



Revolve Boss/Cut (Level 6)

Units: MMGS

Difficulty Level: EasyCertification: CSWADuration (min): 5

Design Intent:

 The part's origin location is indicated in red.

The part is symmetric.

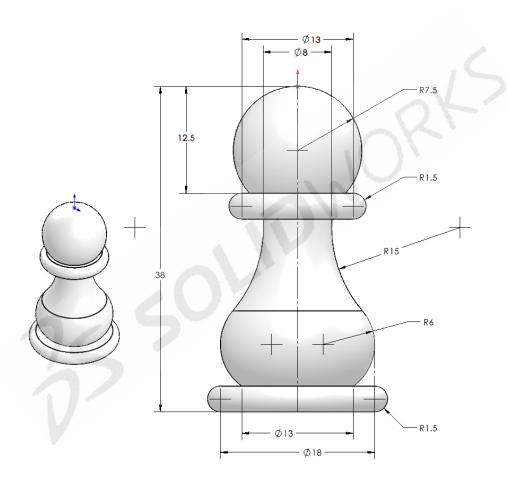
All sketches are fully-defined.

Suggested Sketch Tools / Features

• Sketch: Lines, Centerlines, Arcs

· Features: Revolves

HINT: This can be built using a single feature.









Revolve Boss/Cut (Level 6)

Units: MMGS

Difficulty Level: MediumCertification: CSWADuration (min): 10

Design Intent:

 The part's origin location is indicated in red.

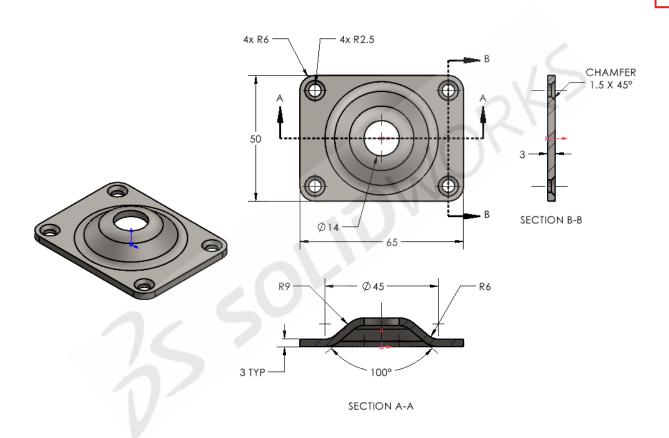
The part is symmetric.

All sketches are fully-defined.

Suggested Sketch Tools / Features

• Sketch: Lines, Centerlines, Circles

Features: Revolves, Extrude Boss, Fillets and Chamfers









Revolve Boss/Cut (Level 6)

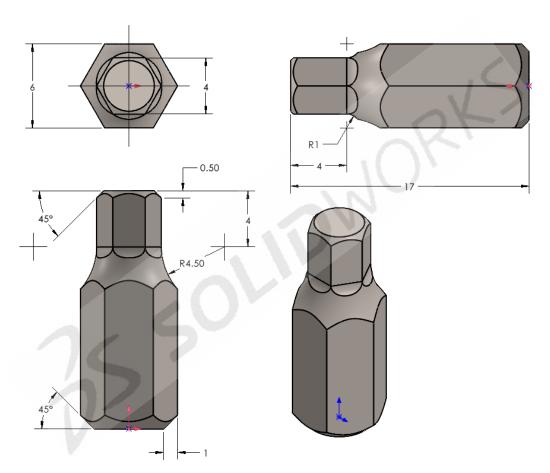
Units: MMGS

Difficulty Level: Easy
 Certification: CSWA
 Duration (min): 5

- Design Intent:
 - The part's origin location is indicated in red.
 - The part is symmetric.
 - All sketches are fully-defined.

Suggested Sketch Tools / Features

- Sketch: Lines, Centerlines, Circles, Arcs, Polygons
- Features: Revolves, Extrude Boss, Fillets and Chamfers
- · Reference Geometry: Planes









Revolve Boss/Cut (Level 6)

Units: MMGS

Difficulty Level: MediumCertification: CSWADuration (min): 10

Design Intent:

 The part's origin location is indicated in red.

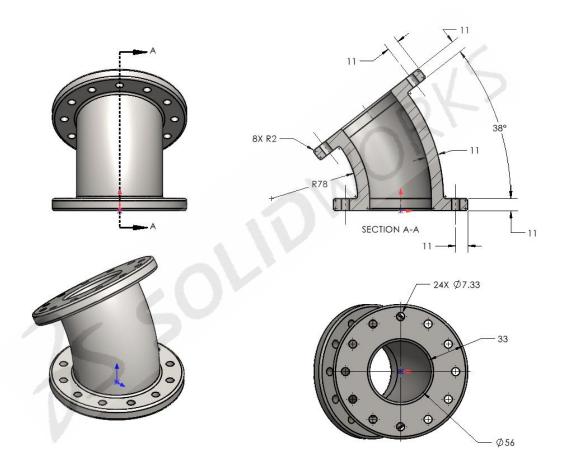
o The part is symmetric.

All sketches are fully-defined.

Suggested Sketch Tools / Features

• Sketch: Lines, Centerlines, Circles, Arcs

 Features: Revolves, Extrude Boss, Fillets and Chamfers









Revolve Boss/Cut (Level 6)

Units: MMGS

Difficulty Level: EasyCertification: CSWADuration (min): 10

Design Intent:

 The part's origin location is indicated in red.

The part is symmetric.

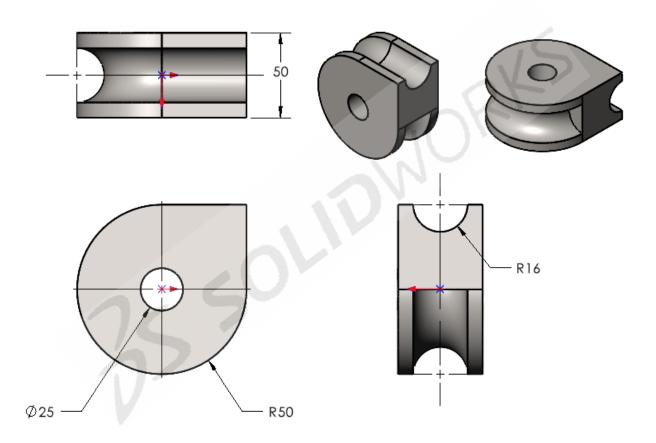
All sketches are fully-defined.

Suggested Sketch Tools / Features

• Sketch: Lines, Centerlines, Circles, Arcs

• Features: Revolves, Extrude Boss

HINT: Cut with a revolve feature.









Revolve Boss/Cut (Level 6)

Units: MMGS

Difficulty Level: EasyCertification: CSWADuration (min): 10

Design Intent:

 The part's origin location is indicated in red.

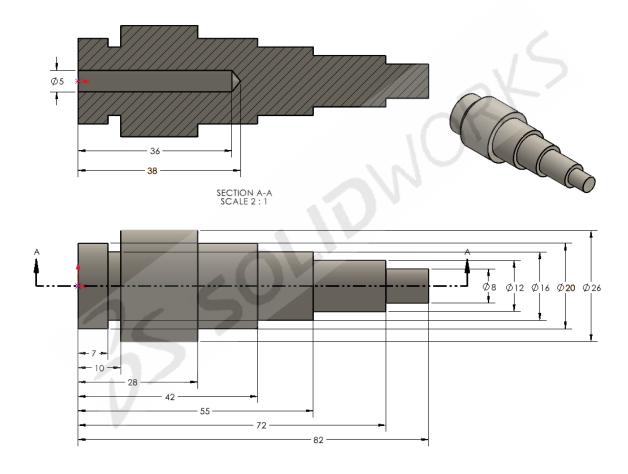
The part is symmetric.

All sketches are fully-defined.

Suggested Sketch Tools / Features

• Sketch: Lines, Centerlines

· Features: Revolves









Revolve Boss/Cut (Level 6)

Units: MMGS

Difficulty Level: Medium
Certification: CSWA
Duration (min): 15

Design Intent:

 The part's origin location is indicated in red.

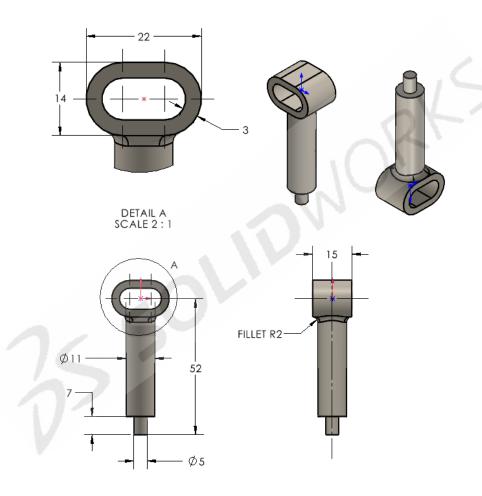
• The part is symmetric.

All sketches are fully-defined.

Suggested Sketch Tools / Features

- Sketch: Lines, Centerlines, Circles, Trim, Slots, Offset Entities
- Features: Revolves, Extrude Boss, Extrude

HINT: Slot is dimensioned to the overall width.









Revolve Boss/Cut (Level 6)

Units: MMGS

Difficulty Level: MediumCertification: CSWADuration (min): 10

Design Intent:

 The part's origin location is indicated in red.

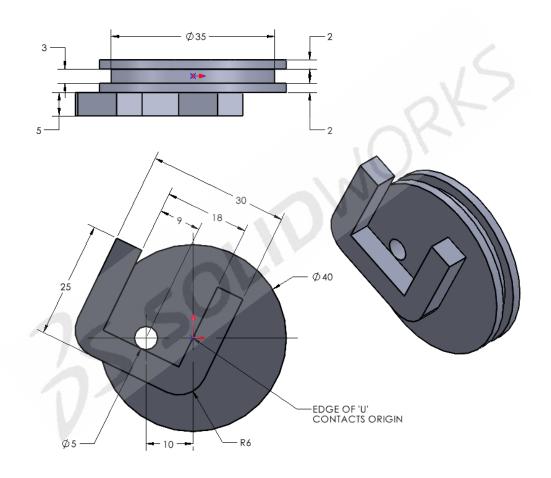
o The part is asymmetric.

All sketches are fully-defined.

Suggested Sketch Tools / Features

- Sketch: Lines, Centerlines, Circles, Trim, Sketch Fillets, Offset Entities
- Features: Revolves, Extrude Boss, Extrude

HINT: The "U" boss is tangent to the through hole and passes through the Origin.









Revolve Boss/Cut (Level 6)

Units: MMGS

Difficulty Level: EasyCertification: CSWADuration (min): 10

Design Intent:

 The part's origin location is indicated in red.

The part is symmetric.

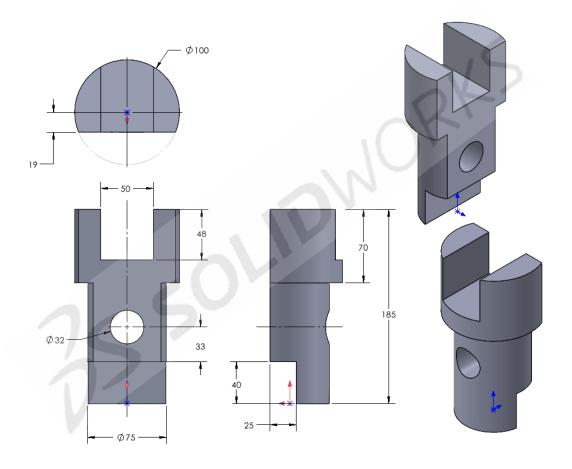
All sketches are fully-defined.

Suggested Sketch Tools / Features

• Sketch: Lines, Centerlines, Circles, Trim

· Features: Revolves, Extrude Cut

HINT: Start with a full revolve feature.









Revolve Boss/Cut (Level 6)

Units: MMGS

Difficulty Level: MediumCertification: CSWADuration (min): 10

Design Intent:

 The part's origin location is indicated in red.

The part is symmetric.

All sketches are fully-defined.

Suggested Sketch Tools / Features

- Sketch: Lines, Centerlines, Circles, Trim, Arcs
- Features: Revolves, Extrude Boss, Extrude
 Cut

HINT: Bosses then cuts.

