

AUTHOR: JAIPRAKASH PANDEY



72 PRACTICE DRAWINGS

Fully dimensioned 2D and 3D
drawings for practice

BY SOURCECAD LEARNING

Second Edition

INTRODUCTION

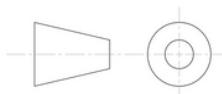
Practice is the key to learning any skill.

Any student learning new CAD software like AutoCAD, Fusion 360, Solidworks or more needs hands-on exercises to practice the skills and that's where this book fills the gap.

This second edition of the book contains revised drawings with corrected dimensions and several new 2D and 3D drawings.

All the drawings now contain proper construction geometries, accurate dimensions up to the required number of decimal places and placeholders wherever necessary.

3D drawings in this book are made in the **third angle of projection** and the symbol of the third angle as shown here is added to every 3D drawing to avoid confusion.



If you are an instructor feel free to use this book in your classroom. I would highly appreciate it if you acknowledge SourceCAD as the Source of this book and all its drawings.

VIDEO DESCRIPTION OF DRAWINGS

Step by step method of making every single drawing from this book is explained in the practice drawing courses from SourceCAD.

If you are stuck with any drawing and want to learn the steps of making it then head over to SourceCAD and check its video in the practice drawing course.

To check the video simply click the button under every drawing and it will take you to the respective course.

All the videos are made with AutoCAD, Fusion 360, Solidworks and BricsCAD software but you can follow the same steps using any CAD software.

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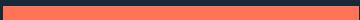
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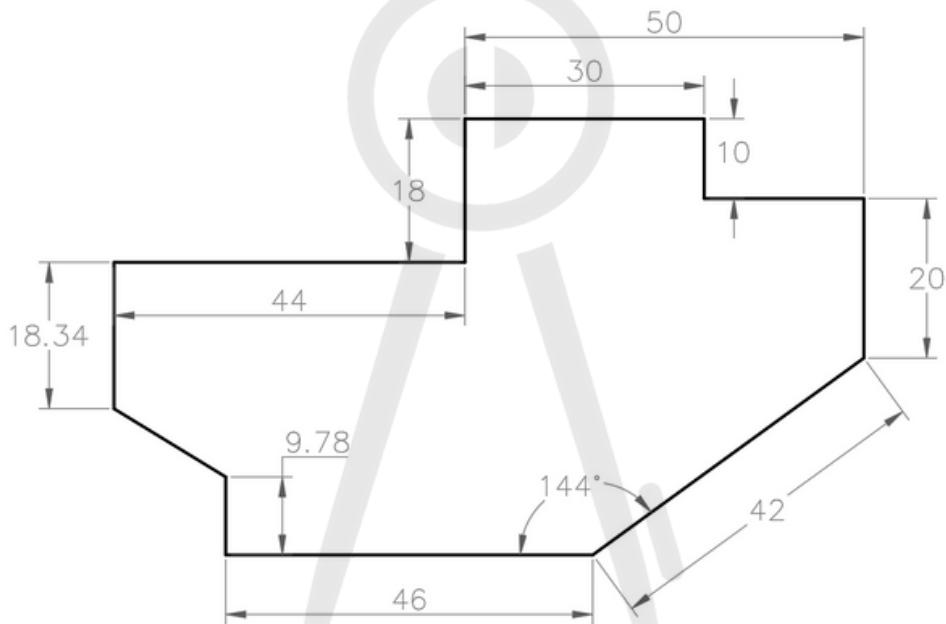
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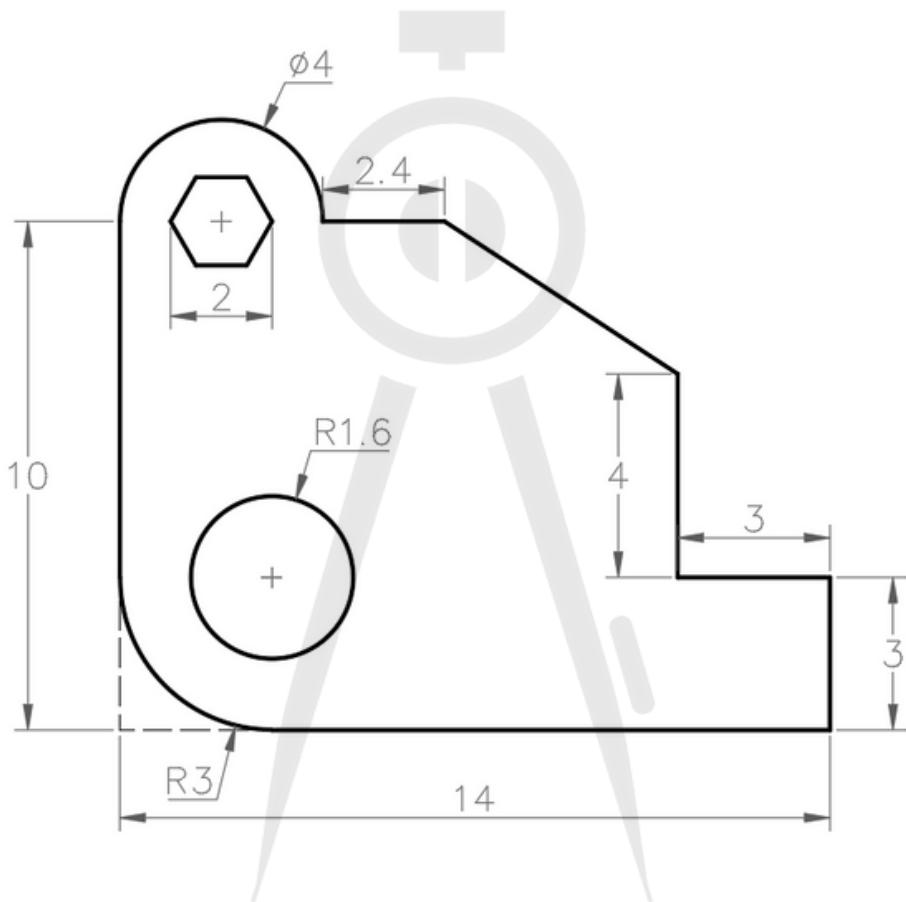
2D Drawings



2D Drawing -1

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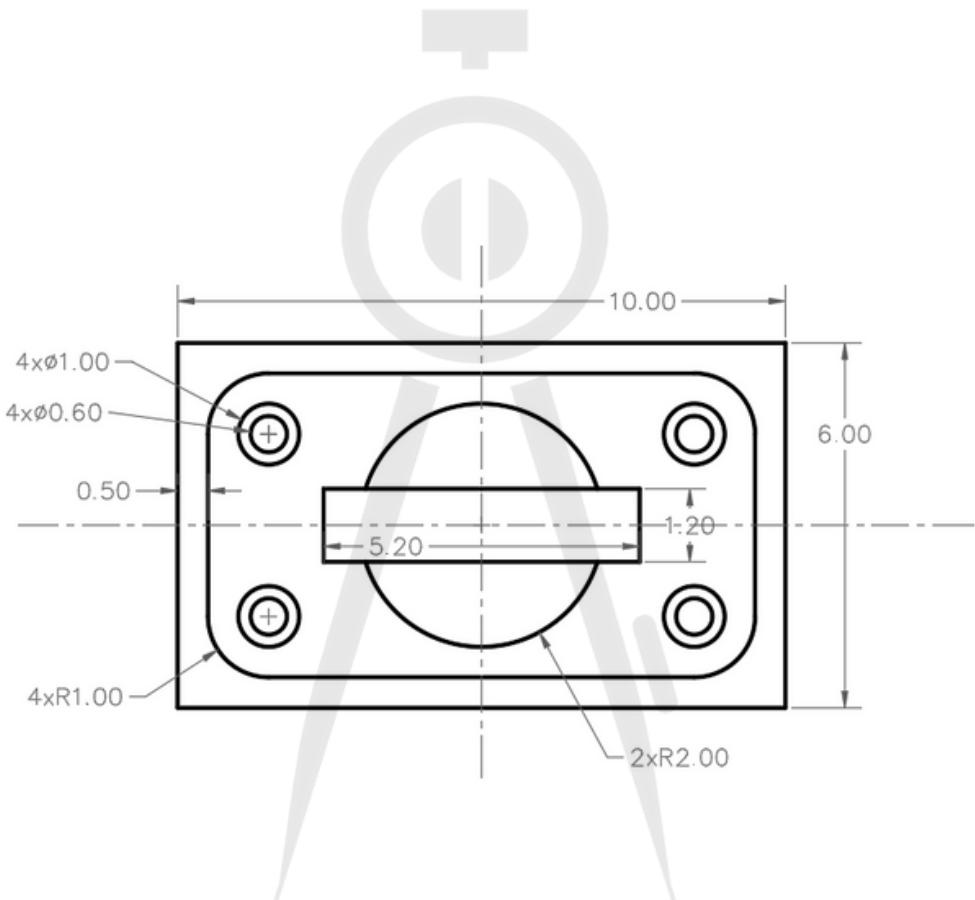
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2D Drawing -2

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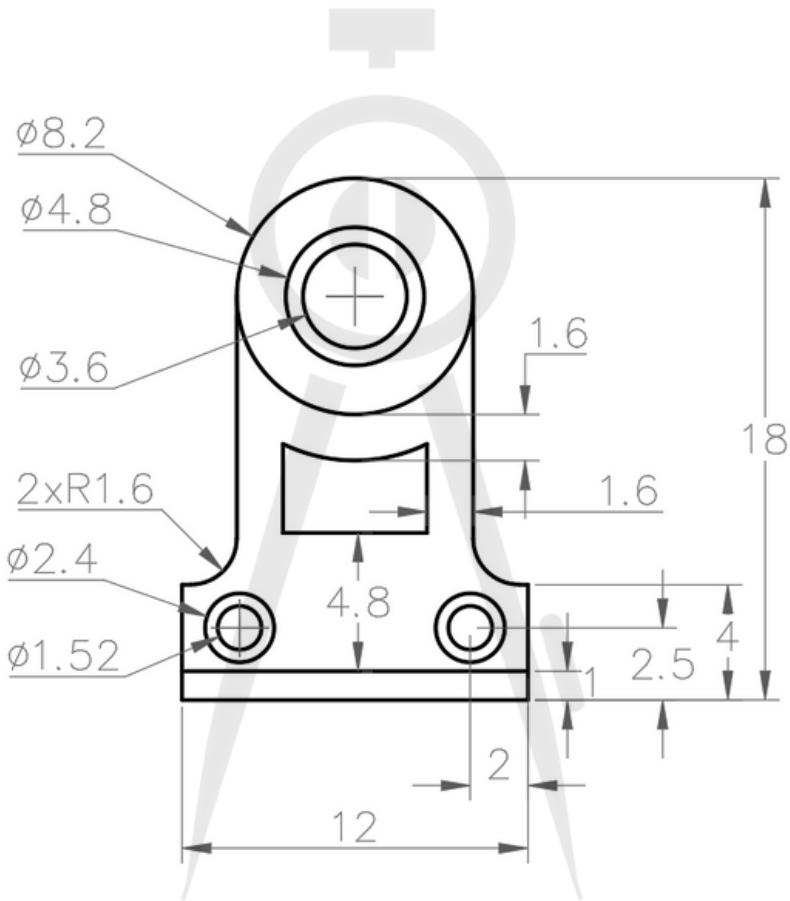
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2D Drawing -3

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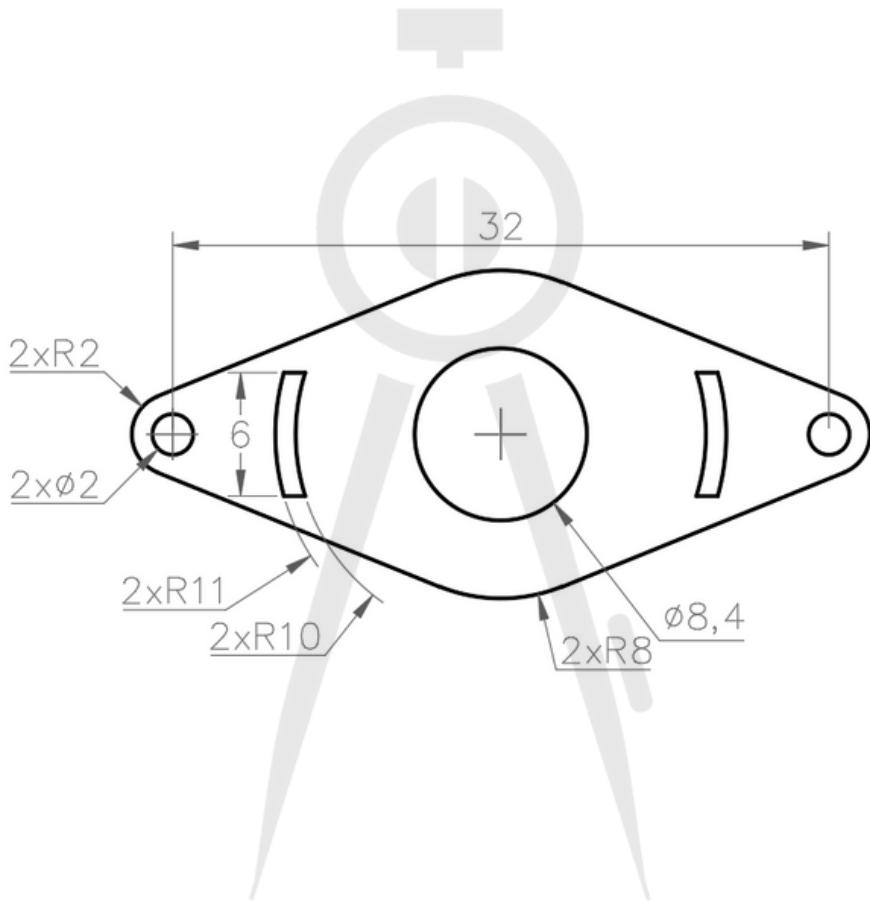


2D Drawing -4

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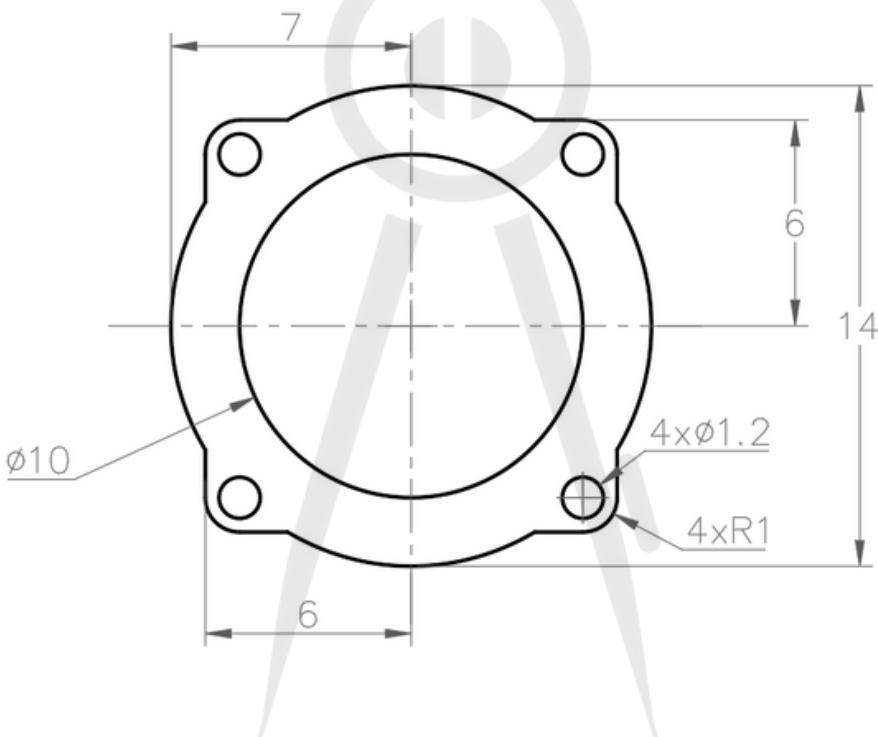
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2D Drawing -5

Learn to make this drawing

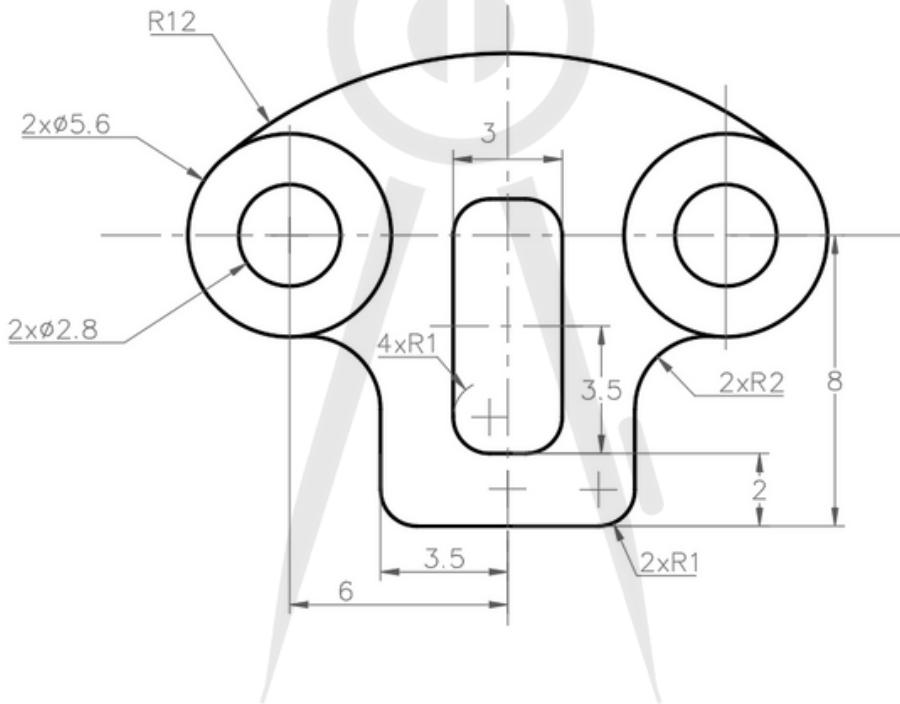
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2D Drawing -6

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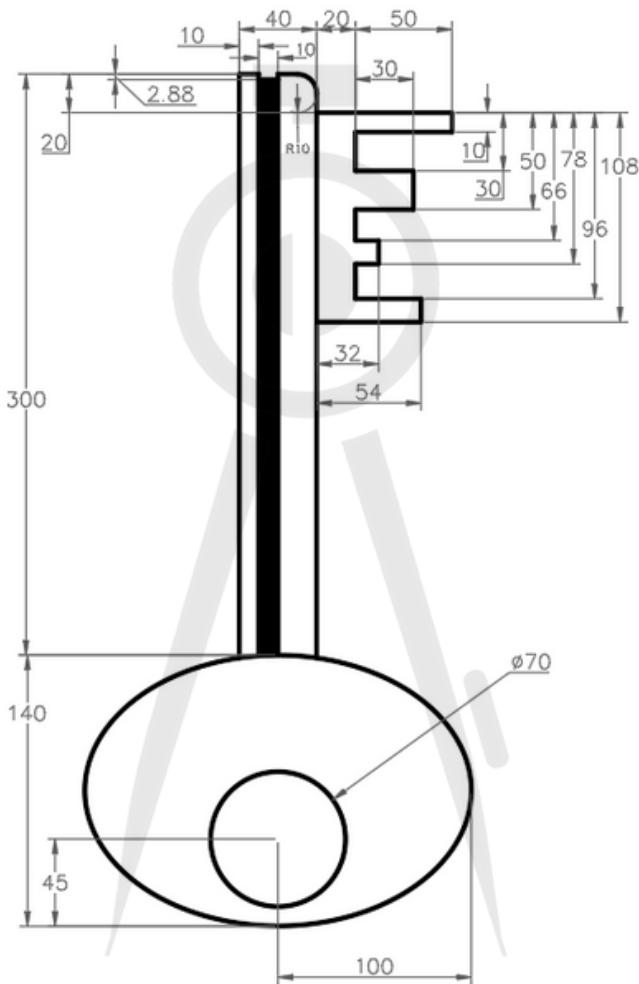
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2D and 3D Practice drawings



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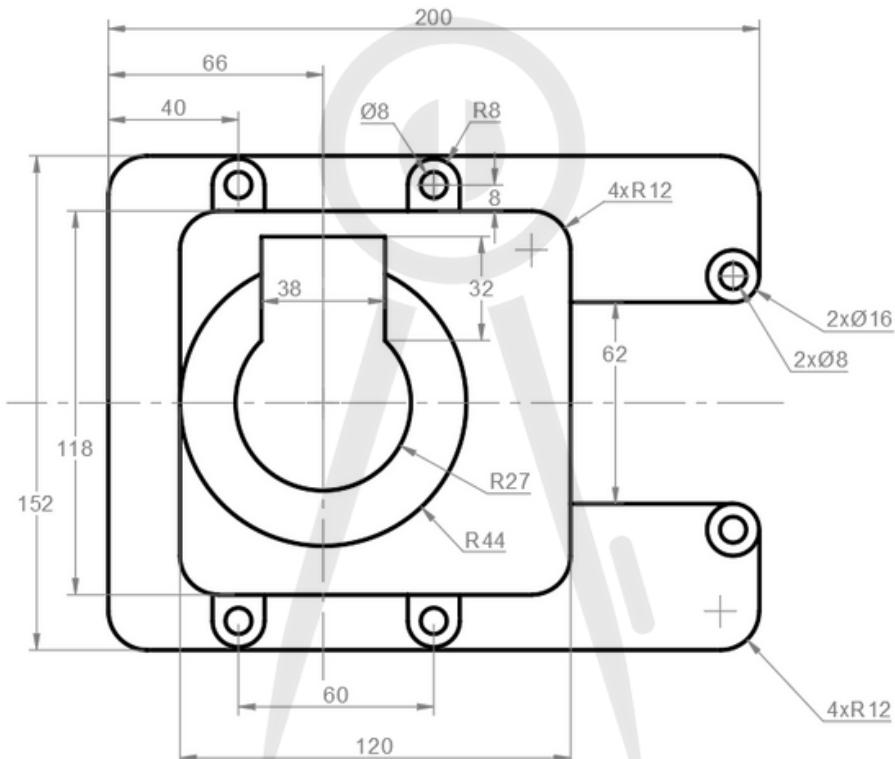
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2D Drawing -8

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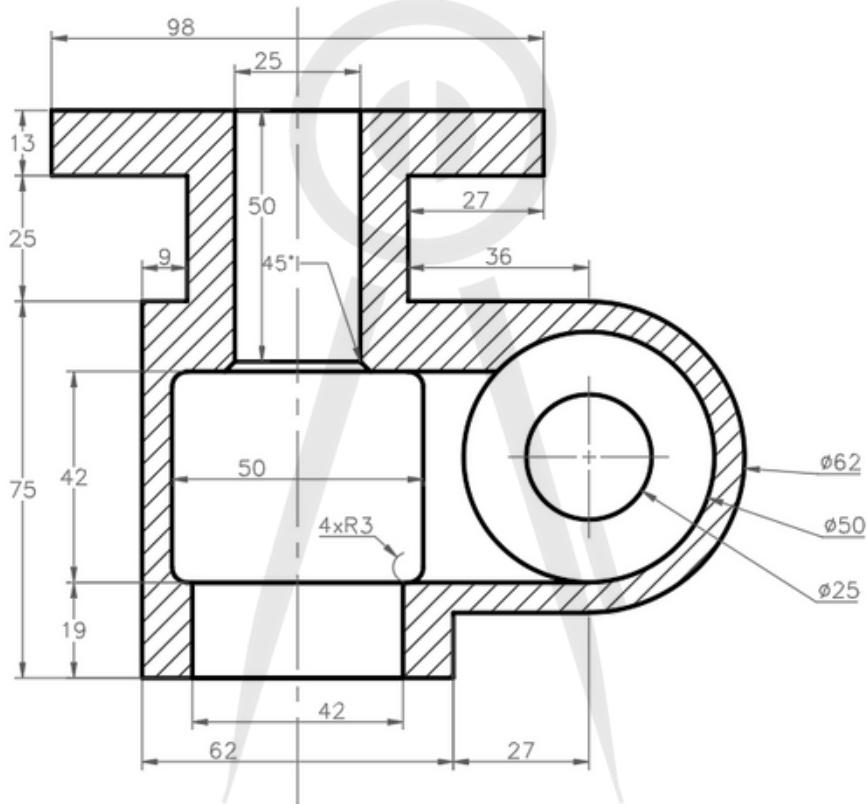


2D Drawing -9

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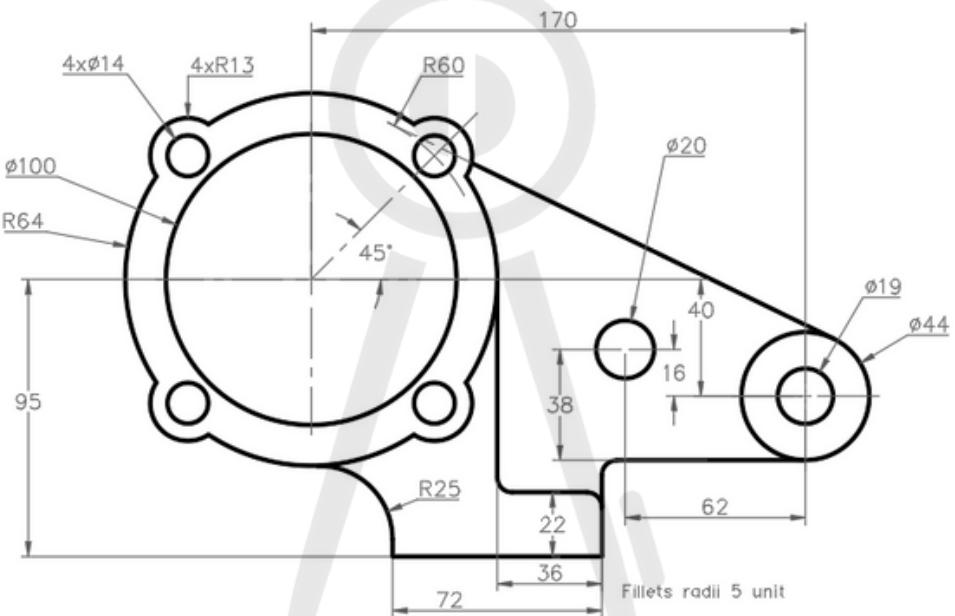
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2D Drawing -10

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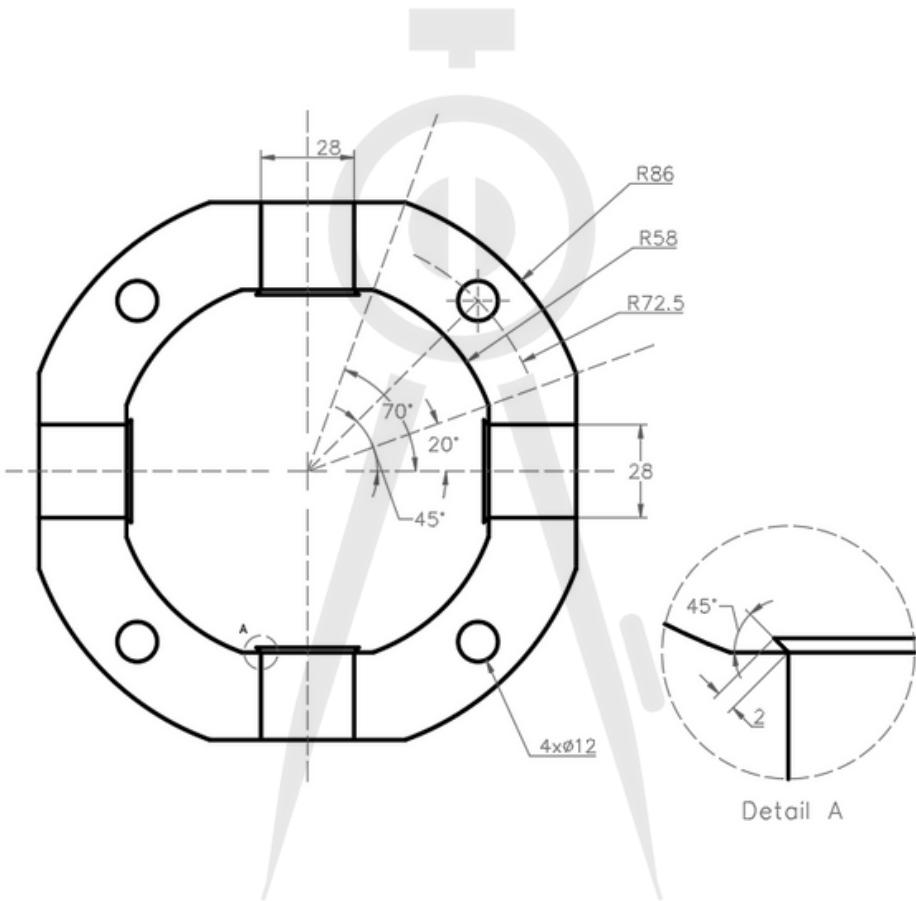


2D Drawing -11

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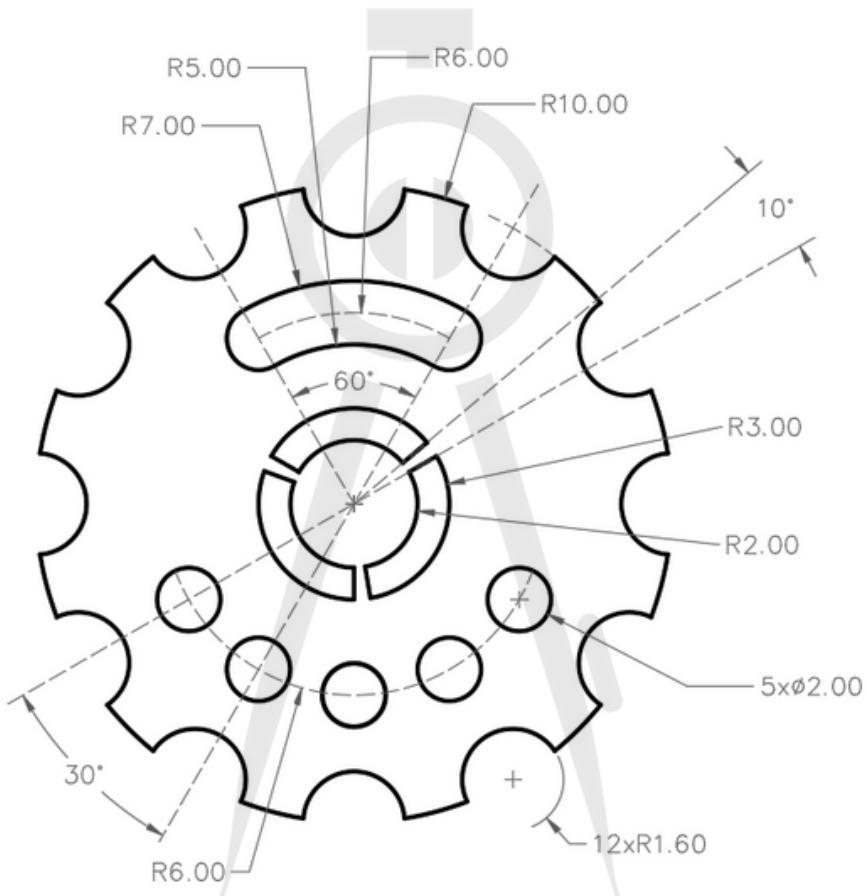
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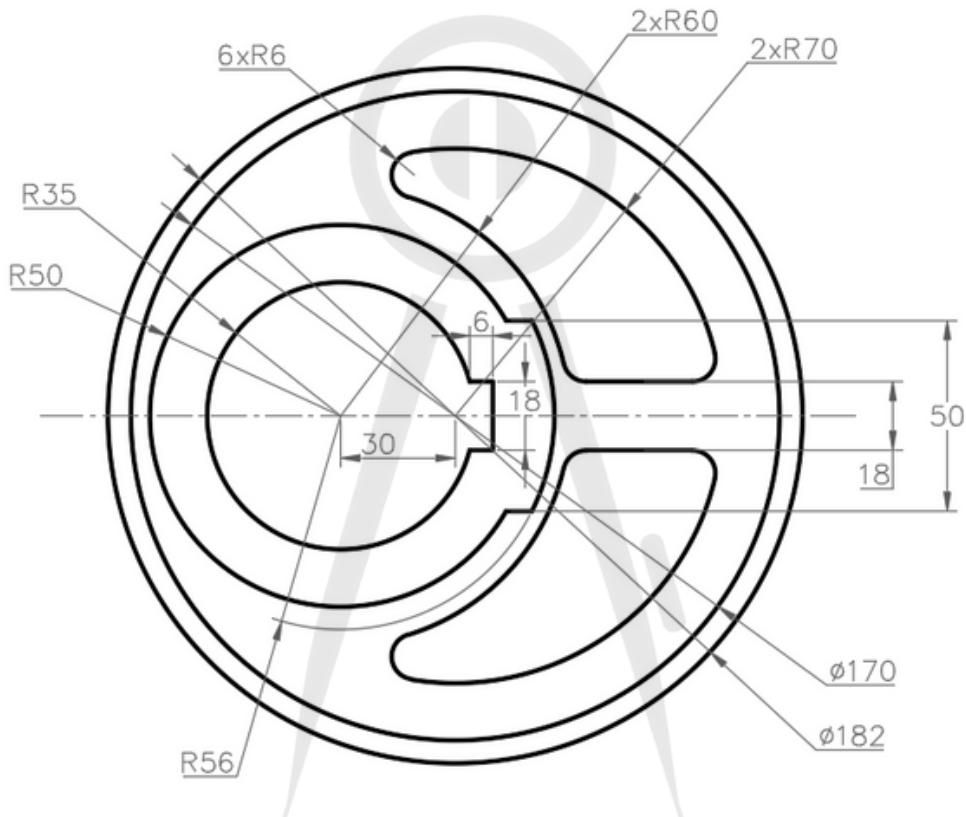
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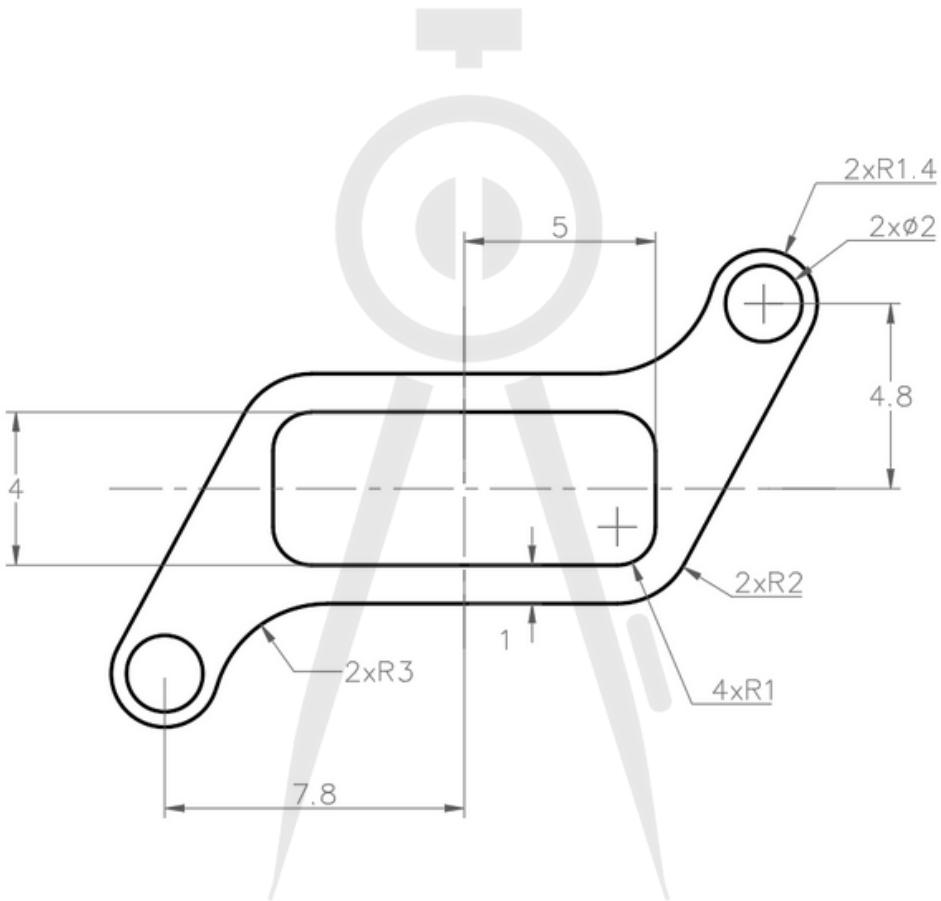
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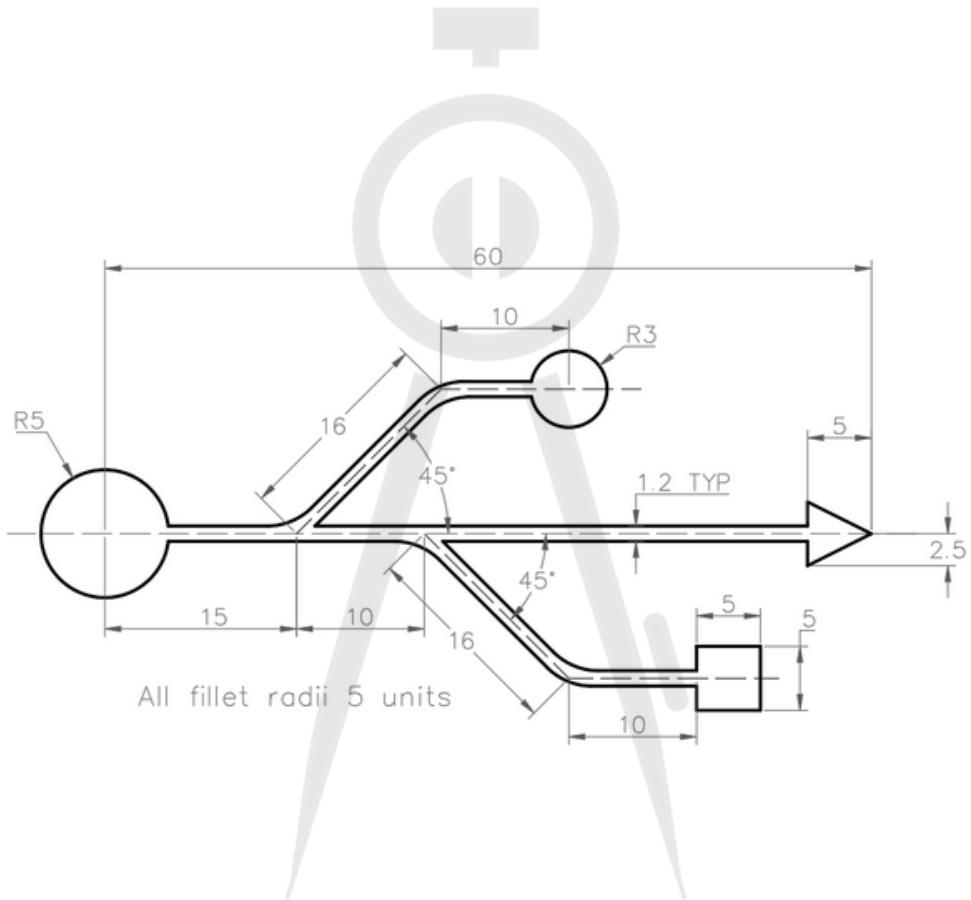
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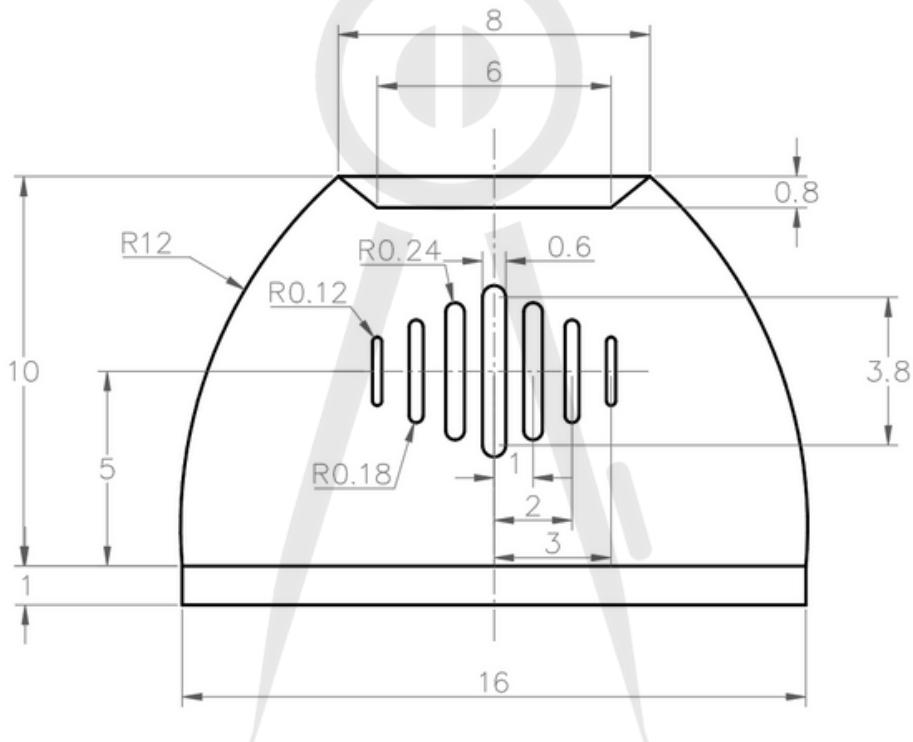
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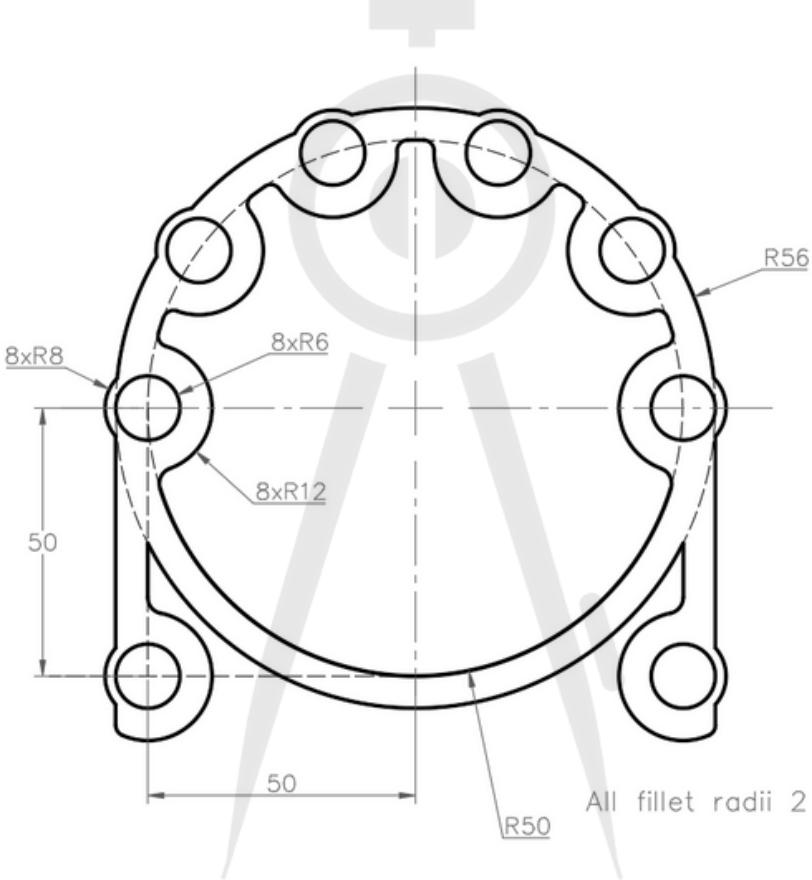
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2D Drawing -17

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2D Drawings



2D Drawing -18

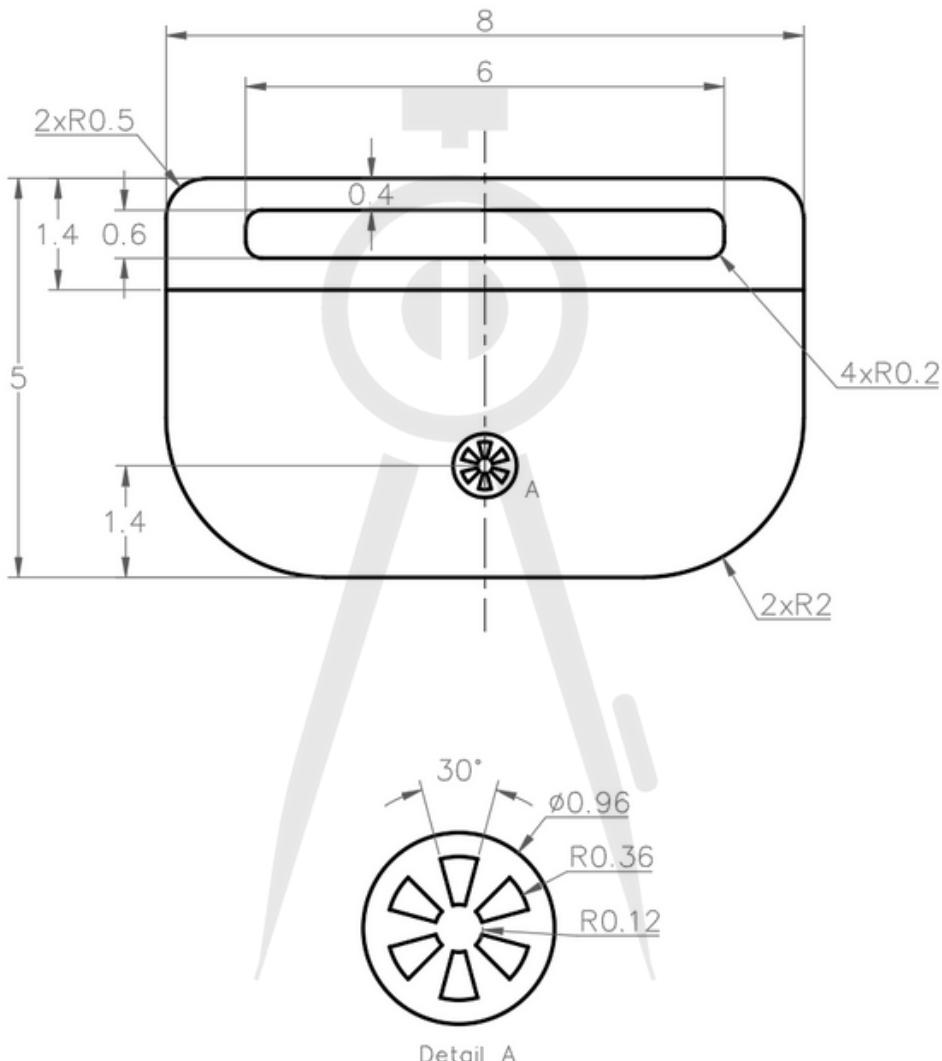
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2D and 3D Practice drawings



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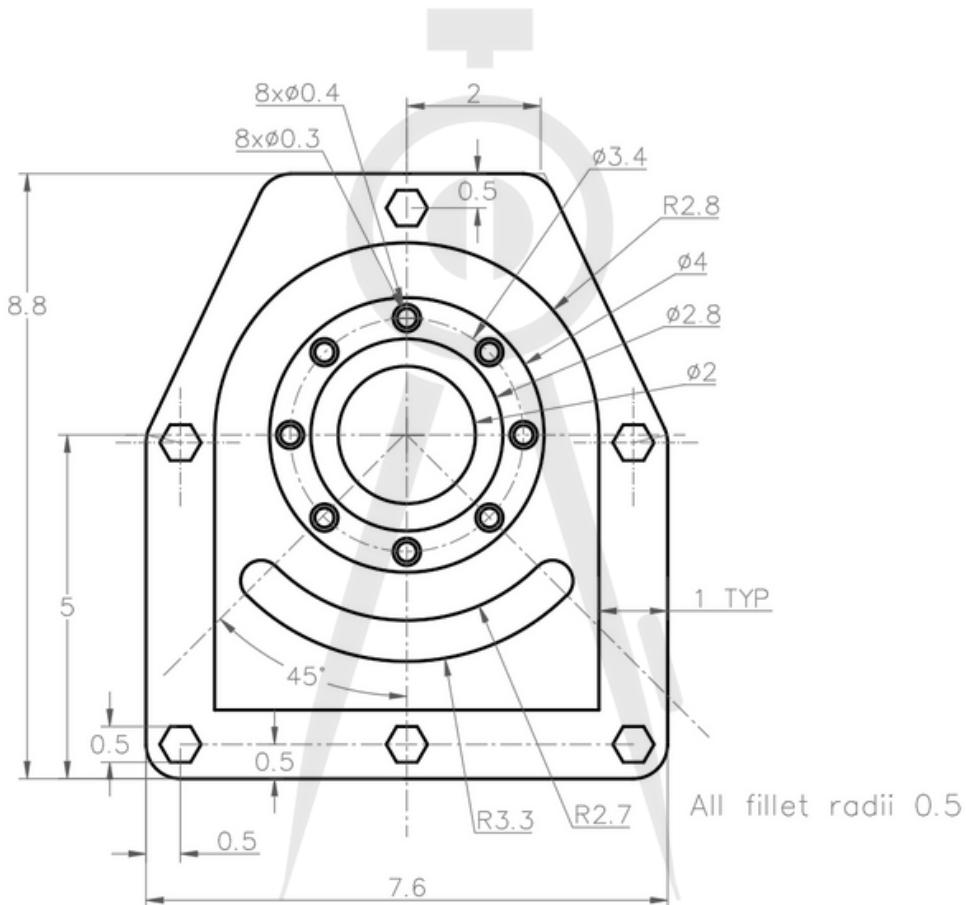
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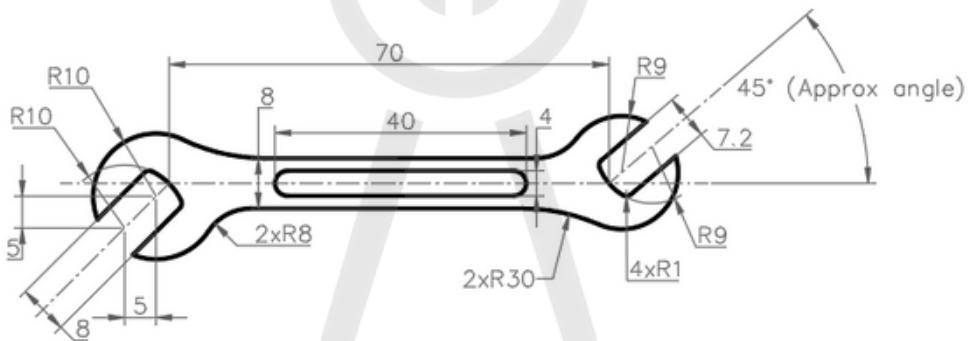
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2D and 3D Practice drawings

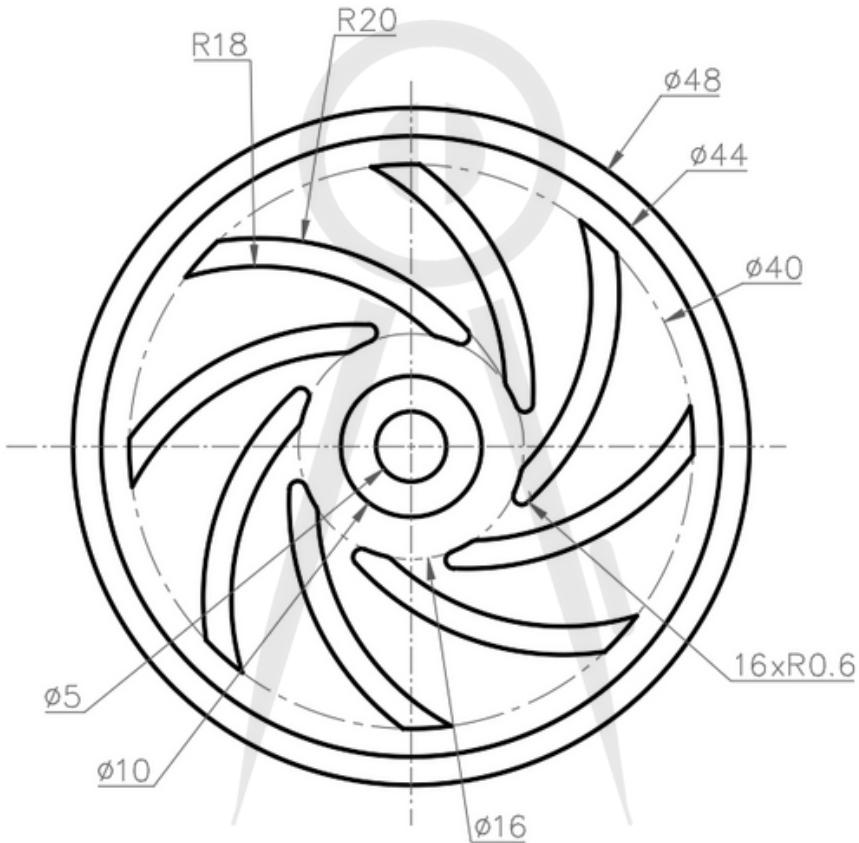
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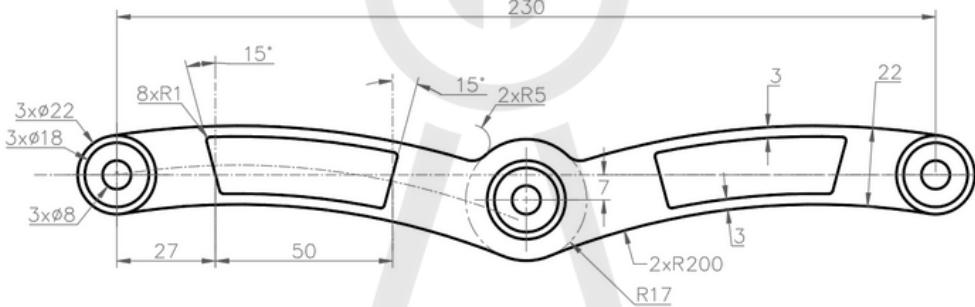


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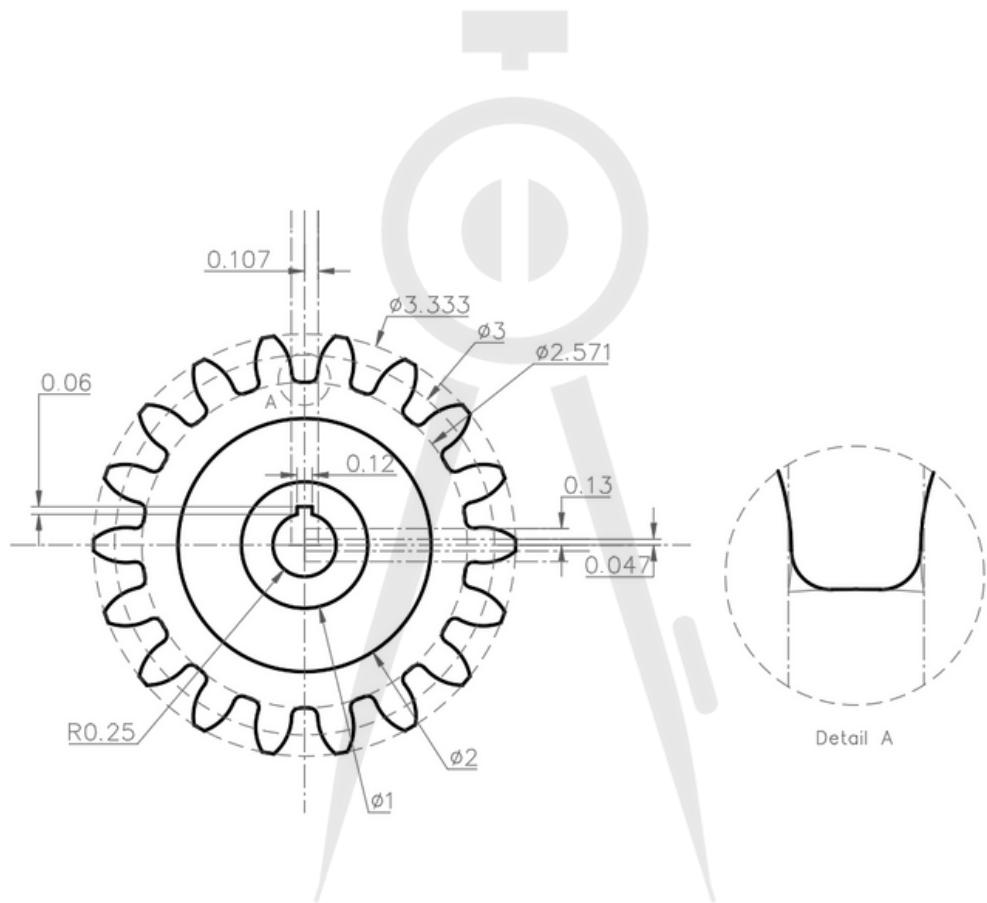
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2D Drawing -23

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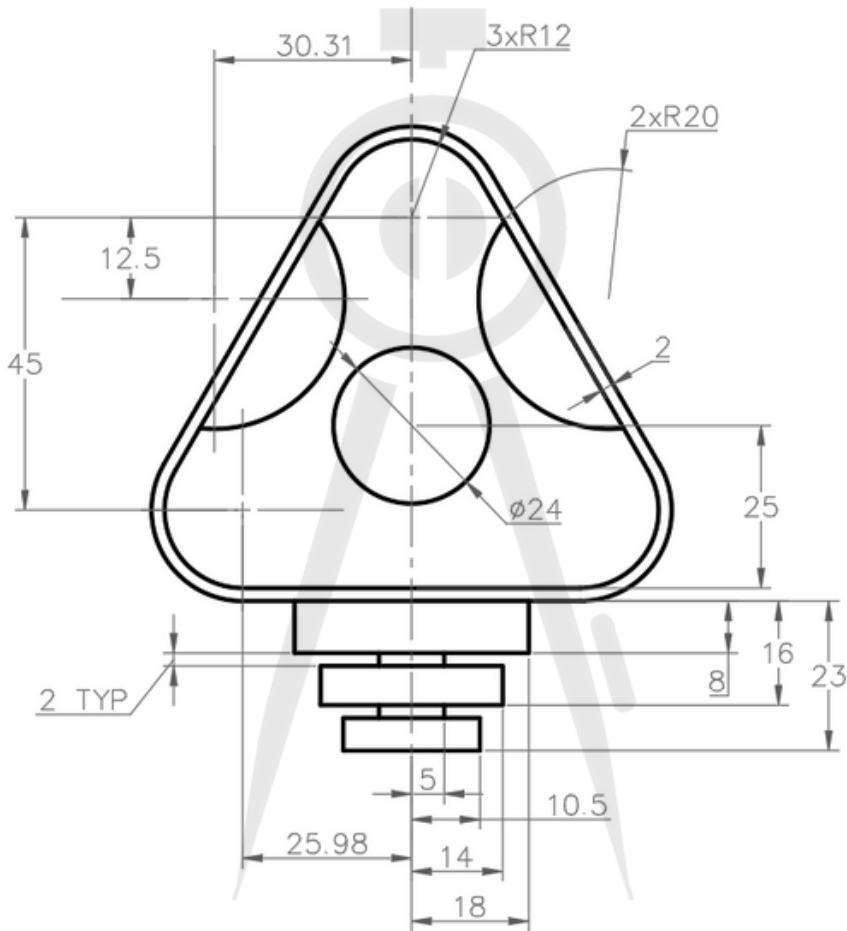
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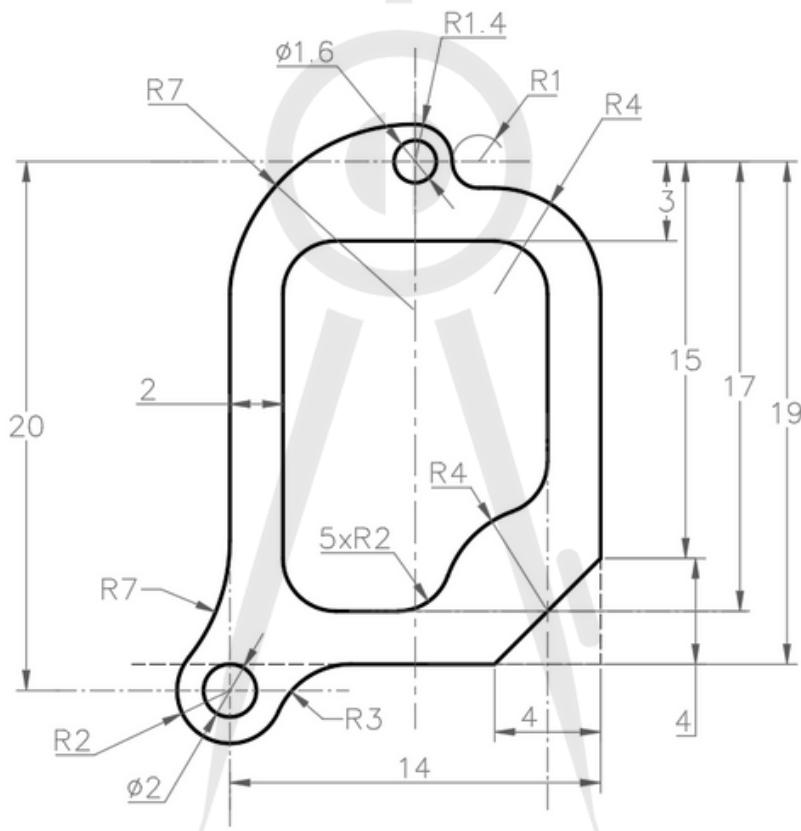
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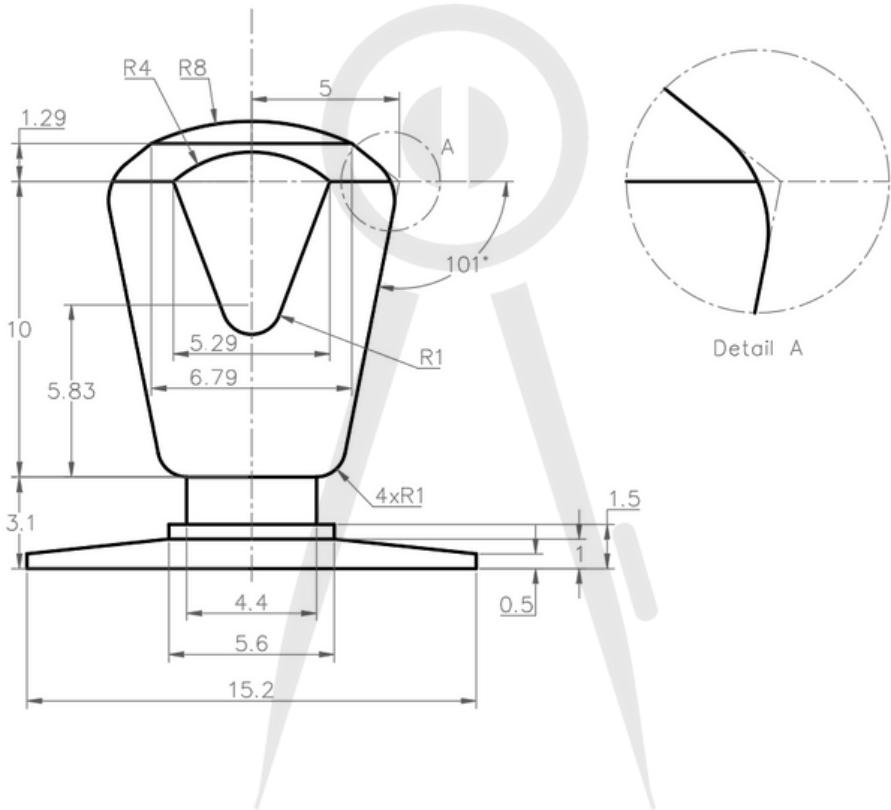
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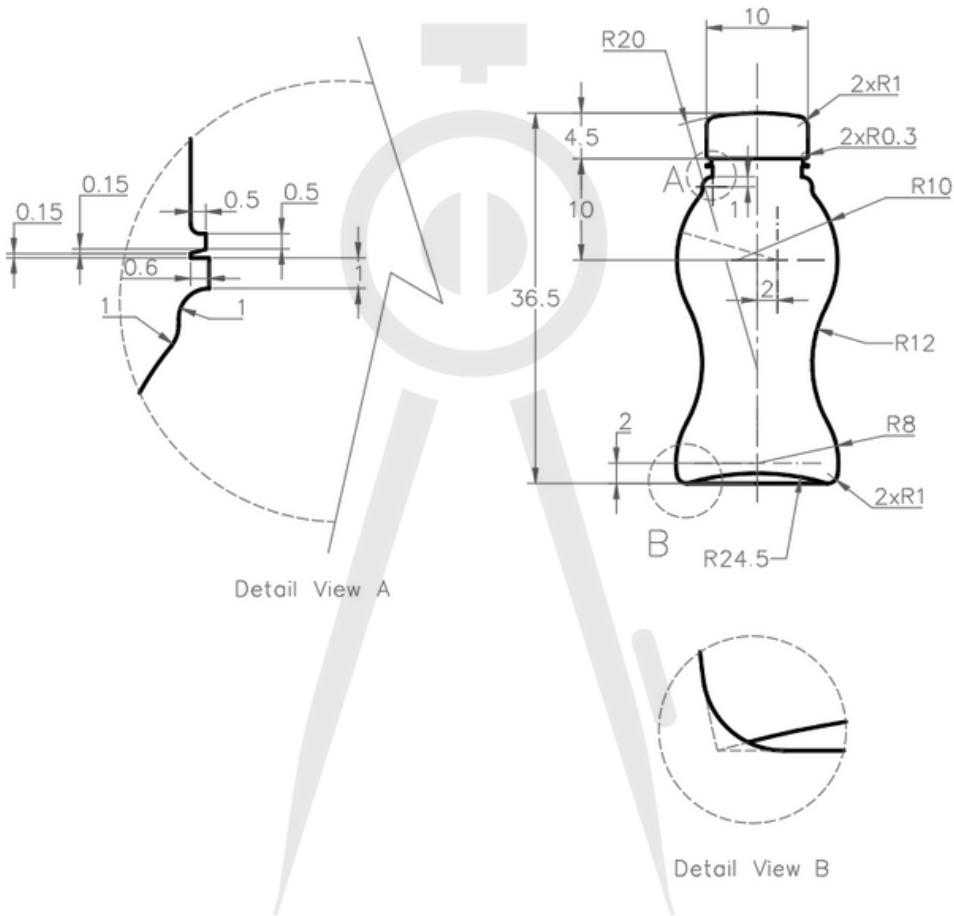
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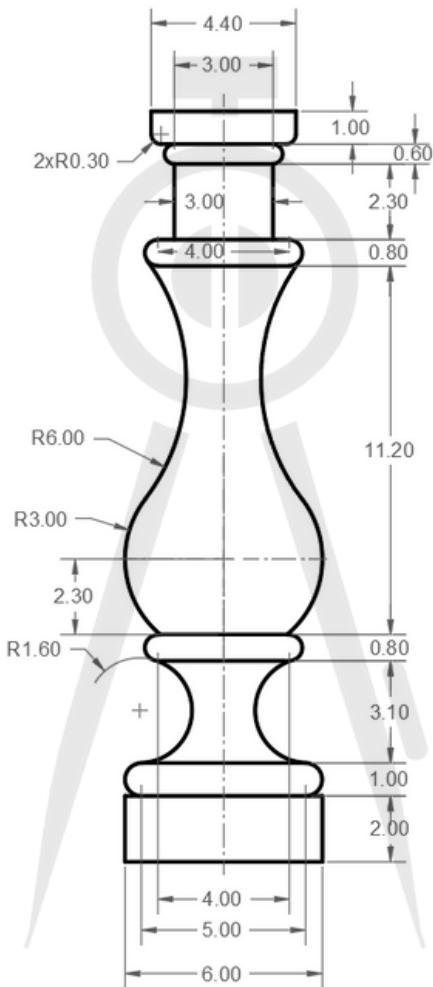


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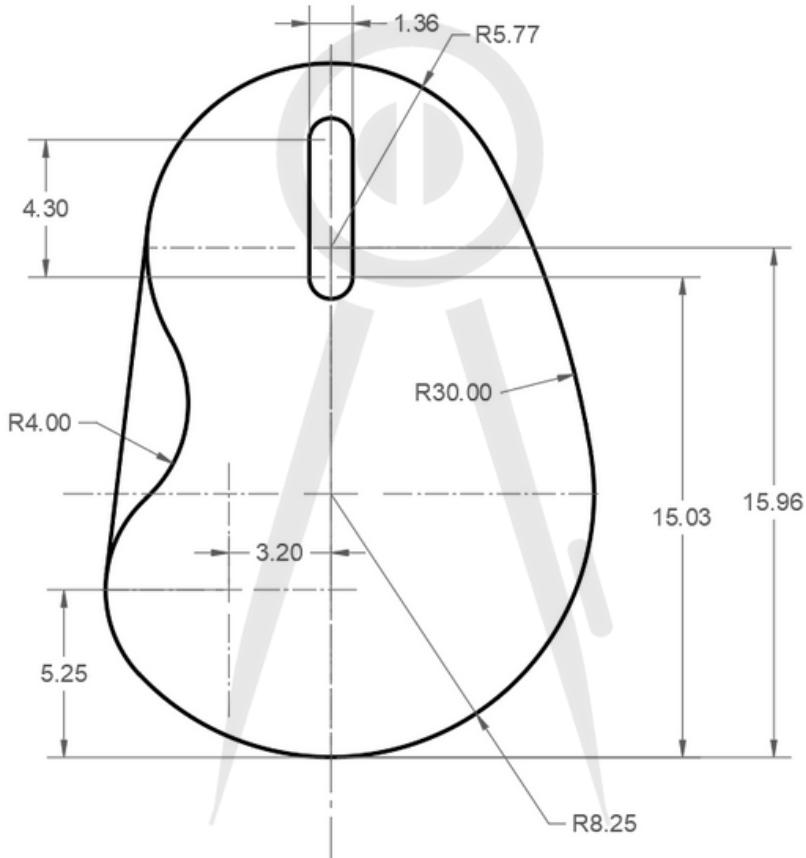
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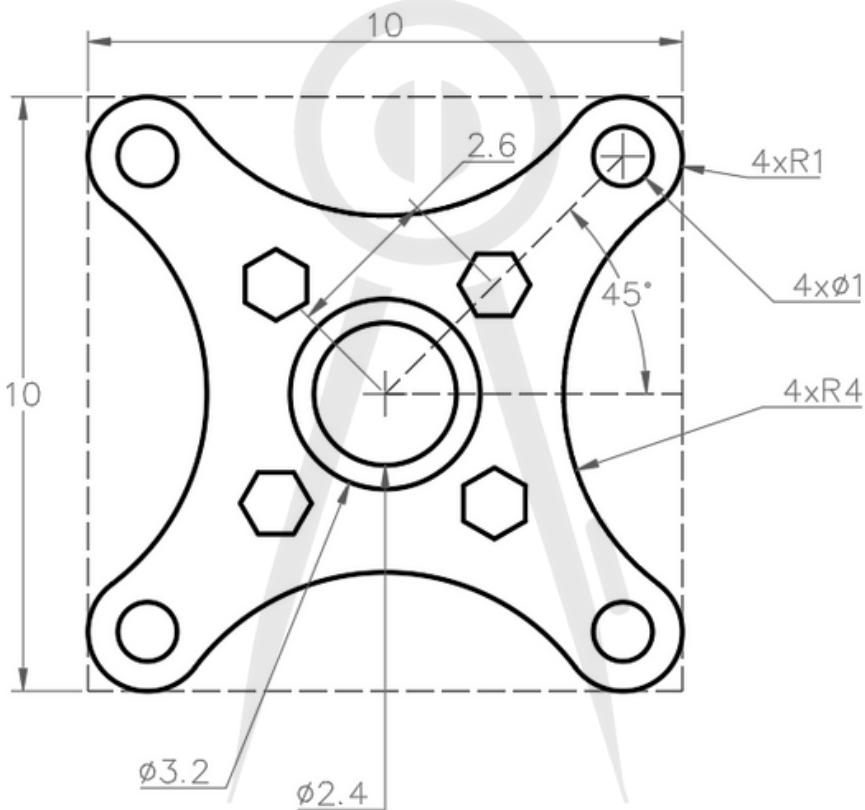
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2D Drawing -30

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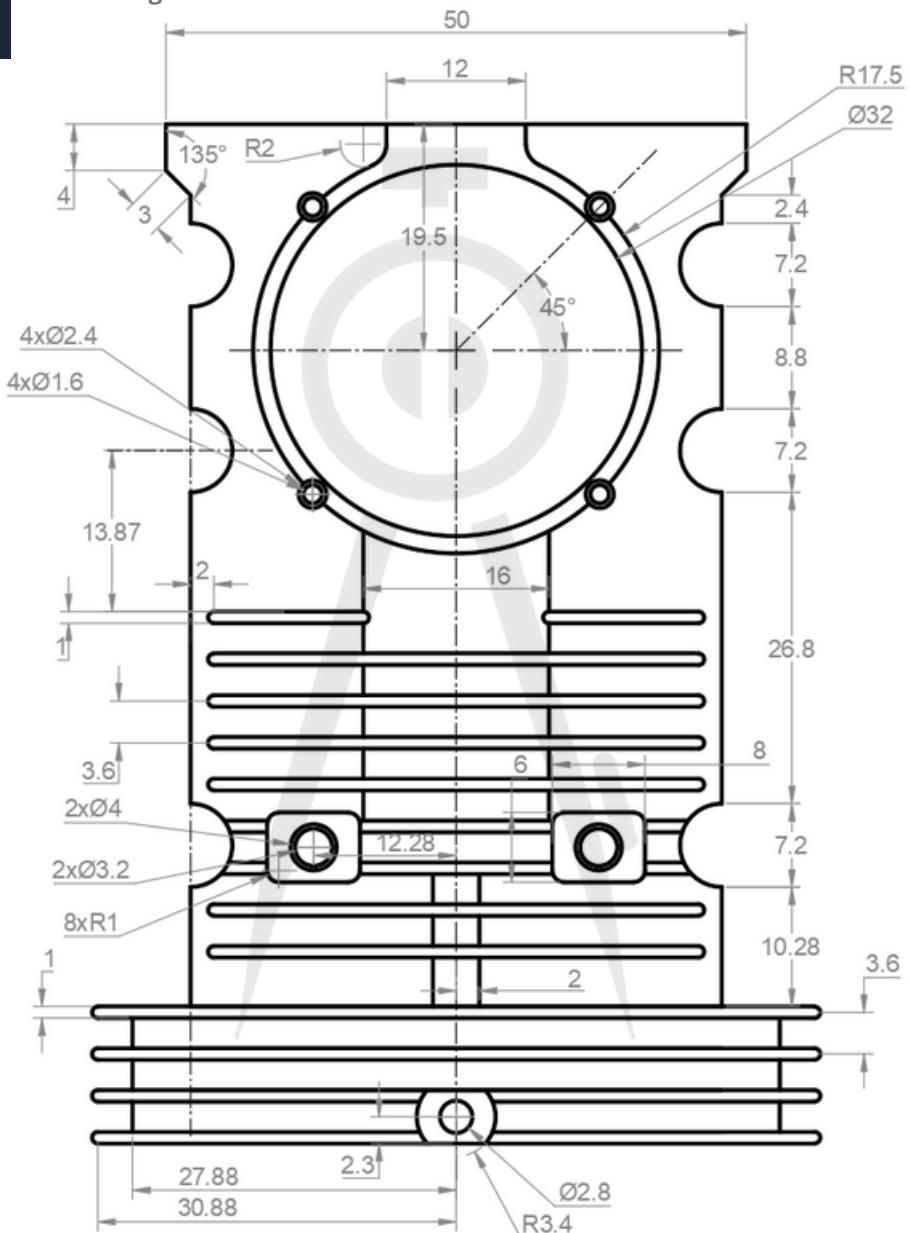


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2D and 3D Practice drawings

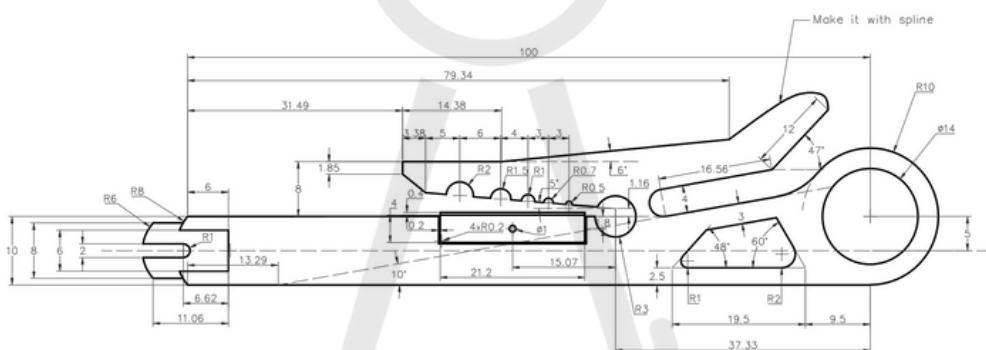
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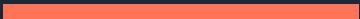


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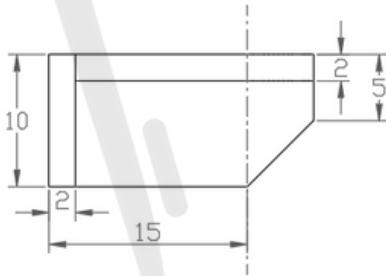
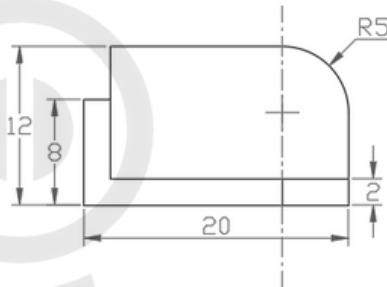
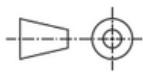
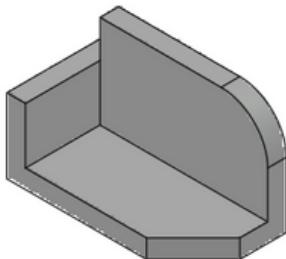
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02

3D PRACTICE DRAWINGS



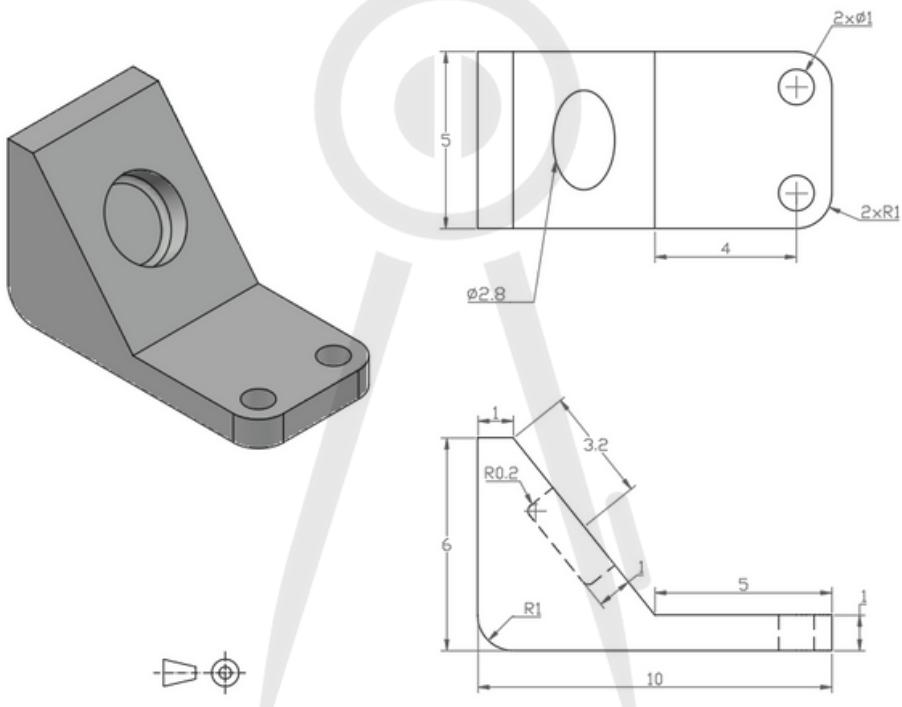
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3D Drawing -1

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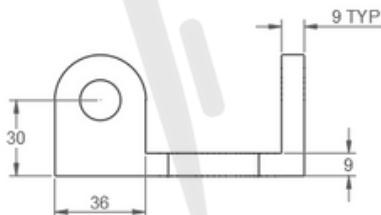
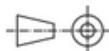
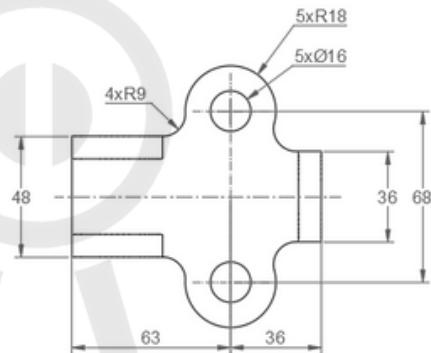
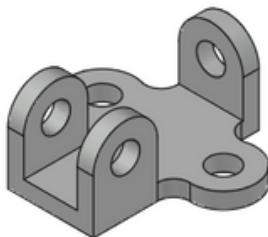
3D Drawings



3D Drawing -2

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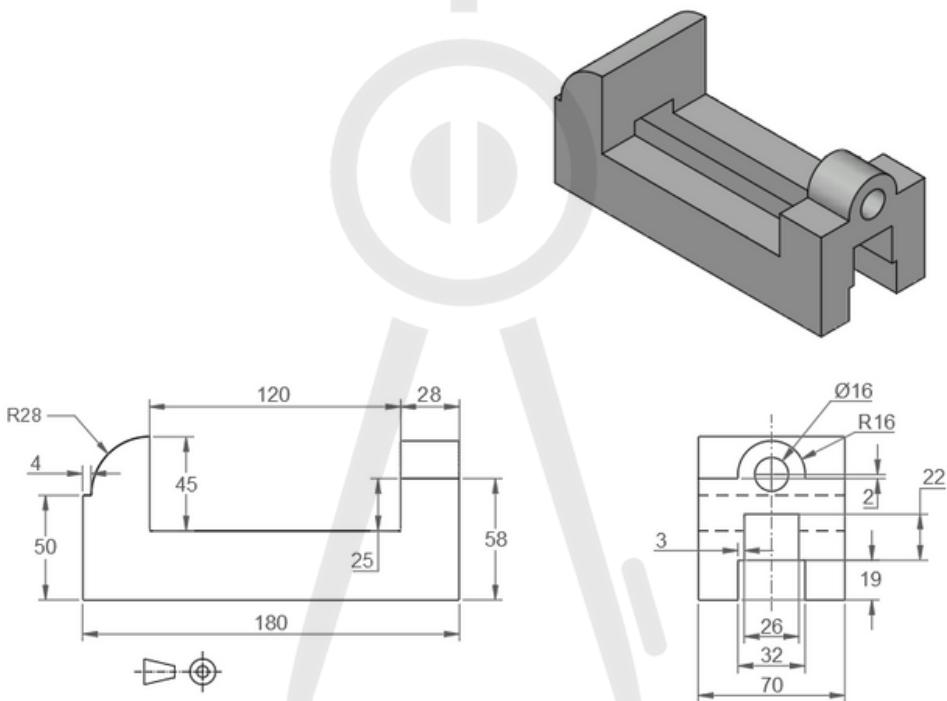


3D Drawing -3

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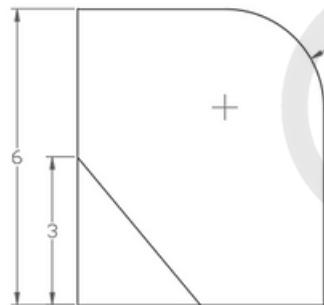
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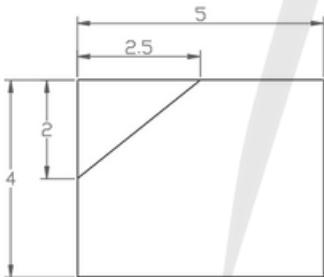
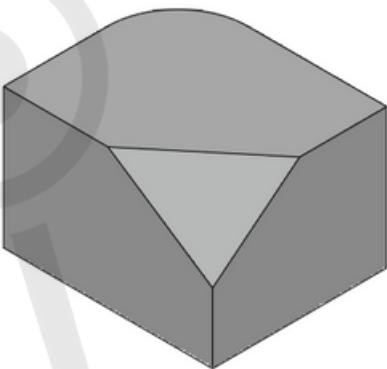
3D Drawing -4

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3D Drawings



R2



5

2.5

2

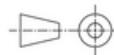
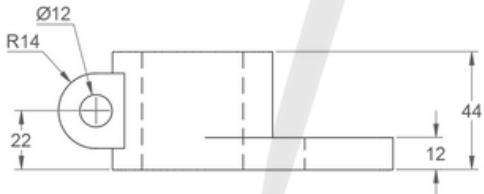
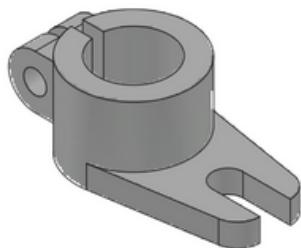
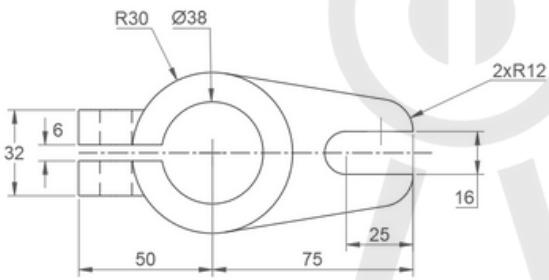
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3D Drawing -5

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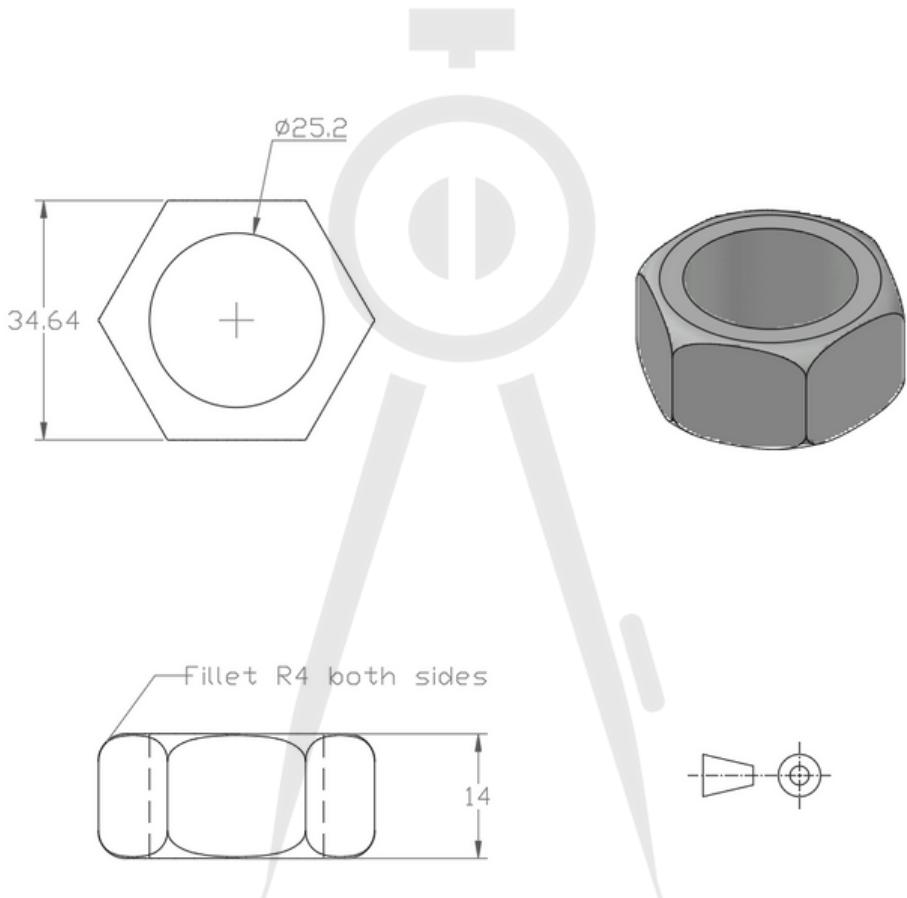
3D Drawings



3D Drawing -6

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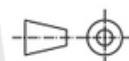
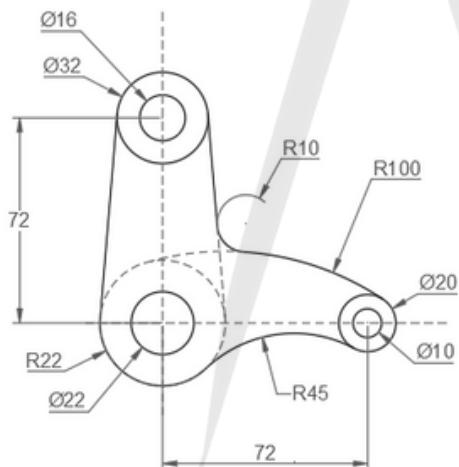
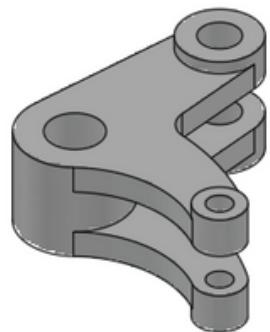
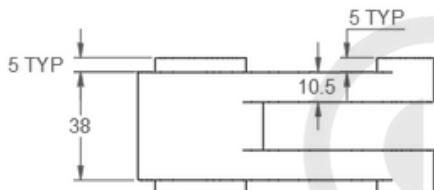


3D Drawing -7

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2D and 3D Practice drawings

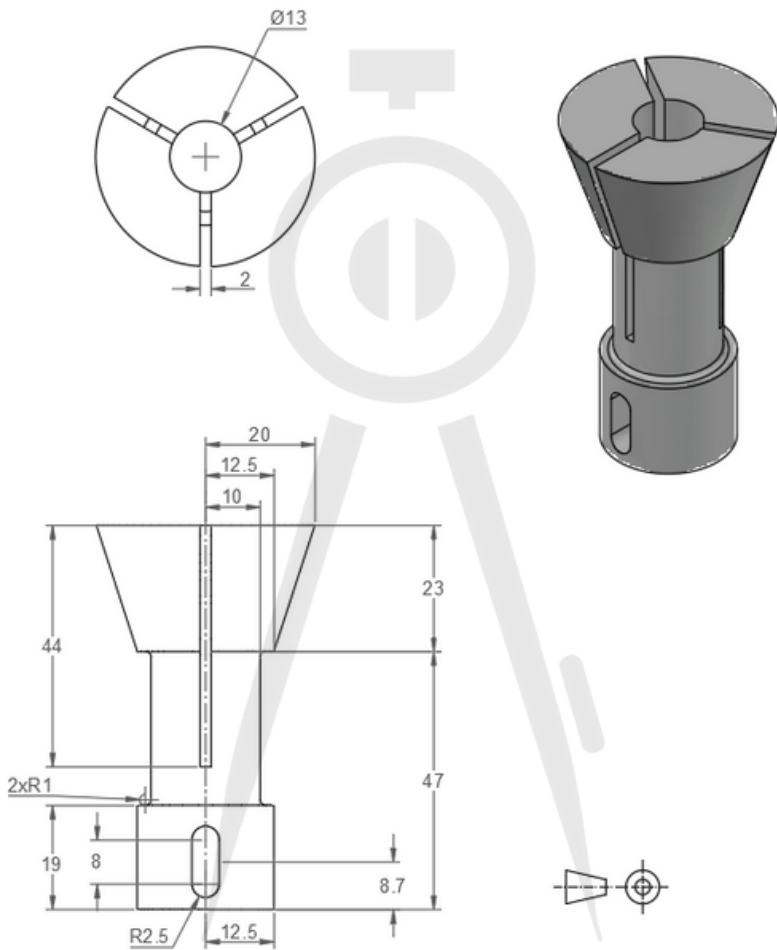
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3D Drawing -8

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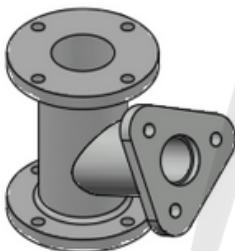
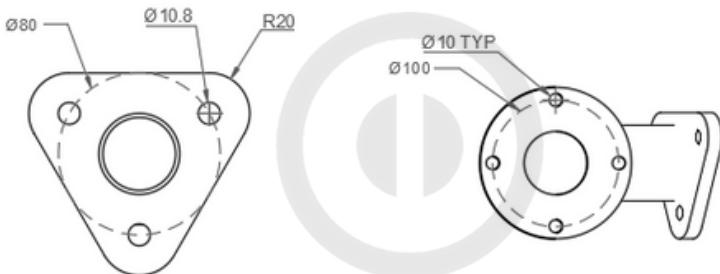
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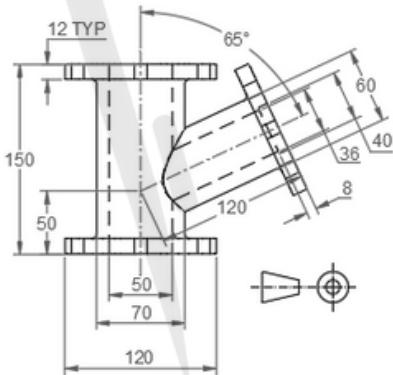
3D Drawing -9

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3D Drawings



All solid fillet radii 4unit



3D Drawing -10

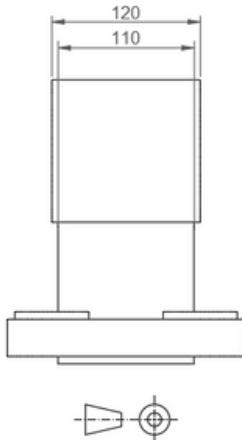
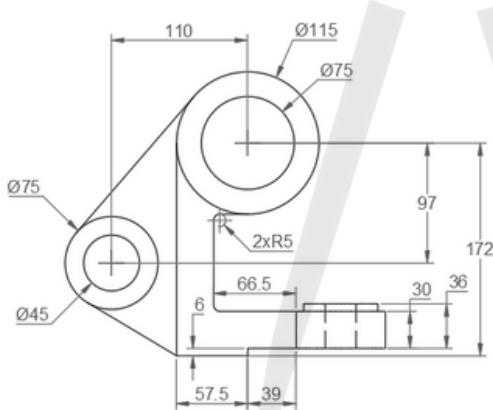
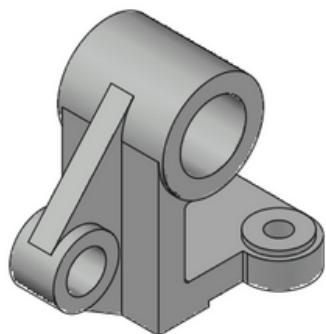
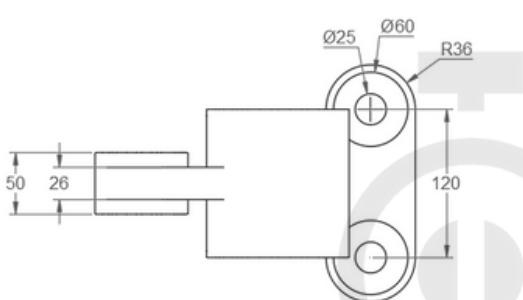
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2D and 3D Practice drawings



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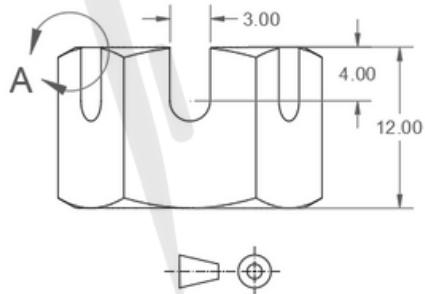
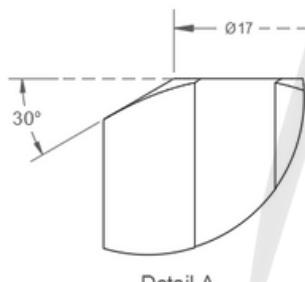
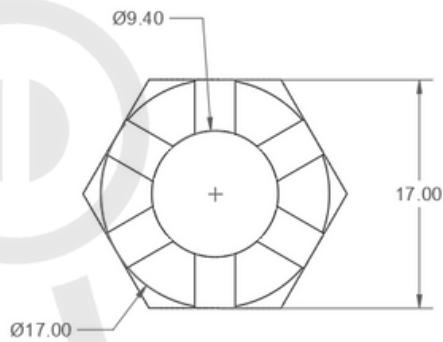
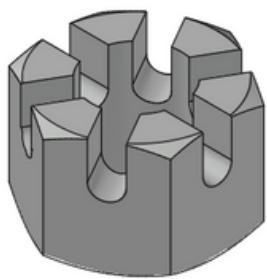


3D Drawing -11

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2D and 3D Practice drawings

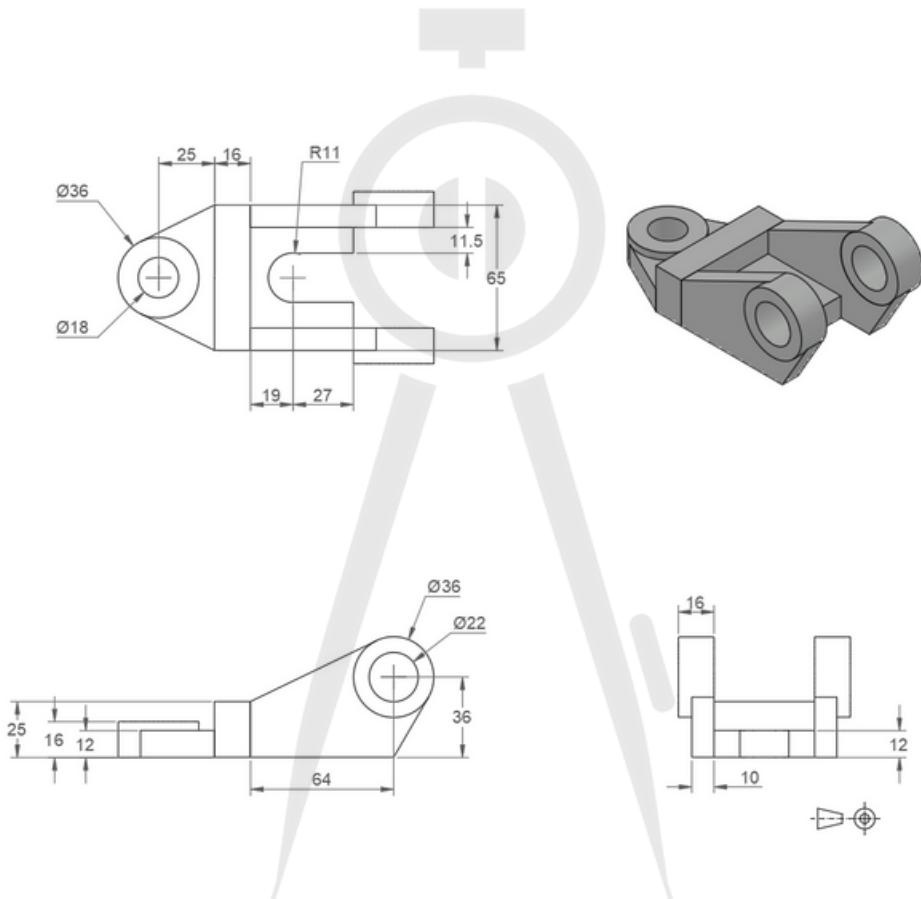
3D Drawings



3D Drawing -12

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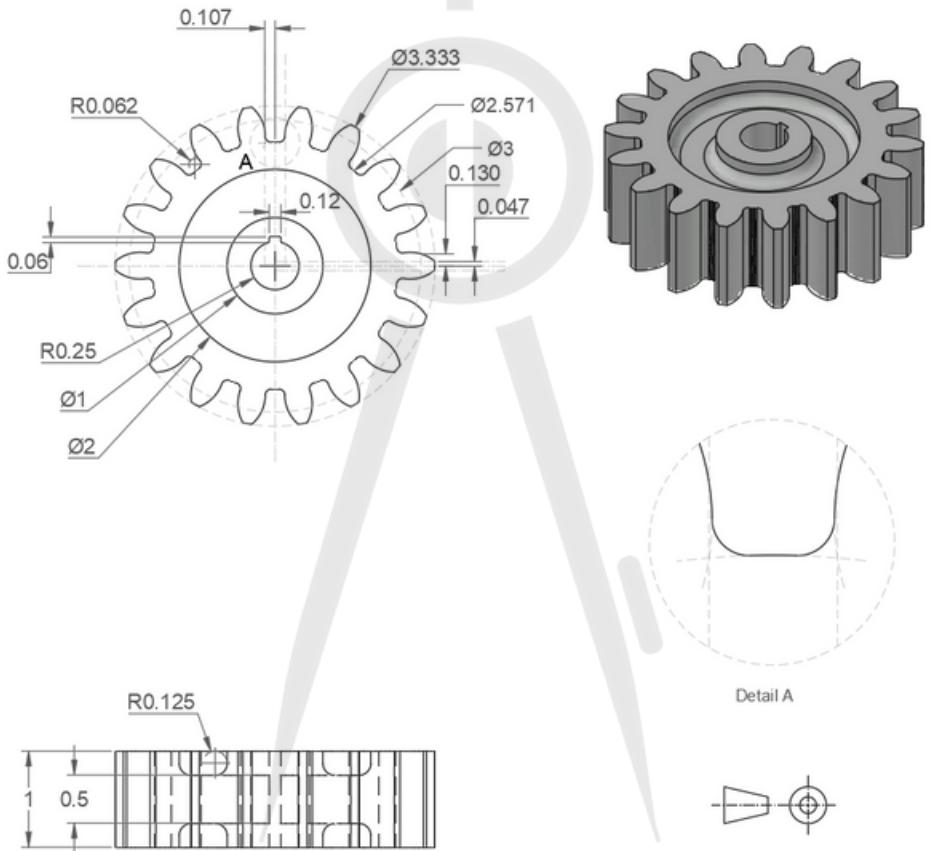
3D Drawings



3D Drawing -13

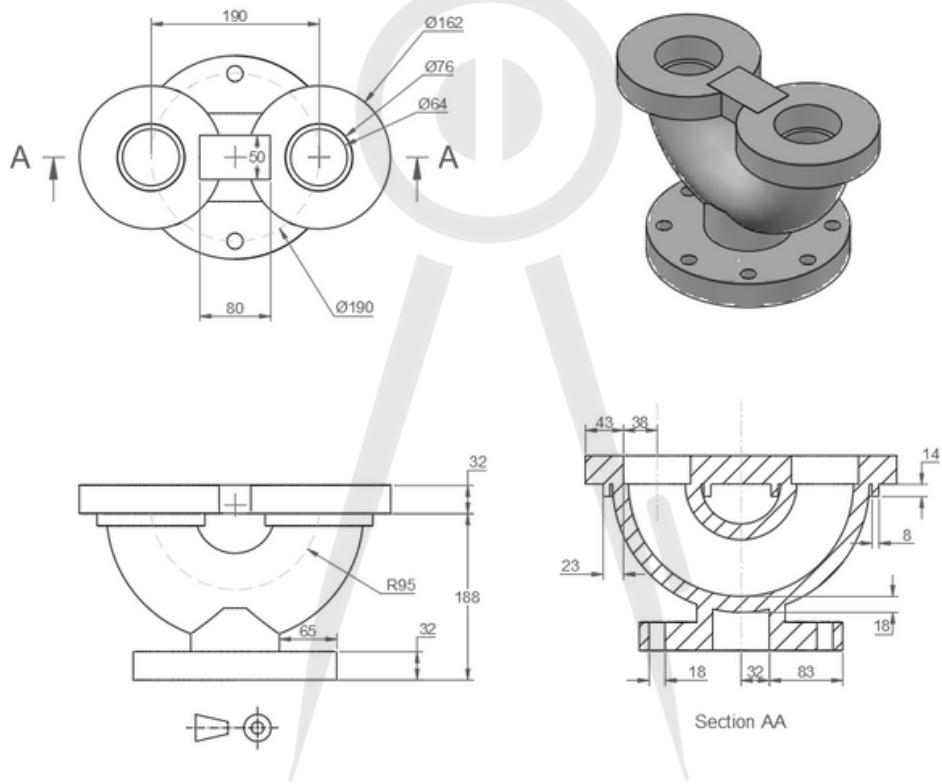
Learn to make this drawing

3D Drawings



Learn to make this drawing

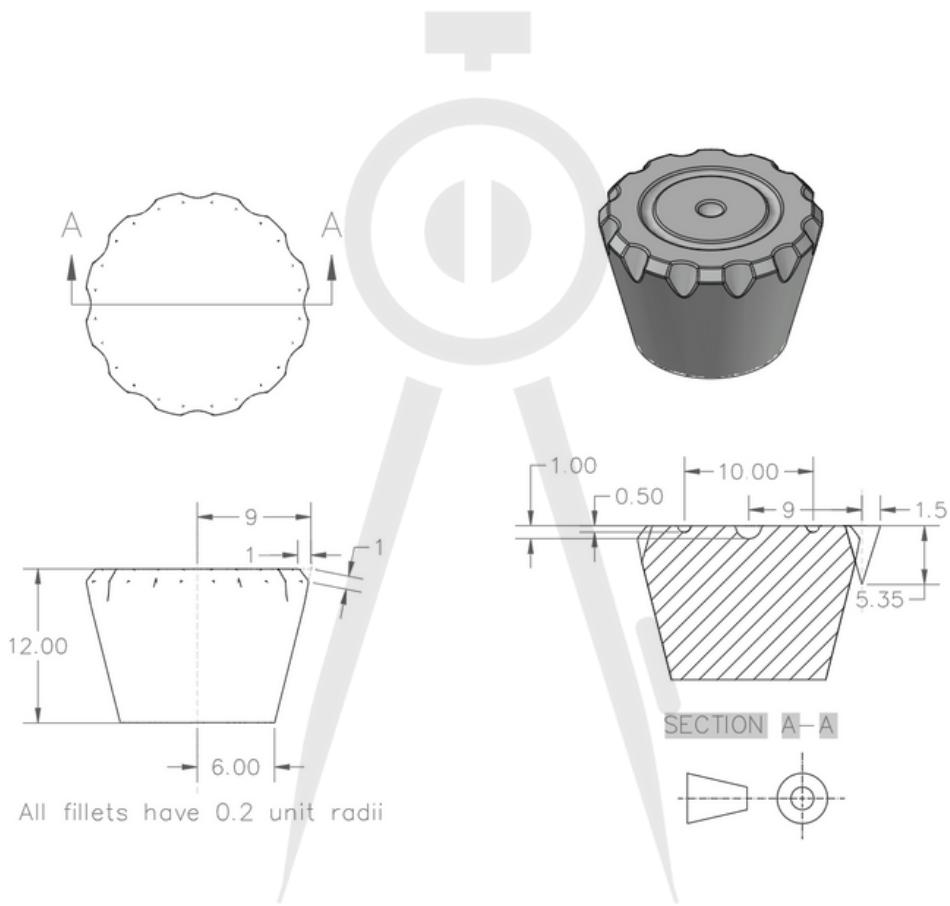
3D Drawings



3D Drawing -15

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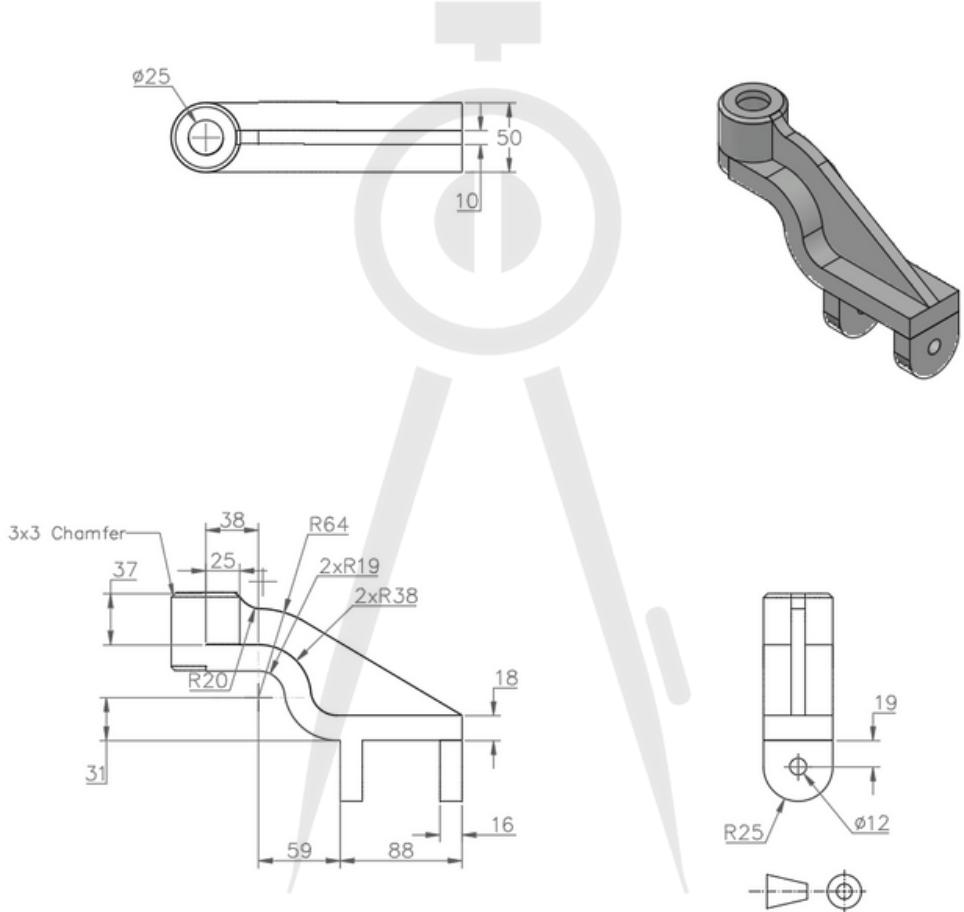
3D Drawings



3D Drawing -16

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3D Drawings



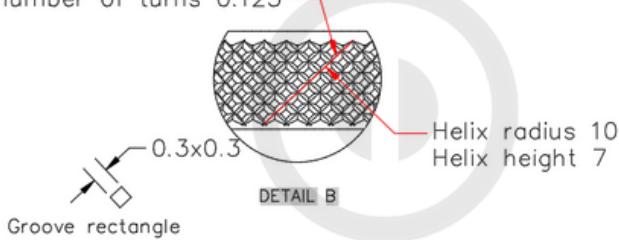
3D Drawing -17

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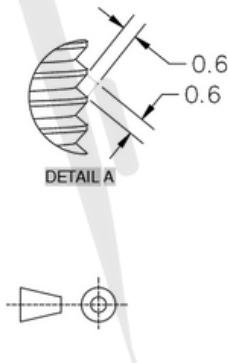
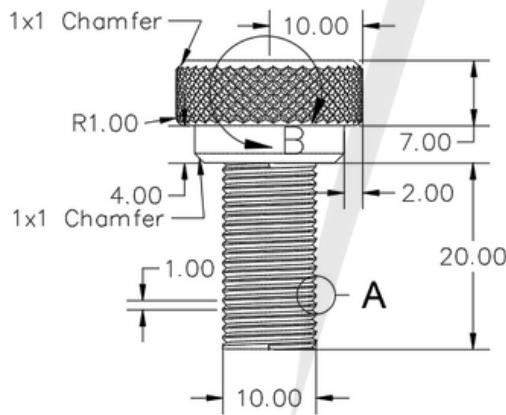
2D and 3D Practice drawings

3D Drawings

Helix number of turns 0.125



Number of grooves 38 in one direction



3D Drawing -18

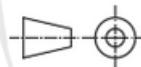
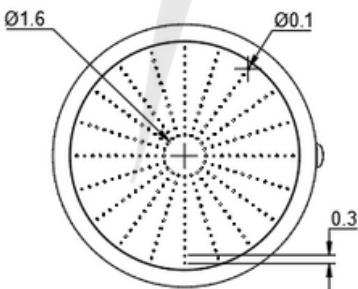
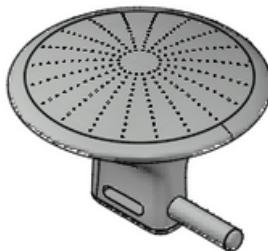
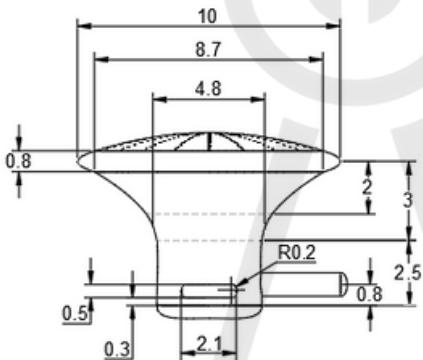
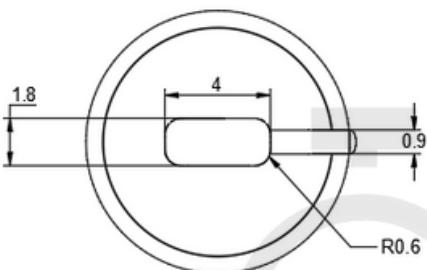
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2D and 3D Practice drawings



SOURCECAD

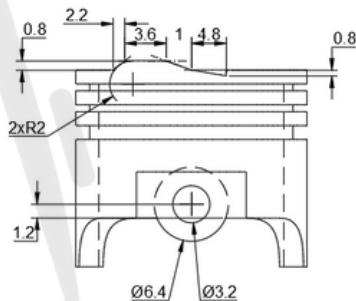
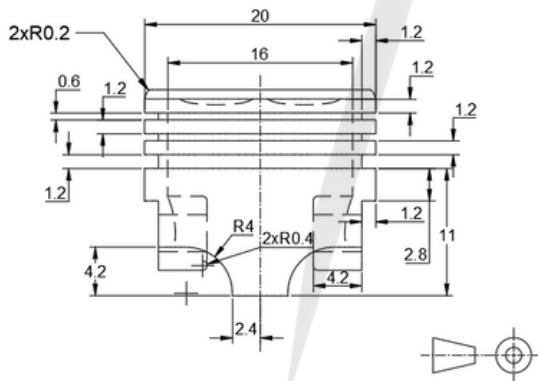
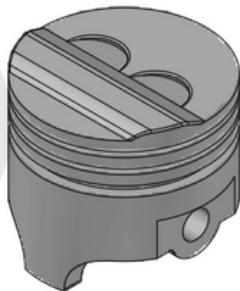
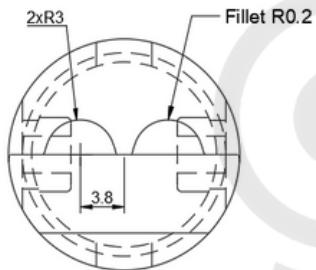
3D Drawings



3D Drawing -19

Learn to make this drawing

3D Drawings



3D Drawing -20

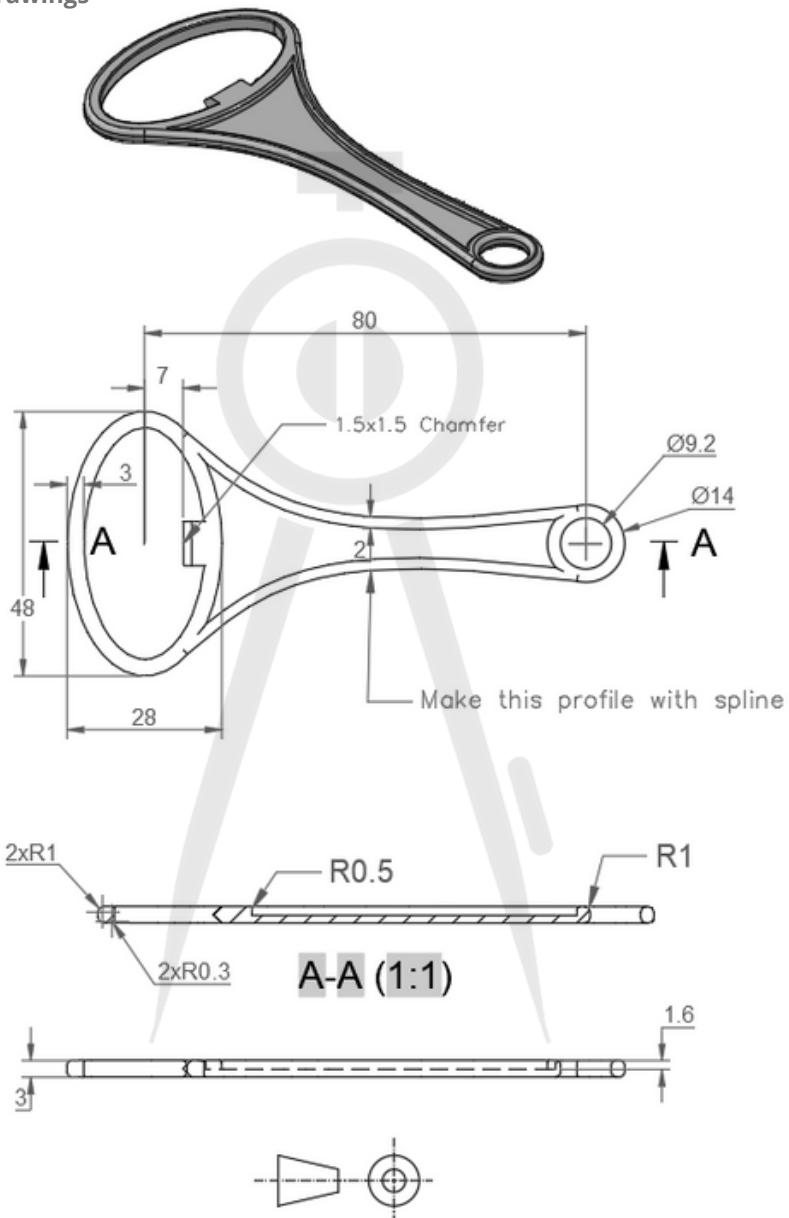
Learn to make this drawing

2D and 3D Practice drawings



SOURCECAD

3D Drawings



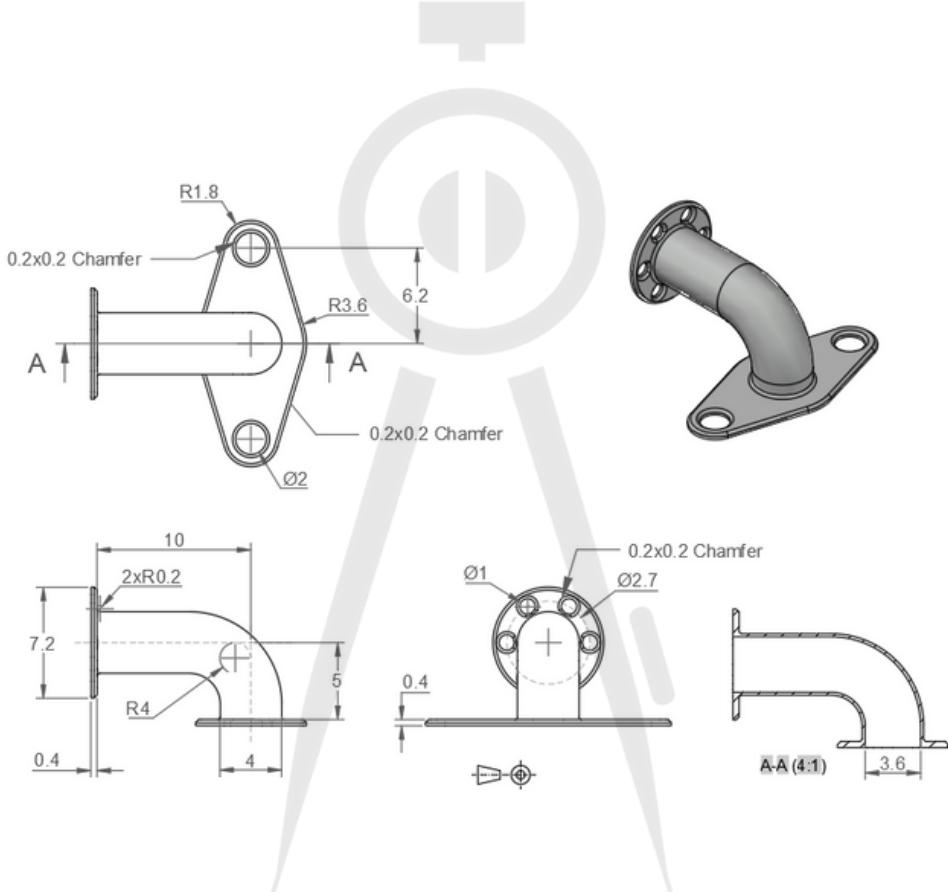
3D Drawing -21

Learn to make this drawing



2D and 3D Practice drawings

3D Drawings



3D Drawing -22

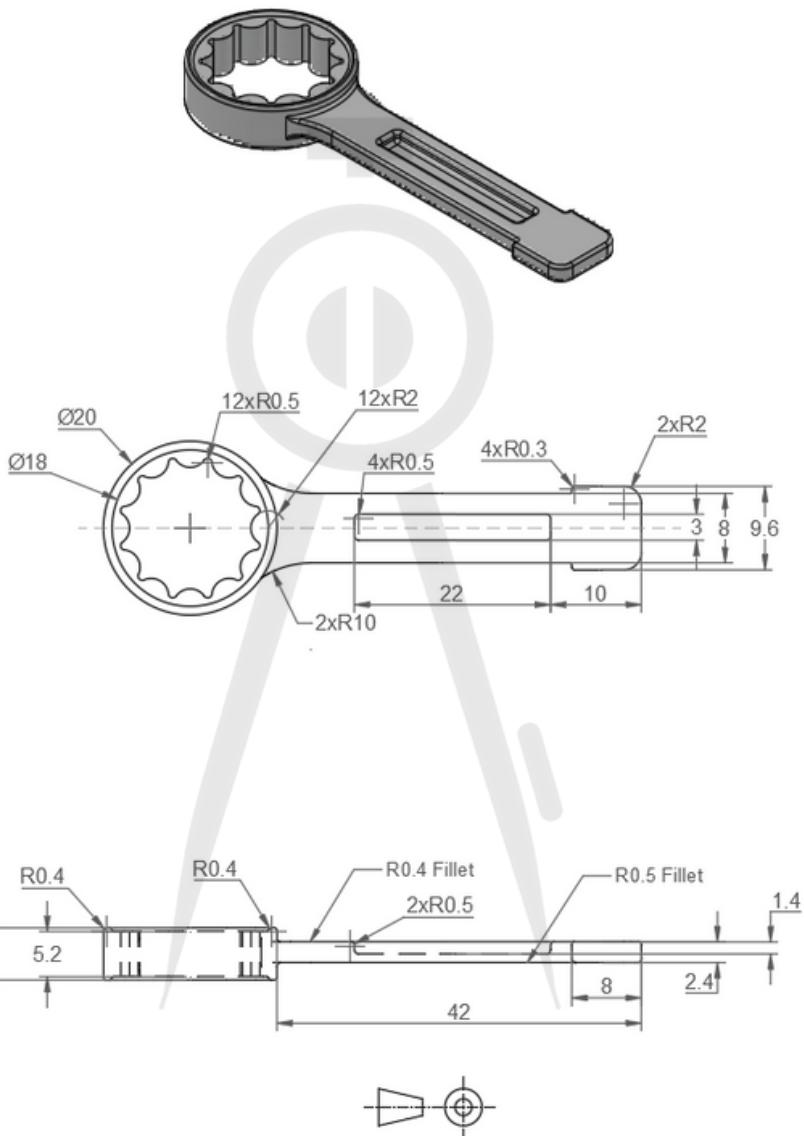
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2D and 3D Practice drawings



SOURCECAD

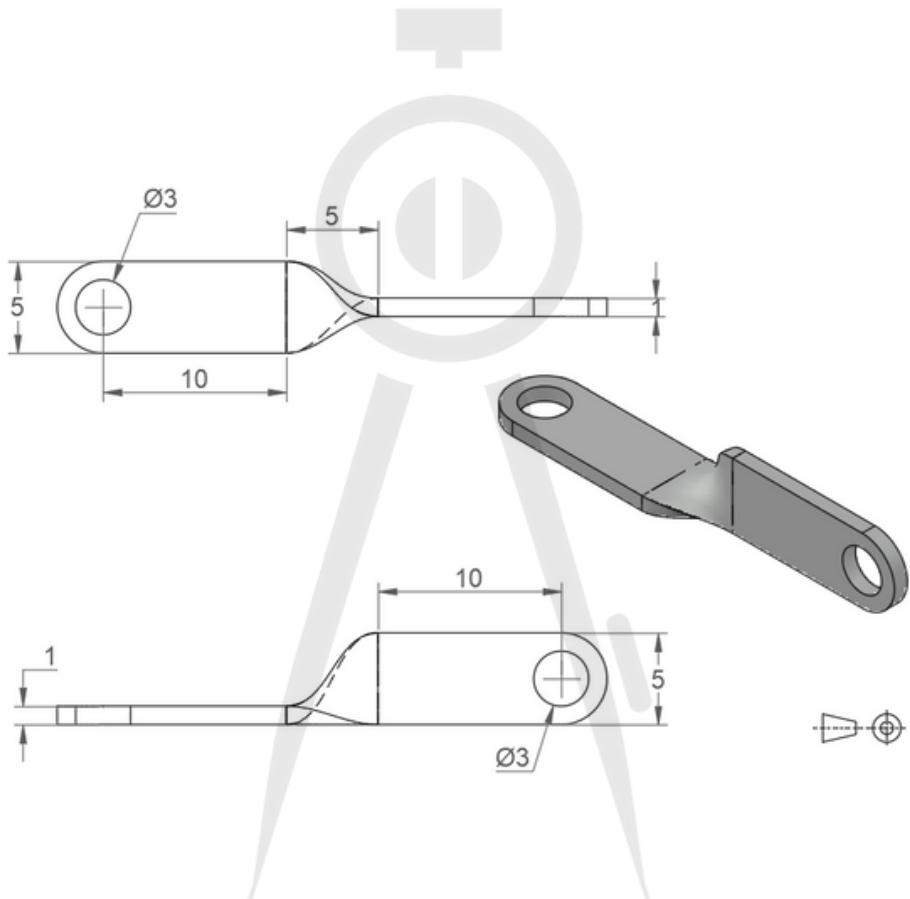
3D Drawings



3D Drawing -23

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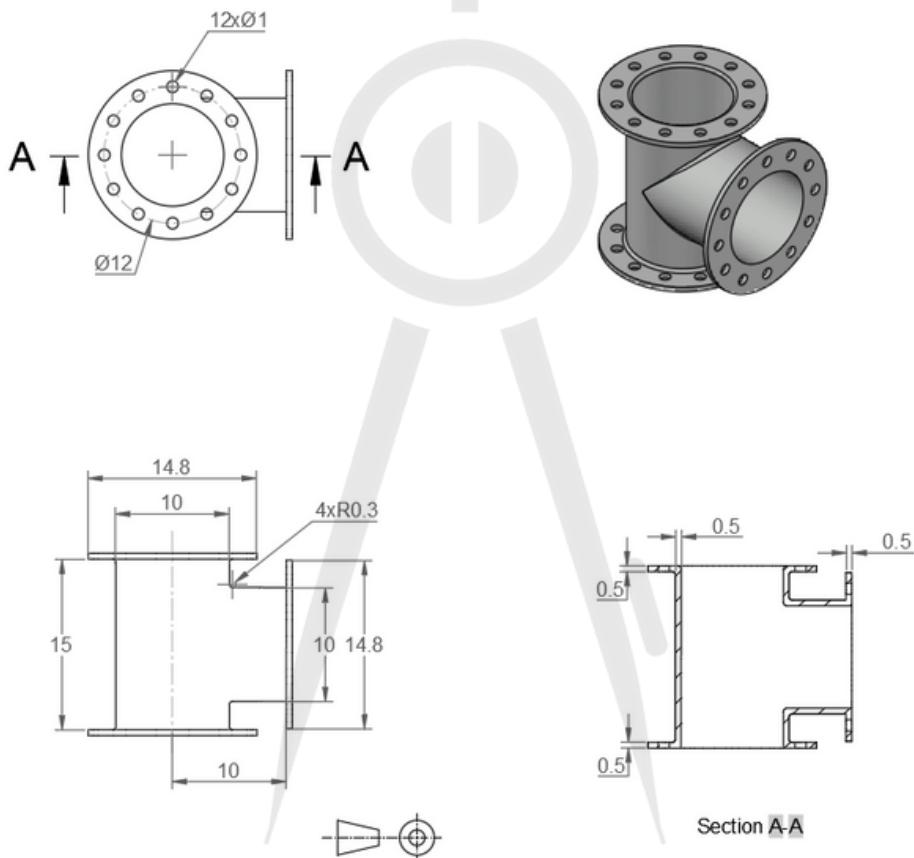
3D Drawings



3D Drawing -24

Learn to make this drawing

3D Drawings



3D Drawing -25

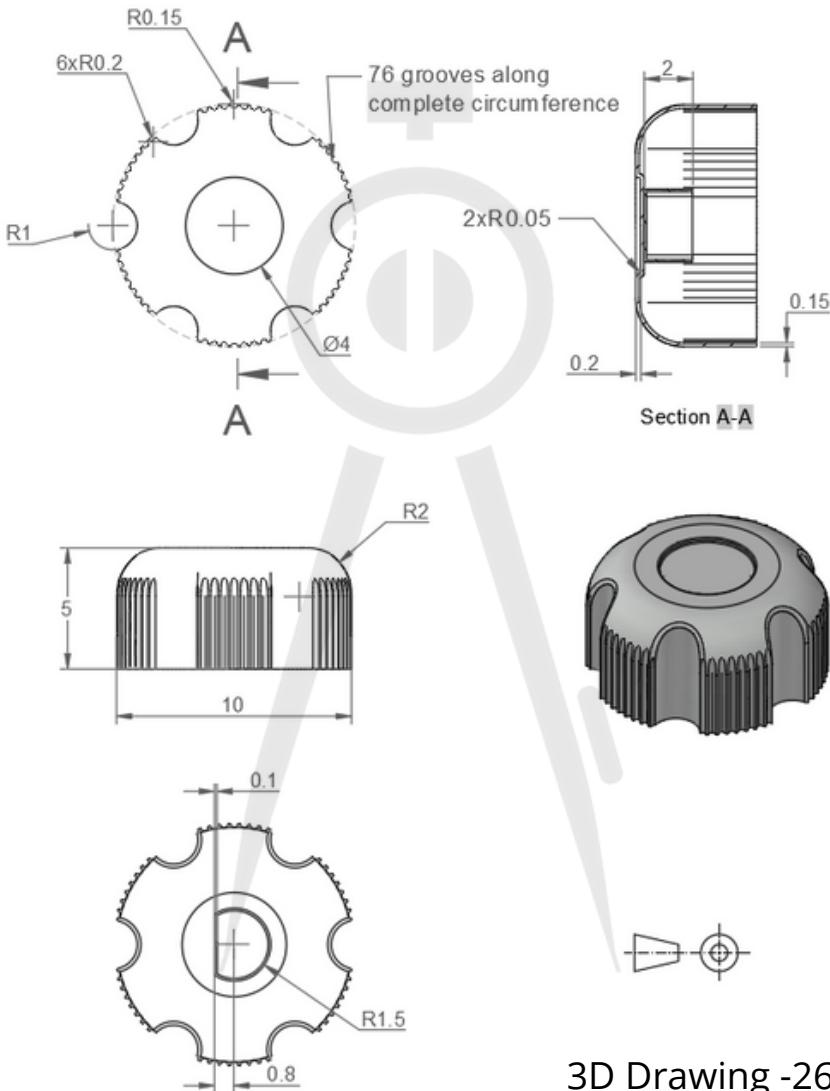
Learn to make this drawing

2D and 3D Practice drawings



SOURCECAD

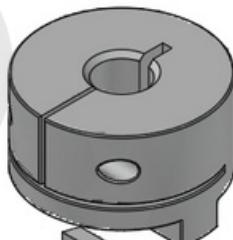
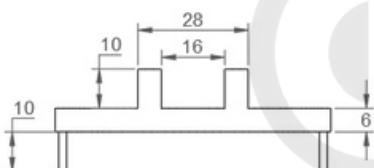
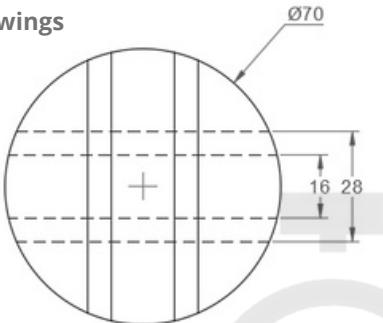
3D Drawings



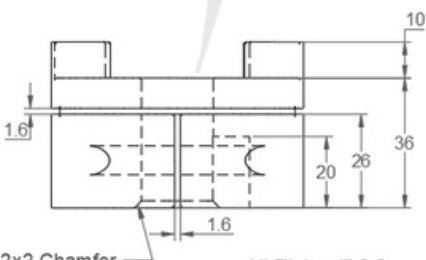
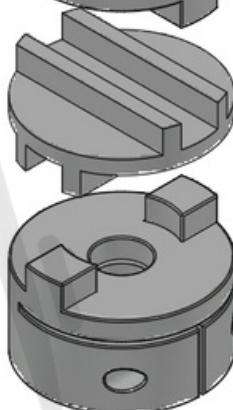
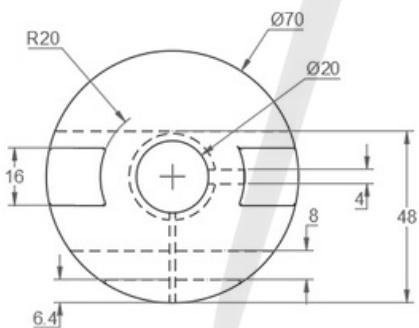
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2D and 3D Practice drawings

3D Drawings



Intermediate flange of Oldham coupling



2x2 Chamfer All fillet radii 0.6

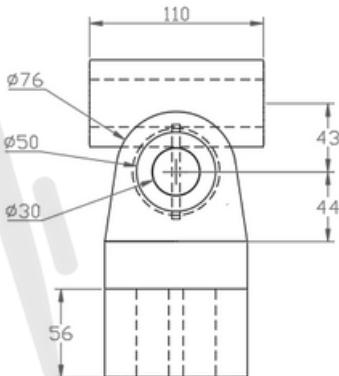
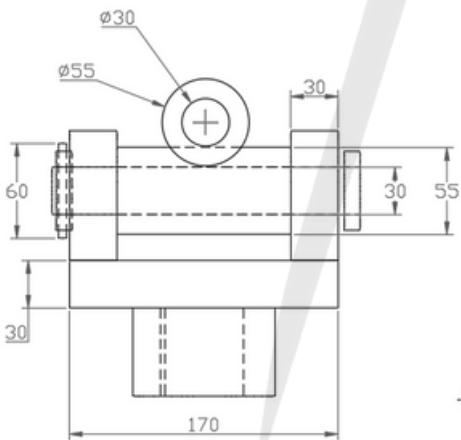
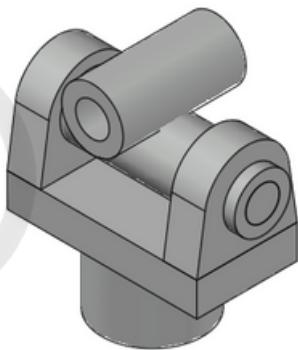
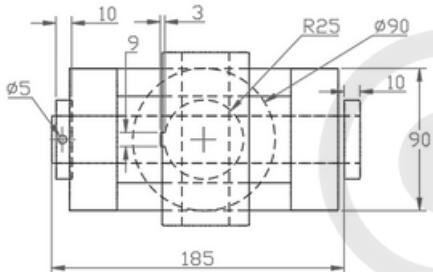


3D Drawing -27

Driving and driven flange of
Oldham coupling

Learn to make this drawing

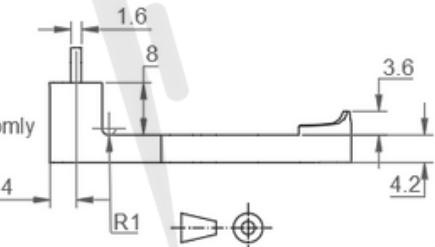
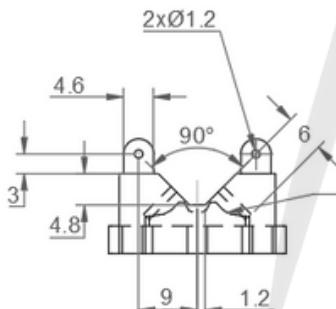
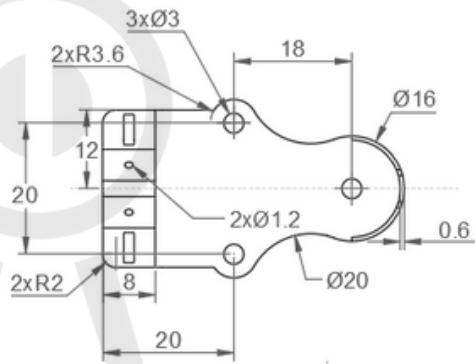
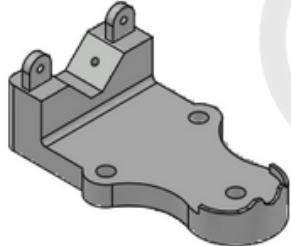
3D Drawings



3D Drawing -28

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3D Drawings

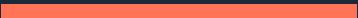


3D Drawing -29

Learn to make this drawing

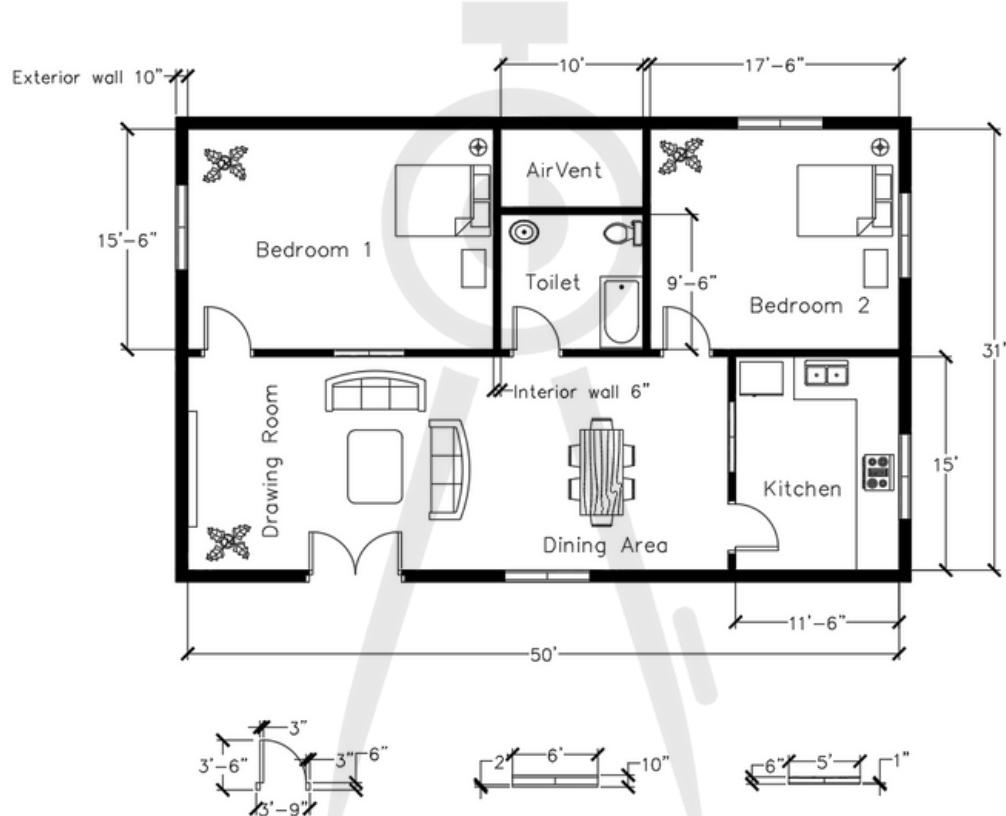
03

HOUSE PLAN PROJECT



2D and 3D Practice drawings

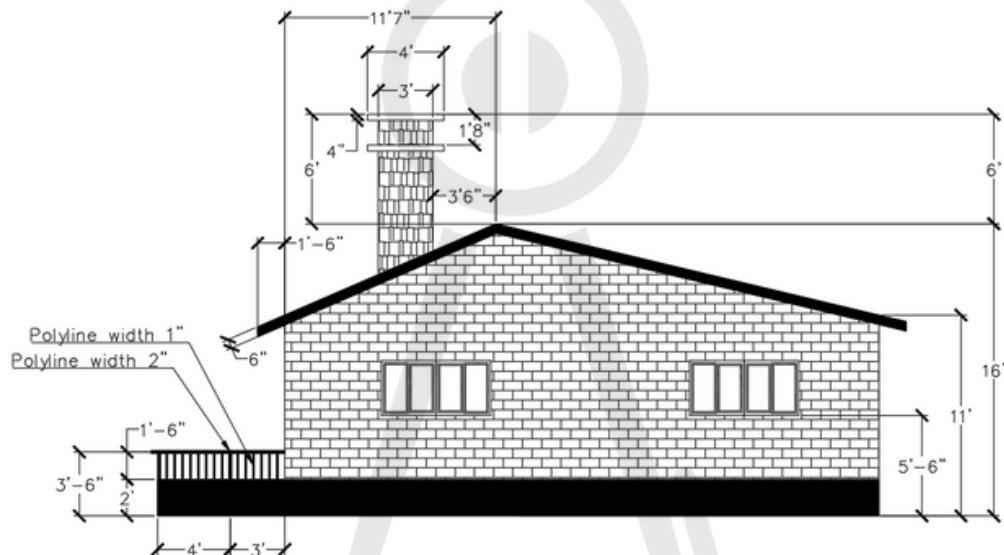
House Plan project



House Plan project -1

Learn to make this drawing

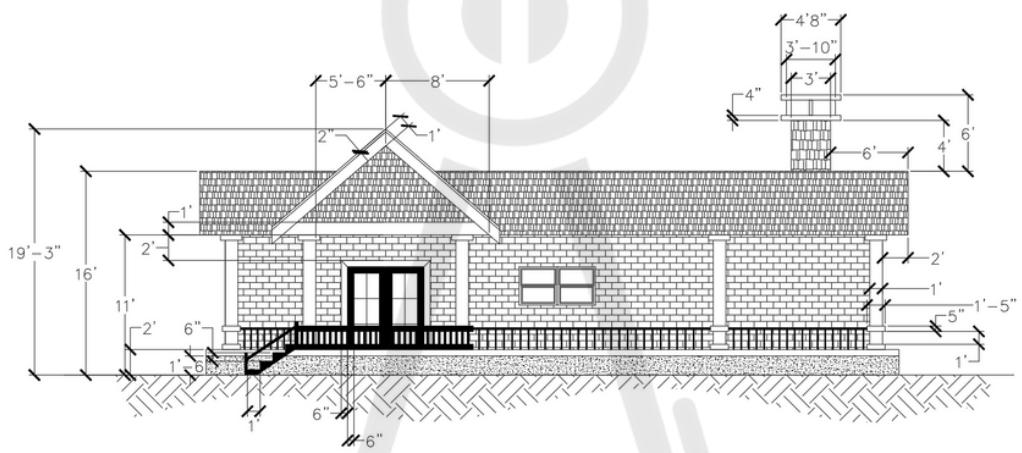
House Plan project



House Plan project -2

Learn to make this drawing

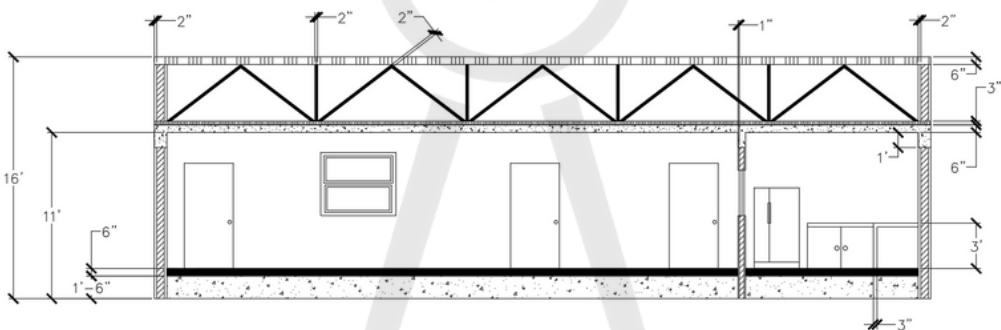
House Plan project



House Plan project -3

Learn to make this drawing

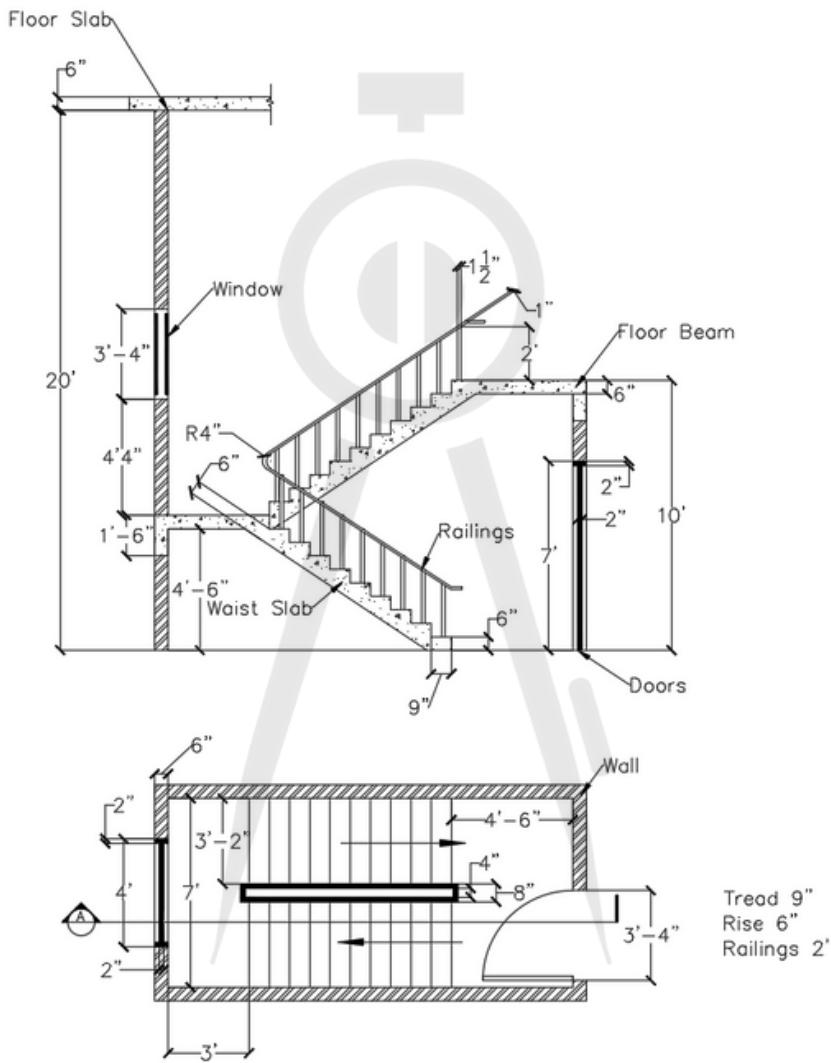
House Plan project



House Plan project -4

Learn to make this drawing

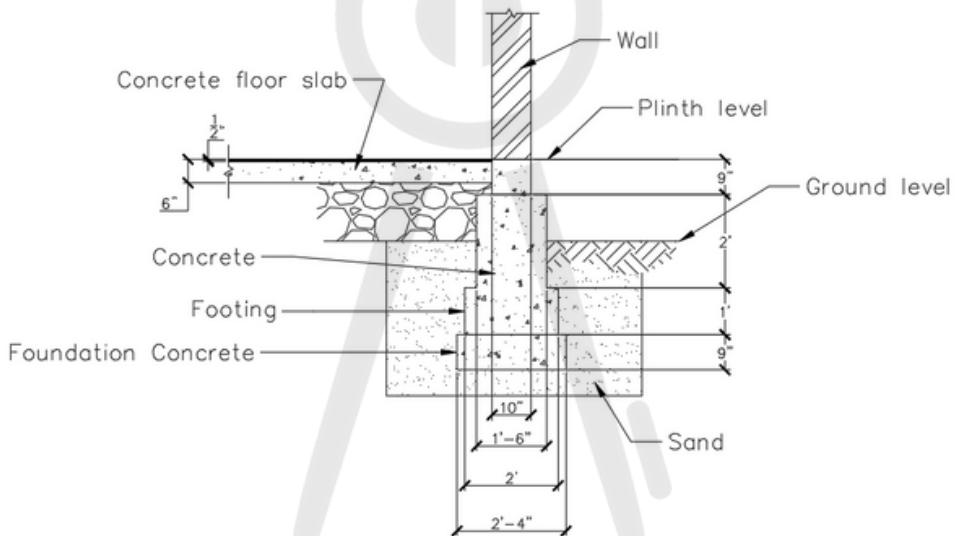
House Plan project



House Plan project -5

Learn to make this drawing

House Plan project

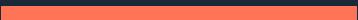


House Plan project -6

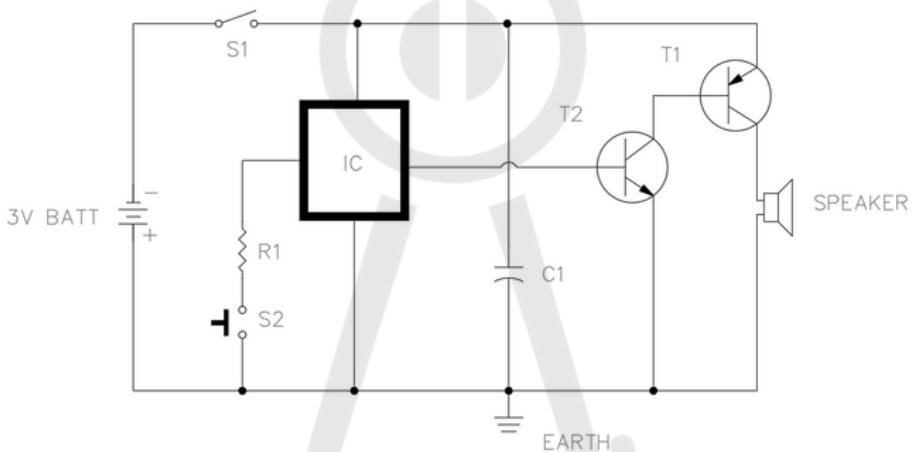
Learn to make this drawing

04

DIMENSIONLESS DRAWINGS



Dimensionless drawings

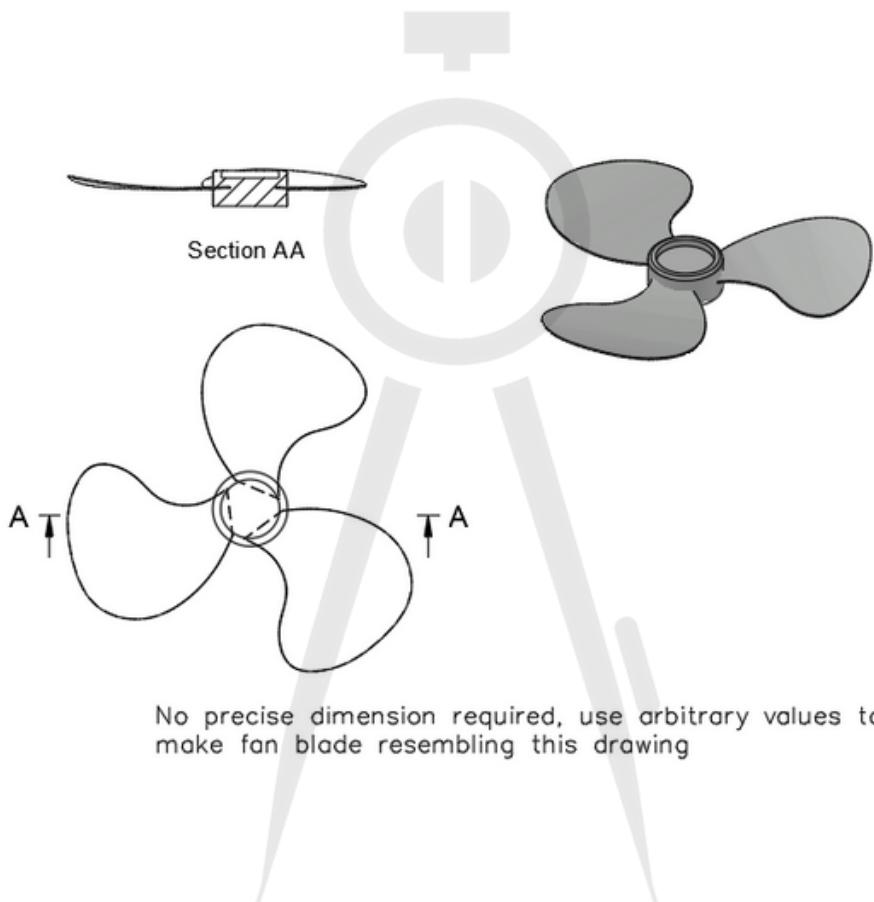


Use mostly ready made blocks for the drawing
No dimension required for the drawing

Dimensionless drawings -1

Learn to make this drawing

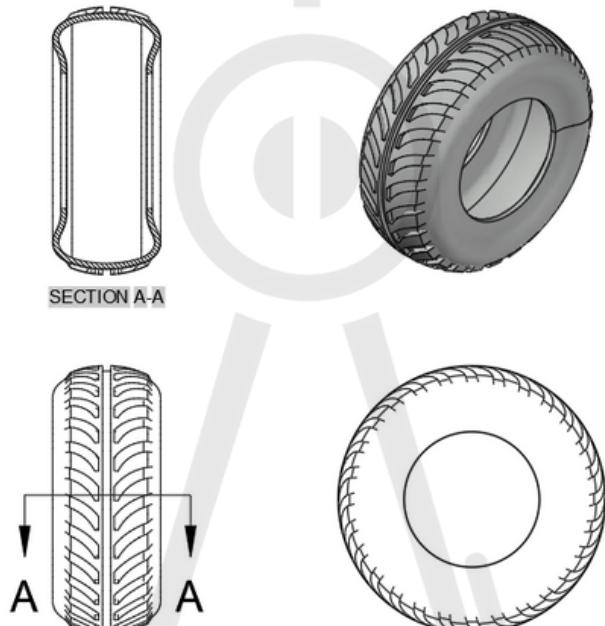
Dimensionless drawings



Dimensionless drawings -2

Learn to make this drawing

Dimensionless drawings



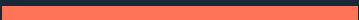
No precise dimension required, use arbitrary values to make tire resembling this drawing

Dimensionless drawings -3

Learn to make this drawing

05

FUSION 360 DRAWINGS

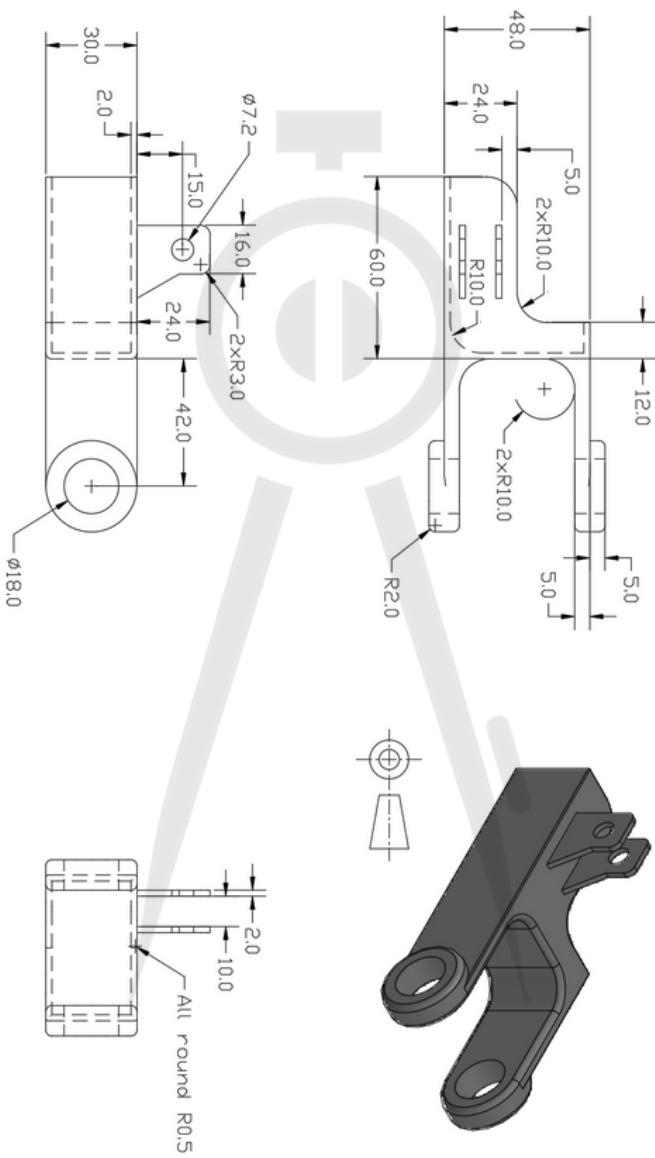


2D and 3D Practice drawings



SOURCECAD

Fusion 360 Drawings



Drawing 1

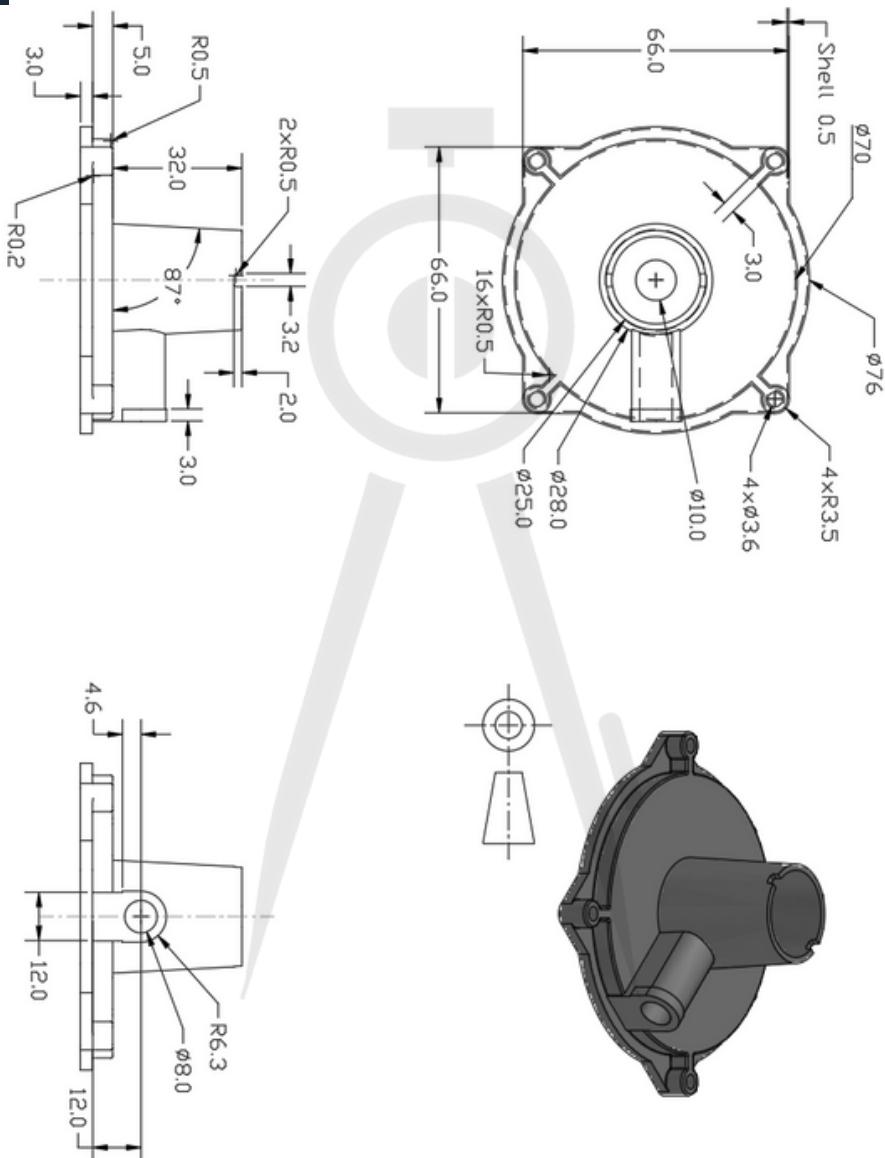
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2D and 3D Practice drawings



SOURCECAD

Fusion 360 Drawings



Drawing 2

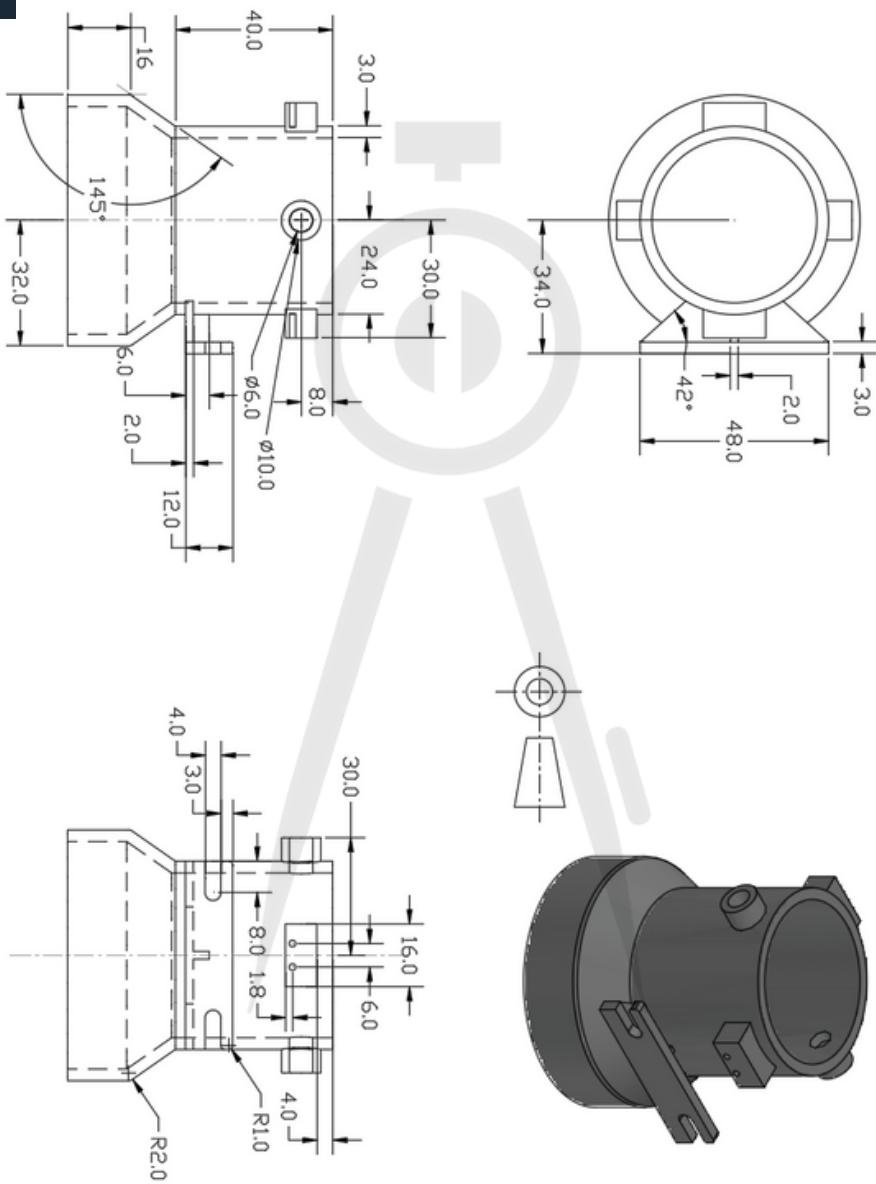
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2D and 3D Practice drawings



SOURCECAD

Fusion 360 Drawings



Drawing 3

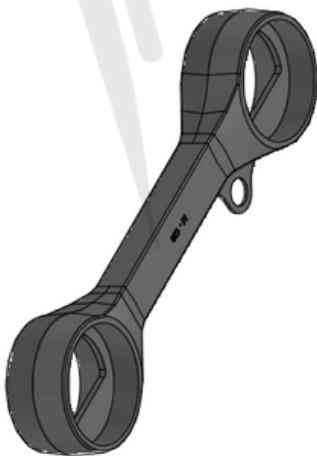
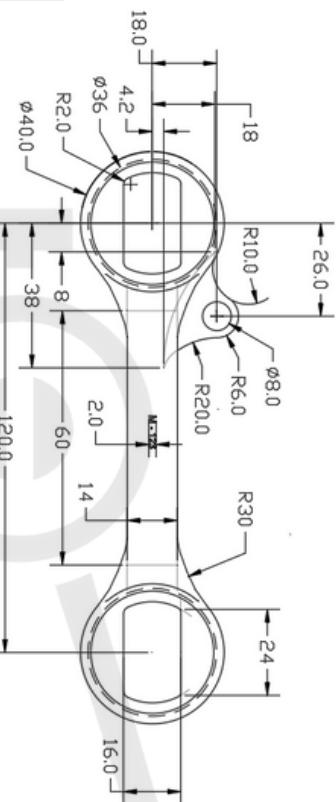
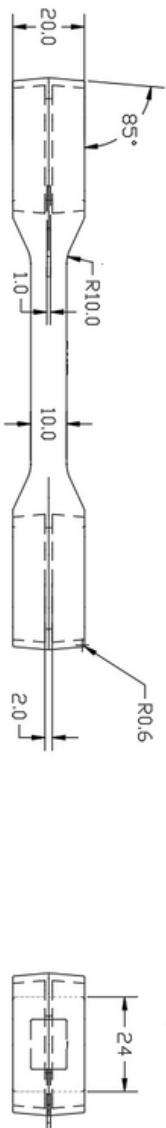
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2D and 3D Practice drawings



SOURCECAD

Fusion 360 Drawings



Drawing 4

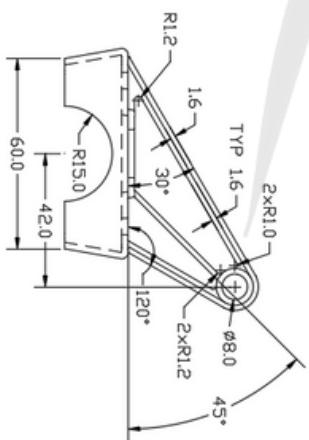
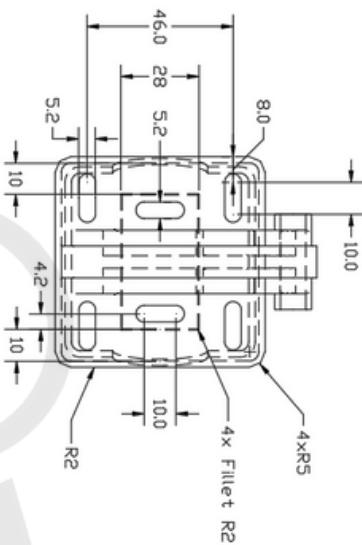
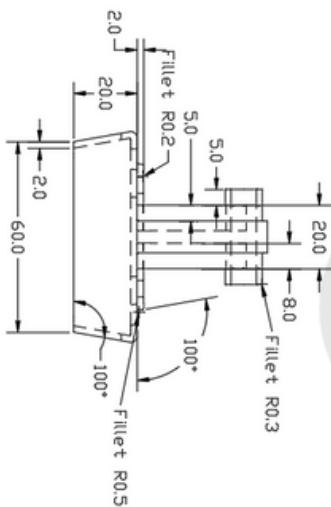
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2D and 3D Practice drawings



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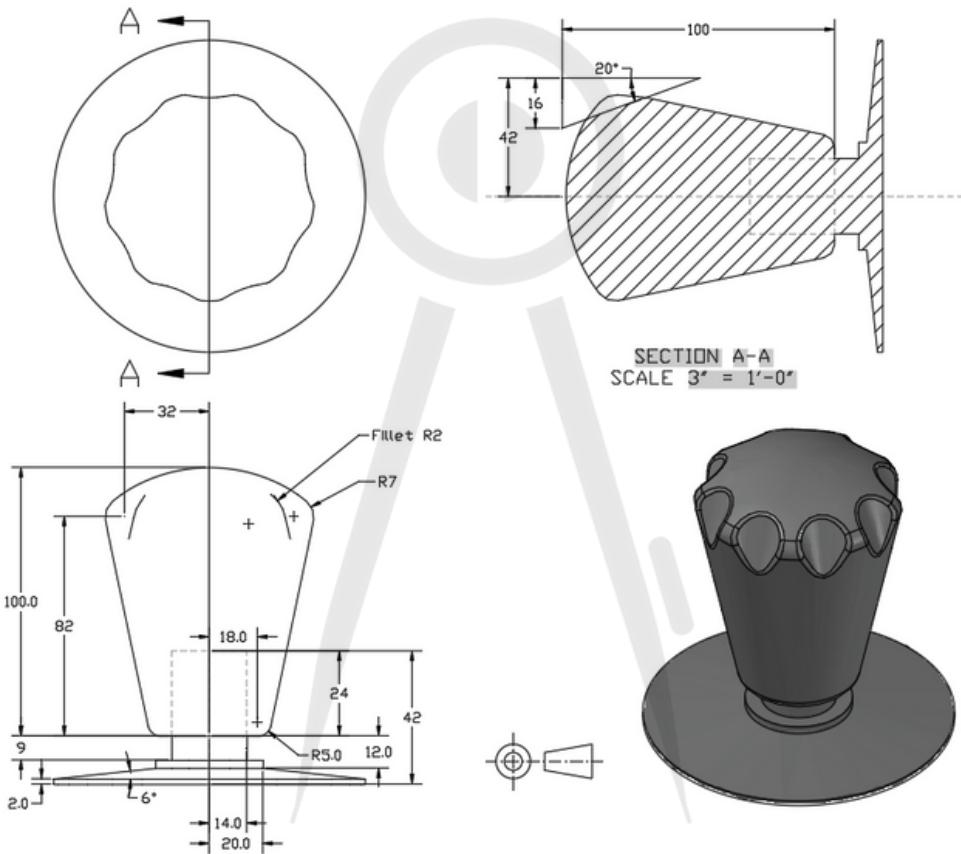
Fusion 360 Drawings



Drawing 5

Learn to make this drawing

Fusion 360 Drawings



Drawing 6

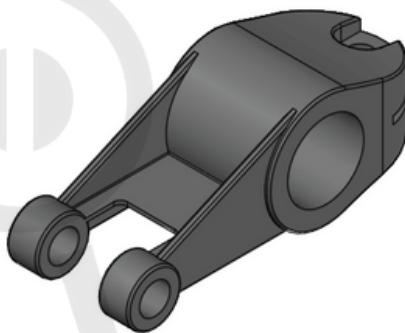
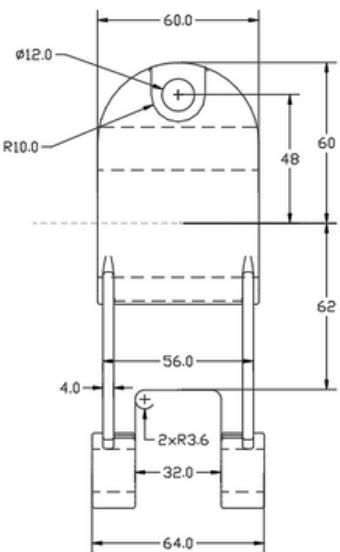
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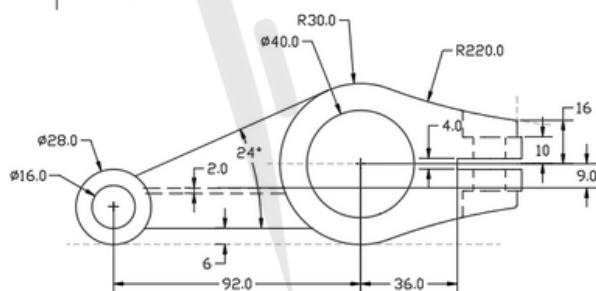
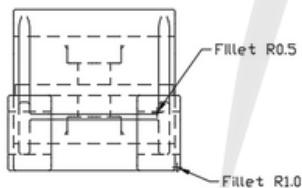


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Fusion 360 Drawings



Fillet 1 mm if not specified

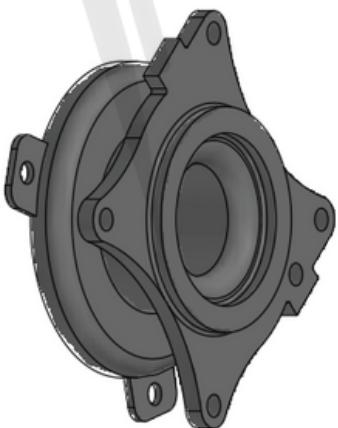
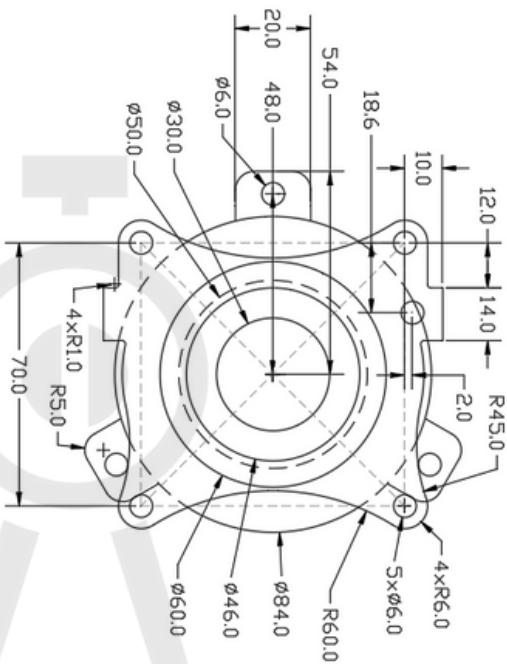
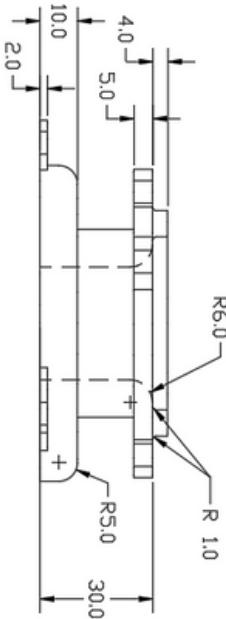


Drawing 7

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Fusion 360 Drawings



Drawing 8

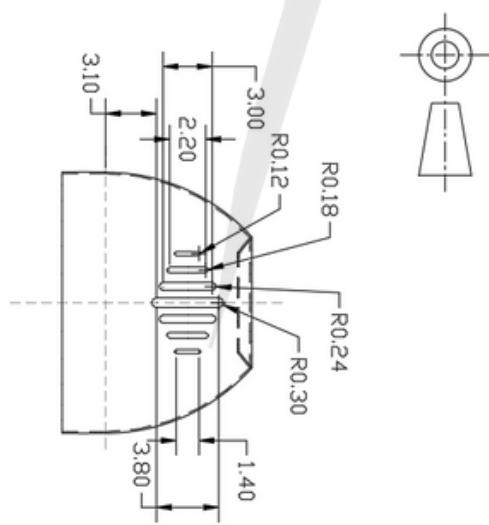
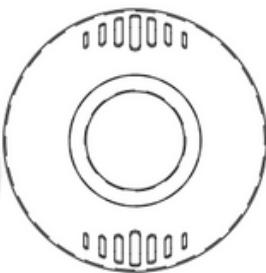
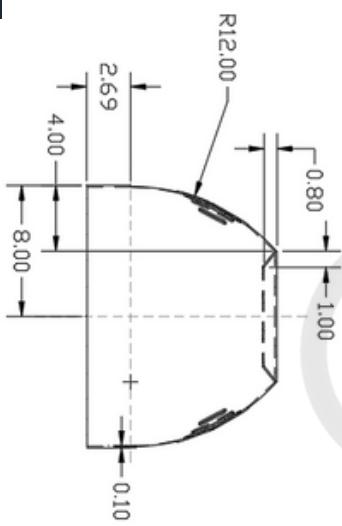
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2D and 3D Practice drawings



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Fusion 360 Drawings



Drawing 9

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2D and 3D Practice drawings

Fusion 360 Drawings



Use screenshot of this bottle to make its 3D drawing

Drawing 10

Learn to make this drawing

Jaiprakash Pandey
Author



About this Book

A lot of effort went into creating this book and the drawings featured here are a collection of practice exercises that I have created over a period of 6 years.

The drawings in this book are created by Jaiprakash Pandey and compiled by Kalpana pandey.

Though this edition is revised meticulously still not immune to errors and if you find any please reach out to me at **admin@thesourcecad.com**