

MassPlus v2.3 Installation Instructions:

If you are using AutoCAD LT you will need to view [mp.acadlt.pdf](#) instead of this document.

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

Installation

1. Unzip MPWIN2T.ZIP into a temporary folder on your harddisk
2. 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
3. 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\);
4. If you are using IntelliCAD, copy the files to the folder where icad.exe is located (typically, c:\Program Files\Cadopia\IntelliCAD\);

Quick Start

1. Start AutoCAD or IntelliCAD
2. Open the drawing you want to calculate moments of inertia for
3. At AutoCAD or IntelliCAD command level, type script
4. 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.
5. At Command level enter: MP
6. 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;
7. Press enter when you have finished selecting all the entities belonging to the area to be analyzed;
8. This launches Massplus for Windows
9. The "Calculate" dialog box will be automatically displayed

10. 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.
11. Enter the number of significant decimal positions desired
12. Select whether the Drawing Units are in inches or millimeters
13. Click on the "Calculate" button;
14. MassPlus will display the number of entities processed; Click OK;
15. The results will be displayed on the screen
16. Exit the Calculate dialog box to go to the Main Menu;
17. At the Main Menu you can:
18. Print, re-Calculate, enter your license serial #, find Help, etc.
19. Select File - Print to print the results
20. Exit MassPlus when you are finished with the calculations;
21. NOTE: You can only exit MassPlus from the Main Menu;
22. To import the results into AutoCAD or IntelliCAD:
23. at the Command prompt, type ANSWER
24. Enter 1 to draw and display the principal axes;
 - i. 2 to include the results with the drawing;
 - ii. 3 for both;
25. Save the drawing if you wish
26. Repeat above for the next drawing
27. 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 2.3

? Installation update

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