



Technical

CALCULATING HORSEPOWER - CHAIN DRAG

CHAIN DRAG

- + Product (Total Live Load)**
- + Chain Weight (see below)**
- + Drive Weight (100#)**
- = Subtotal**
- x .20**
- x 1.25 (25% Contingency Factor)**
- = Effective Chain Pull**
- x Speed of Conveyor**
- ÷ 33,000 Horsepower Factor**
- ÷ .95 Chain Reductions**
- ÷ .85 GRE / Reducer Losses**
- = Horsepower**

CHAIN WEIGHTS (lbs.) PER FOOT OF CHAIN (NOT CONV.)			
CHAIN SIZE	CONVEYOR SPEED	CHAIN WT./FT.	LOAD RATING
No. 40	25 FPM	.41	443
No. 40	50 FPM	.41	432
No. 50	25 FPM	.68	690
No. 50	50 FPM	.68	675
No. 60	25 FPM	.96	995
No. 60	50 FPM	.96	970
No. 80	25 FPM	1.7	1770
No. 80	50 FPM	1.7	1730
No. 100	25 FPM	2.7	2760
No. 100	50 FPM	2.7	2690

