



lab 4 part 2

Options...

Override Mass Properties... Recalculate

☒ Include hidden bodies/components  
☐ Create Center of Mass feature  
☐ Show weld bead mass

Report coordinate values relative to: -- default --

Mass properties of lab 4 part 2  
Configuration: Default  
Coordinate system: -- default --

Density = 0.04 pounds per cubic inch

Mass = 1.37 pounds

Volume = 37.87 cubic inches

Surface area = 306.41 square inches

Center of mass: ( inches )  
X = 0.00  
Y = 4.28  
Z = -3.51

Principal axes of inertia and principal moments of inertia: ( pounds \* square inches )  
Taken at the center of mass.  
I<sub>x</sub> = ( 0.00, 0.83, -0.56 )    P<sub>x</sub> = 2.90  
I<sub>y</sub> = ( 0.00, 0.56, 0.83 )    P<sub>y</sub> = 45.43  
I<sub>z</sub> = ( 1.00, 0.00, 0.00 )    P<sub>z</sub> = 46.45

Moments of inertia: ( pounds \* square inches )  
Taken at the center of mass and aligned with the output coordinate system. (Using positive tensor notation.)  
L<sub>xx</sub> = 46.45    L<sub>xy</sub> = 0.00    L<sub>xz</sub> = 0.00  
L<sub>yx</sub> = 0.00    L<sub>yy</sub> = 16.46    L<sub>yz</sub> = -19.82  
L<sub>zx</sub> = 0.00    L<sub>zy</sub> = -19.82    L<sub>zz</sub> = 31.87

Moments of inertia: ( pounds \* square inches )  
Taken at the output coordinate system. (Using positive tensor notation.)  
I<sub>xx</sub> = 88.36    I<sub>xy</sub> = 0.00    I<sub>xz</sub> = 0.00  
I<sub>yx</sub> = 0.00    I<sub>yy</sub> = 33.31    I<sub>yz</sub> = -40.37  
I<sub>zx</sub> = 0.00    I<sub>zy</sub> = -40.37    I<sub>zz</sub> = 56.93

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lab 4 part 2

Offset Entities Convert Entities Mirror Entities Extruded Boss/Base Extruded Cut Fillet Linear Pattern Mirror Draft Shell Reference Geometry Measure Mass Properties

Preparation

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Let's get started

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Editing Part Simplified Interface IPS



