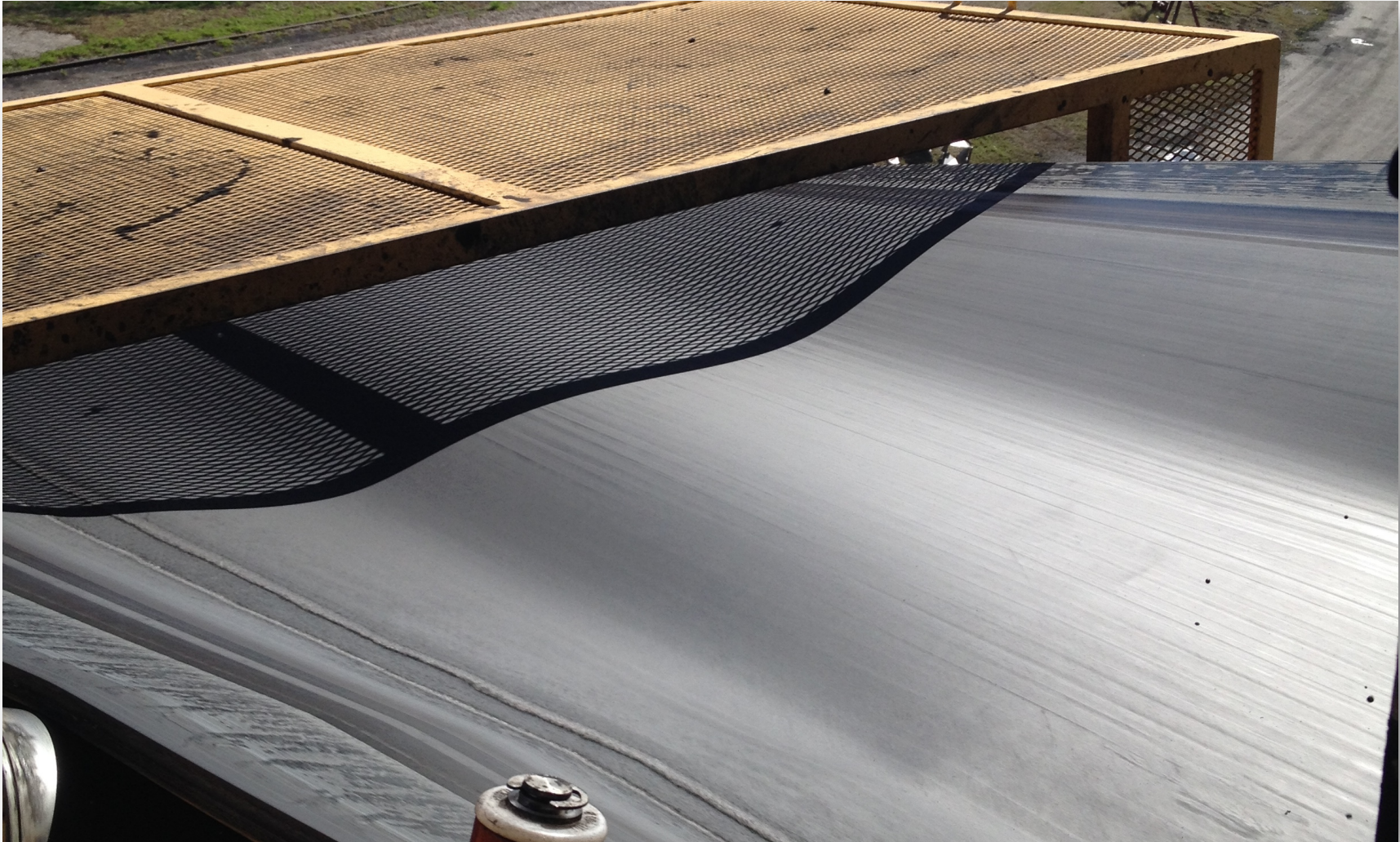
Conveyor Equipment Manufacturers Association, *Belt  
Conveyors for Bulk Materials Current Edition*

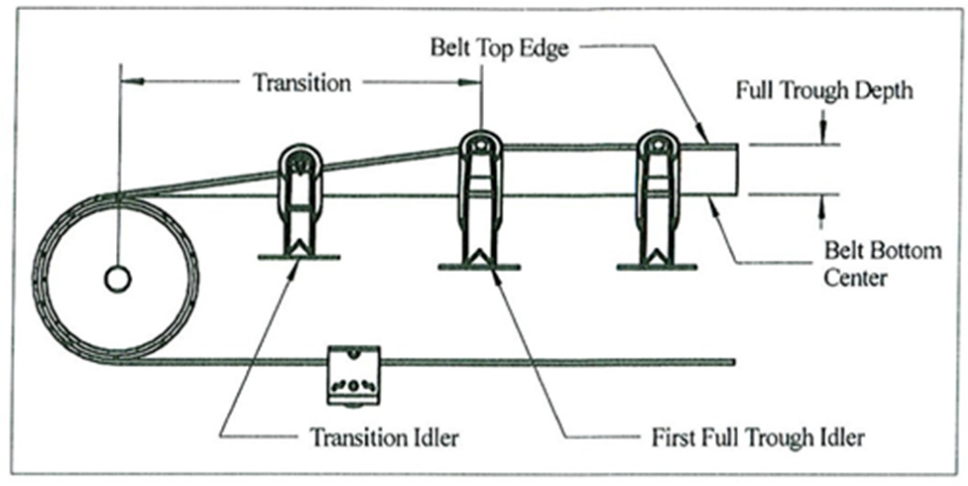




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Full trough transition provides constant belt elevation

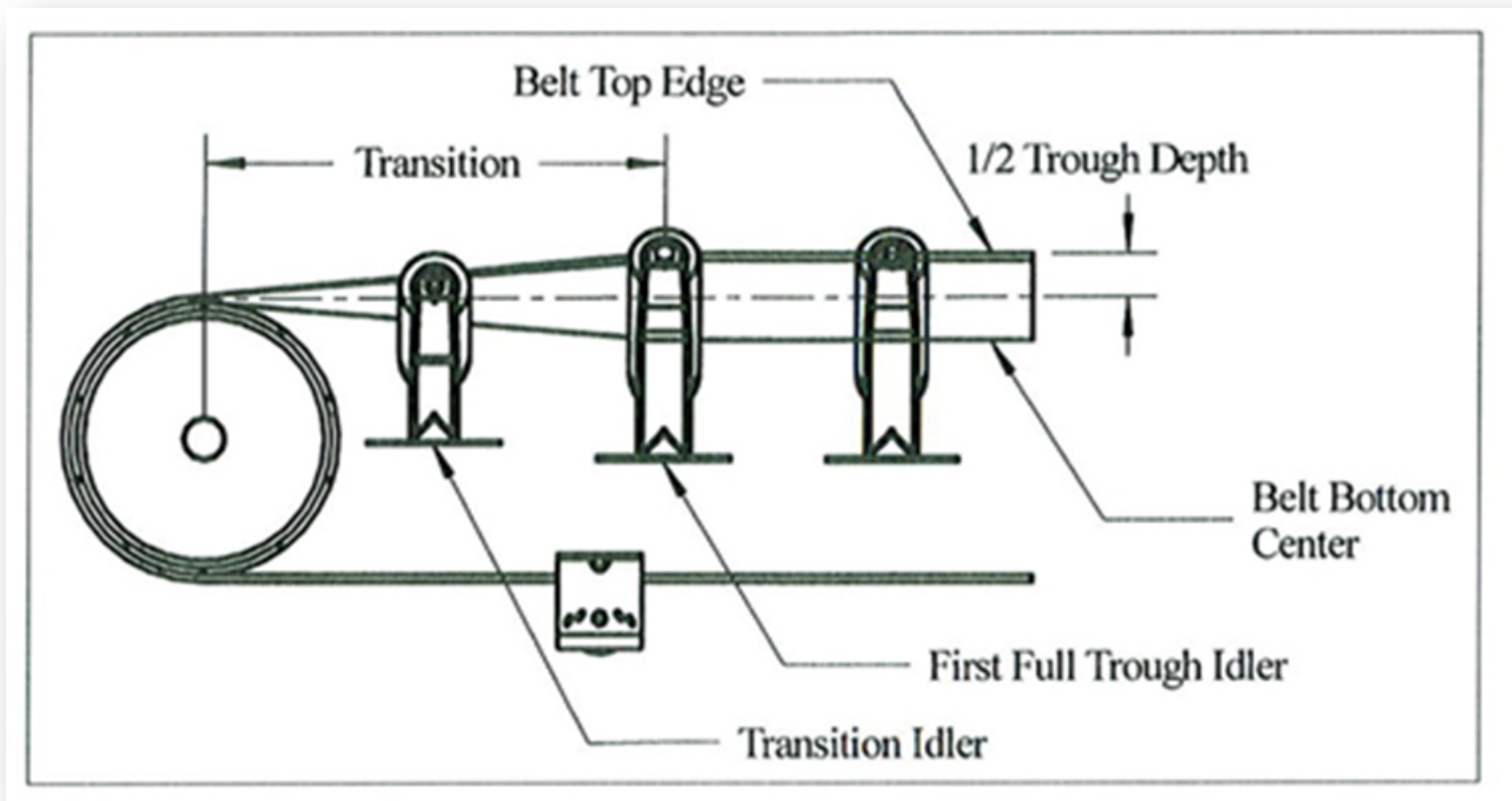




Full trough recommended minimum transition distance

Idler Trough Angle	% Rated Belt Tension	Recommended Transition Distance = Factor x Belt Width (BW)	
		Fabric Belts	Steel Cord Belts
20°	>90%	1.8	4
	60% to 90%	1.6	3.2
	<60%	1.2	2.8
35°	>90%	3.2	6.8
	60% to 90%	2.4	5.2
	<60%	1.8	3.6
45°	>90%	4	8
	60% to 90%	3.2	6.4
	<60%	2.4	4.4

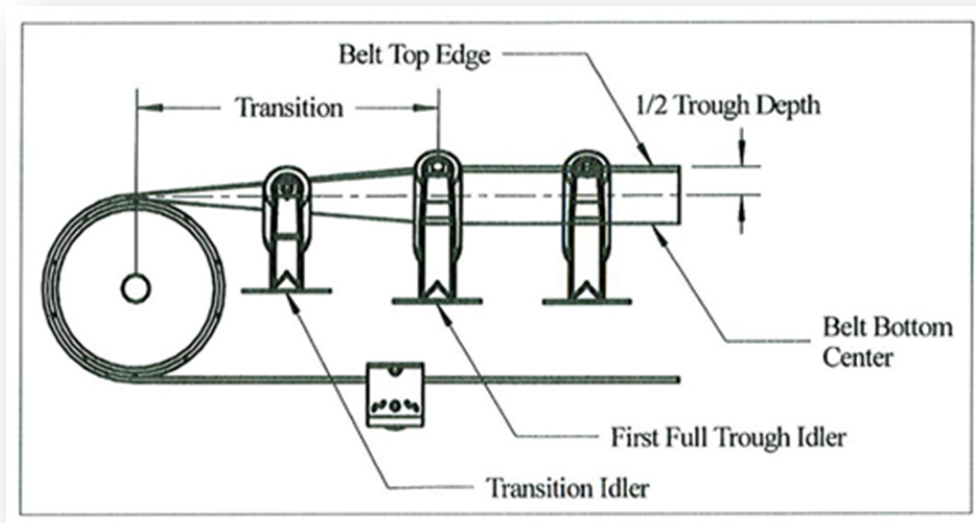
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Partial trough transition provides changing belt elevation





### Half trough recommended minimum transition distance

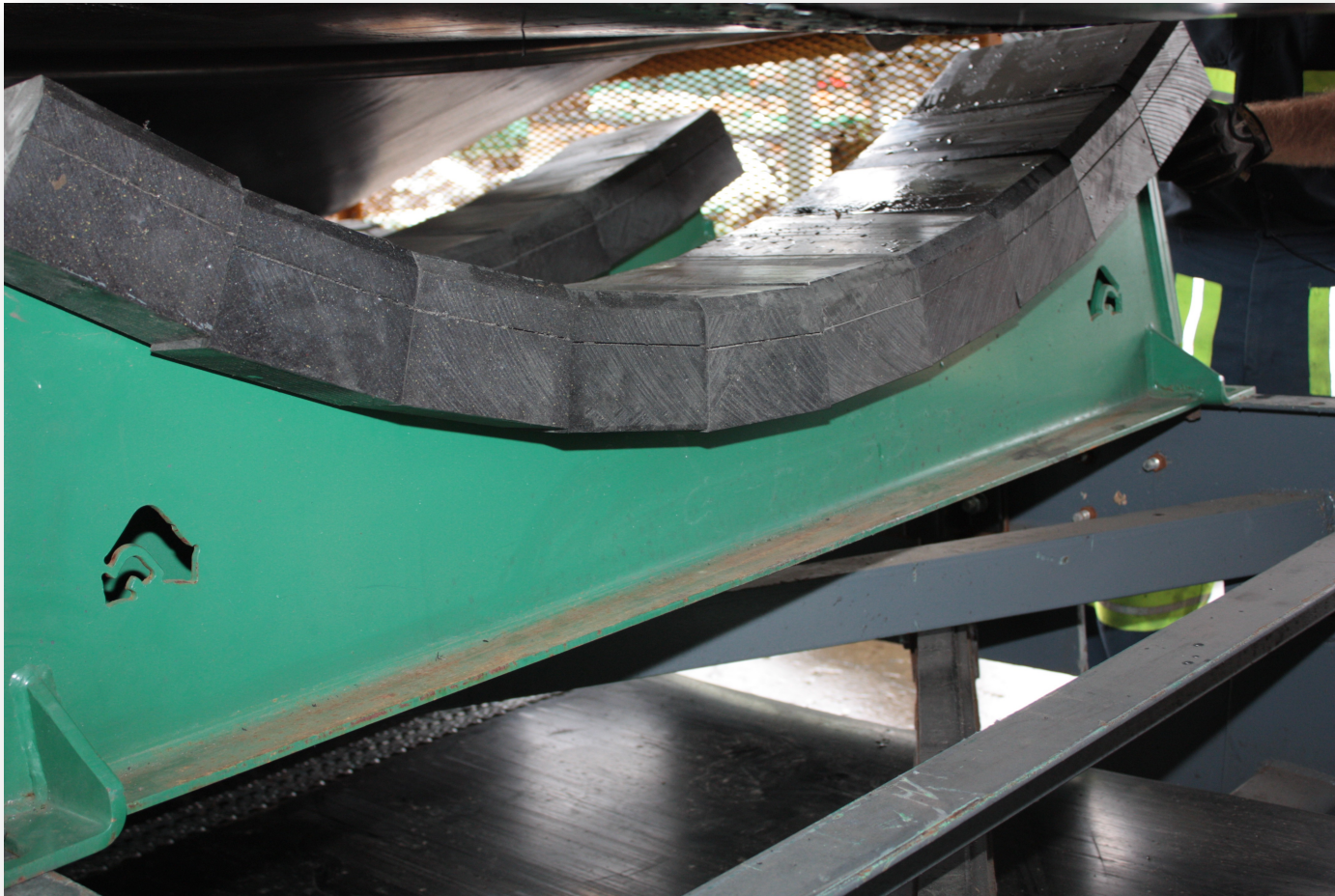
Idler Trough Angle	% Rated Belt Tension	Recommended Transition Distance = Factor x Belt Width (BW)	
		Fabric Belts	Steel Cord Belts
20°	>90%	0.9	2.0
	60% to 90%	0.8	1.6
	<60%	0.6	1.0
35°	>90%	1.6	3.4
	60% to 90%	1.3	2.6
	<60%	1.0	1.8
45°	>90%	2.0	4.0
	60% to 90%	1.6	3.2
	<60%	1.3	

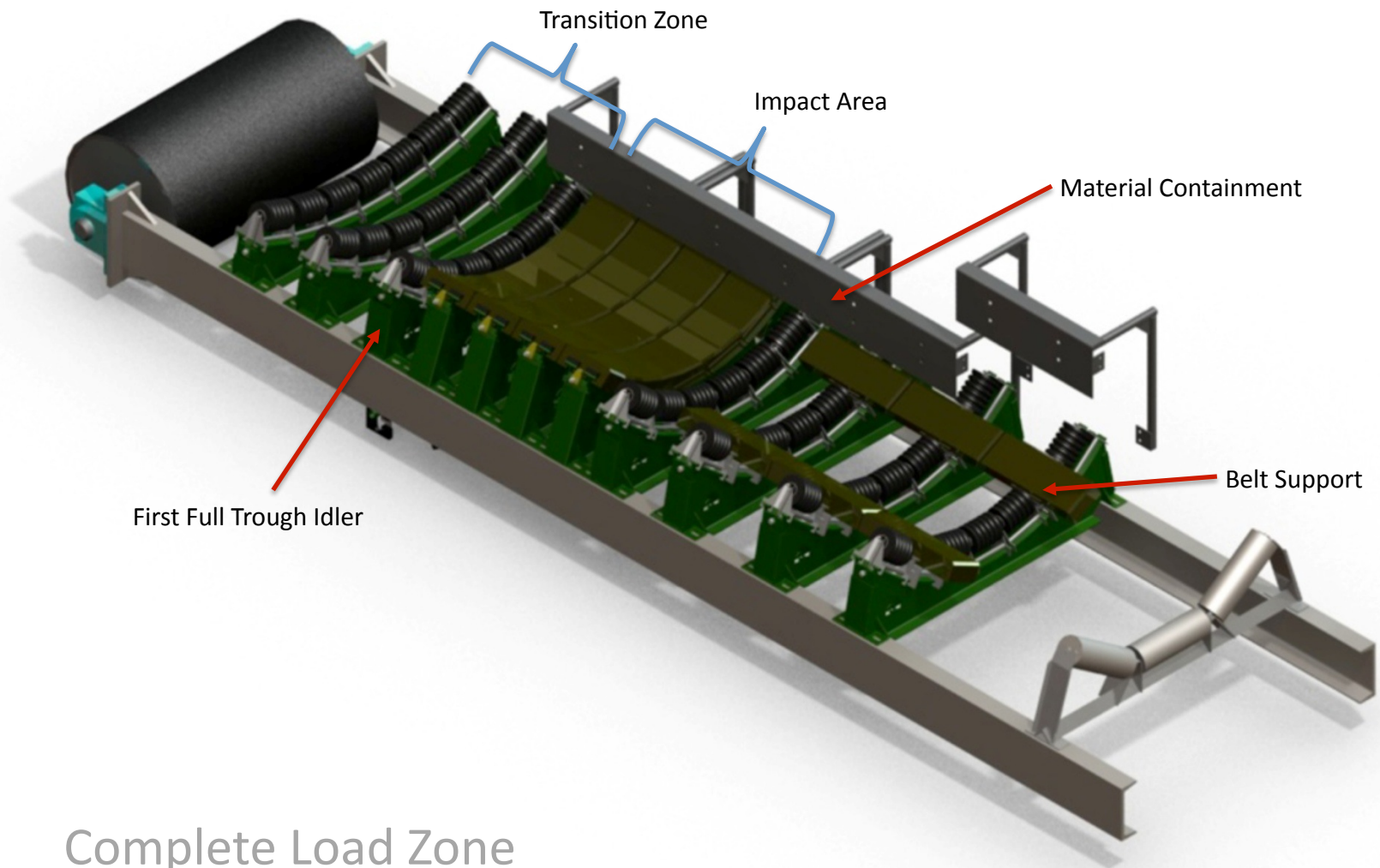
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# Belt Support

# Success from the Ground Up

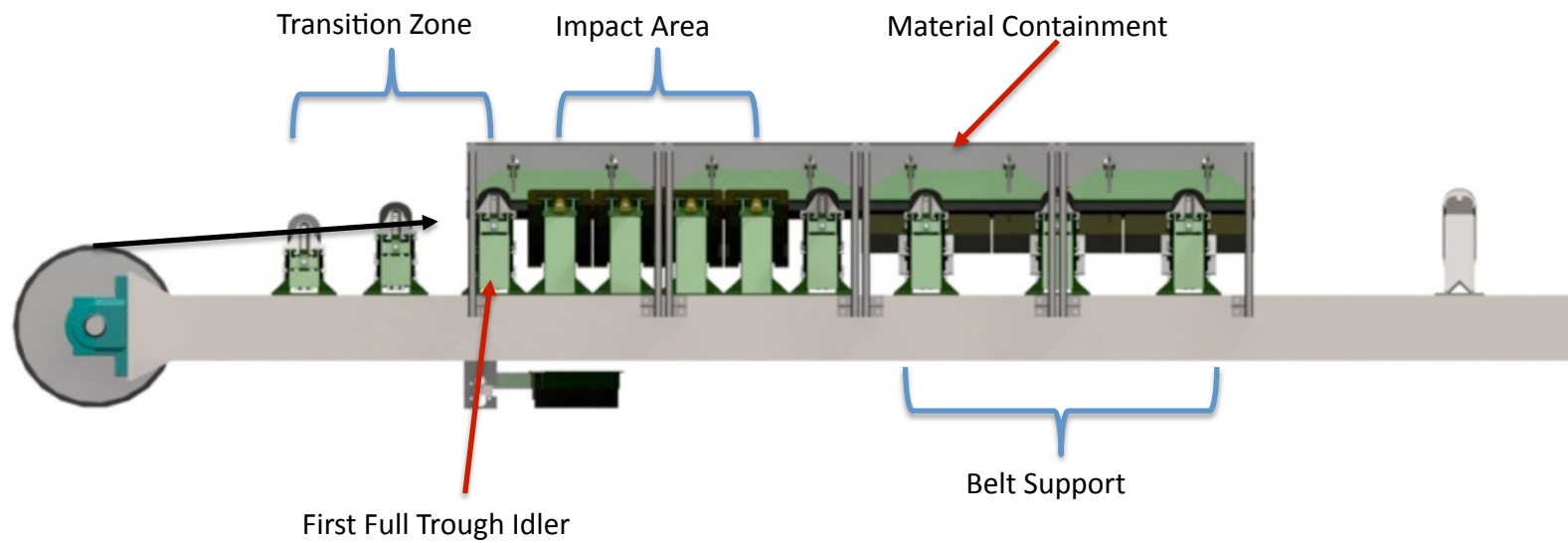
Protect and support the belt – Impact Saddles





Complete Load Zone





Complete Load Zone

# Material Containment

# Success from the Ground Up

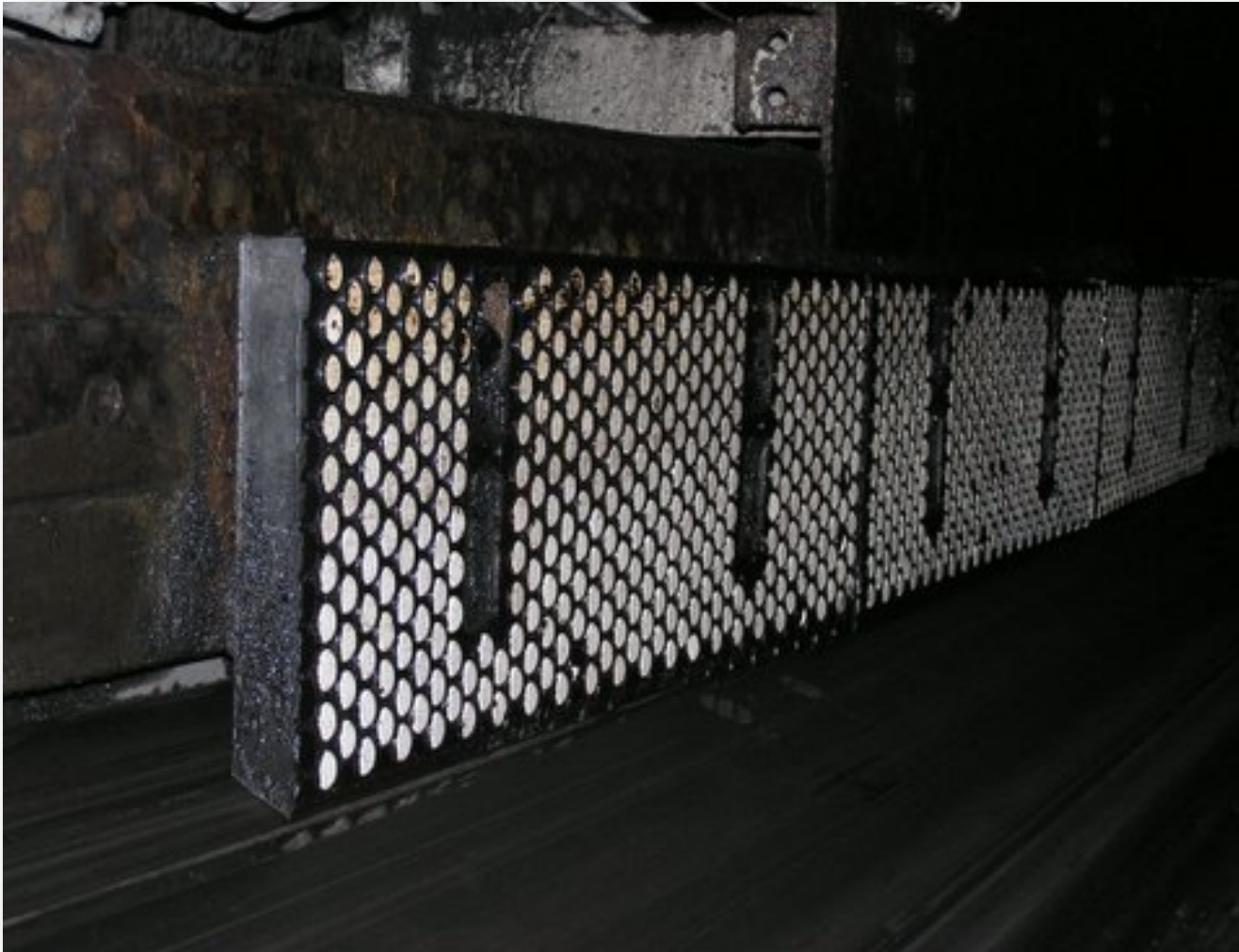
Simple skirting adjustment with no tools



# Wear Protection

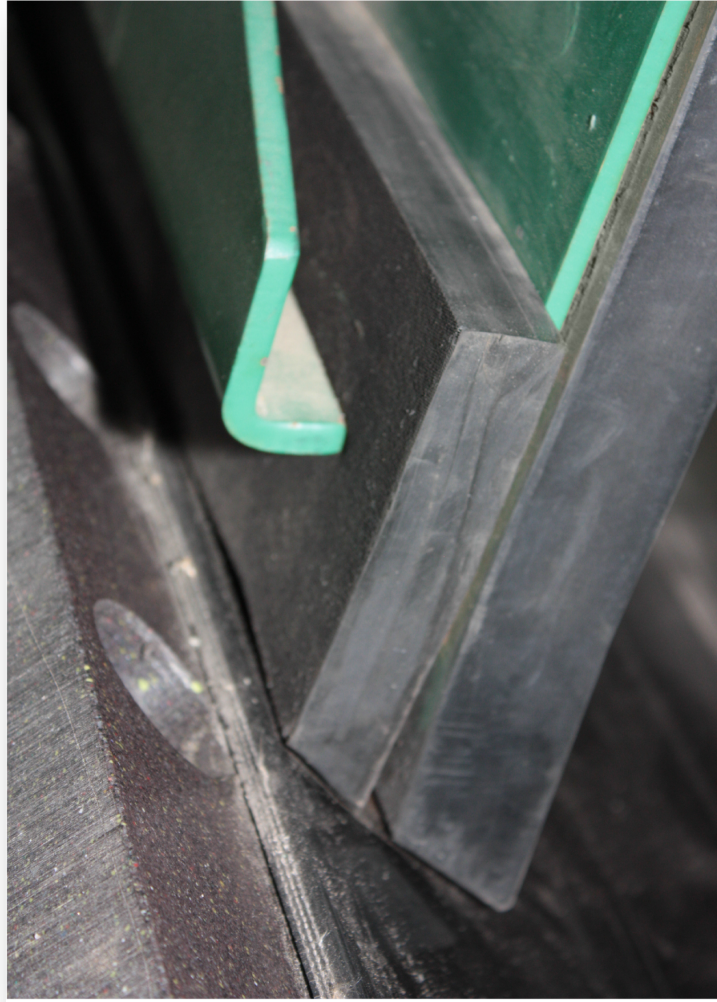
# Success from the Ground Up

Contain bulk material flow and provide wear resistance



# Success from the Ground Up

Positive dust and fines containment





# Dust Containment

# Success from the Ground Up

Dust control at exit of loading area

















# Success from the Ground Up

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If you have questions or want  
additional information please  
stop by our Booth #1934

Thank You