PFEIFER INDUSTRIES, LLC.

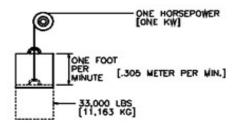
2180 Corporate Lane, Suite 104 ~ Naperville, IL 60563 USA Phone (630) 596-9000 Fax (630) 596-9002

E-mail: info@pfeiferindustries.com Web site: www.pfeiferindustries.com

HORSEPOWER / KILOWATT

Definition: Quantity one (1) HP is the rate of work required to raise 33,000 pounds one (1) foot in one (1) minute

<u>Definition:</u> Quantity one (1) KW is the rate of work required to raise 11,163 kilograms 0.305 meter in one (1) minute



$$HP = \frac{Force \times FPM}{33,000}$$

$$KW = \frac{Nm \times RPM}{9,550}$$

NOTE:

It is important to realize that when you increase or decrease speed (RPM), horsepower also increases or decreases proportionately. **HOWEVER**, torque always remains constant

CONVERSIONS

 $HP = KW \times 1.341$

 $KW = HP \times 0.7457$

 $ft-lb = Nm \times 0.737562$

in-lb = $Nm \times 8.85$

 $Nm = ft-lb \times 1.356$

 $Nm = in-lb \times 0.113$

 $ft-lb/sec = HP \times 550$