

MassPlus v3.0 Installation

Download mpwin3x.zip

Unzip to a local folder

Double-click on mpwin3x.exe to install

MassPlus v2.1 Installation Instructions:

If you are using AutoCAD LT you will need to view **mp.acadlt.doc** instead of this document.

AutoCAD LT does not have AutoLisp and the installation instructions are different.

Step I:

- ✍ Unzip MPWIN2T.ZIP into a temporary folder on your harddisk
- ✍ If you are upgrading to a newer version of MassPlus, backup all the massplus files that exist in your AutoCAD folder, in case you want to use the older version
- ✍ If you are using AutoCAD, copy all the files from the temporary folder to the AutoCAD folder where acad.exe is located (typically, c:\Program Files\AutoCAD 2002\);
- ✍ If you are using IntelliCAD, copy the files to the folder where icad.exe is located (typically, c:\Program Files\Cadopia\IntelliCAD\);

Step II:

- ✍ Start AutoCAD or IntelliCAD
- ✍ Open the drawing you want to calculate moments of inertia for
- ✍ At AutoCAD or IntelliCAD command level, type script
- ✍ Select and Open the script file MPWIN.SCR; Note: If the AutoCAD script dialog box is not displayed, set the AutoCAD variable filedia to 1 and then try again.
- ✍ At Command level enter: MP
- ✍ Select objects (select all the entities to be included in the calculation using the windows option (w) or by selecting individual entities; NOTE: when selecting objects, select only lines, arcs, and circles; lightweight polylines will be automatically exploded;

- ✍ Press enter when you have finished selecting all the entities belonging to the area to be analyzed;
- ✍ This launches Massplus for Windows
- ✍ The "Calculate" dialog box will be automatically displayed
- ✍ Select the number of component areas to use for calculations; the default value is 10000; if you need greater accuracy, you can use a value up to 50000.
- ✍ Enter the number of significant decimal positions desired
- ✍ Select whether the Drawing Units are in inches or millimeters
- ✍ Click on the "Calculate" button;
- ✍ MassPlus will display the number of entities processed; Click OK;
- ✍ The results will be displayed on the screen
- ✍ Exit the Calculate dialog box to go to the Main Menu;
- ✍ At the Main Menu you can:
 - Print, re-Calculate, enter your license serial #, find Help, etc.
- ✍ Select File - Print to print the results
- ✍ Exit MassPlus when you are finished with the calculations;
 - NOTE: You can only exit MassPlus from the Main Menu;
- ✍ To import the results into AutoCAD or IntelliCAD:
 - at the Command prompt, type ANSWER
 - Enter 1 to draw and display the principal axes;
 - 2 to include the results with the drawing;
 - 3 for both;
- ✍ Save the drawing if you wish
- ✍ Repeat above for the next drawing
- ✍ Tip: MassPlus uses the current AutoCAD style when importing results into the drawing; if you wish the numbers to align vertically, set your current font to a

monospaced font like Cad Systems Unlimited's fsimplex.shx font before issuing the Answer command!

Update History:

Version 2.1

- ? Support for AutoCAD 2004 and higher

Version 1.1

- ✍ Includes support for profiles generated from SolidWorks and exported to AutoCAD as lines, arcs, and circles.
- ✍ Other minor improvements