



## Technical

### CALCULATING HORSEPOWER - SLAT CONVEYORS

#### SLAT CONVEYORS

**+ Product (Total Live Load)**  
**+ Chain and Slat Weight**  
**+ Drive Weight (100#)**  
**= Subtotal**  
**x .20 Friction Factor**  
**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**

| 7 GA. HRS SLAT & CHAIN WEIGHTS (lbs.) PER FOOT OF CONVEYOR |     |     |     |     |     |
|--|-----|-----|-----|-----|-----|
| SLAT WIDTH   | 25" | 31" | 37" | 43" | 49" |
| WT.  | 71  | 82  | 96  | 104 | 115 |