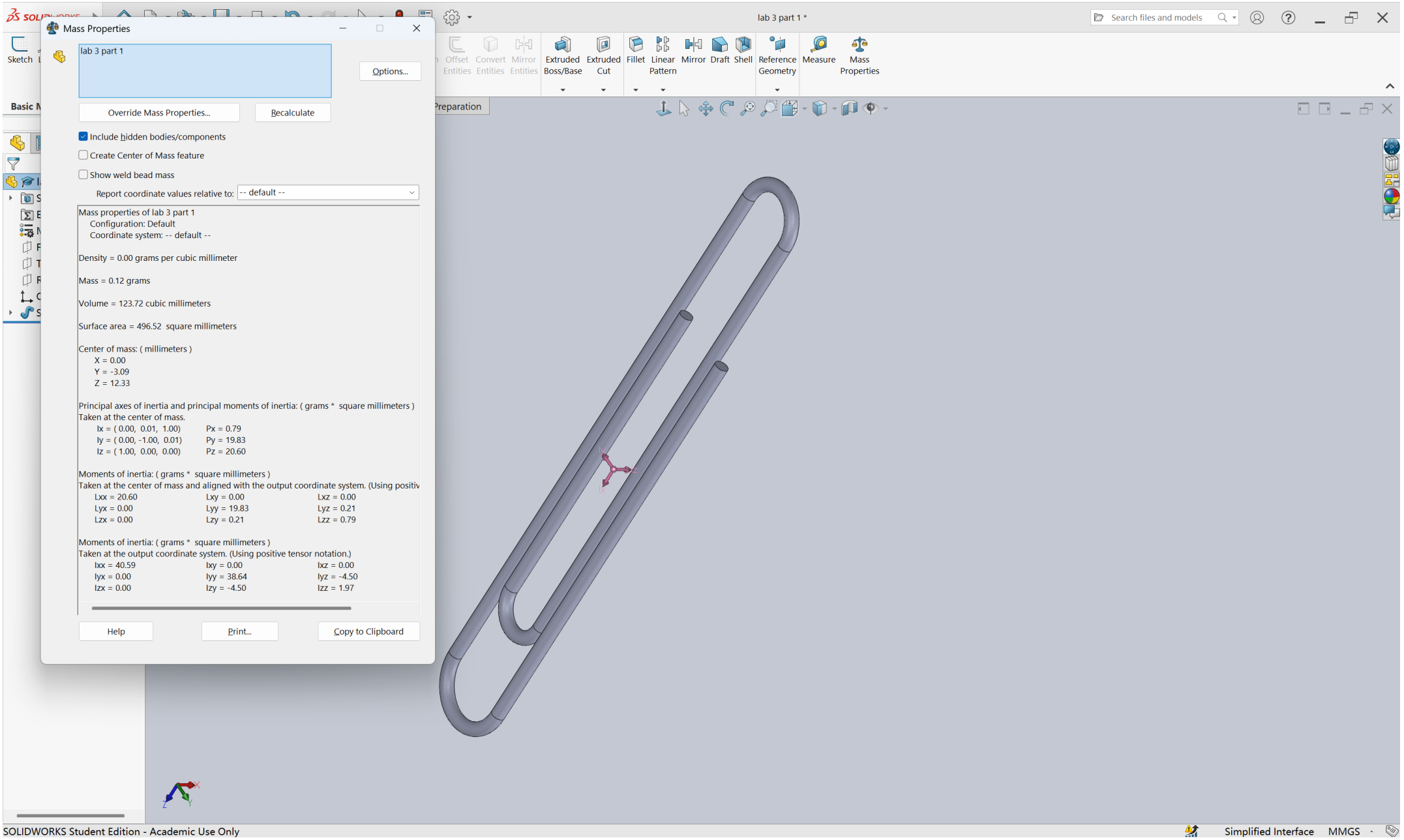
Mass Properties
lab 3 part 1
Options...
Override Mass Properties...
Recalculate
Include hidden bodies/components
Create Center of Mass feature
Show weld bead mass
Report coordinate values relative to: -- default --
Mass properties of lab 3 part 1
Configuration: Default
Coordinate system: -- default --
Density = 0.00 grams per cubic millimeter
Mass = 0.12 grams
Volume = 123.72 cubic millimeters
Surface area = 496.52 square millimeters
Center of mass: (millimeters)
X = 0.00
Y = -3.09
Z = 12.33
Principal axes of inertia and principal moments of inertia: (grams * square millimeters)
Taken at the center of mass.
Ix = (0.00, 0.01, 1.00) Px = 0.79
Iy = (0.00, -1.00, 0.01) Py = 19.83
Iz = (1.00, 0.00, 0.00) Pz = 20.60
Moments of inertia: (grams * square millimeters)
Taken at the center of mass and aligned with the output coordinate system. (Using positiv
Lxx = 20.60 Lxy = 0.00 Lxz = 0.00
Lyx = 0.00 Lyy = 19.83 Lyz = 0.21
Lzx = 0.00 Lzy = 0.21 Lzz = 0.79
Moments of inertia: (grams * square millimeters)
Taken at the output coordinate system. (Using positive tensor notation.)
Ixx = 40.59 Ixy = 0.00 Ixz = 0.00
Iyx = 0.00 Iyy = 38.64 Iyz = -4.50
Izx = 0.00 Izy = -4.50 Izz = 1.97
Help
Print...
Copy to Clipboard
lab 3 part 1 *
Search files and models
Sketch
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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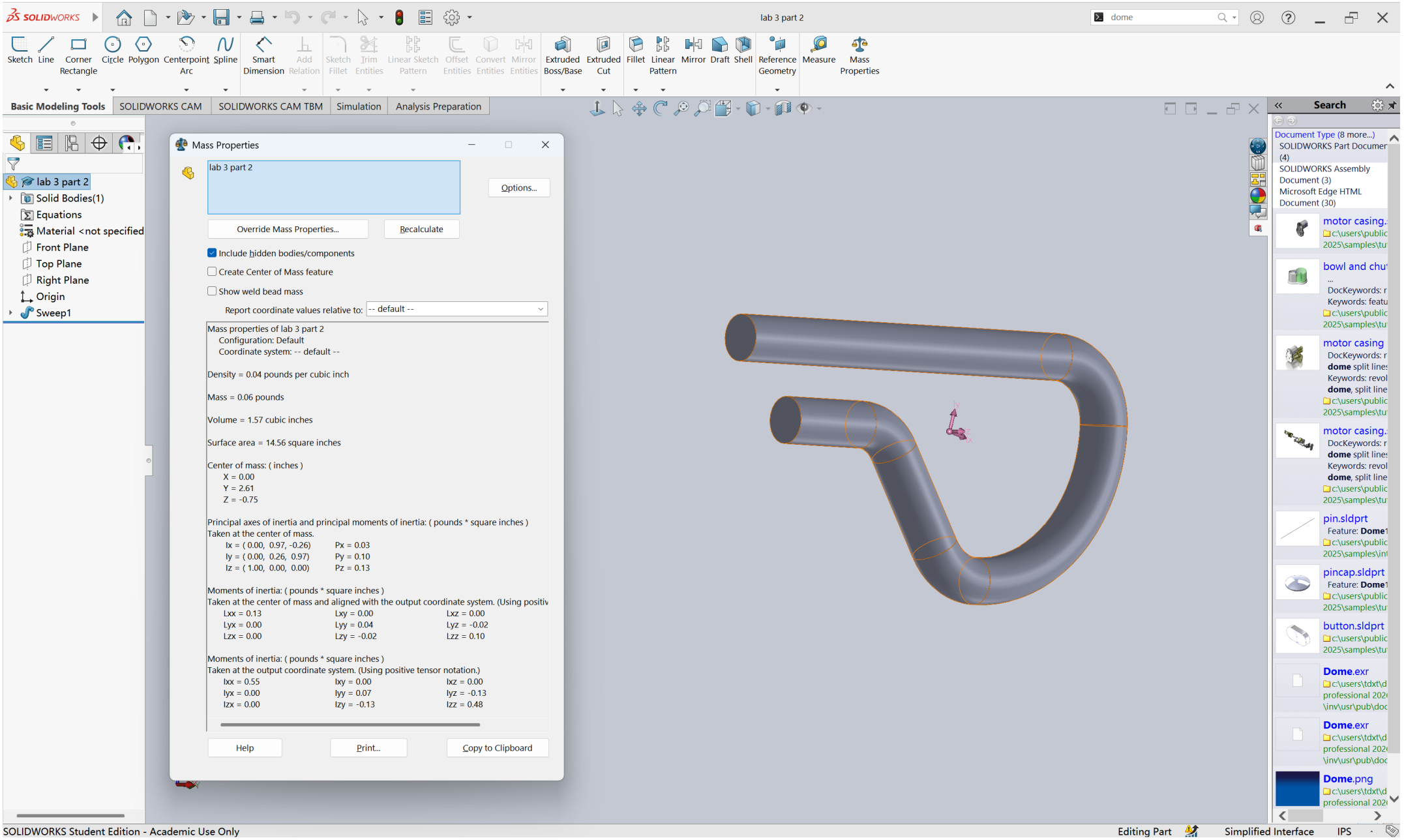
SOLIDWORKS
lab 3 part 2
dome
Sketch
Line
Corner Rectangle
Circle
Polygon
Centerpoint Arc
Spline
Smart Dimension
Add Relation
Sketch Fillet
Trim Entities
Linear Sketch Pattern
Offset Entities
Convert Entities
Mirror Entities
Extruded Boss/Base
Extruded Cut
Fillet
Linear Pattern
Mirror
Draft
Shell
Reference Geometry
Measure
Mass Properties
Basic Modeling Tools
SOLIDWORKS CAM
SOLIDWORKS CAM TBM
Simulation
Analysis Preparation
lab 3 part 2
Solid Bodies(1)
Equations
Material <not specified
Front Plane
Top Plane
Right Plane
Origin
Sweep1
Mass Properties
lab 3 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 3 part 2
Configuration: Default
Coordinate system: -- default --
Density = 0.04 pounds per cubic inch
Mass = 0.06 pounds
Volume = 1.57 cubic inches
Surface area = 14.56 square inches
Center of mass: (inches)
X = 0.00
Y = 2.61
Z = -0.75
Principal axes of inertia and principal moments of inertia: (pounds * square inches)
Taken at the center of mass.
Ix = (0.00, 0.97, -0.26) Px = 0.03
Iy = (0.00, 0.26, 0.97) Py = 0.10
Iz = (1.00, 0.00, 0.00) Pz = 0.13
Moments of inertia: (pounds * square inches)
Taken at the center of mass and aligned with the output coordinate system. (Using positiv
Lxx = 0.13 Lxy = 0.00 Lxz = 0.00
Lyx = 0.00 Lyy = 0.04 Lyz = -0.02
Lzx = 0.00 Lzy = -0.02 Lzz = 0.10
Moments of inertia: (pounds * square inches)
Taken at the output coordinate system. (Using positive tensor notation.)
Ixx = 0.55 Ixy = 0.00 Ixz = 0.00
Iyx = 0.00 Iyy = 0.07 Iyz = -0.13
Izx = 0.00 Izy = -0.13 Izz = 0.48
Help
Print...
Copy to Clipboard
Search
Document Type (8 more...)
SOLIDWORKS Part Document (4)
SOLIDWORKS Assembly Document (3)
Microsoft Edge HTML Document (30)
motor casing.
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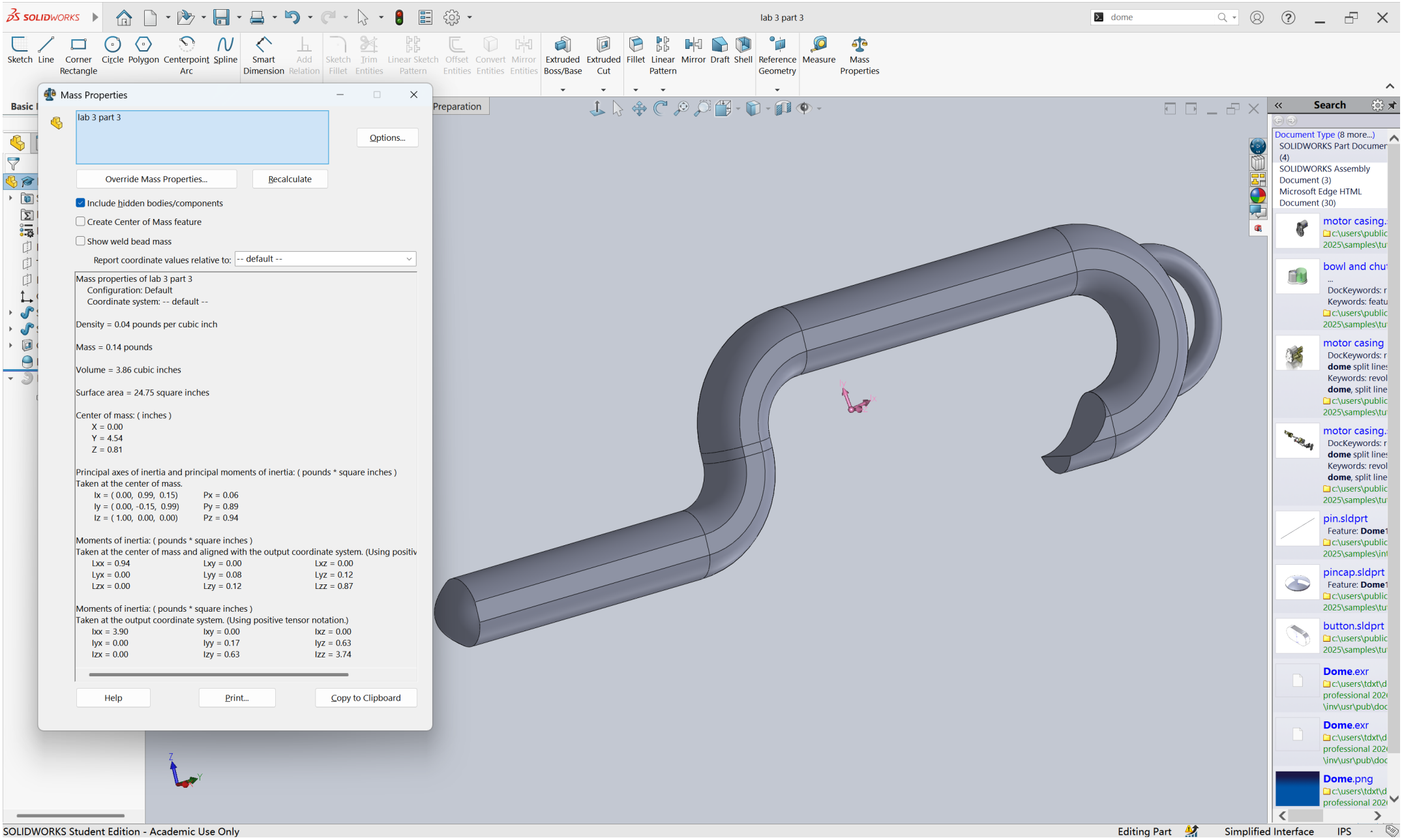
Editing Part
Simplified Interface
IPS


SOLIDWORKS
lab 3 part 3
dome
Sketch
Line
Corner Rectangle
Circle
Polygon
Centerpoint Arc
Spline
Smart Dimension
Add Relation
Sketch Fillet
Trim Entities
Linear Sketch Pattern
Offset Entities
Convert Entities
Mirror Entities
Extruded Boss/Base
Extruded Cut
Fillet
Linear Pattern
Mirror
Draft
Shell
Reference Geometry
Measure
Mass Properties
Mass Properties
lab 3 part 3
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 3 part 3
Configuration: Default
Coordinate system: -- default --
Density = 0.04 pounds per cubic inch
Mass = 0.14 pounds
Volume = 3.86 cubic inches
Surface area = 24.75 square inches
Center of mass: (inches)
X = 0.00
Y = 4.54
Z = 0.81
Principal axes of inertia and principal moments of inertia: (pounds * square inches)
Taken at the center of mass.
Ix = (0.00, 0.99, 0.15) Px = 0.06
Iy = (0.00, -0.15, 0.99) Py = 0.89
Iz = (1.00, 0.00, 0.00) Pz = 0.94
Moments of inertia: (pounds * square inches)
Taken at the center of mass and aligned with the output coordinate system. (Using positiv
Lxx = 0.94 Lxy = 0.00 Lxz = 0.00
Lyx = 0.00 Lyy = 0.08 Lyz = 0.12
Lzx = 0.00 Lzy = 0.12 Lzz = 0.87
Moments of inertia: (pounds * square inches)
Taken at the output coordinate system. (Using positive tensor notation.)
Ixx = 3.90 Ixy = 0.00 Ixz = 0.00
Iyx = 0.00 Iyy = 0.17 Iyz = 0.63
Izx = 0.00 Izy = 0.63 Izz = 3.74
Help
Print...
Copy to Clipboard
Preparation
Search
Document Type (8 more...)
SOLIDWORKS Part Document (4)
SOLIDWORKS Assembly Document (3)
Microsoft Edge HTML Document (30)
motor casing.
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