

Design and Selection

Applications Beyond Scope Of Catalog Selection Procedures

Data Required for Selection

The selection procedures in this catalog were intended to cover the majority of conveyor, elevator and drive applications. However, some installations involve conditions or applications which require special consideration in the selection process. The items listed below will aid in obtaining selection assistance. The items on this page are basic considerations which are necessary, if known, to insure selection of components best suited to the application.

Drives

DIIVES
Horsepower: Maximum; Percent of operating time at or above 75% Maximum Horsepower
2. RPM Driver
Ratio Permissible Variation +
3. Center Distance
☐ Fixed ☐ Adjustable Permissible Variation <u>+</u>
 Layout: Please provide sketch. Show Centers, Driver, Direction of Rotation and Relation to Horizontal.
Conveyor and Elevator Components
1. Type: ☐ Elevator ☐ Bulk Material Conveyor ☐ Unit Handling Conveyor
2. Chain Speed:Feet/Minute
3. Material Handled:
5. Material Hariuleu.
(a) If Bulk: Characteristics: Dry Wet Sticky Lump Size: Inches (Maximum) Quantity: Tons/Hour;
Cubic Feet/Hour
Density:Lbs./Cubic Foot
If material density is not known, refer to material properties table on pages 124-125.
(b) If Units:
Quantity:Units/Hour
Size:xx
Spacing: □ Random □ Regular
Weight:Lbs. (each)Lbs. (per foot of conveyor) Total weight on conveyor at one time:Lbs. (Max.) 4. Loading (in Cubic Feet/Hour or Units/Hour):
NormalPeakPercent of
Time at Peak
5. Layout: Sketch showing centers, inclines, distance between

General Information

 Answer Required by (date): Product: □ Chain □ Sprockets □ Other Application: □ New Installation □ Replacement Component Equipment Operating TimeHours/Day; Days/Week
General
1. Desired Equipment Life:Hours/Years 2. Environment (a) Temperature: Surrounding°F Component°F If Cycling, Time at Temperature(b) Abrasion: Material Particle SizeAbrasiveness(Refer to tables on pages 124-125). (c) Corrosion: Material
Conveyor and Elevator 1. Sprockets (or Traction Wheels) – No. of Teeth (or Outside Diameter): Head Tail 2. Shaft Size: Head Tail 3. Chain Attachments: Type Spacing 4. Weight of Flights or Slats
Drives 1. Shaft Diameters: DriverDriven 2. Application Description:
3. Peak Load Factor





chains, special attachments.