

DSI *ExConTec*

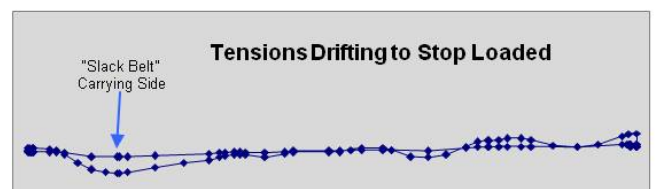
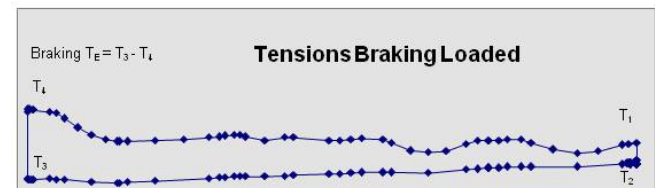
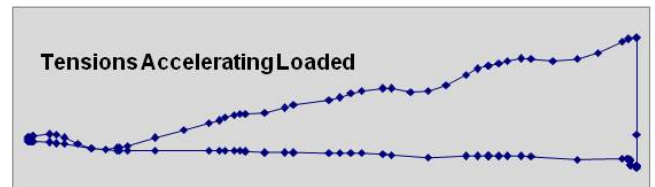
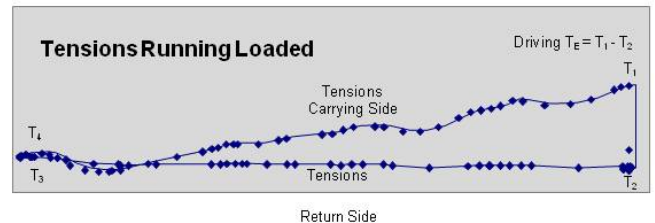
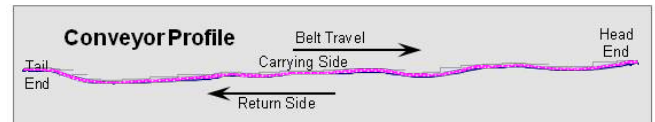
EXPANDED CONVEYOR TECHNOLOGY

More than an analysis tool, the DSI Expanded Conveyor Technology reflects a philosophy. Our comprehensive approach takes the conventional conveyor technology beyond the currently perceived limits.

Utilizing derived load equivalents we are first to address and predict the extra flexural and shear resistances along vertical and horizontal curves. Our analysis models and software incorporate added features including the “Engineers Discretionary Factors”, an allowance for incorporating the result of field testing or simply our client’s philosophy.

Material	coal	Belt Width	36 inches
- Density	55 pcf	Belt Speed	600 fpm
Conveying Rate	850 stph	Tension Rating	1000 PIW
CEMA Sct.-20°Sur.	0.980 Sq. ft.	Amb. Temperature	0 Deg. F
%CEMA Load	87.5%	Temperature Factor	1.35

	Tensions Summary				
	Running (lbs)	Empty (lbs)	Accel (lbs)	Brake (lbs)	Drift (lbs)
T1	31096.9	20014.1	41951.0	4369.4	11466.4
T2	8208.3	7877.4	6482.0	22362.9	8512.2
Tmax	31096.9	20014.1	41951.0	23009.4	11466.4
PIW	863.8	555.9	1165.3	639.2	318.5
Accel/Decel Time (secs)	N/A	N/A	19.5	6.9	10.6
Shaft HP	421.6	224.9	682.5	-327.3	0.0
7.0% Losses	29.5	15.7	47.8	22.9	0.0
Motor(+)/Brake(-) HP	451.1	240.7	730.3	-304.4	0.0
Selected Motor HP	525	525	525	525	525
NODE 1, T-U Tens. (lbs)	8500	8500	8500	8500	8500
Conveyor Stretch (ft)	30.3	27.5	39.4	23.2	14.9
Take-Up Stretch (ft)	15.1	13.8	19.7	11.6	7.4





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