



### Metric to U.S.

Metric measurement	Factor	To get U.S. measurement
<b>mm</b> (millimeters)	x 0.0394	in (inches)
<b>cm</b> (centimeter)	x 0.394	in (inches)
<b>m</b> (meters)	x 3.281	ft (feet)
<b>km</b> (kilometers)	x 0.622	mi (miles)
<b>N</b> (newtons)	x 0.225	lbf (pound force)
<b>N-m</b> (newton meter)	x 0.738	lbf-ft (foot pounds)
<b>N/cm</b> (newtons/centimeter)	x 0.571	lbf/in (pounds force/inch)
<b>kg</b> (kilograms)	x 2.205	lb (pounds)
<b>kg/km</b> (kilograms/kilometer)	x 0.671	lb/1000 ft (pounds/thousand feet)
<b>°C</b> (degrees Celsius)	x 1.8 then +32	°F (degrees Fahrenheit)

### U.S. to Metric

U.S. measurement	Factor	To get metric
<b>in</b> (inches)	x 25.4	mm (millimeters)
<b>in</b> (inches)	x 2.54	cm (centimeter)
<b>ft</b> (feet)	x 0.305	m (meters)
<b>mi</b> (miles)	x 1.608	km (kilometers)
<b>lbf</b> (pound force)	x 4.444	N (newtons)
<b>lbf-ft</b> (foot pounds)	x 1.355	N-m (newton meter)
<b>lbf/in</b> (pounds force/inch)	x 1.751	N/cm (newtons/centimeter)
<b>lb</b> (pounds)	x 0.454	kg (kilograms)
<b>lb/1000 ft</b> (pounds/thousand feet)	x 1.490	kg/km (kilograms/kilometer)
<b>°F</b> (degrees Fahrenheit)	-32, then x 0.555	°C (degrees Celsius)

### Decimal prefixes

- G** or **giga** =  $10^9$  (1,000,000,000 or 1 billion)
- M** or **mega** =  $10^6$  (1,000,000 or 1 million)
- K** or **kilo** =  $10^3$  (1,000 or 1 thousand)
- m** or **milli** =  $10^{-3}$  (1/1,000 or 1 thousandth)
- μ** or **micro** =  $10^{-6}$  (1/1,000,000 or 1 millionth)
- n** or **nano** =  $10^{-9}$  (1/1,000,000,000 or 1 billionth)