

MassPlus Calculations	AutoCAD Mass Properties Equivalent
Area *	Area
Section Width	Bounding Box X
Section Height	Bounding Box Y
X – Centroid relative to drawing origin	Centroid X
Y – Centroid relative to drawing origin	Centroid Y
$I_{x'x'}$ Moment of Inertia about drawing X-axis	Moments of Inertia X
$I_{y'y'}$ Moment of Inertia about drawing Y-axis	Moments of Inertia Y
$P_{x'y'}$ Product of Inertia about drawing axes thru origin	Product of Inertia: XY
$r_{x'x'}$ Radius of gyration about X-axis of drawing origin	Radii of gyration X
$r_{y'y'}$ Radius of gyration about Y-axis of drawing origin	Radii of gyration Y
I_{uc} Moment of Inertia about rotated U-axis thru centroid	Principal moments I
I_{vc} Moment of Inertia about rotated V-axis thru centroid	Principal moments J

Note: MassPlus Area is the Net Area after subtracting holes.

The free version of MassPlus calculates some section properties. You can compare these with the values calculated by AutoCAD's MASSPROP command.

The licensed version of MassPlus calculates ALL the properties left blank in the output window of the free version.