

Application Engineering

Conversion Factors

To Obtain Length:	Multiply Number of:	By:
cm	inches	2.540
cm	feet	30.48
inches	cm	.3937
inches	feet	12.0
feet	cm	3.281×10^{-2}
feet	inches	8.333×10^{-2}

Torque

dyne cm	gm cm	980.7
dyne cm	oz in	7.062×10^4
dyne cm	lb ft	1.356×10^7
gm cm	dyne cm	1.020×10^{-3}
gm cm	oz in	72.01
gm cm	lb ft	1.383×10^4
oz in	dyne cm	1.416×10^{-5}
oz in	gm cm	1.389×10^{-2}
oz in	lb ft	192.0
lb ft	dyne cm	7.376×10^{-8}
lb ft	gm cm	7.233×10^{-5}
lb ft	oz in	5.208×10^{-3}
lb ft	kg m	7.233
lb ft	Nm	.738

Rotation

degrees/sec	RPM	6.0
degrees/sec	rad/sec	57.30
RPM	degrees/sec	.1667
RPM	rad/sec	9.549
rad/sec	degrees/sec	1.745×10^{-2}
rad/sec	RPM	.1047

Moment of Inertia

gm cm ²	oz in ²	182.9
gm cm ²	lb ft ²	4.214×10^5
gm cm ²	slug ft ²	1.356×10^7
oz in ²	gm cm ²	5.467×10^{-3}
oz in ²	lb ft ²	2.304×10^3
oz in ²	slug ft ²	7.412×10^4
lb in ²	lb ft ²	144.0
lb in sec ²	lb ft ²	.37272
lb ft ²	gm cm ²	2.373×10^{-6}
lb ft ²	oz in ²	4.340×10^{-4}
lb ft ²	slug ft ²	32.17
lb ft ²	Kgm ²	23.73
slug ft ²	gm cm ²	7.376×10^{-8}
slug ft ²	oz in ²	1.349×10^{-5}
slug ft ²	lb ft ²	3.108×10^{-2}

Power

HP	(oz in) (RPM)	9.917×10^{-7}
HP	(#ft) (RPM)	1.904×10^{-4}
HP	watts	1.341×10^{-3}
Watts	(oz in) (RPM)	7.395×10^{-4}
Watts	(#ft) (RPM)	.1420
Watts	HP	745.7