

UnitsCalc20050823-.XLT

An Excel 2000 Template from Techno Consultants Ltd for Conversion of Measurements in Various Units

Introduction

UnitsCalc20050823-.XLT is a spreadsheet template for the conversion of measurements in various units used by engineers and architects in the building trade.

The systems of units covered are: British Imperial System, French Metric System, U.S. Customary System, the International System of Units and some other units used in practice e.g. navigation, astronomy, etc.

Loading the Template on to your computer

UnitsCalc is supplied as an Excel 2000 Template, having .XLT as its filename extension.

To load **UnitsCalc** on to your computer, copy this file into Microsoft Office folder for its Templates. Generally the path to this folder

C:\Windows\Application Data\Microsoft\Templates

If you are using Excel 97, the path to this folder is:

C:\Program Files\Microsoft Office\Templates

However, the template has been developed in Excel 2000 and may not function as normal in Excel 97.

To load and use the Template in Excel, choose:

File, New and then select the file UnitsCalc20050823-

If you receive an Excel Warning about running Macros and are prompted for whether to load them, answer YES to Load and Enable Macros. **UnitsCalc** incorporates VB Macros and to allow your computer to use them is vital for its operation.

Features

- The file size is under 500 KB. At 3 KB/second, your download time would be around 4 minutes.
- A mouse click on any unit instantly converts the measurement value to rest of the units in conversion tables.
- Conversion values can be copied to the clipboard for use elsewhere.
- Decimal place control for normal size numbers.
- Full Documentation is included within the template i.e. Features, Consistent Set of Units, User Notes, Terms and Conditions of Use and Revision History of the Template.

Conversion Tables & Unit Quantities

Acceleration:

Free fall (g), Kilometres/hour/minute, Kilometres/hour/second, Metre/sec/sec, Centimetres/sec/Sec, Miles/hour/minute, Miles/hour/second, Yards/sec/sec, Feet/sec/sec, Inches/sec/sec, Int. Nautical Mile/hour/second, UK Nautical Miles/hour/second

Angle (Plane):

Seconds, Minutes, Degrees, Grads, Octants, Sextants, Radians, Quadrants, Circles, Revolutions, Turns

Angle (Solid):

Steradian, Spherical Right Angle, Hemisphere, Sphere

Area:

Sq Millimetre, Sq Centimetre, Sq Decimetre, Sq Metre, Are, Hectare, Sq Kilometre, Sq Inch, Sq Foot, Sq Yard, Sq Furlong, Sq Mile, Acre, Int. sq Nautical Mile, UK sq Nautical Mile

Density (Weight per Unit Volume):

Dynes/cu centimetre, Newtons/cu millimetre, Newtons/cu centimetre, Newtons/cu metre, Kilonewtons/cu millimetre, Kilonewtons/cu centimetre, Kilonewtons/cu metre, Kilograms/cu millimetre, Kilograms/cu centimetre, Kilograms/cu metre, Tonnes/cu millimetre, Tonnes/cu centimetre, Tonnes/cu metre, Pound/cu inch, Pounds/cu ft, Pounds/cu yard, Kips/cu inch, Kips/cu ft, Kips/cu yard, Ton/cu inch, Tons/cu foot, Tons/cu yard

Distance; Length:

Angstrom, Micron, Millimetre, Centimetre, Decimetre, metre, Hectometre, Kilometre, Thou, Mil, Inch, Foot, Yard, Furlong, Mile, Fathom, Int. Nautical Mile, UK Nautical Mile, Light-year, Parsec

Energy; Work; Heat:

Calories, Kilocalories, Ergs (centimetre dynes), Joules, Kilojoules, Megajoules, Metre Kilogram, Foot Pound, Horsepower-hours, Kilowatt hour, Btu (British Thermal Unit), Chu (Centigrade Heat Unit), Therm

Flow:

Cu Inch/hour, Cu Inch/minute, Cu Inch/second, Cu Feet/hour, Cu Feet/minute, Cu Feet/second (cusec), Cu Yards/hour, Cu Yards/minute, Cu Yards/second, UK Ounces/hour, UK Ounces/minute, UK Ounces/second, UK Gallons/day, UK Gallons/hour, UK Gallons/minute, UK Gallons/second, US barrels/day, US Ounces/hour, US Ounces/minute, US Ounces/second, US Gallons/day, US Gallons/hour, US Gallons/minute, US Gallons/second, Cu Centimetres/hour, Cu Centimetres/minute, Cu Centimetres/second, Cu Millilitres/hour, Cu Millilitres/minute, Cu Millilitres/second, Litres/day, Litres/hour, Litres/minute, Litres/second, Cu Metre/day, Cu Metre/hour, Metre/minute, Cu Metre/second (cumec)

Force ;Weight:

Grains, Drams, Ounces, Pounds, Stones, Quarters, Hundredweights, Tons (long), Kips, Poundal, Hundredweights (short), Tons (short), Slugs, Millinewtons, Newtons, Kilonewtons, Carats, Micrograms, Milligrams, Grams, Kilograms, Tonnes, Dyne, Pennyweights, Ounces (troy), Pounds (troy)

Force per Unit Length:

Newtons/millimetre, Newtons/centimetre, Newtons/decimetre, Newtons/metre, Kilonewtons/millimetre, Kilonewtons/centimetre, Kilonewtons/decimetre, Kilonewtons/metre, Kilogram/millimetre, Kilogram/centimetre, Kilogram/decimetre, Kilograms/metre, Tonnes/millimetre, Tonnes/centimetre, Tonnes/decimetre, Tonnes/metre, Pounds/inch, Pounds/foot, Pounds/yard, Kips/inch, Kips/foot, Kips/yard, Tons/inch, Tons/foot, Tons/yard

Illumination:

Foot-candles, Lux, Meter-candles

Moment; Torque:

Newtons millimetre, Newtons centimetre, Newtons metre (Joule), Kilonewtons millimetre, Kilonewtons centimetre, Kilonewtons metre, Kilogram millimetre, Kilogram centimetre, Kilograms metre, Tonnes millimetre, Tonnes centimetre,

Tonnes metre, Pounds inch, Pounds foot, Pounds yard, Kips inch, Kips foot, Kips yard, Tons inch, Tons foot, Tons yard

Moment of Inertia:

Millimetre⁴, Centimetre⁴, Decimetre⁴, Metre⁴, Hectometre⁴, Kilometre⁴, Inch⁴, Foot⁴, Yard⁴, Furlong⁴, Mile⁴

Power:

Calories/second, Kilocalories/hour, Pound-feet/minute, Pound-feet/second, BTU/hour, BTU/minute, BTU/seconds, Horsepower, Horsepower (metric), kgf metre/second, Watts (Joules/second), Kilowatts, Megawatts

Pressure; Stress; Force per Unit Area:

Dynes/sq centimetre, Newtons/sq metre [Pa], Newtons/sq centimetre, Newtons/sq millimetre [Mpa], Kilonewtons/sq millimetre, Kilonewtons/sq centimetre, Kilonewtons/sq metre, Kilograms/sq millimetre, Kilograms/sq centimetre, Kilograms/sq metre, Tonnes/sq millimetre, Tonnes/sq centimetre, Tonnes/sq metre, Pound/sq inch [PSI], Pounds/sq ft, Pounds/sq yard, Poundal/sq ft, Kips/sq inch, Kips/sq ft, Kips/sq yard, Tons/sq inch, Tons/sq ft, Tons/sq yard, Atmosphere, Microbar, Millibar, Bar, Millimetres of Water, Centimetres of Water, Metres of Water, Inches of Water, Feet of Water, Yards of Water, Millimetres of Mercury [Torrs], Centimetres of Mercury, Inches of Mercury

Section Modulus:

Millimetre³, Centimetre³, Decimetre³, Metre³, Hectometre³, Kilometre³, Inch³, Foot³, Yard³, Furlong³, Mile³

Speed; Velocity (Linear):

Centimetres/hour, Centimetres/minute, Centimetres/second, Metres/hour, Metres/minute, Metres/second, Kilometres/hour, Kilometres/minute, Kilometres/second, Int. Knots, UK Knots, C, Mach, Inches/hour, Inches/minute, Inches/second, Feet/hour, Feet/minute, Feet/second, Yards/hour, Yards/minute, Yards/second, Miles/hour (mph), Miles/minute, Miles/second

Velocity (Angular):

Degrees/second, Radians/second, Revolutions (cycles)/minute [rpm], Revolutions (cycles)/second [Hz, cps]

Temperature:

Fahrenheit, Celsius, Kelvin

Time:

Nanoseconds, Milliseconds, Seconds, Minutes, Hours, Days, Weeks, Fortnights, Months, Years, Decades, Lunar Months, Lunar Years, Centuries, Millenniums

Viscosity (Dynamic):

Micro N s / m², kg / m h, mN s / m² [g / m s] [Centipoise], Dyn s / cm² [1 g / cm s] [Poise], N s / m² [kg / m s], kgf s / m², lb / ft h, pdl s / ft² [lb / ft s], lbf s / ft² [slug / ft s], lbf h / ft²

Viscosity (Kinematic):

mm² / h, mm² / s [Centistoke], cm² / h, cm² / s [Stoke], m² / h, m² / s, in² / h, in² / s, ft² / h, ft² / s

Volume:

Cu Millimetre, Cu Centimetre, Cu Decimetre, Cu Metre, Cu Hectometre, Cu Kilometre, Stere, Millilitre (CC), Centilitre, Decilitre, Litre, Hectolitre, Kilolitre, Cu Inch, Cu Foot, Cu Yard, Cu Furlong, Cu Mile, UK Fluid Ounce, UK Gill, UK Pint, UK Quart, UK Gallon, UK Peck, UK Bushel, Teaspoon, Tablespoon, US Fluid Ounce, Cup, US Pint, US Quart, US Gallon, US Barrel, US Pint Dry, US Quart Dry, US Peck Dry, US Bushel Dry

UnitsCalc20050823-.XLT is made available as shareware. For further information, including registration details and disclaimers, refer to “**Terms**” within the spreadsheet.