



Mass properties of Part1

Configuration: Default

Coordinate system: -- default --

Density = 0.04 pounds per cubic inch

Mass = 903.37 pounds

Volume = 25005.33 cubic inches

Surface area = 6571.25 square inches

Center of mass: ( inches )

X = -21.40

Y = 9.60

Z = 26.80

Principal axes of inertia and principal moments of inertia: ( pounds \* square inches )

Taken at the center of mass.

$I_x = (0.97, 0.22, 0.07)$        $P_x = 118716.88$

$I_y = (0.15, -0.37, -0.92)$        $P_y = 200255.30$

$I_z = (-0.18, 0.90, -0.39)$        $P_z = 254957.38$

Moments of inertia: ( pounds \* square inches )

Taken at the center of mass and aligned with the output coordinate system.

$L_{xx} = 124907.52$        $L_{xy} = 26591.34$        $L_{xz} = 1367.25$

$L_{yx} = 26591.34$        $L_{yy} = 240741.06$        $L_{yz} = 20519.48$

$L_{zx} = 1367.25$        $L_{zy} = 20519.48$        $L_{zz} = 208280.97$

Moments of inertia: ( pounds \* square inches )

Taken at the output coordinate system.

$I_{xx} = 856964.62$        $I_{xy} = -159022.12$        $I_{xz} = -516757.89$

$I_{yx} = -159022.12$        $I_{yy} = 1303308.17$        $I_{yz} = 252943.59$

$I_{zx} = -516757.89$        $I_{zy} = 252943.59$        $I_{zz} = 705318.47$