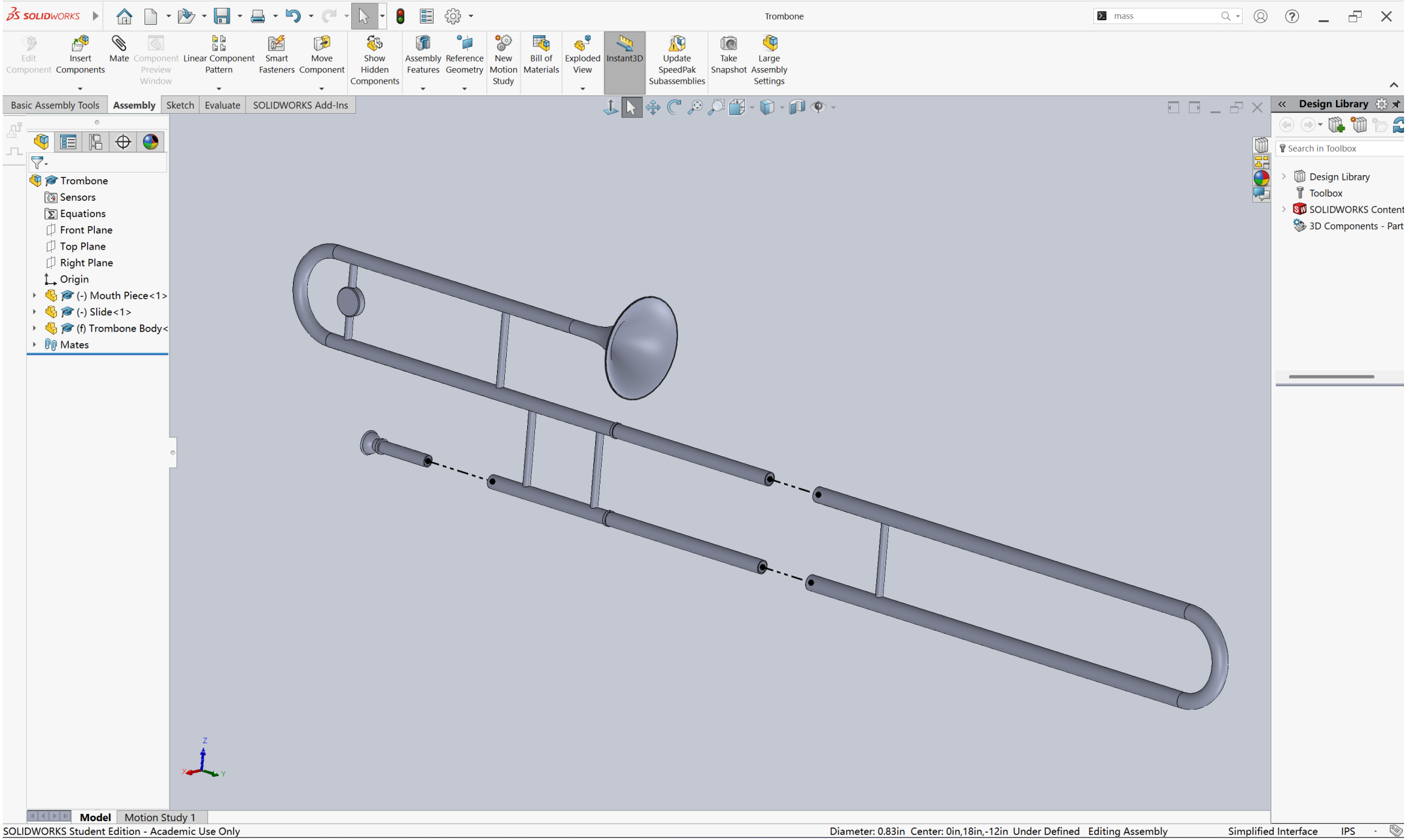
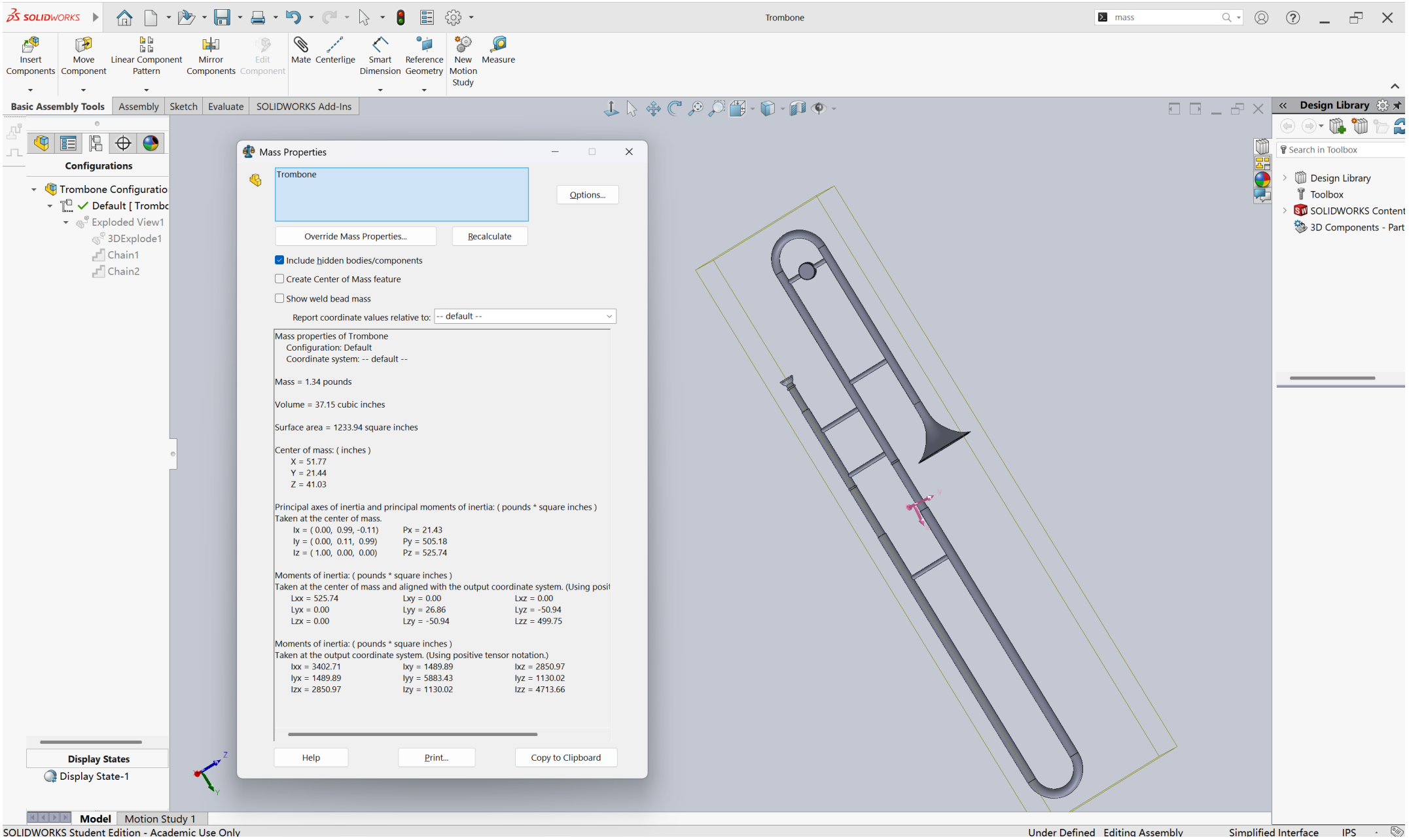
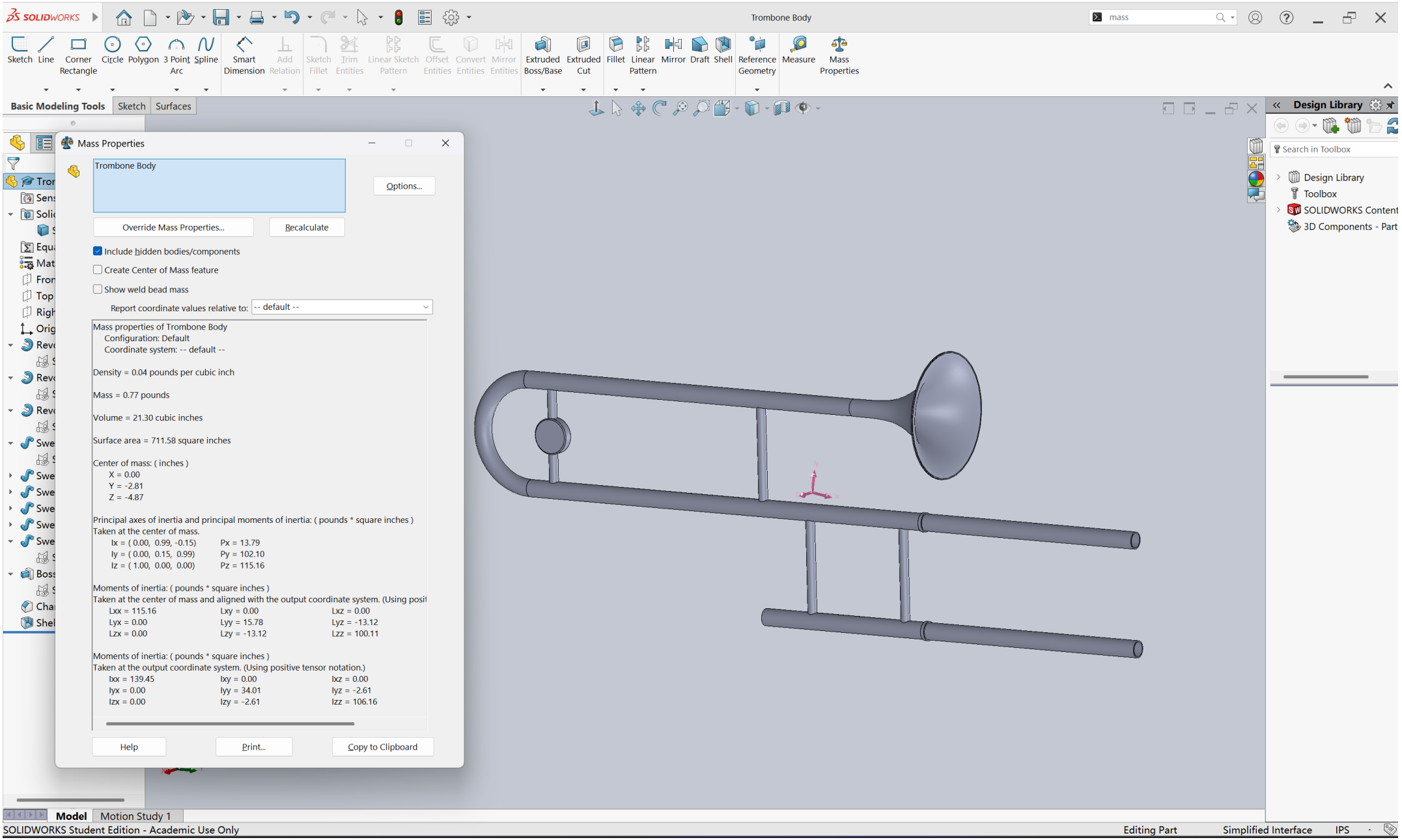

SOLIDWORKS
Trombone
mass
Edit Component
Insert Components
Mate
Component Preview Window
Linear Component Pattern
Smart Fasteners
Move Component
Show Hidden Components
Assembly Features
Reference Geometry
New Motion Study
Bill of Materials
Exploded View
Instant3D
Update SpeedPak Subassemblies
Take Snapshot
Large Assembly Settings
Basic Assembly Tools
Assembly
Sketch
Evaluate
SOLIDWORKS Add-Ins
Trombone
Sensors
Equations
Front Plane
Top Plane
Right Plane
Origin
(-) Mouth Piece<1>
(-) Slide<1>
(f) Trombone Body<
Mates
Design Library
Search in Toolbox
Design Library
Toolbox
SOLIDWORKS Content
3D Components - Part
Model
Motion Study 1
SOLIDWORKS Student Edition - Academic Use Only
Diameter: 0.83in Center: 0in,18in,-12in Under Defined Editing Assembly
Simplified Interface
IPS


SOLIDWORKS
Trombone
mass
Insert Components
Move Component
Linear Component Pattern
Mirror Components
Edit Component
Mate
Centerline
Smart Dimension
Reference Geometry
New Motion Study
Measure
Basic Assembly Tools
Assembly
Sketch
Evaluate
SOLIDWORKS Add-Ins
Configurations
Trombone Configuratio
Default [Trombc
Exploded View1
3DExplode1
Chain1
Chain2
Display States
Display State-1
Mass Properties
Trombone
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 Trombone
Configuration: Default
Coordinate system: -- default --
Mass = 1.34 pounds
Volume = 37.15 cubic inches
Surface area = 1233.94 square inches
Center of mass: (inches)
X = 51.77
Y = 21.44
Z = 41.03
Principal axes of inertia and principal moments of inertia: (pounds * square inches)
Taken at the center of mass.
Ix = (0.00, 0.99, -0.11) Px = 21.43
Iy = (0.00, 0.11, 0.99) Py = 505.18
Iz = (1.00, 0.00, 0.00) Pz = 525.74
Moments of inertia: (pounds * square inches)
Taken at the center of mass and aligned with the output coordinate system. (Using posit
Lxx = 525.74 Lxy = 0.00 Lxz = 0.00
Lyx = 0.00 Lyy = 26.86 Lyz = -50.94
Lzx = 0.00 Lzy = -50.94 Lzz = 499.75
Moments of inertia: (pounds * square inches)
Taken at the output coordinate system. (Using positive tensor notation.)
Ixx = 3402.71 Ixy = 1489.89 Ixz = 2850.97
Iyx = 1489.89 Iyy = 5883.43 Iyz = 1130.02
Izx = 2850.97 Izy = 1130.02 Izz = 4713.66
Help
Print...
Copy to Clipboard
Design Library
Search in Toolbox
Design Library
Toolbox
SOLIDWORKS Content
3D Components - Part
Model
Motion Study 1
SOLIDWORKS Student Edition - Academic Use Only
Under Defined
Editing Assembly
Simplified Interface
IPS


SOLIDWORKS
Trombone Body
mass
Sketch
Line
Corner Rectangle
Circle
Polygon
3 Point 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
Sketch
Surfaces
Design Library
Search in Toolbox
Design Library
Toolbox
SOLIDWORKS Content
3D Components - Part
Mass Properties
Trombone Body
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 Trombone Body
Configuration: Default
Coordinate system: -- default --
Density = 0.04 pounds per cubic inch
Mass = 0.77 pounds
Volume = 21.30 cubic inches
Surface area = 711.58 square inches
Center of mass: (inches)
X = 0.00
Y = -2.81
Z = -4.87
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 = 13.79
Iy = (0.00, 0.15, 0.99) Py = 102.10
Iz = (1.00, 0.00, 0.00) Pz = 115.16
Moments of inertia: (pounds * square inches)
Taken at the center of mass and aligned with the output coordinate system. (Using posit
Lxx = 115.16 Lxy = 0.00 Lxz = 0.00
Lyx = 0.00 Lyy = 15.78 Lyz = -13.12
Lzx = 0.00 Lzy = -13.12 Lzz = 100.11
Moments of inertia: (pounds * square inches)
Taken at the output coordinate system. (Using positive tensor notation.)
Ixx = 139.45 Ixy = 0.00 Ixz = 0.00
Iyx = 0.00 Iyy = 34.01 Iyz = -2.61
Izx = 0.00 Izy = -2.61 Izz = 106.16
Help
Print...
Copy to Clipboard
Model
Motion Study 1
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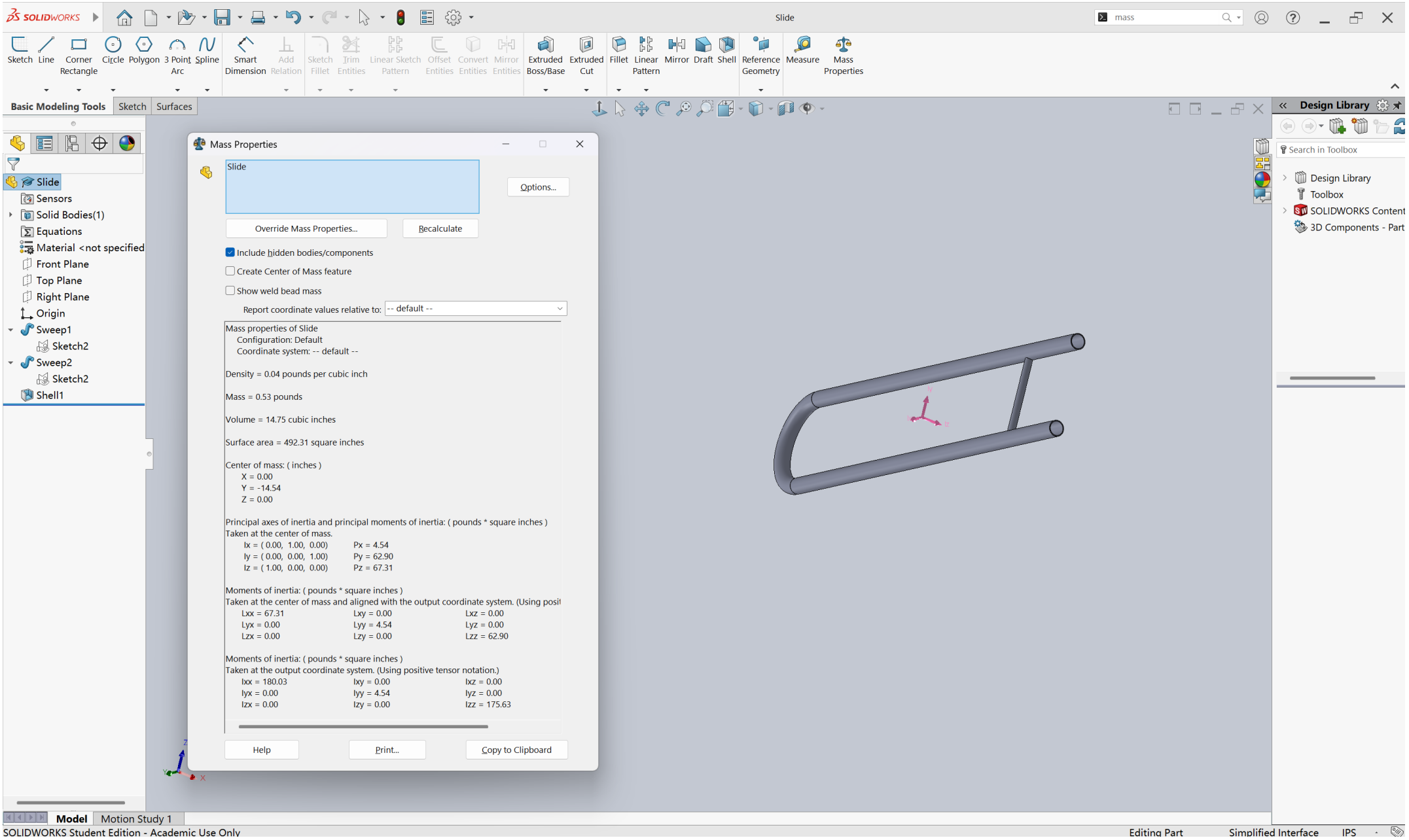
Editing Part
Simplified Interface
IPS


SOLIDWORKS
Slide
mass
Sketch
Line
Corner Rectangle
Circle
Polygon
3 Point 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
Sketch
Surfaces
Slide
Sensors
Solid Bodies(1)
Equations
Material <not specified
Front Plane
Top Plane
Right Plane
Origin
Sweep1
Sketch2
Sweep2
Sketch2
Shell1
Mass Properties
Slide
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 Slide
Configuration: Default
Coordinate system: -- default --
Density = 0.04 pounds per cubic inch
Mass = 0.53 pounds
Volume = 14.75 cubic inches
Surface area = 492.31 square inches
Center of mass: (inches)
X = 0.00
Y = -14.54
Z = 0.00
Principal axes of inertia and principal moments of inertia: (pounds * square inches)
Taken at the center of mass.
Ix = (0.00, 1.00, 0.00) Px = 4.54
Iy = (0.00, 0.00, 1.00) Py = 62.90
Iz = (1.00, 0.00, 0.00) Pz = 67.31
Moments of inertia: (pounds * square inches)
Taken at the center of mass and aligned with the output coordinate system. (Using posit
Lxx = 67.31 Lxy = 0.00 Lxz = 0.00
Lyx = 0.00 Lyy = 4.54 Lyz = 0.00
Lzx = 0.00 Lzy = 0.00 Lzz = 62.90
Moments of inertia: (pounds * square inches)
Taken at the output coordinate system. (Using positive tensor notation.)
Ixx = 180.03 Ixy = 0.00 Ixz = 0.00
Iyx = 0.00 Iyy = 4.54 Iyz = 0.00
Izx = 0.00 Izy = 0.00 Izz = 175.63
Help
Print...
Copy to Clipboard
Design Library
Search in Toolbox
Design Library
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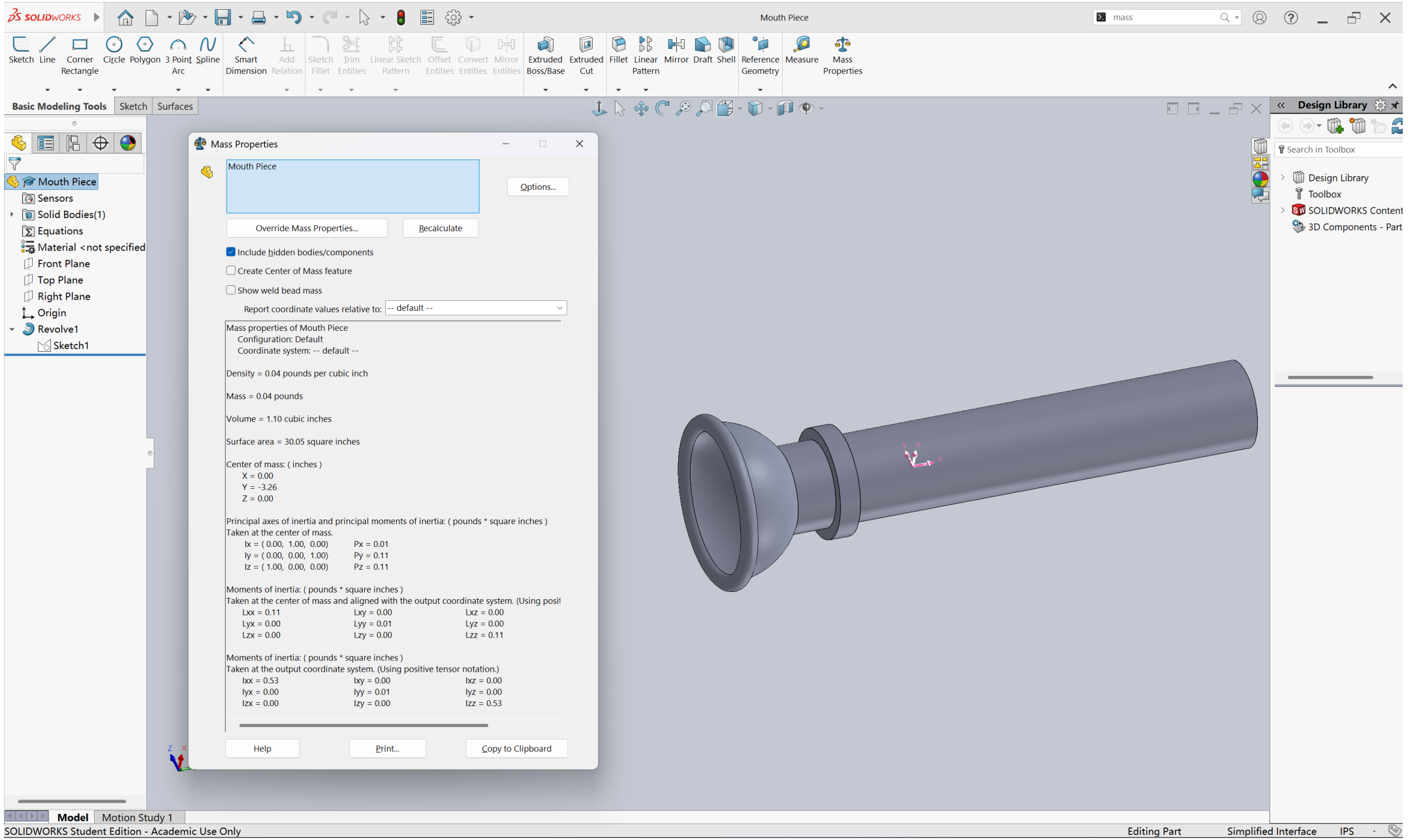
SOLIDWORKS
Mouth Piece
mass
Sketch
Line
Corner Rectangle
Circle
Polygon
3 Point Arc
Spline
Smart Dimension
Add Relation
Sketch Fillet
Trim Entities
Linear Sketch Pattern
Offset Entities
Convert Entities
Mirror Entities
Extruded Boss/Base
Extruded Cut
Fillet
Linear Pattern
Mirror
Draft
Shell
Reference Geometry
Measure
Mass Properties
Basic Modeling Tools
Sketch
Surfaces
Mouth Piece
Sensors
Solid Bodies(1)
Equations
Material <not specified
Front Plane
Top Plane
Right Plane
Origin
Revolve1
Sketch1
Mass Properties
Mouth Piece
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 Mouth Piece
Configuration: Default
Coordinate system: -- default --
Density = 0.04 pounds per cubic inch
Mass = 0.04 pounds
Volume = 1.10 cubic inches
Surface area = 30.05 square inches
Center of mass: (inches)
X = 0.00
Y = -3.26
Z = 0.00
Principal axes of inertia and principal moments of inertia: (pounds * square inches)
Taken at the center of mass.
Ix = (0.00, 1.00, 0.00) Px = 0.01
Iy = (0.00, 0.00, 1.00) Py = 0.11
Iz = (1.00, 0.00, 0.00) Pz = 0.11
Moments of inertia: (pounds * square inches)
Taken at the center of mass and aligned with the output coordinate system. (Using posit
Lxx = 0.11 Lxy = 0.00 Lxz = 0.00
Lyx = 0.00 Lyy = 0.01 Lyz = 0.00
Lzx = 0.00 Lzy = 0.00 Lzz = 0.11
Moments of inertia: (pounds * square inches)
Taken at the output coordinate system. (Using positive tensor notation.)
Ixx = 0.53 Ixy = 0.00 Ixz = 0.00
Iyx = 0.00 Iyy = 0.01 Iyz = 0.00
Izx = 0.00 Izy = 0.00 Izz = 0.53
Help
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