# **ENGINEERING BASICS**

he following information helps you solve technical problems frequently encountered in designing and selecting motion control components and systems.

#### Torque

$$T = FR$$
 (1)

Wherest

T - Torque, lb-ft.

F = Force, Ib

R = Radius, or distance that the force is from the pivotal point, ft

#### Linear to rotary motion

$$N = \frac{V}{0.262D}$$
 (2)

Where

N = Speed of shaft rotation, rpm

V = Velocity of material, fipm

 D = Diameter of pulley or sprocket, in.

#### Horsepower

#### Rotating objects:

$$P = \frac{TN}{5,250}$$
 (3)

Where:

P - Power, ho

T - Torque, lb-ft.

N = Shaft speed, rpm.

#### Objects in linear motion:

$$P = \frac{FV}{23.000}$$
(4)

Wherest

P = Power, hip

F = Force, lb.

V = Velocity, fpm

#### Pointpec

$$P = \frac{QHS}{3.960m}$$
(5)

Where:

P = Power, hp

Q = Flow rate, gpm

H = Head, ft

S = Specific gravity of fluid

μ = Pump efficiency

#### Fans and blowers:

$$P = \frac{Qp}{229\mu}$$
(6)

Where:

P = Power, hp

Q -Flow rate, cfm

p - Pressure, psi

ps - Efficiency

#### (2) Accelerating torque and force

#### Of rotating objects

$$T = \frac{\left(HK^2\right)\Delta N}{308t}$$
(7)

Witnesse:

T - Torque required, lb-ft.

WK<sup>q</sup> = Total inertia of load to be accelerated, lb-ft<sup>2</sup>. (See Formulas 9, 10, 11, and 12.)

ΔN = Change in speed, rpm t = Time to accelerate load, sec

#### Objects in linear motion:

$$P = \frac{W\Delta V}{1.933t}$$
(8)

Wheres

F - Force required, Ib-

W - Weight, lib

 $\Delta V$  = Change in velocity, fpm

t - Time to accelerate load, sec

#### Moment of inertia

#### Solid cylinder rotating about its own axis:

$$WK^a = (1/a)WK^a$$
 (9)

Witheren:

WK" — Moment of inertia, lb-ft<sup>3</sup>

W = Weight of object, lb

R = Radius of cylinder, ft

Hollow cylinder rotating about its own axis:

$$WX^{2} = \frac{W(R_{1}^{2} + R_{2}^{2})}{2}$$
(10)

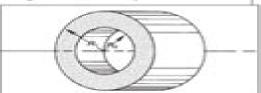
Whenever

WK" - Moment of inertia, lb-ft"

W = Weight of object, lb

 $R_1 = Outside radius, ft.$ 

 $R_s = Inside radius, ft$ 



Material in linear motion with a continuous fixed relation to a rotational speed, such as a conveyor system:

$$WK_L^2 = W\left(\frac{V}{2\pi N}\right)^2$$
(11)

Where

WKa " - Linear inertia, lb-ft"

W - Weight of material, Ib

V = Linear velocity, fpm

N = Rotational speed of shaft, rpm

Reflected inertia of a load through a speed reduction means — gear, chain, or belt system:

$$WK_E^2 = \frac{WK_L^2}{R^2}$$
 (12)

Wherec

 $WK_{\alpha}^{\beta}$  = Reflected inertia, lb-ft<sup>\delta</sup>  $WK_{\alpha}^{\beta}$  = Load inertia, lb-ft<sup>\delta</sup>

R. - Reduction ratio

#### **Duty cycle calculation**

The RMS (root mean square) value of a load is one of the quantities often used to size PT components.

$$L_{ESCS} = \sqrt{\frac{L_{2}^{2}t_{1} + L_{2}^{2}t_{2} + ... + L_{n}^{2}t_{n}}{t_{1} + t_{2} + ... + t_{n}}}$$
(13)

## **Basic Engineering Principles**

J. A. Merkel

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