

# Helpful conversion factors



	Unit	Conversion	Unit	Unit	Conversion	Unit
Length	in (inch)	x 25.4	= mm	mm (millimeter)	x 0.03937	= in
	ft (foot)	x 0.3048	= m	m (meter)	x 3.281	= ft
	yd (yard)	x 0.9144	= m	m	x 1.0936	= yd
	mi (mile)	x 1.6094	= km	km (kilometer)	x 0.6214	= mi
	nautical mile	x 1.1515	= mi (mile)	mi (mile)	x 0.8684	= nautical mile
	nautical mile	x 1.8532	= km	km	x 0.5396	= nautical mile
Speed	mph (mile per hour)	x 1.6094	= km/h	km/h (kilometer per hour)	x 0.6214	= mph
	mph (mile per hour)	x 0.4470	= m/s	m/s (meter per second)	x 2.2371	= mph
	mph (mile per hour)	x 0.8684	= kt	kt (knot)	x 1.1515	= mph
	kt (knot)	x 1.8532	= km/h	km/h	x 0.5396	= kt
	kt (knot)	x 0.5144	= m/s	m/s	x 1.9440	= kt
	ft/s (foot per second)	x 1.0973	= km/h	km/h	x 0.9113	= ft/s
	ft/s (foot per second)	x 0.3048	= m/s	m/s	x 3.2808	= ft/s
Acceleration	ft/s <sup>2</sup> (foot per second)	x 0.3048	= m/s <sup>2</sup>	m/s <sup>2</sup>	x 3.2808	= ft/s <sup>2</sup>
Mass	oz (ounce)	x 28.349	= g	g (gram)	x 0.0353	= oz
	lb (pound)	x 0.4536	= kg	kg (kilogram)	x 2.2046	= lb
	lg ton (long ton = 2240 lb)	x 1.0160	= T	T (metric tonne)	x 0.9842	= lg ton
	sh ton (short ton = 2000 lb)	x 0.9072	= T	T	x 1.1023	= sh ton
Load	lb	x 4.4482	= N	N (Newton)	x 0.2248	= lb
Torque	ln.oz (inch.ounce)	x 0.007064	= N.m	N.m (Newton.mètre)	x 0.001416	= in.oz
	ln.lb (inch.pound)	x 0.1130	= N.m	N.m	x 8.850	= in.lb
Inertia						
	Slug.in <sup>2</sup> (slug.square inch)	x 0.0094	= kg.m <sup>2</sup>	Kg.m <sup>2</sup> (kilogram.square meter)	x 106.20	= Slug.in <sup>2</sup>
Pressure	psi (pound per square inch)	x 0.06897	= bar	bar (=100 kPa : kiloPascal)	x 14.4992	= psi
	psi (pound per square inch)	x 0.0703	= kg / cm <sup>2</sup>	kg / cm <sup>2</sup>	x 14.2247	= psi
	bar	x 1.0193	= kg / cm <sup>2</sup>	kg / cm <sup>2</sup>	x 0.981	= bars
Temperature	(°F (degree Fahrenheit) -32)	x 0.5556	= °C	°C (degree centigrade)	(x 1.8) + 32	= °F