

GENERAL FORMULA'S

Engineering page one

Good rules of thumb...

1. Add grease until fresh grease can be seen purging past the seal.
2. 1 Shot of Grease is ~0.8 Grams
3. 3 Shots/Inch shaft size

NOTE: WHEN LUBRICATING A BEARING, ROTATING THE BEARING DURING LUBRICATION IS RECOMMENDED!

CONVERSION FORMULA'S

"TORQUE"

AT 1,800 RPM A MOTOR DEVELOPES 3 FT/LB PER HP

AT 1,200 RPM A MOTOR DEVELOPES 4.5 FT/LB PER HP

$$T(\text{LB/IN}) = \frac{63,025 \times \text{HP}}{\text{RPM}}$$

$$T(\text{LB/FT}) = \frac{5,252 \times \text{HP}}{\text{RPM}}$$

"CUBIC FEET & BUSHEL CONVERSION"

BPH = BUSHELS PER HOUR

CFH = CUBIC FEET PER HOUR

$$BPH \times 1.2445 = CFH$$

$$CFH \times .806 = BPH$$

V-BELT LENGTH"

$$DATUM LENGTH = \text{SMALL SHEAVE (PD)} \times \text{LARGE SHEAVE(PD)} \times 1.57 + (2) \text{ CENTER DISTANCE}$$