For side load applications use one of the formulas below for determining the actual applied load:

1. \[ L = \frac{120,000 \times HP}{N \times D} \times F \times SF \]

2. \[ L = \frac{1,945,000 \times Kw}{N \times D} \times F \times SF \]

- \( L \) = Actual Applied Load (lbs. for Formula 1 and Kgs for Formula 2)
- \( N \) = Shaft Speed (RPM)
- \( D \) = Pitch Diameter (in. for Formula 1 and mm for Formula 2) of Sheave
- \( F \) = Load Factor
  - 1.0 for Chain Drive or Gear Drive
  - 1.5 for Timing Belts
  - 2.5 for All V-Belts
  - 3.5 for All Flat Belts

- \( SF \) = Service Factor
  - 2.1 for Reciprocating Compressors and other severe shock drives
  - 1.9 for Large Inertia Drives such as Crushers, Chippers, and Planers

EL DIAMETRO “PITCH” ES EL DIAMETRO DE LA POLEA DONDE TERMINA EL CONTACTO DE LA BANDA (en mm para formula 2).