



Extrude Cut & Fillet/Chamfer (Level 4)

Units: MMGS

Difficulty Level: MediumCertification: CSWADuration (min): 10

Design Intent:

 The part's origin location is indicated in red.

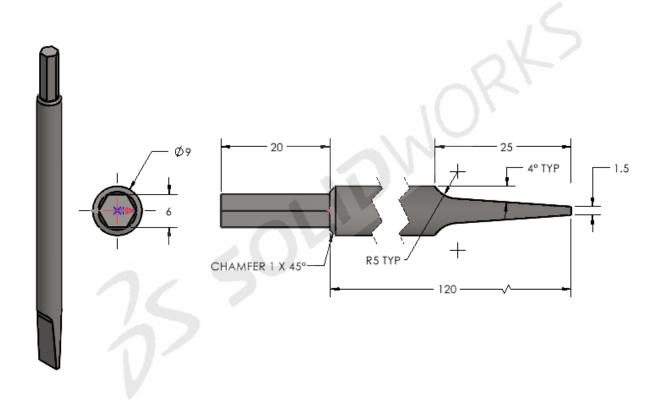
The part is symmetric.

All sketches are fully-defined.

Suggested Sketch Tools / Features

- Sketch: Lines, Centerlines, Circles
- Features: Extrude Boss, Extrude Cut, Fillets and Chamfers

HINT: Use the Polygon tool to create hex.









Extrude Cut & Fillet/Chamfer (Level 4)

Units: MMGS

Difficulty Level: MediumCertification: CSWADuration (min): 15

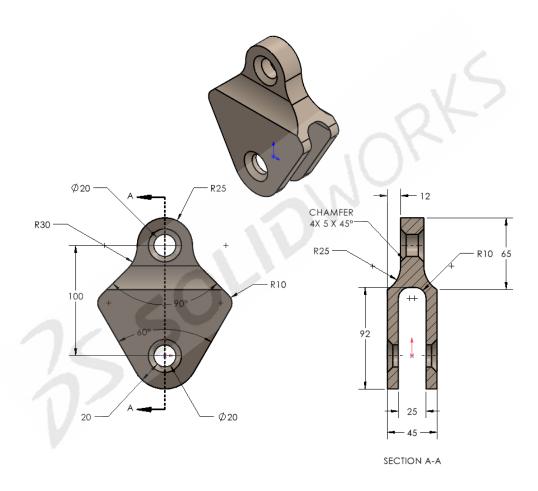
Design Intent:

 The part's origin location is indicated in red.

• The part is symmetric.

All sketches are fully-defined.

- Sketch: Lines, Centerlines, Circles, Arc, Sketch Fillets
- Features: Extrude Boss, Extrude Cut





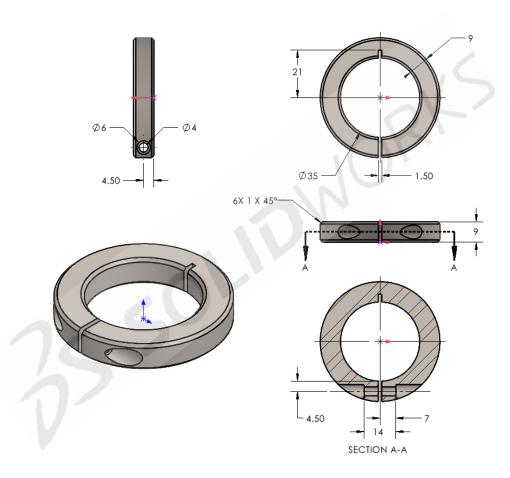




Extrude Cut & Fillet/Chamfer (Level 4)

- Units: MMGS
- Difficulty Level: MediumCertification: CSWA
- Duration (min): 15
- Design Intent:
 - The part's origin location is indicated in red.
 - The part is symmetric.
 - All sketches are fully-defined.

- Sketch: Lines, Centerlines, Circles, Arcs
- Features: Extrude Boss, Extrude Cut, Fillets and Chamfers









Extrude Cut & Fillet/Chamfer (Level 4)

Units: MMGS

Difficulty Level: MediumCertification: CSWADuration (min): 15

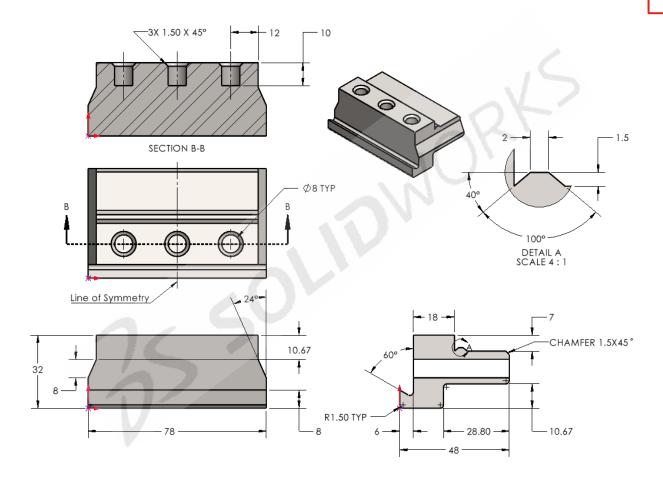
Design Intent:

 The part's origin location is indicated in red.

The part is symmetric.

All sketches are fully-defined.

- Sketch: Lines, Centerlines, Circles, Arcs
- Features: Extrude Boss, Extrude Cut, Fillets and Chamfers





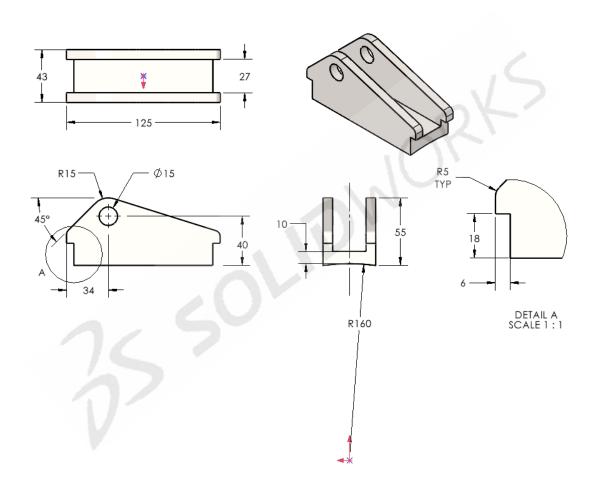




Extrude Cut & Fillet/Chamfer (Level 4)

- Units: MMGS
- Difficulty Level: Medium
- Certification: CSWA
- Duration (min): 20
- Design Intent:
 - The part's origin location is indicated in red.
 - The part is symmetric.
 - All sketches are fully-defined.

- Sketch: Lines, Centerlines, Circles
- Features: Extrude Boss, Extrude Cut, Fillets and Chamfers









Extrude Cut & Fillet/Chamfer (Level 4)

Units: MMGS

Difficulty Level: HardCertification: CSWADuration (min): 35

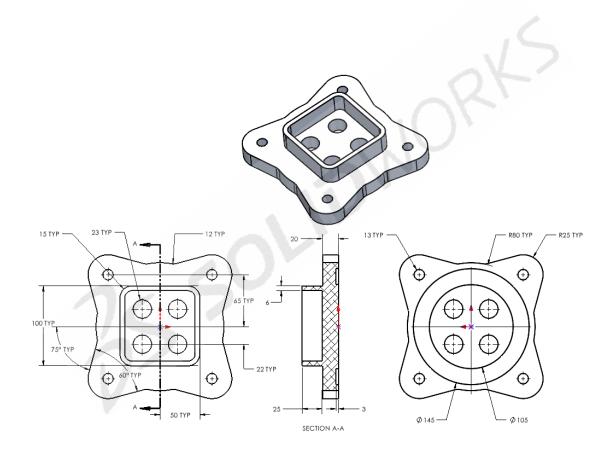
Design Intent:

 The part's origin location is indicated in red.

• The part is symmetric.

All sketches are fully-defined.

- Sketch: Lines, Centerlines, Circles, Sketch Fillets
- Features: Extrude Boss, Extrude Cut









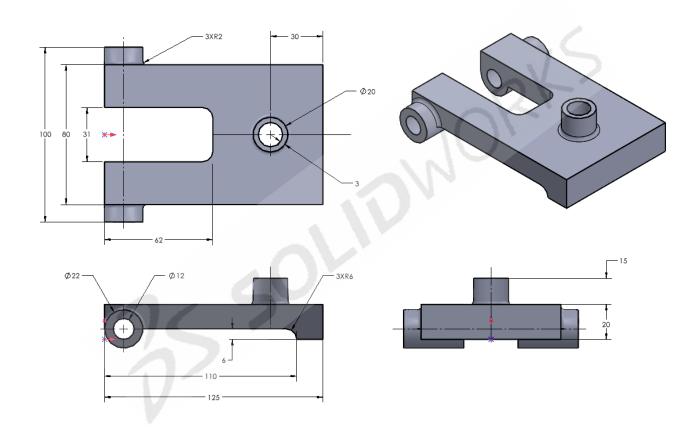
Extrude Cut & Fillet/Chamfer (Level 4)

- Units: MMGS
- Difficulty Level: Medium
- Certification: CSWADuration (min): 25
- Duration (min).
- Design Intent:
 - The part's origin location is indicated in red.
 - The part is symmetric.
 - o All sketches are fully-defined.

Suggested Sketch Tools / Features

- Sketch: Lines, Centerlines, Circles, Rectangles
- Features: Extrude Boss, Extrude Cut, Fillets and Chamfers

HINT: Start with a rectangle, placing the lower right corner at the origin.









Extrude Cut & Fillet/Chamfer (Level 4)

Units: MMGS

Difficulty Level: EasyCertification: CSWADuration (min): 15

Design Intent:

 The part's origin location is indicated in red.

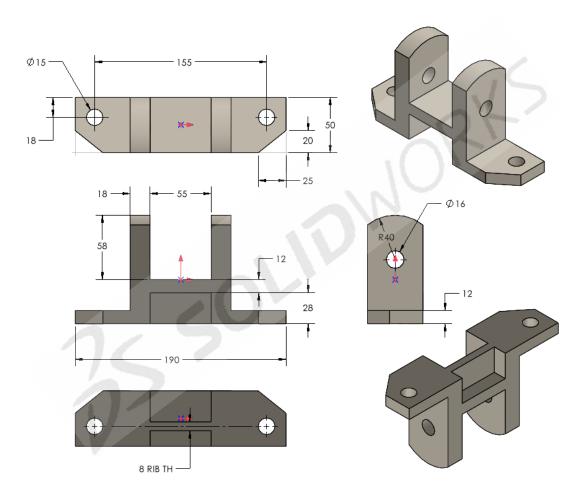
• The part is symmetric.

All sketches are fully-defined.

Suggested Sketch Tools / Features

- Sketch: Lines, Centerlines, Circles
- Features: Extrude Boss, Extrude Cut, Fillets and Chamfers

HINT: The rib is centered on the lower circular holes.









Extrude Cut & Fillet/Chamfer (Level 4)

Units: MMGS

Difficulty Level: EasyCertification: CSWADuration (min): 15

Design Intent:

 The part's origin location is indicated in red.

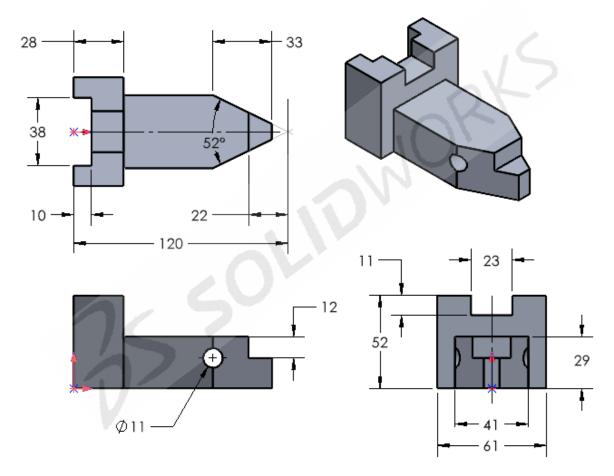
o The part is symmetric.

All sketches are fully-defined.

Suggested Sketch Tools / Features

• Sketch: Lines, Centerlines, Circles

• Features: Extrude Boss, Extrude Cut









Extrude Cut & Fillet/Chamfer (Level 4)

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, Circles, Arcs

• Features: Extrude Boss, Extrude Cut

HINT: Create all 8 holes in a single feature.

