

# 200 - 2D 3D CAD EXERCISES



Kovalan.Š

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# Preface

This book was created to feed budding CAD designers with a variety of 2D and 3D CAD Exercises while they are learning and mastering the art of CAD.

This Work Book is a Collection of the Best drawings from the original 2D 3D CAD EXERCISES Volume 1, 2 & 3.

This book is a CAD neutral Exercise book and can be used along to, practice and learn leading 2D and 3D CAD modelling software out there in the market.

The exercises have been arranged in order of easiness to difficulty letting you practise from basic commands to advanced commands. This book is not a tutorial to teach CAD, but is only to practise with the contained exercise drawings. All the drawings have been dimensioned to facilitate the reader to recreate them.

# Dedication

I dedicate this book to

My Family

&

Friends.

A special thanks to  
Nirmal.J & Sasidharan.M  
for their valuable support.

## Disclaimer

In this book you will find 100 no's - 2D CAD Exercises and 100 no's - 3D CAD Exercises to practice for students and others learning a 3D CAD Modelling software. The exercises have been arranged from easy to hard, and progressively arranged to include most of the commands you would find on a 2D / 3D CAD modelling software.

All the drawings have been dimensioned to facilitate easy replication of the drawings.

This book does not contain any step by step instructions to use any software or to draw any of the exercises. Readers will have to use their knowledge of the software to reconstruct the drawings with the dimensions provided.

## Resources

Additional 2D & 3D CAD Exercise book can be downloaded from the following web site: [www.2d3dcadex.com](http://www.2d3dcadex.com)

Additional practice exercises may also be made available from time to time in the above web site.

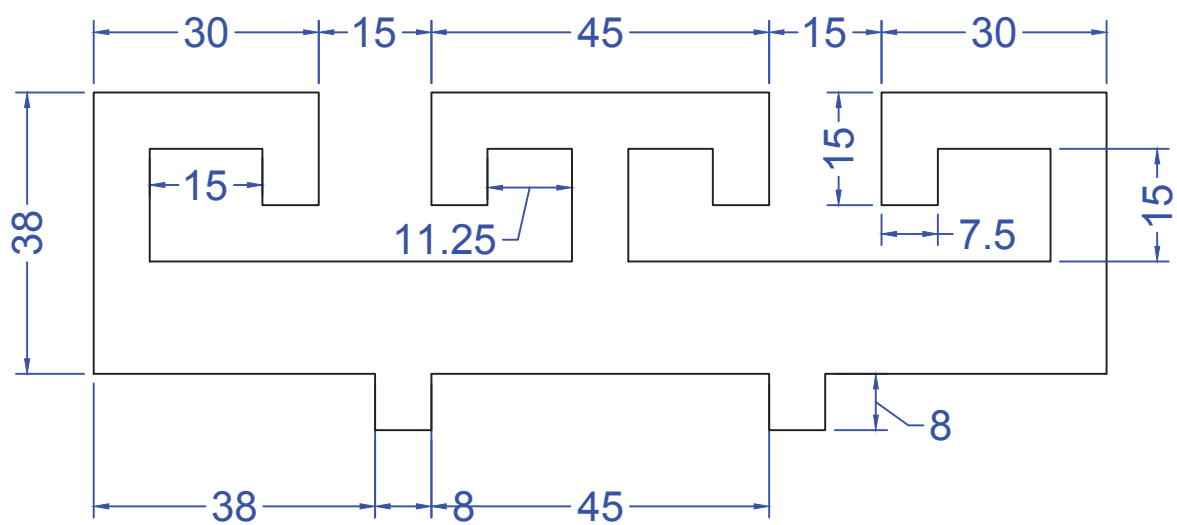
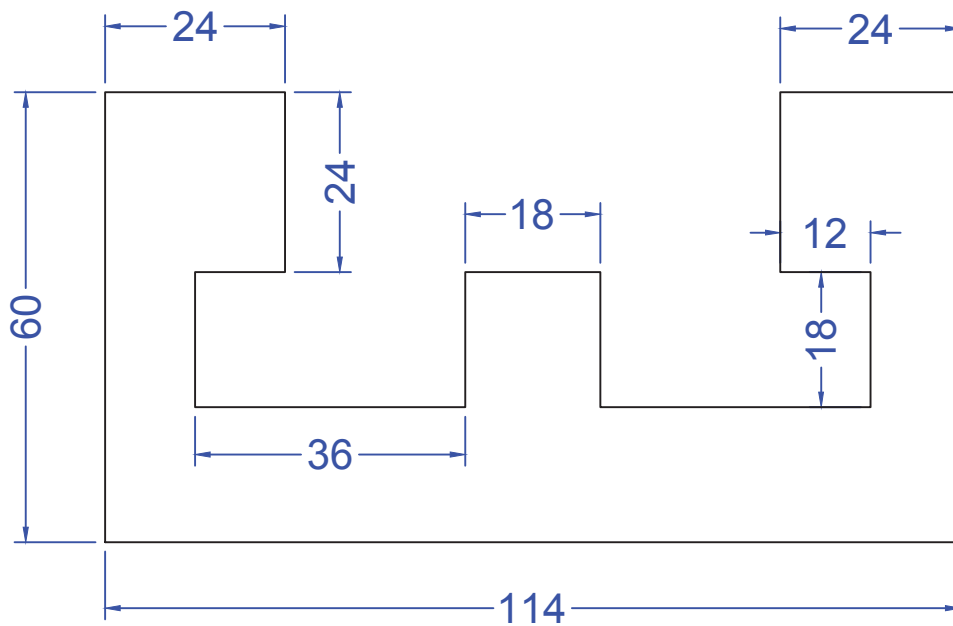
Most leading CAD software makers offer trial / student versions. For trial version installation of 2D or 3D CAD Modelling software search in [www.google.com](http://www.google.com) with search string like: <CAD software name> trial

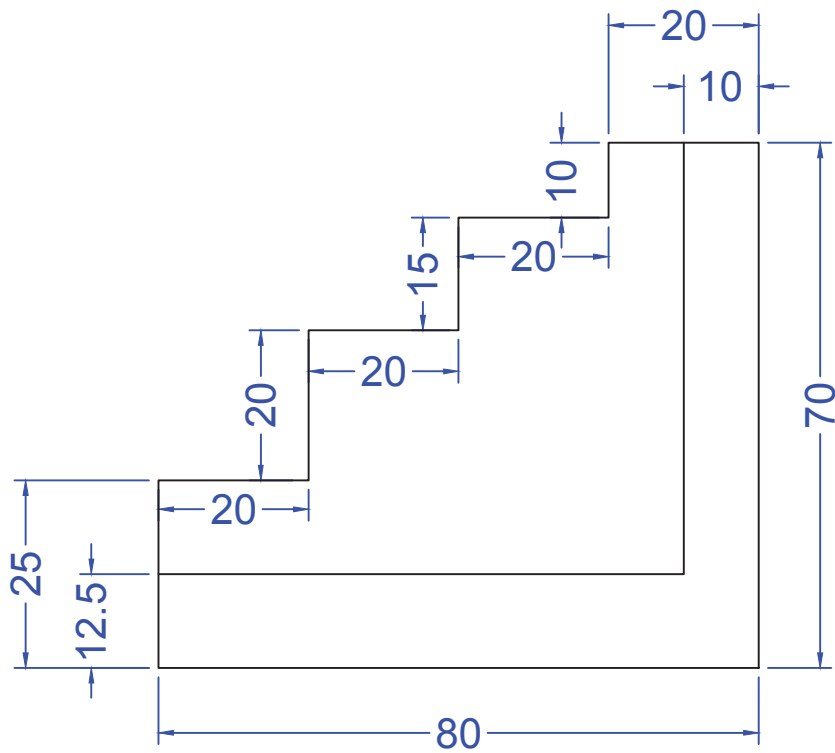
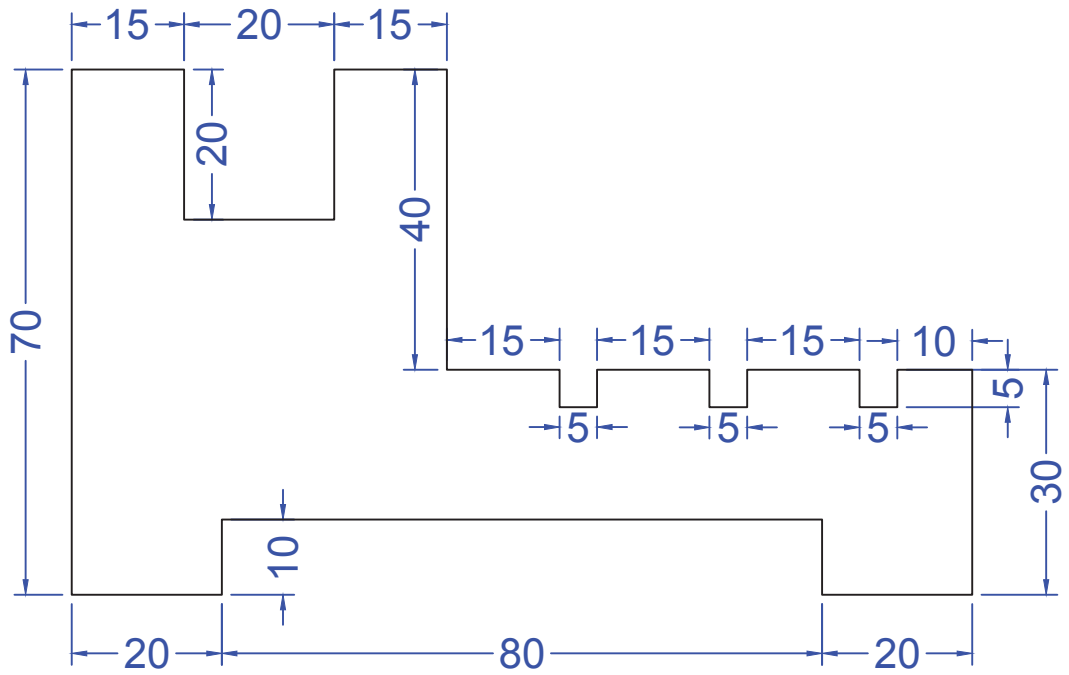
You could find links to download your desired software trial version with which you can practice the CAD Exercises. You may also purchase the Student version of the software from their official web site.

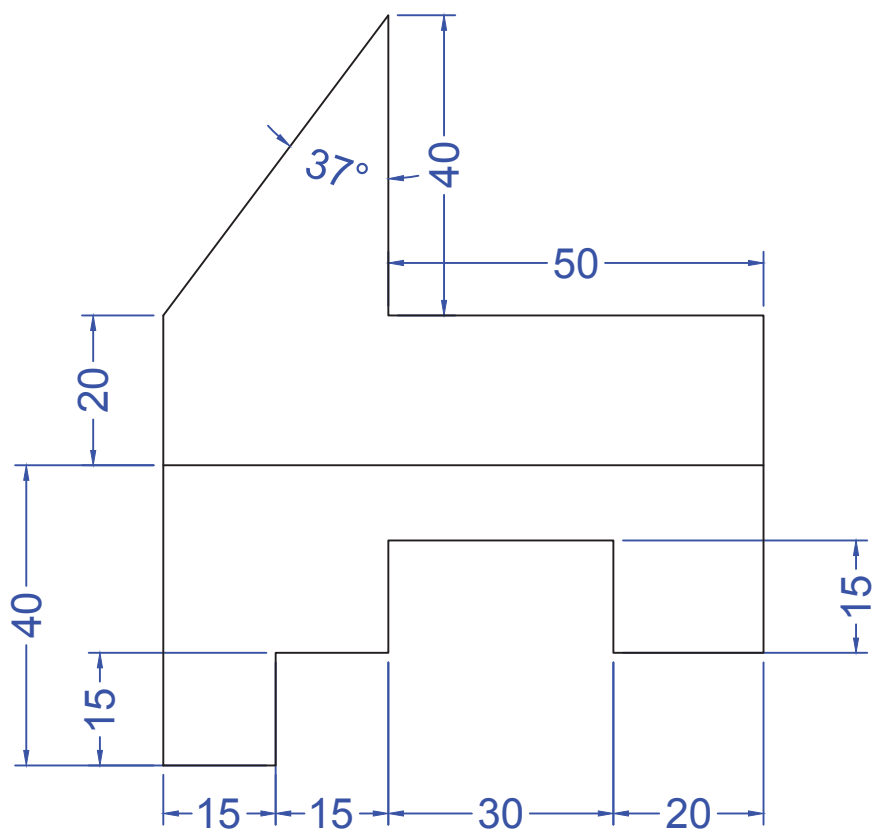
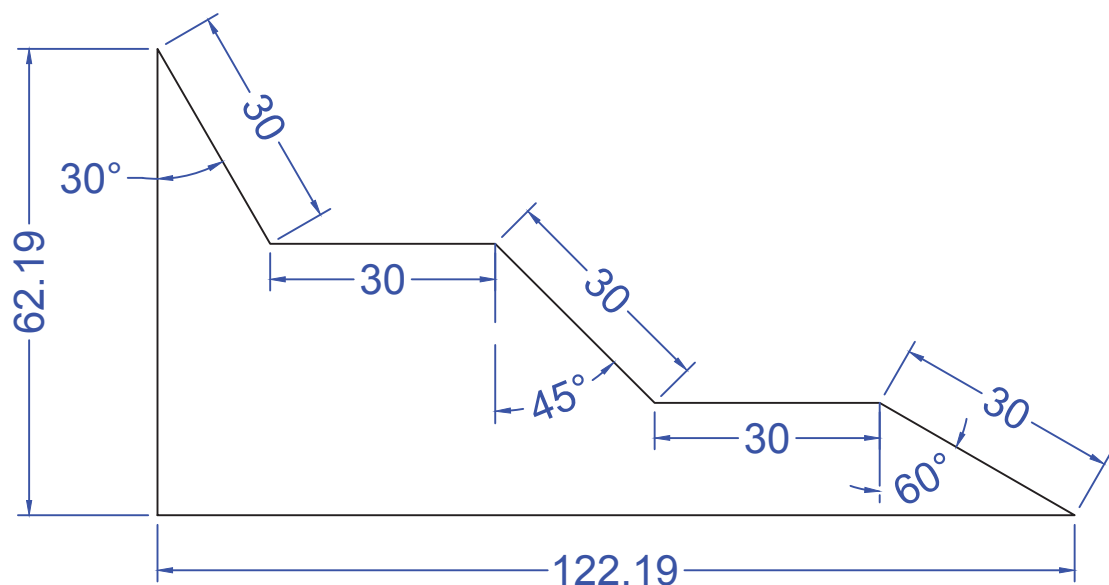


# 2D CAD EXERCISES

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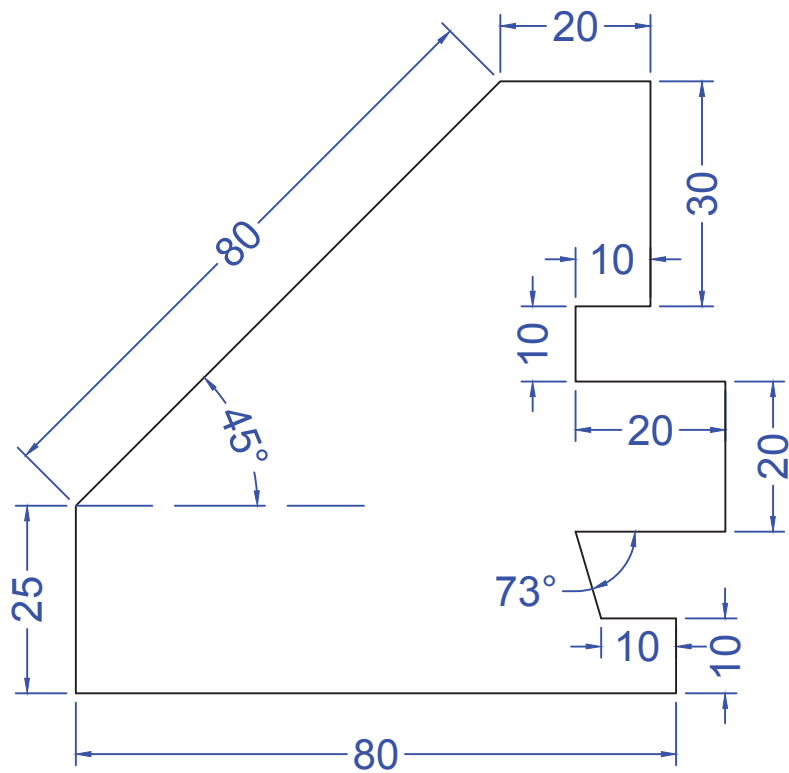
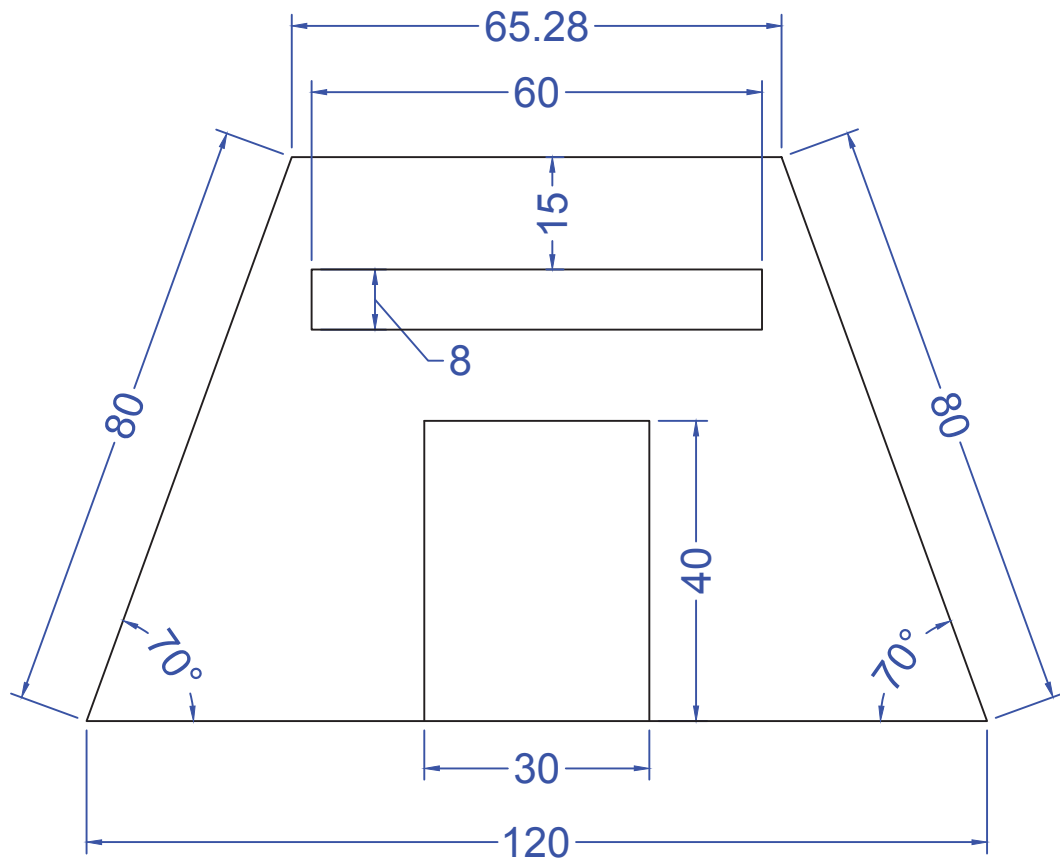




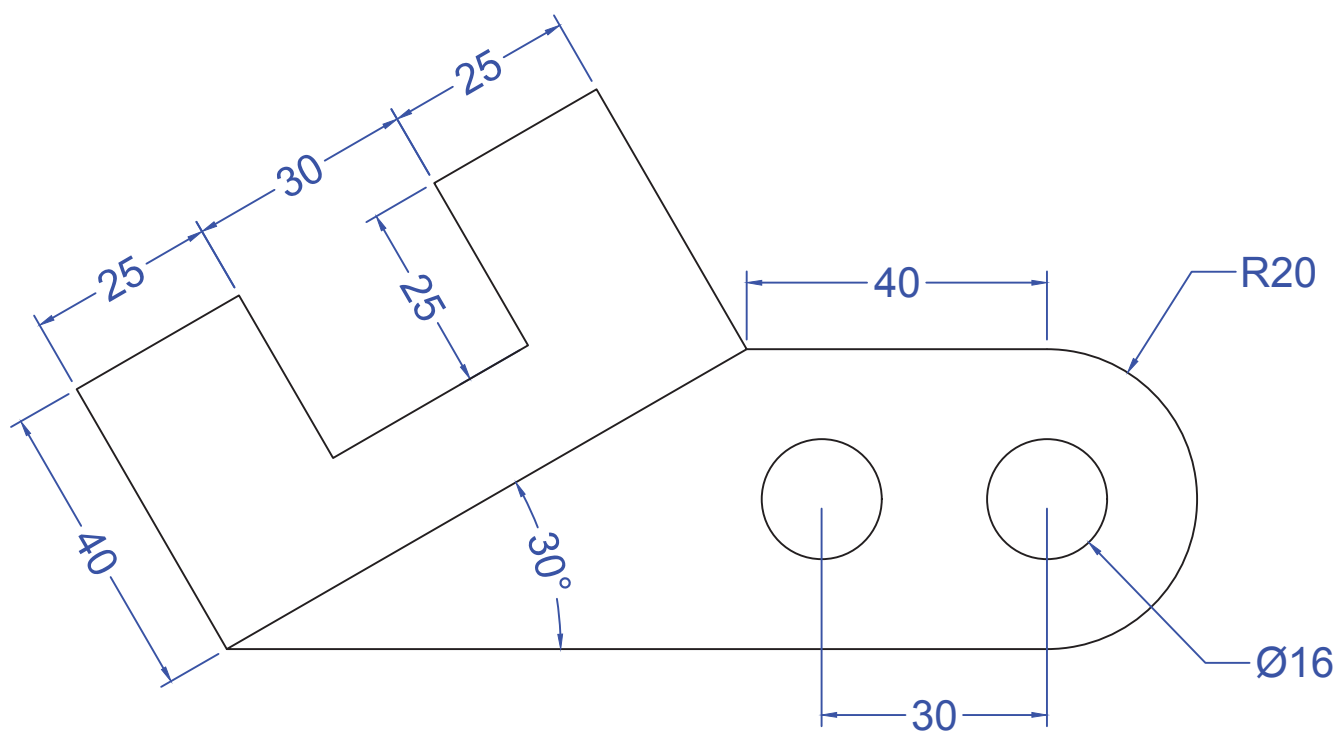
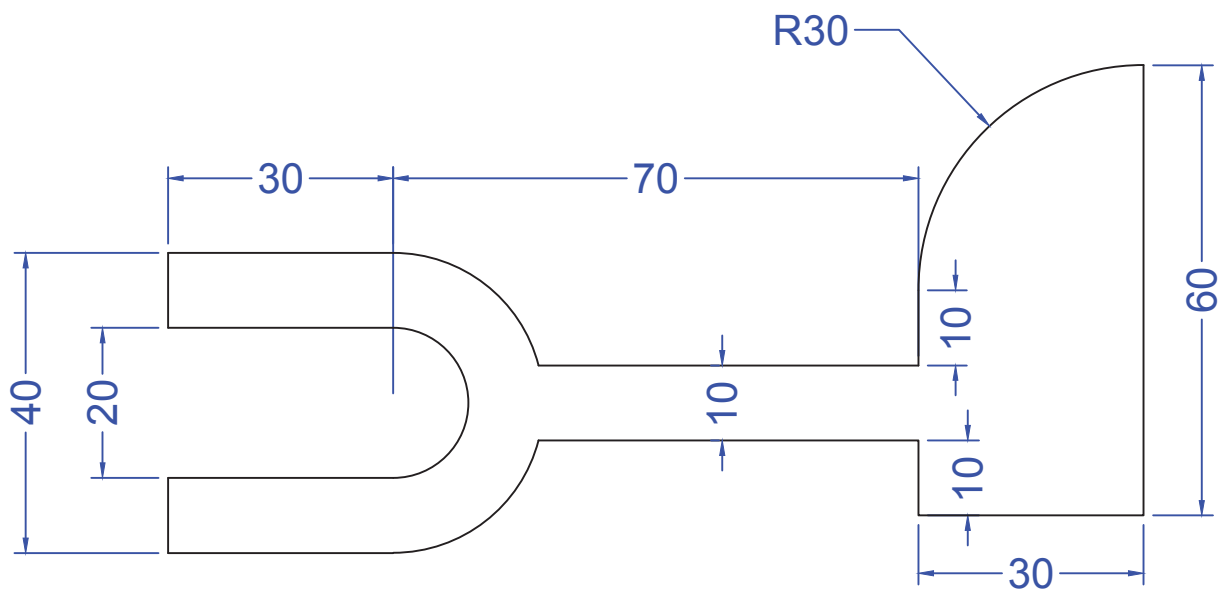


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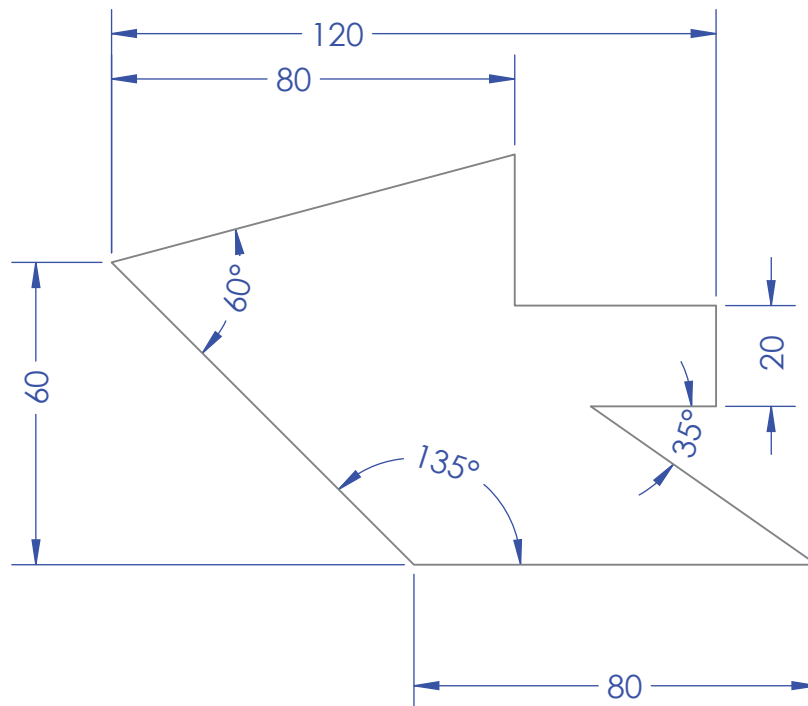
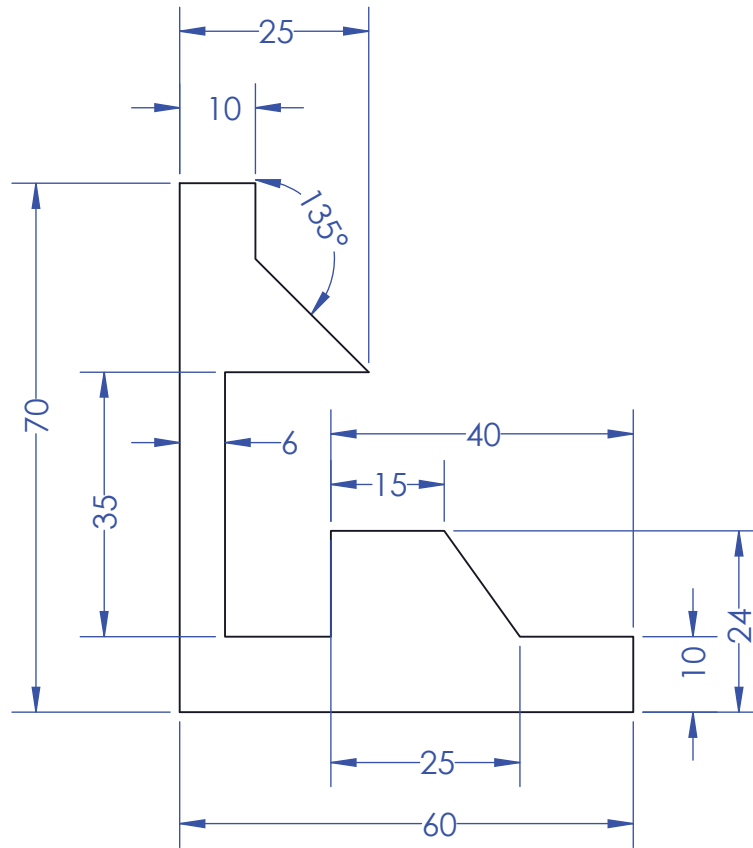




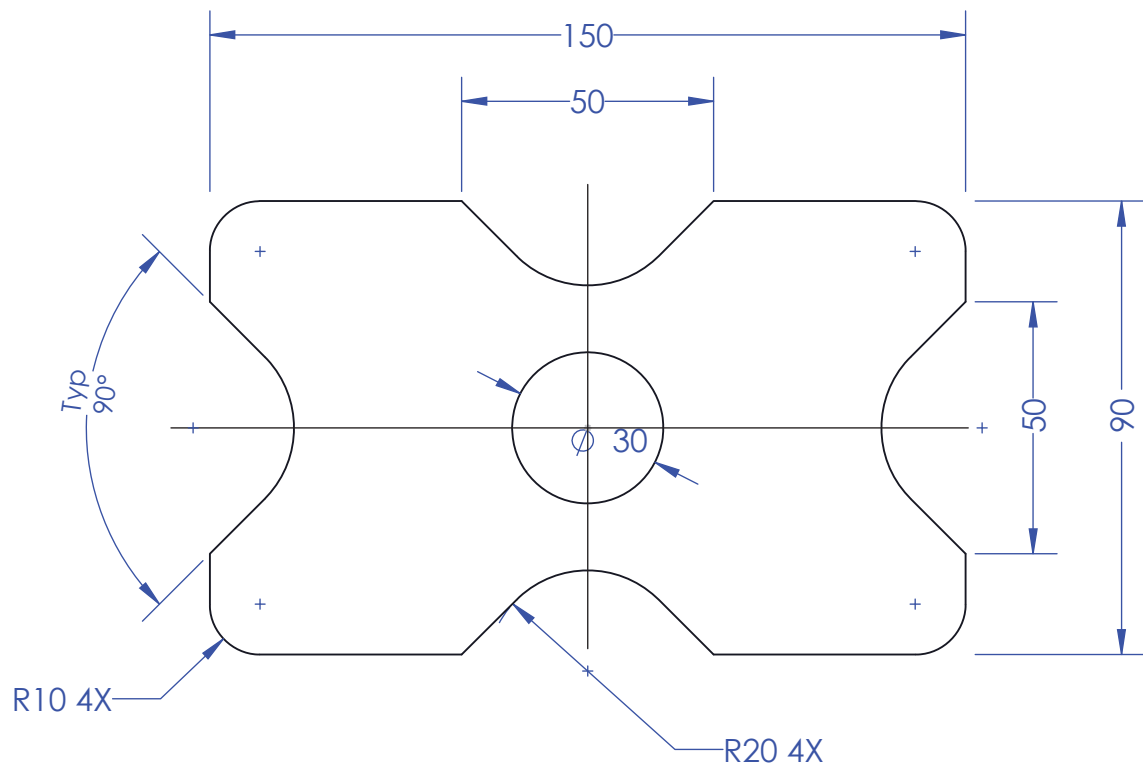
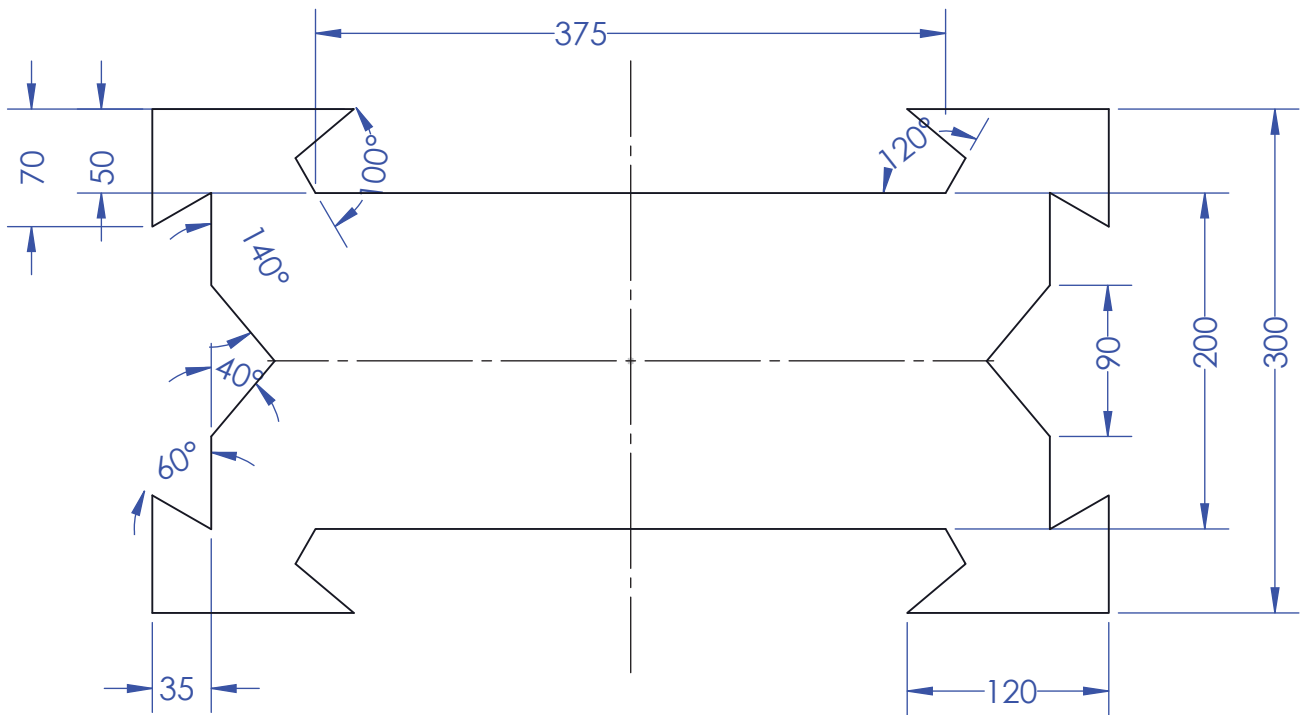
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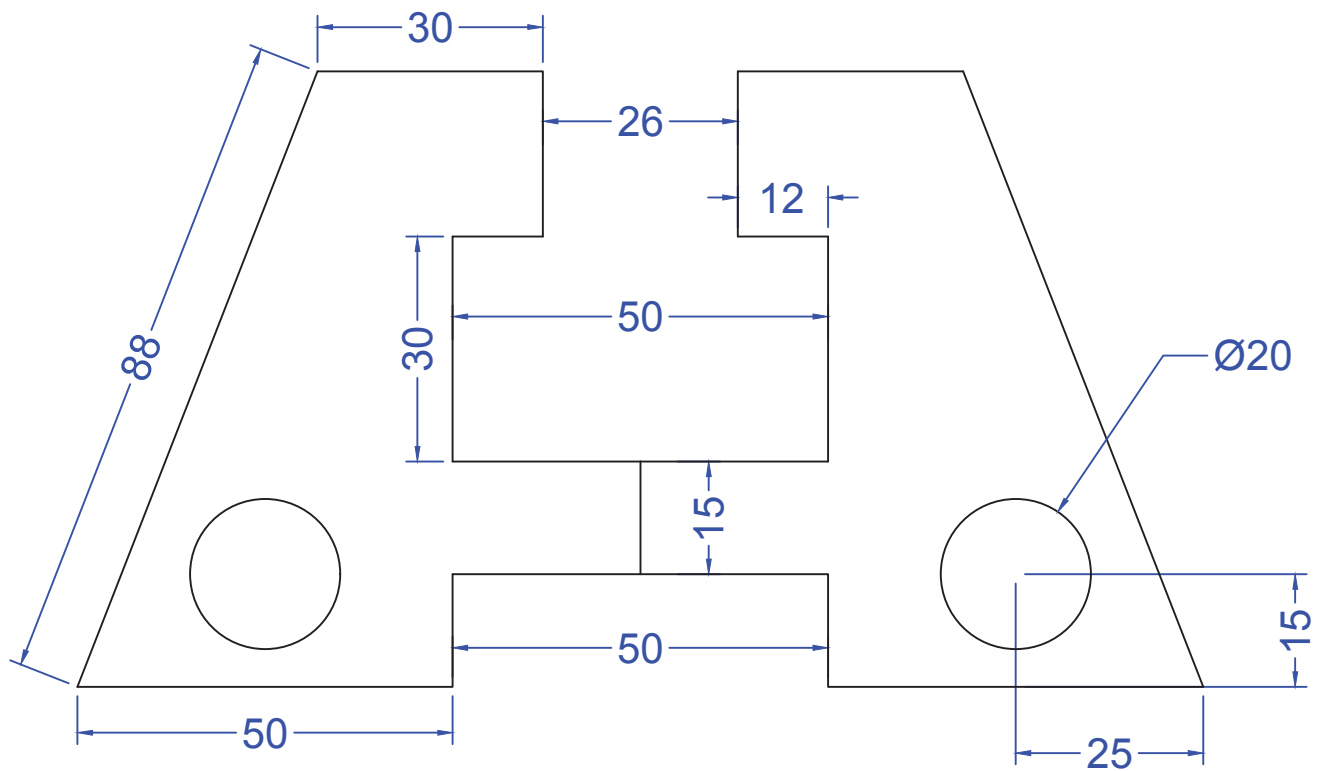
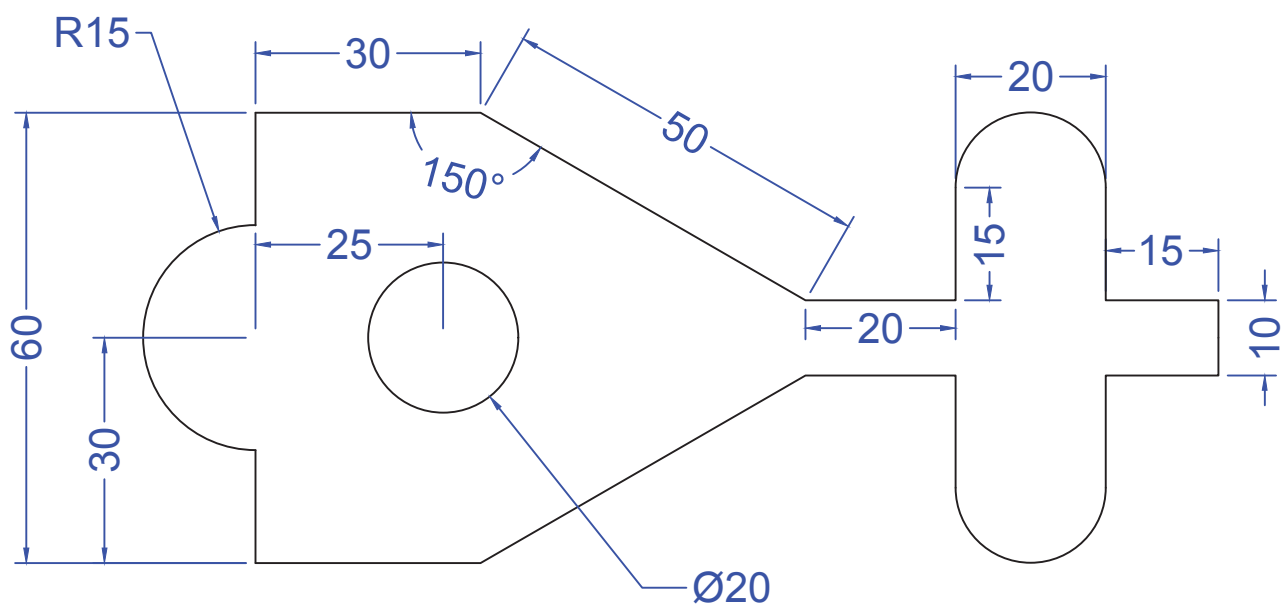




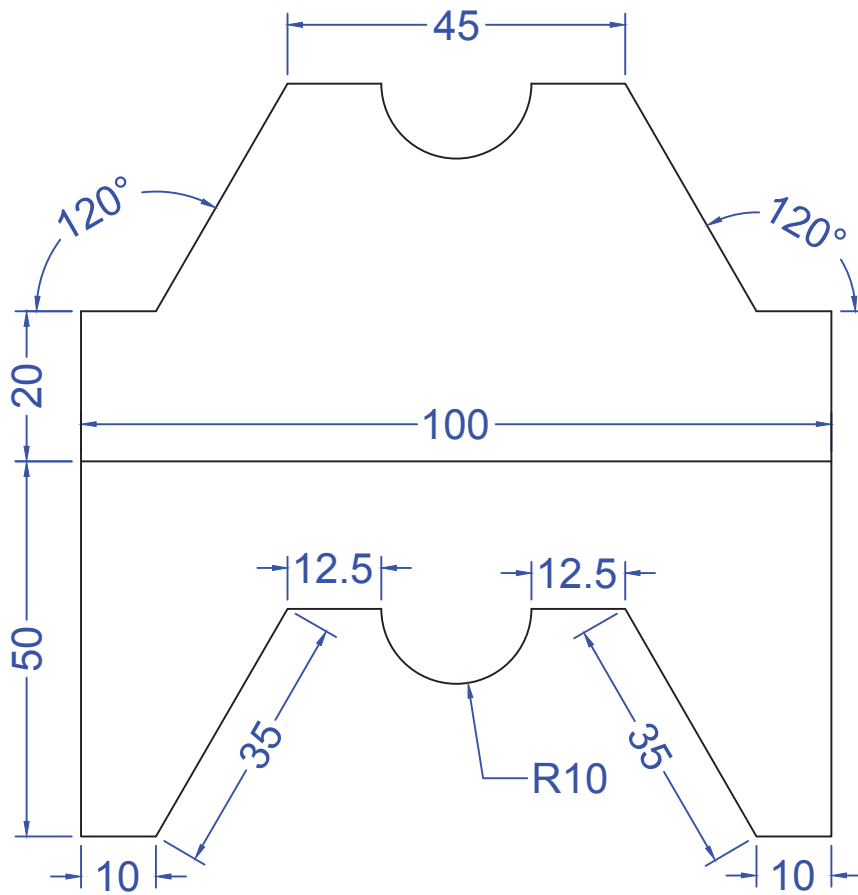
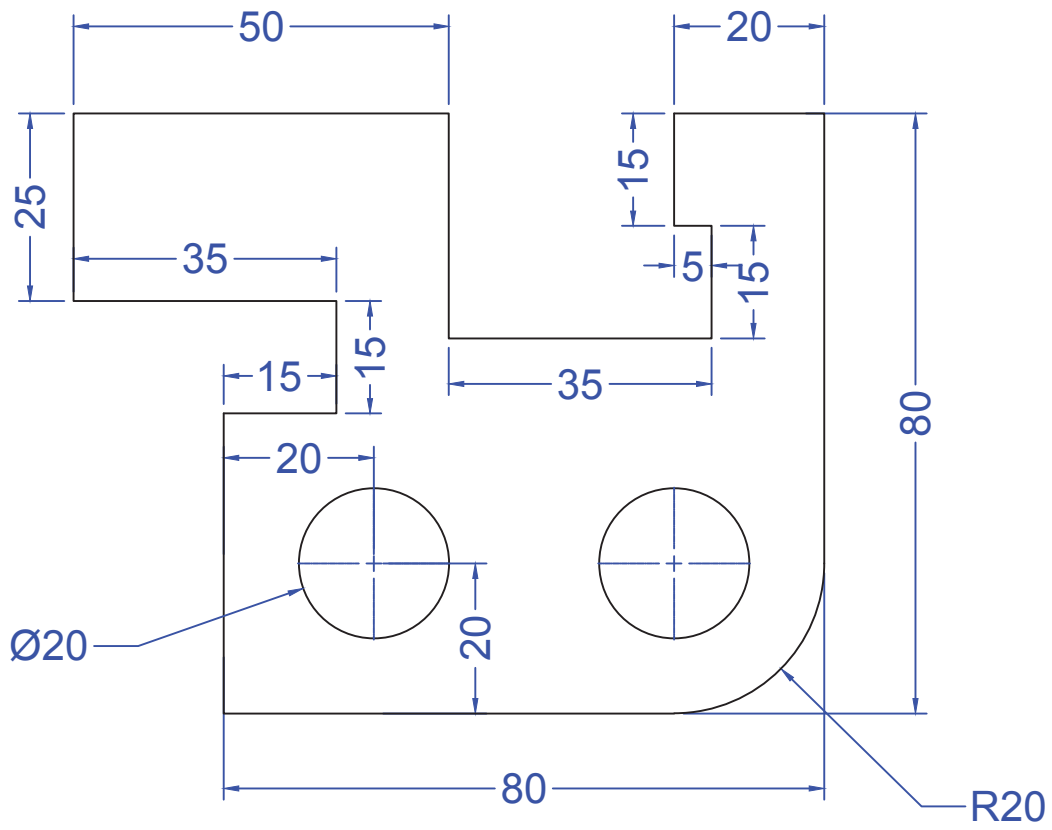
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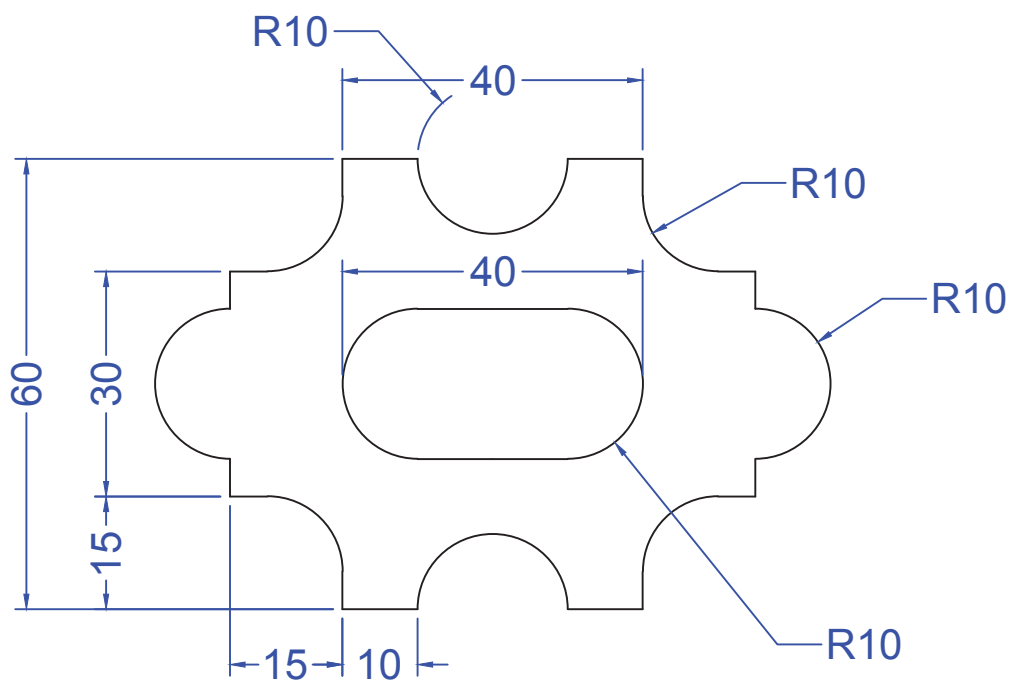
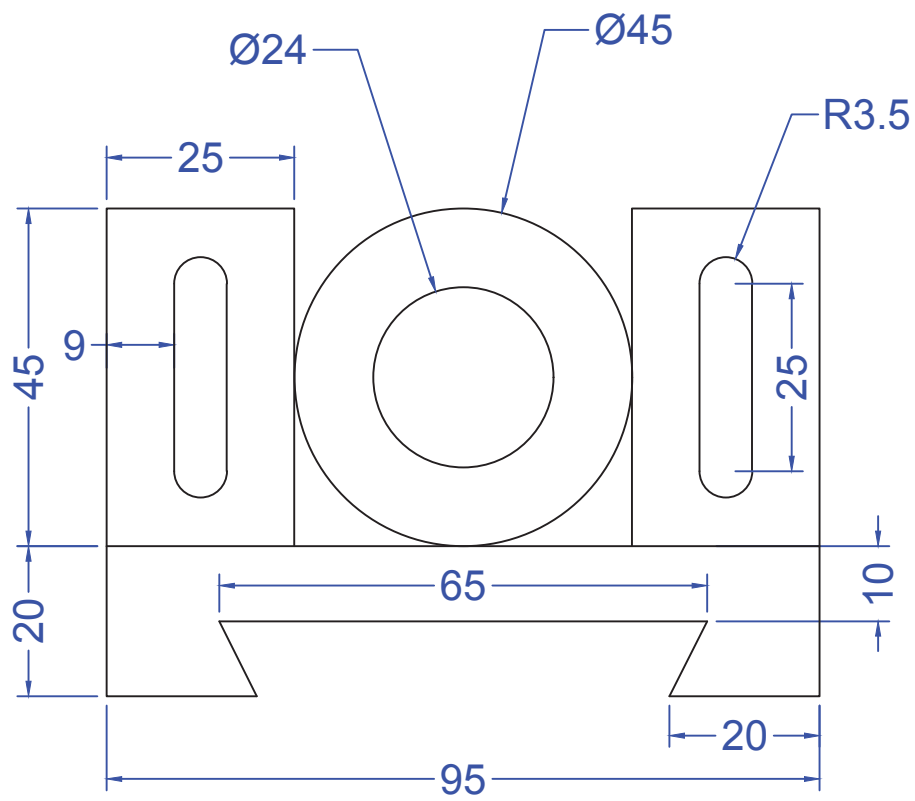
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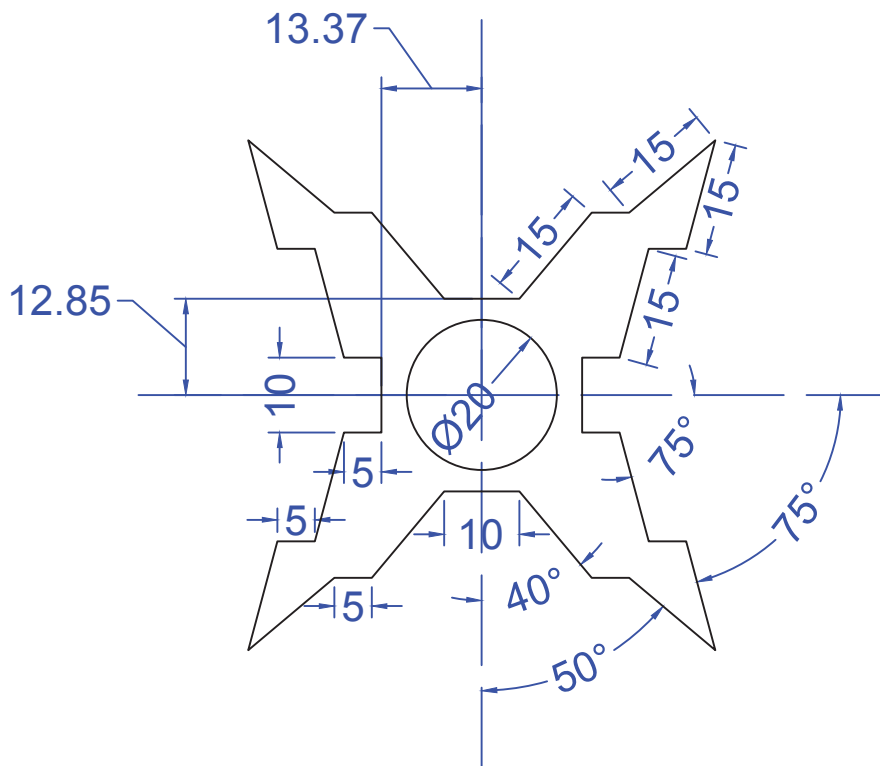
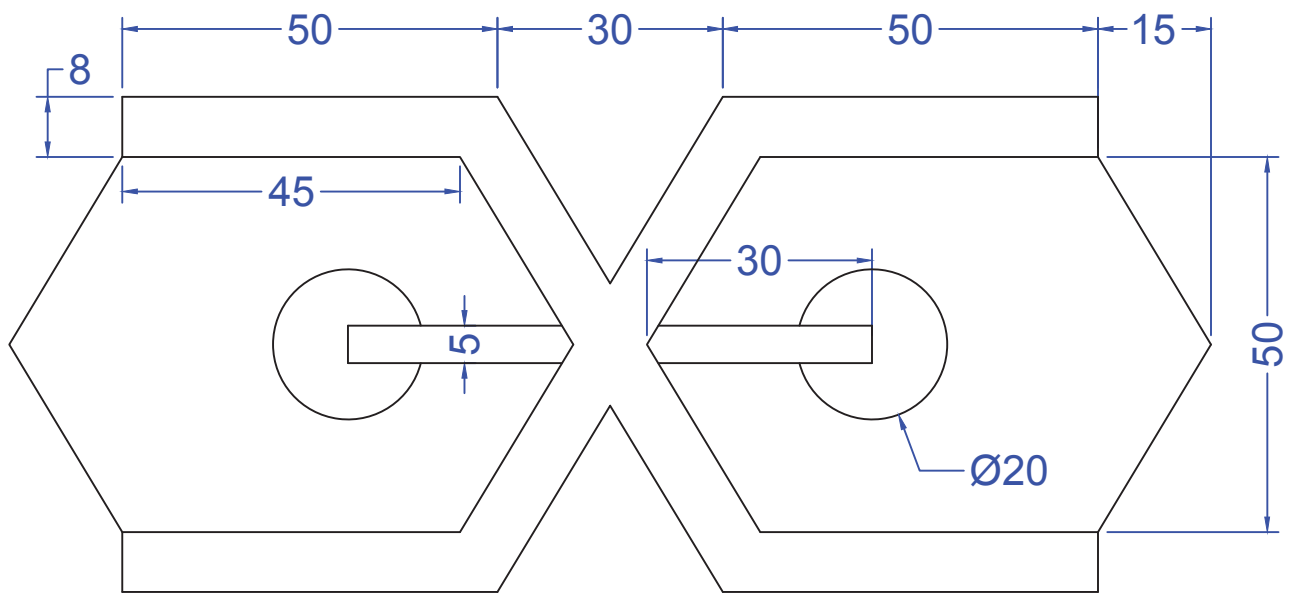


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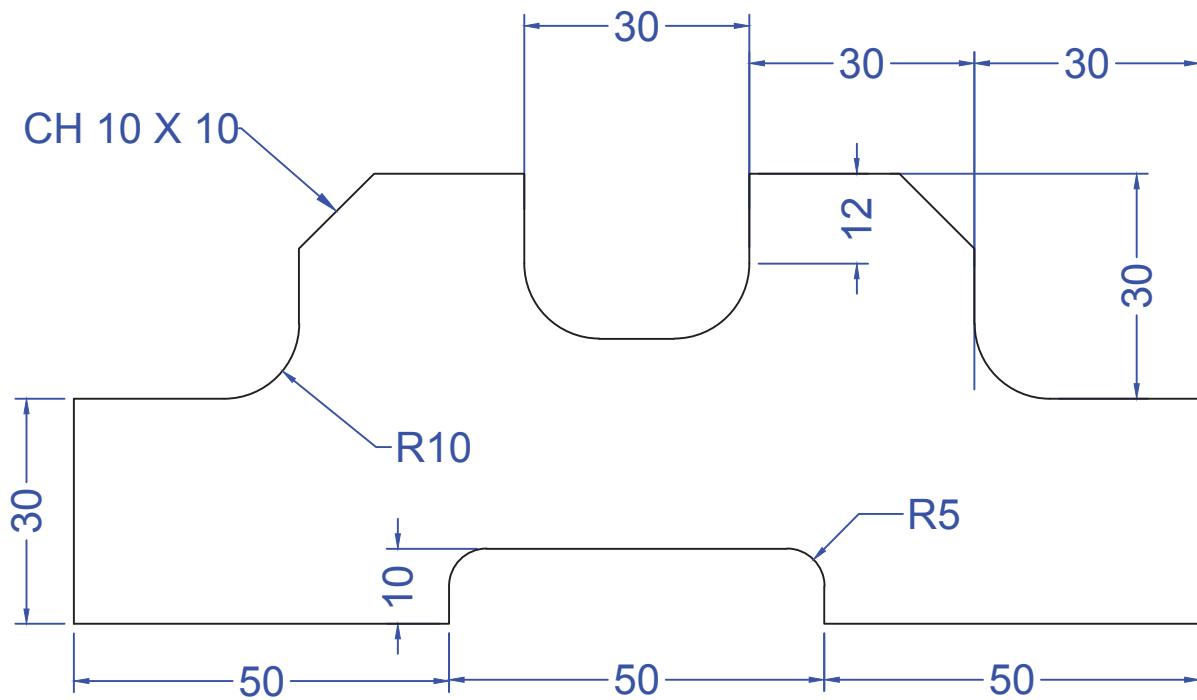
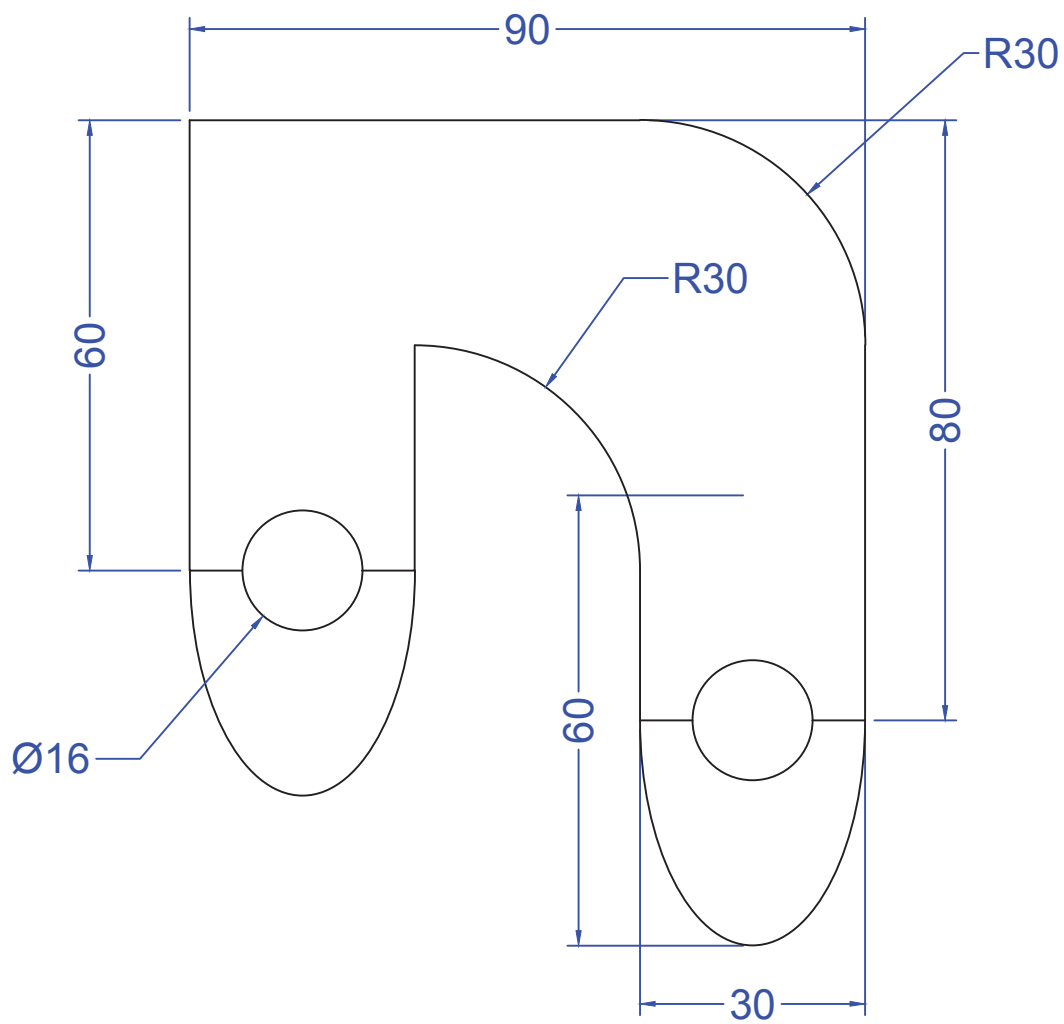


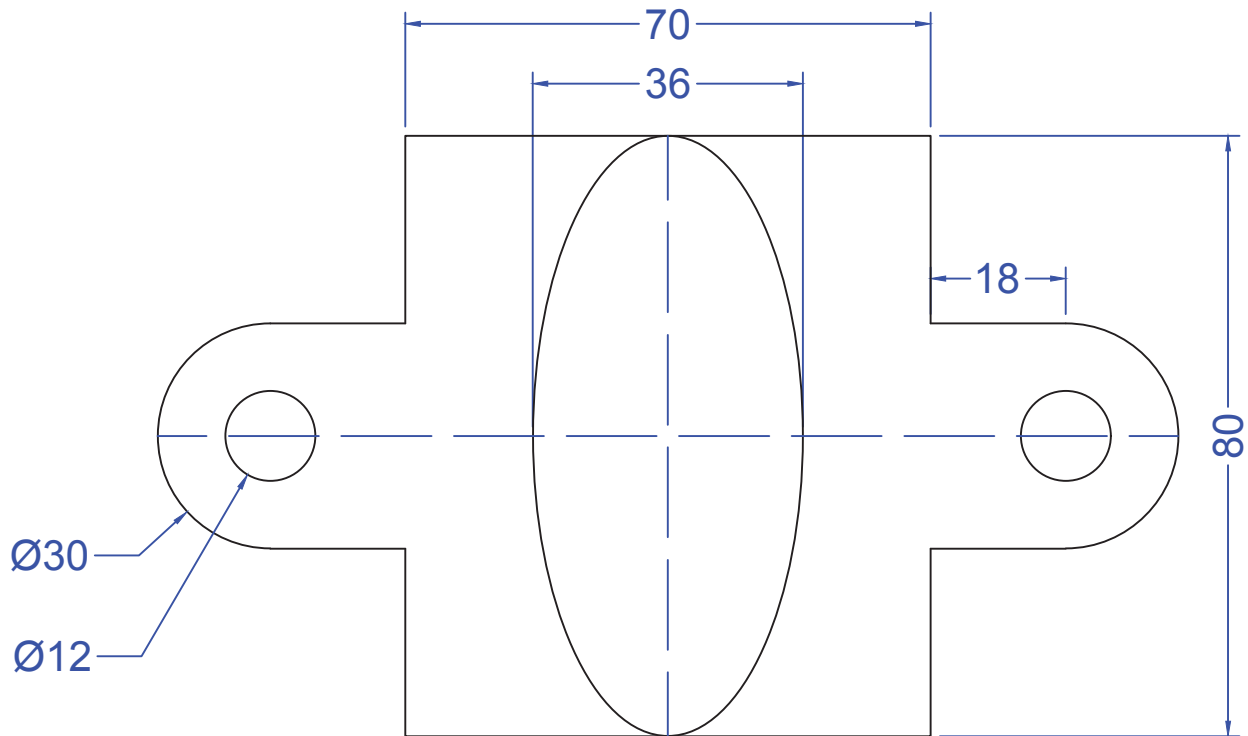
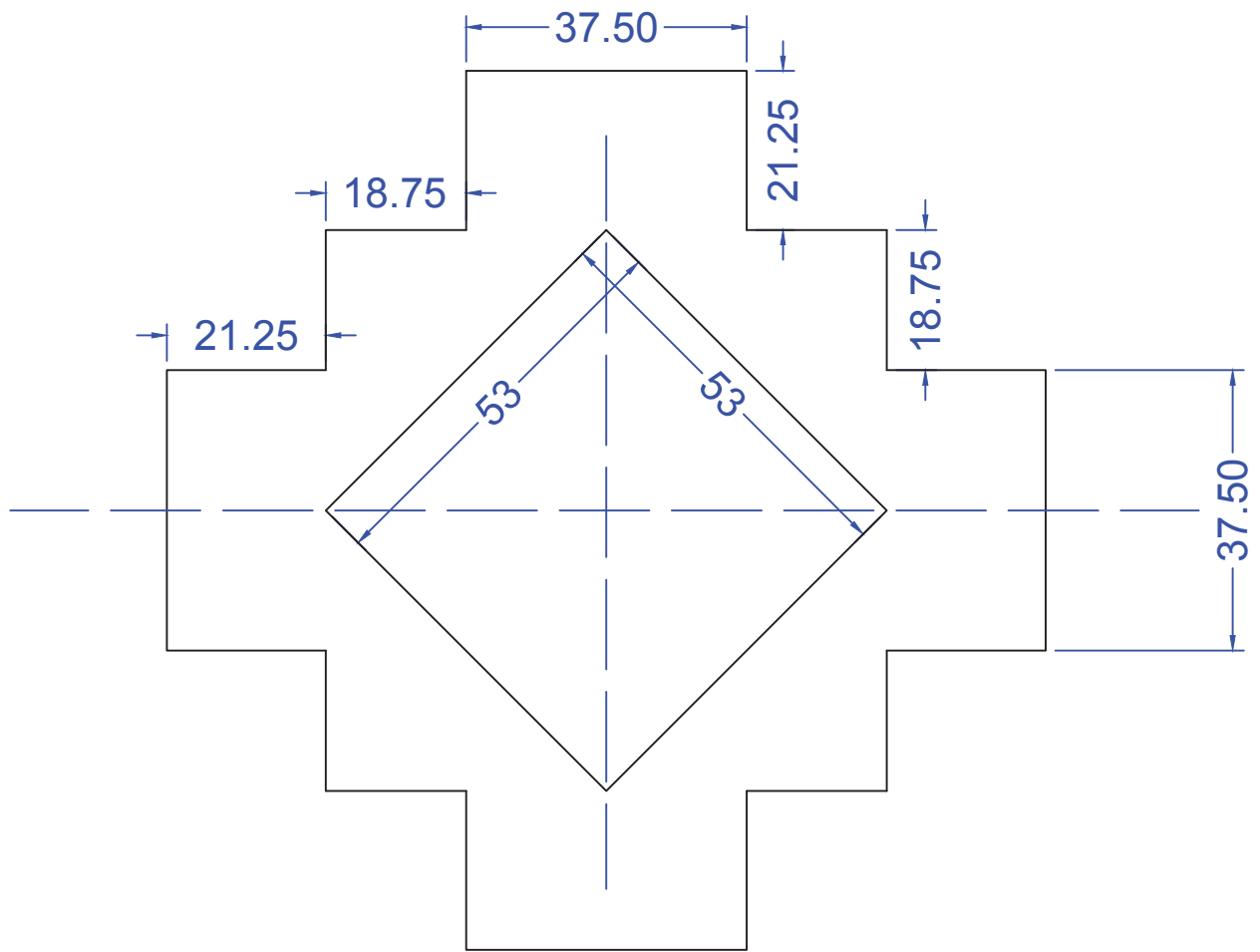
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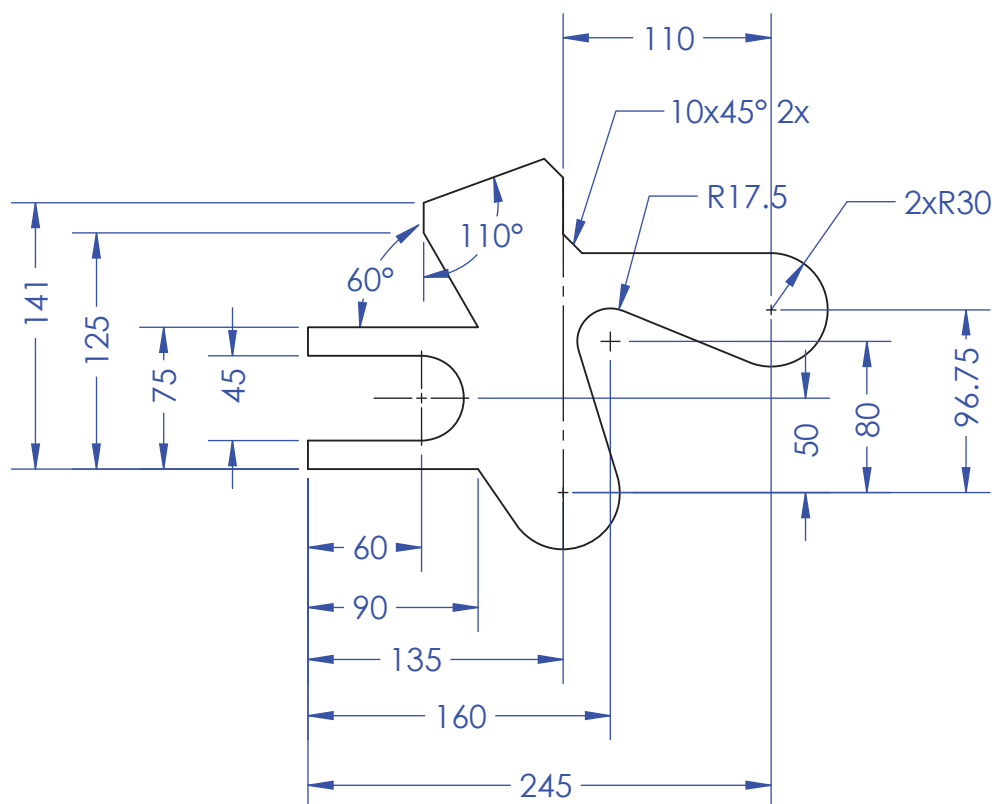
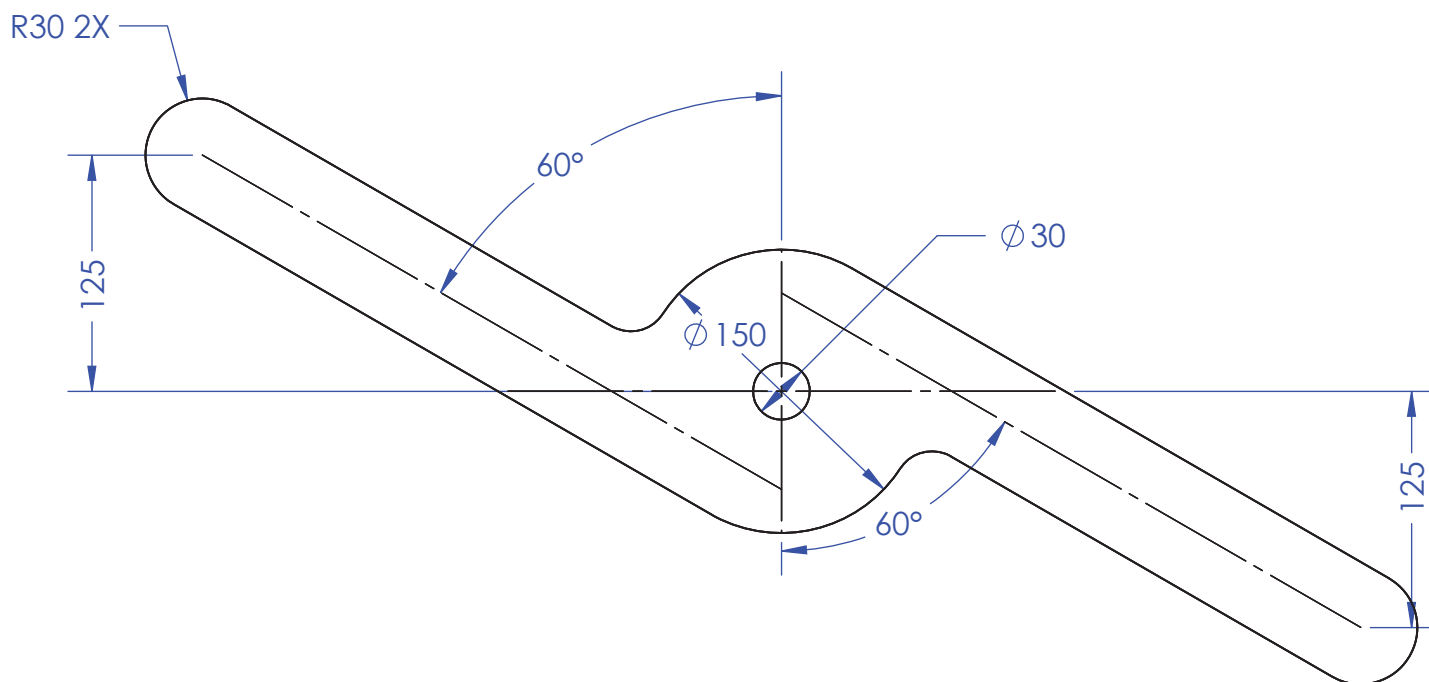


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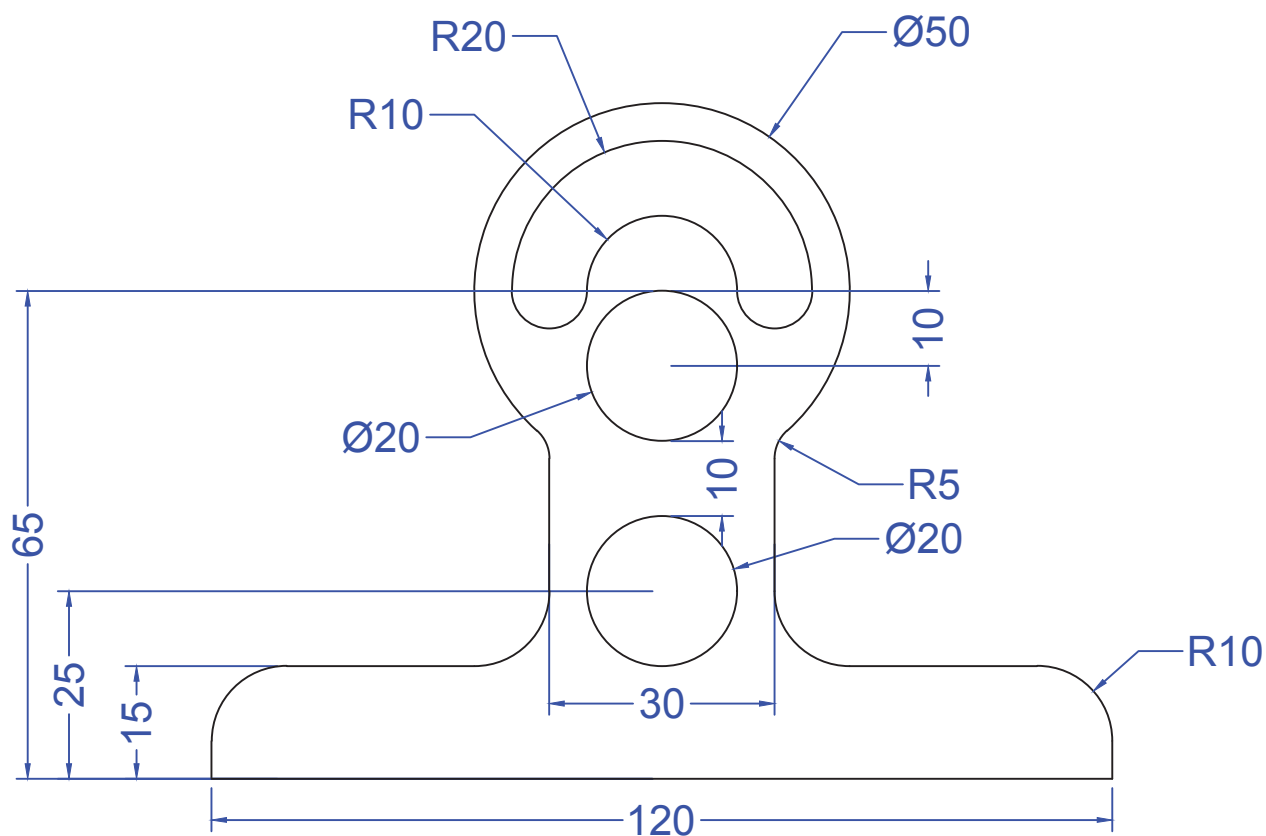
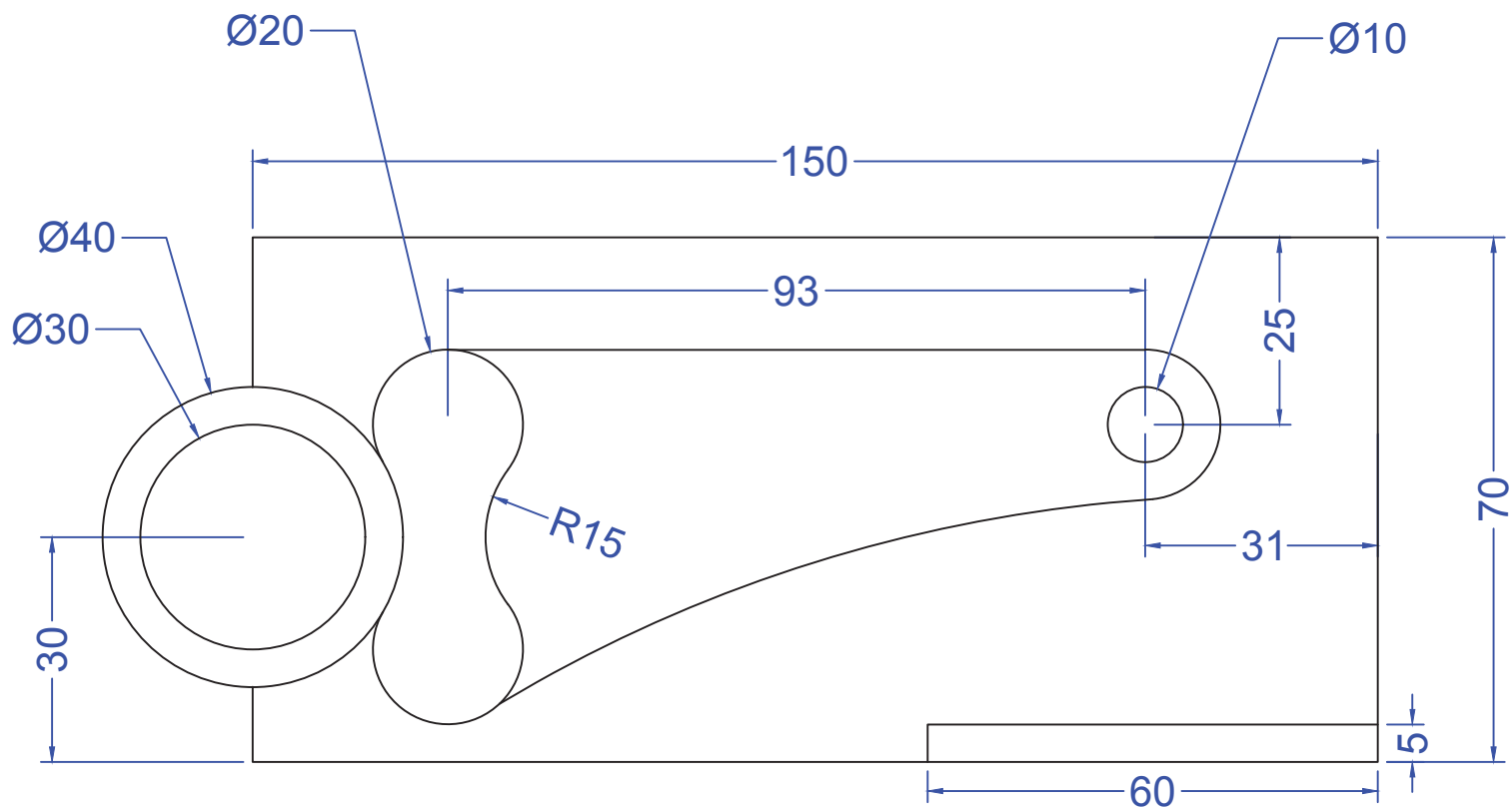




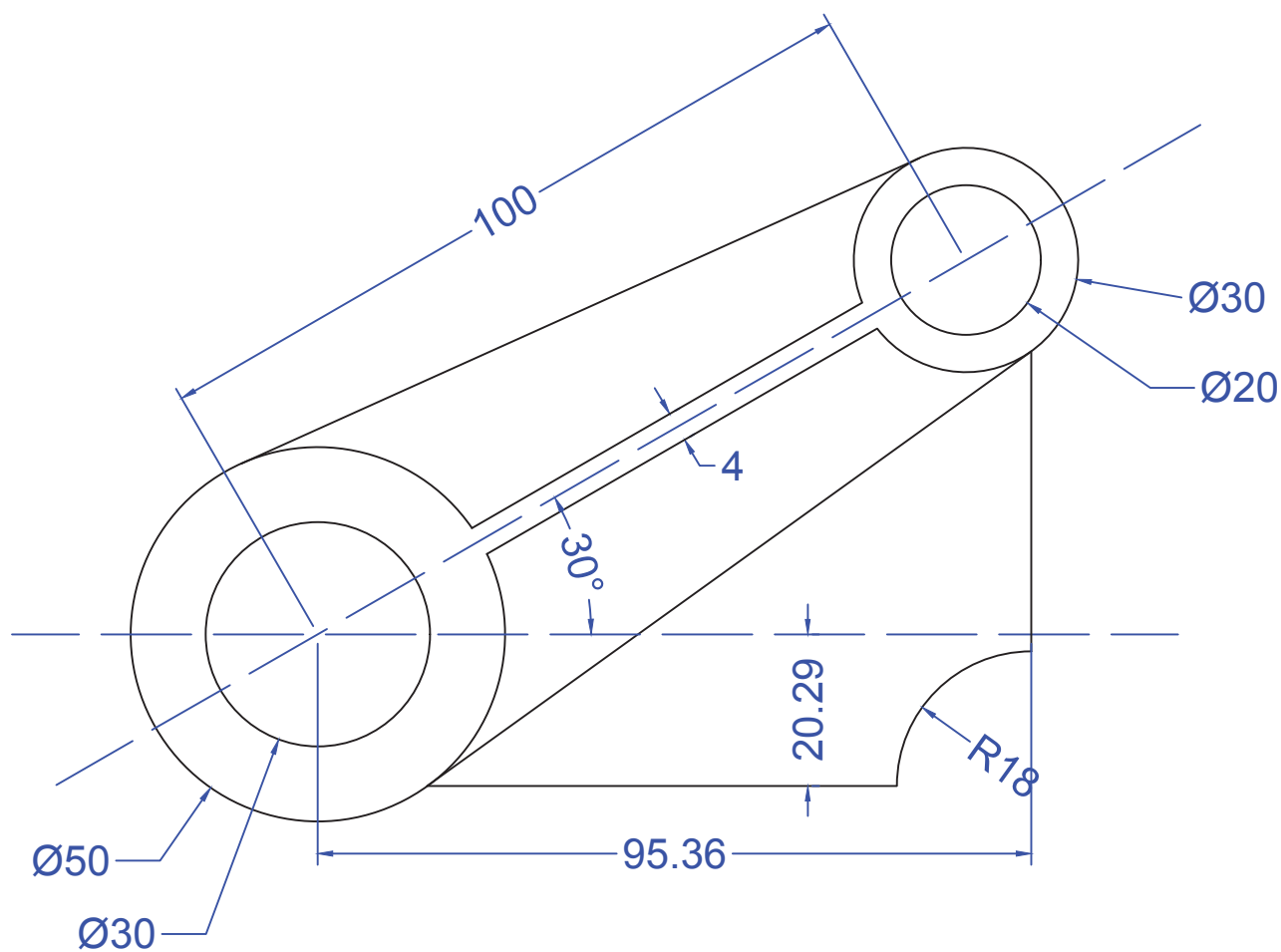
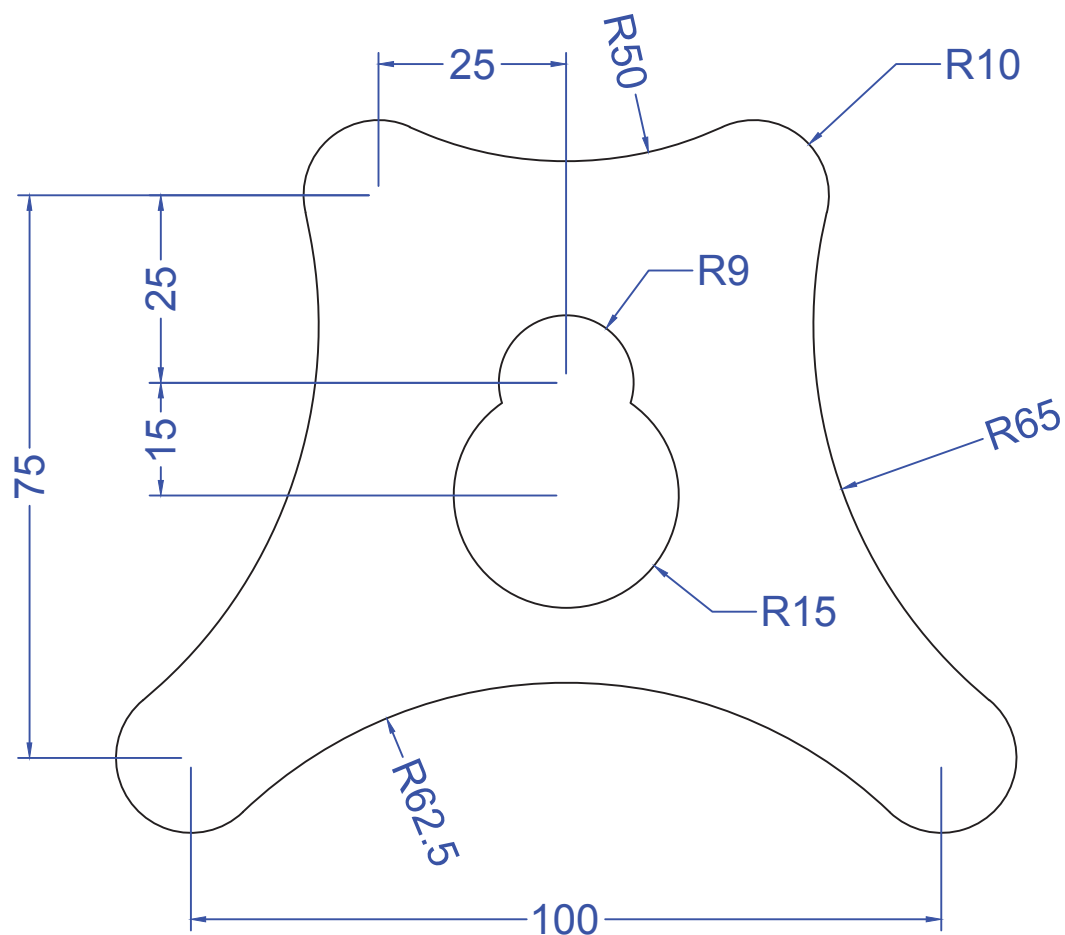


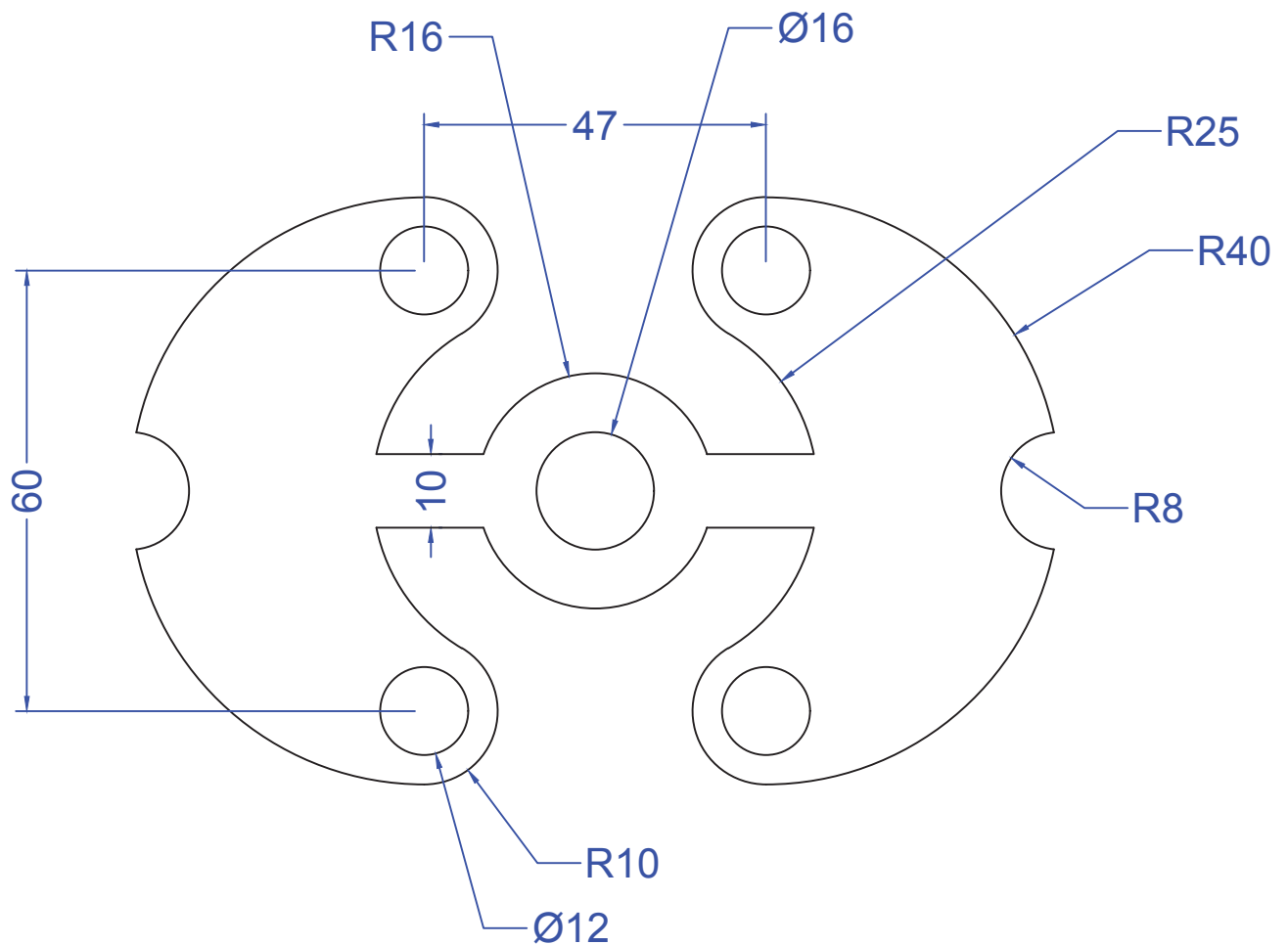
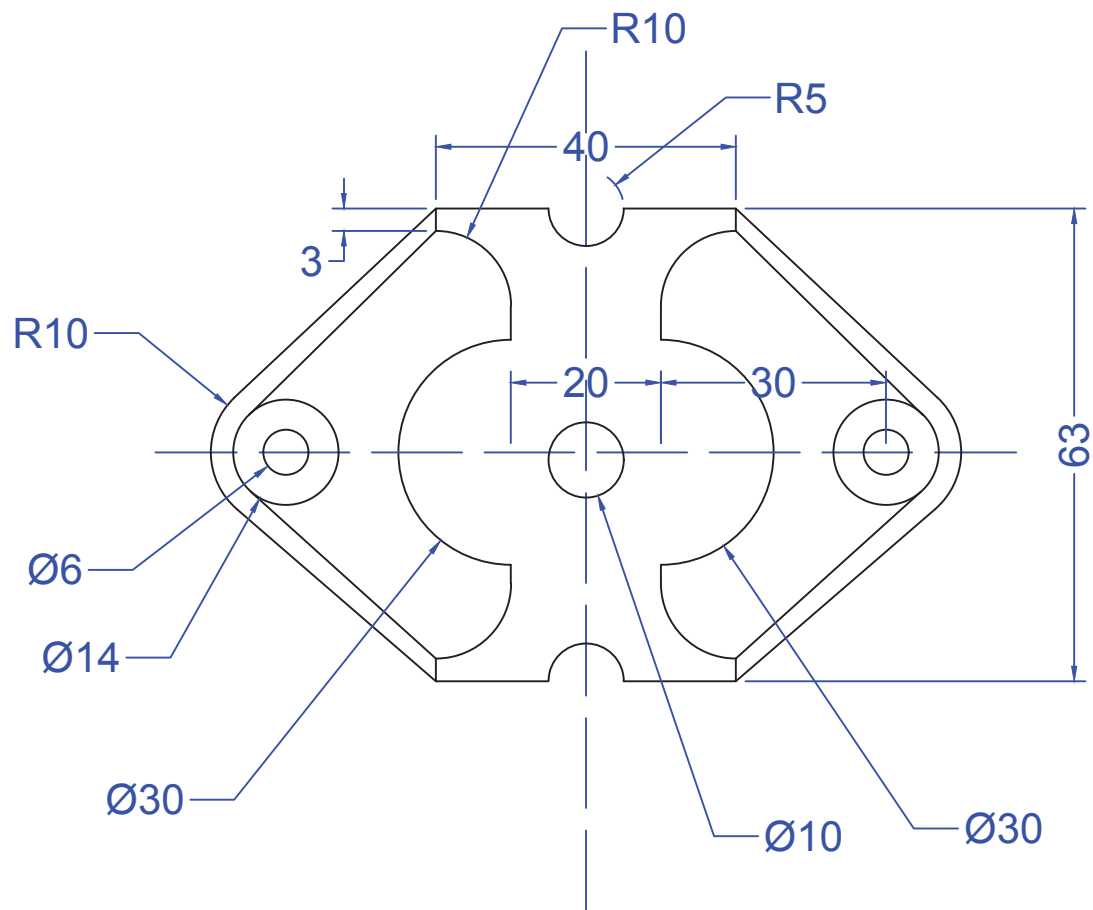


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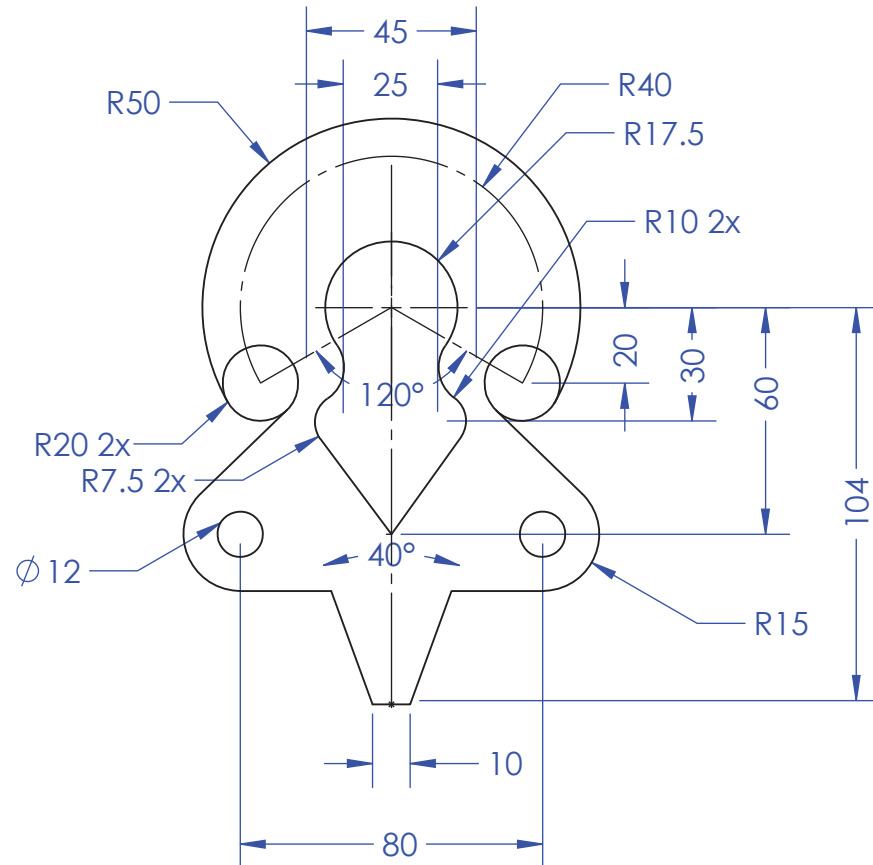
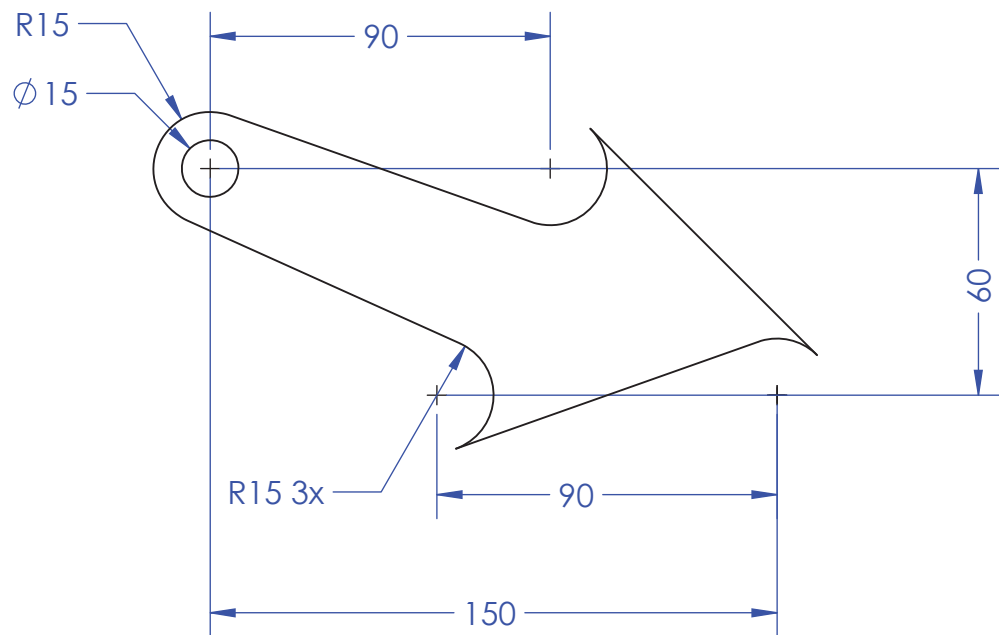
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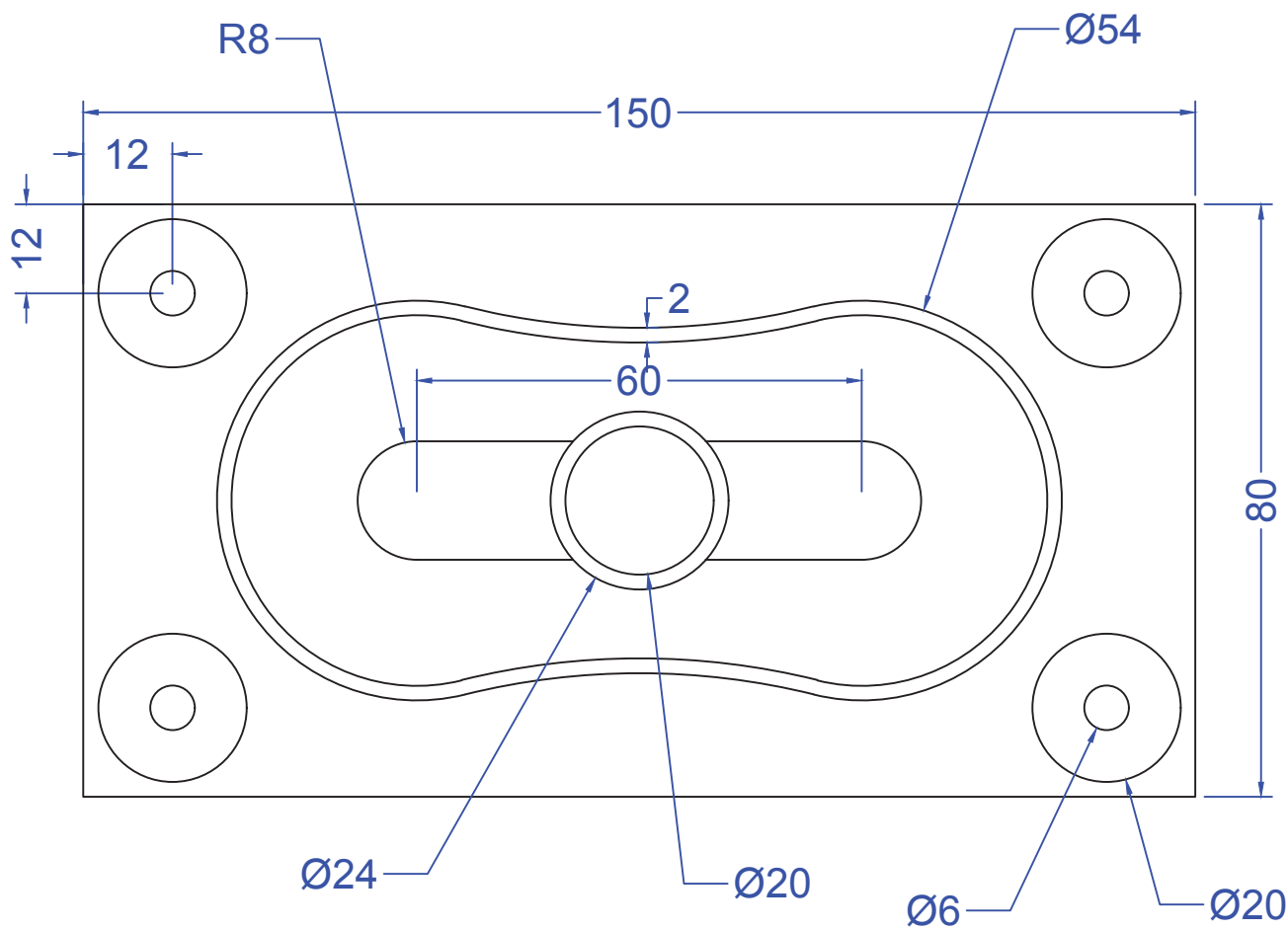
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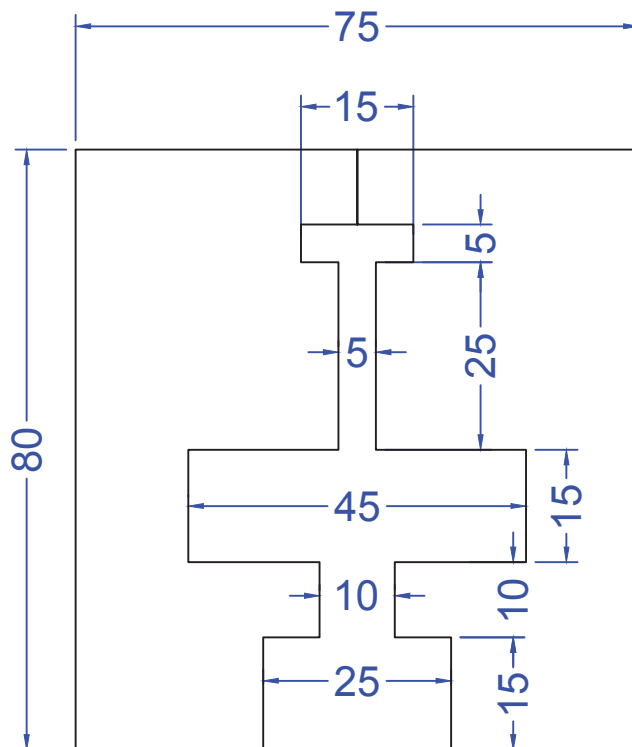
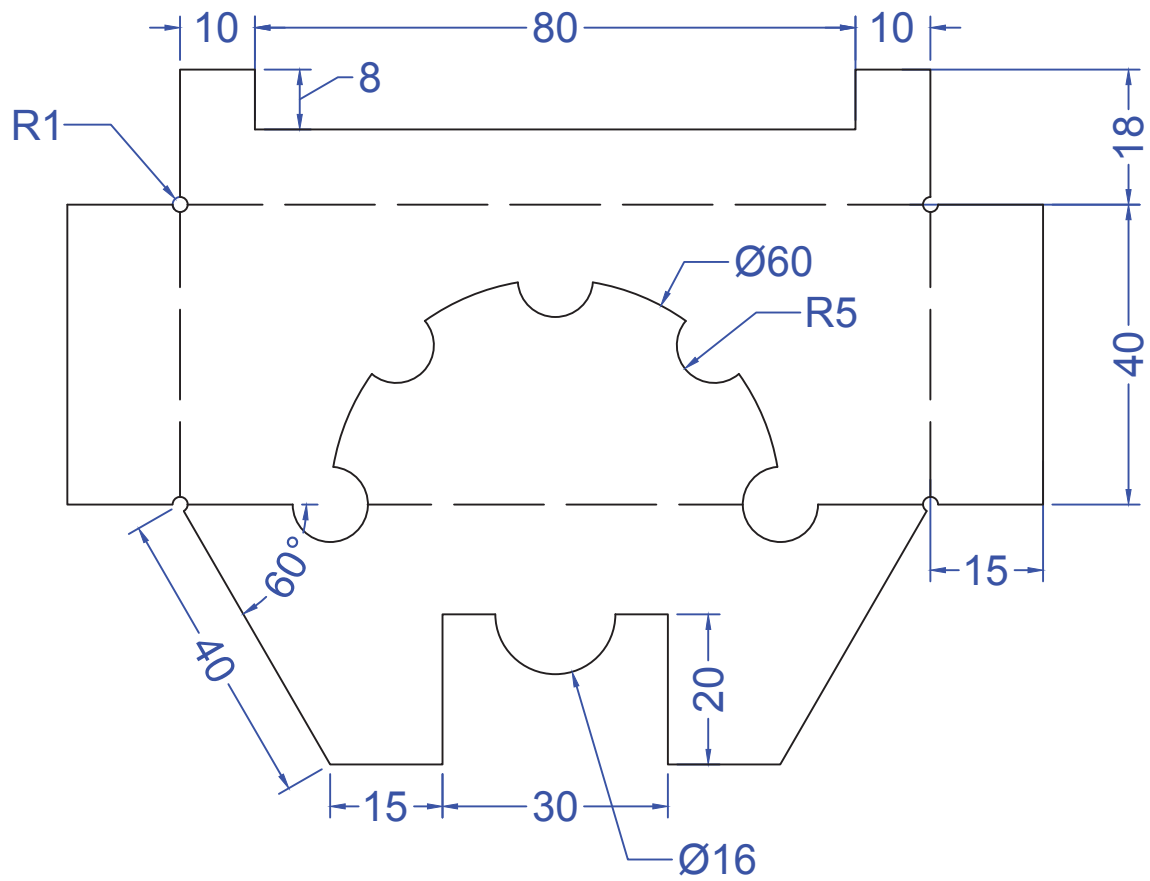
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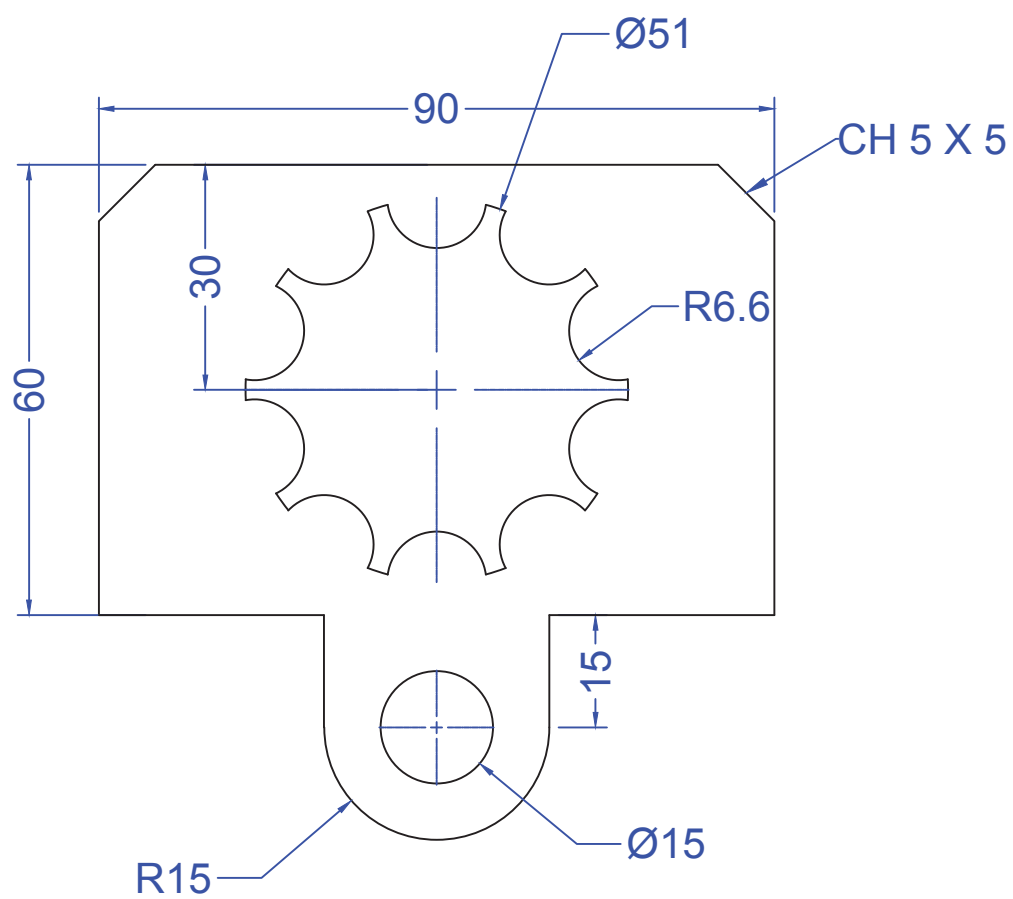
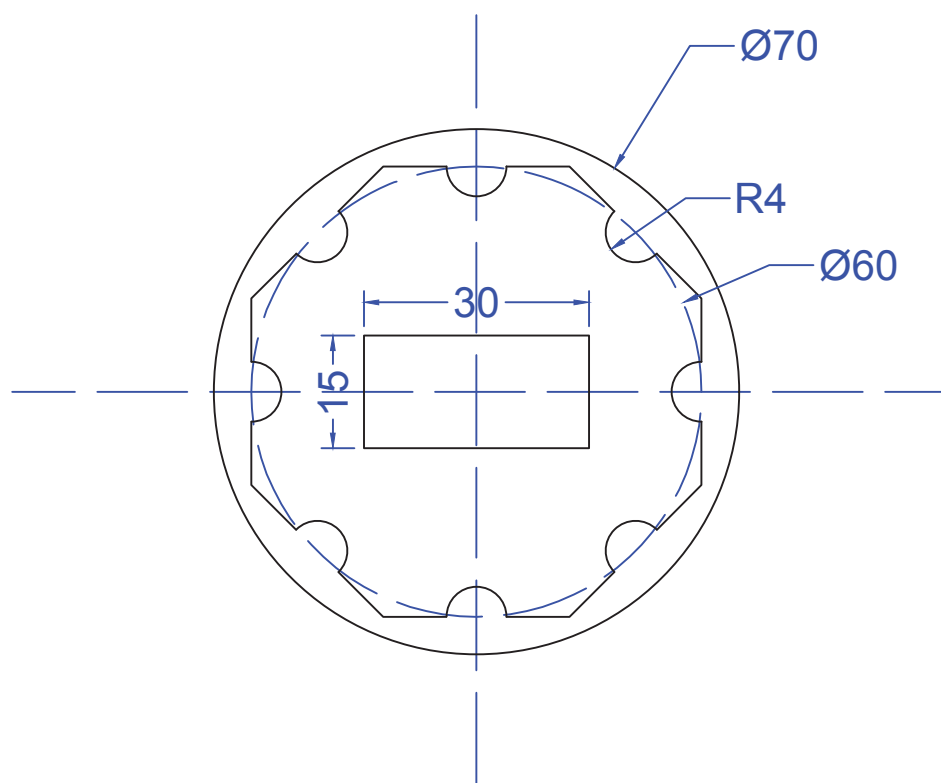


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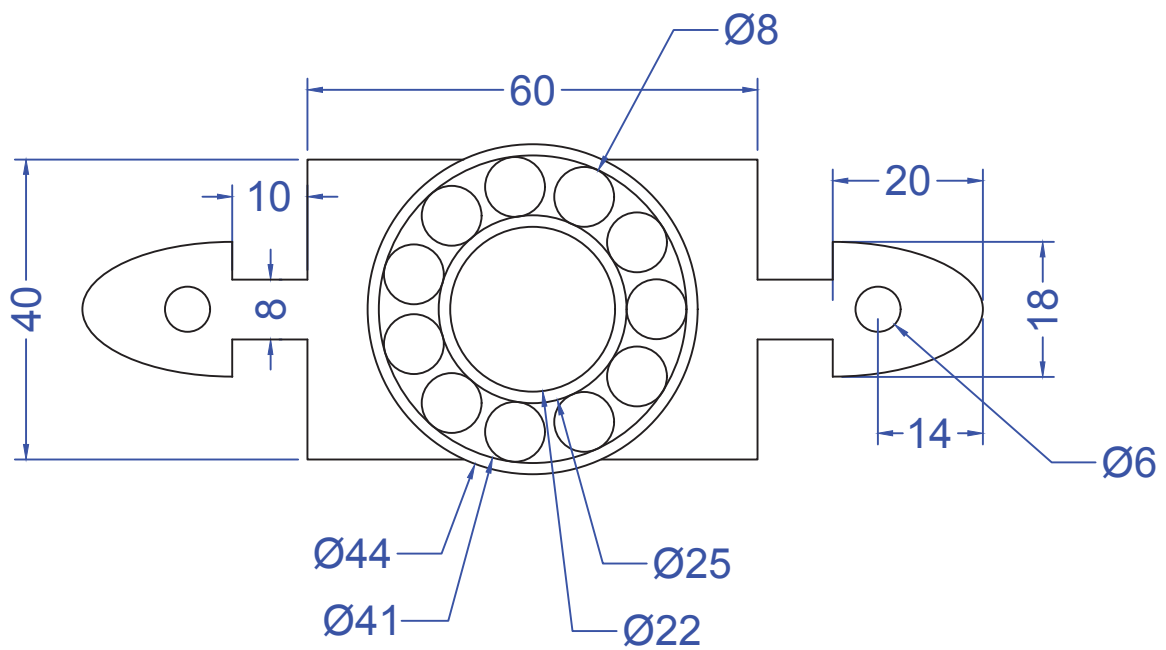
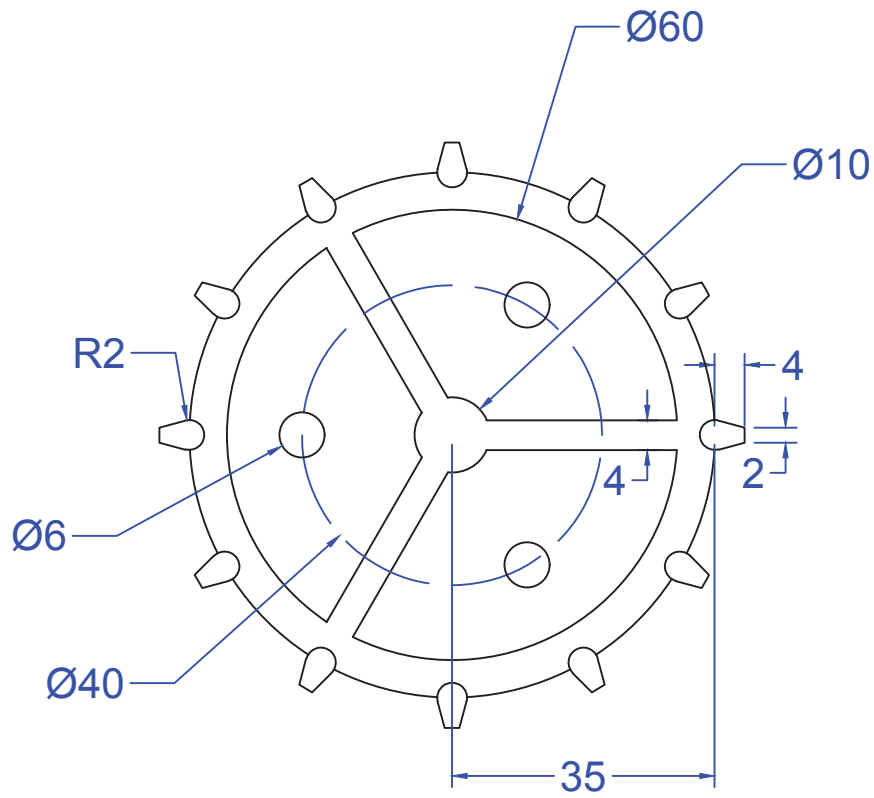


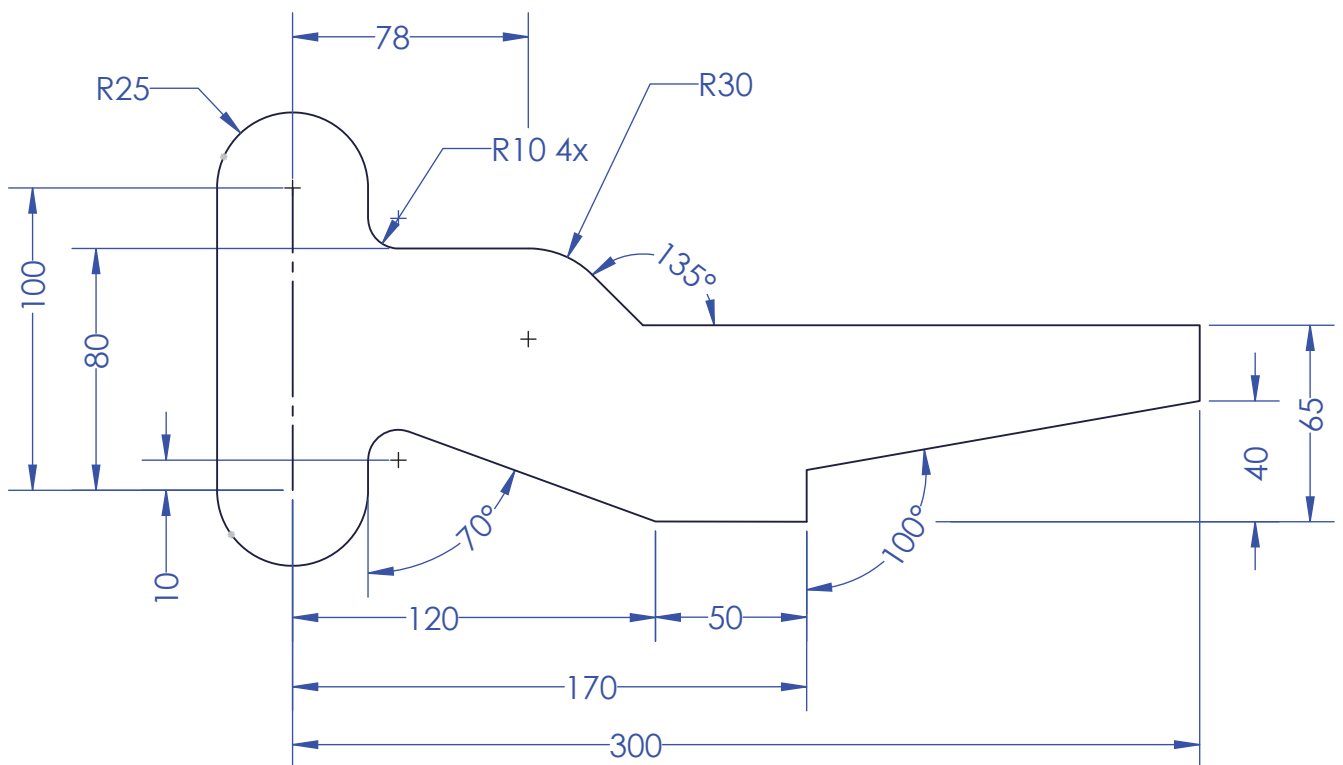
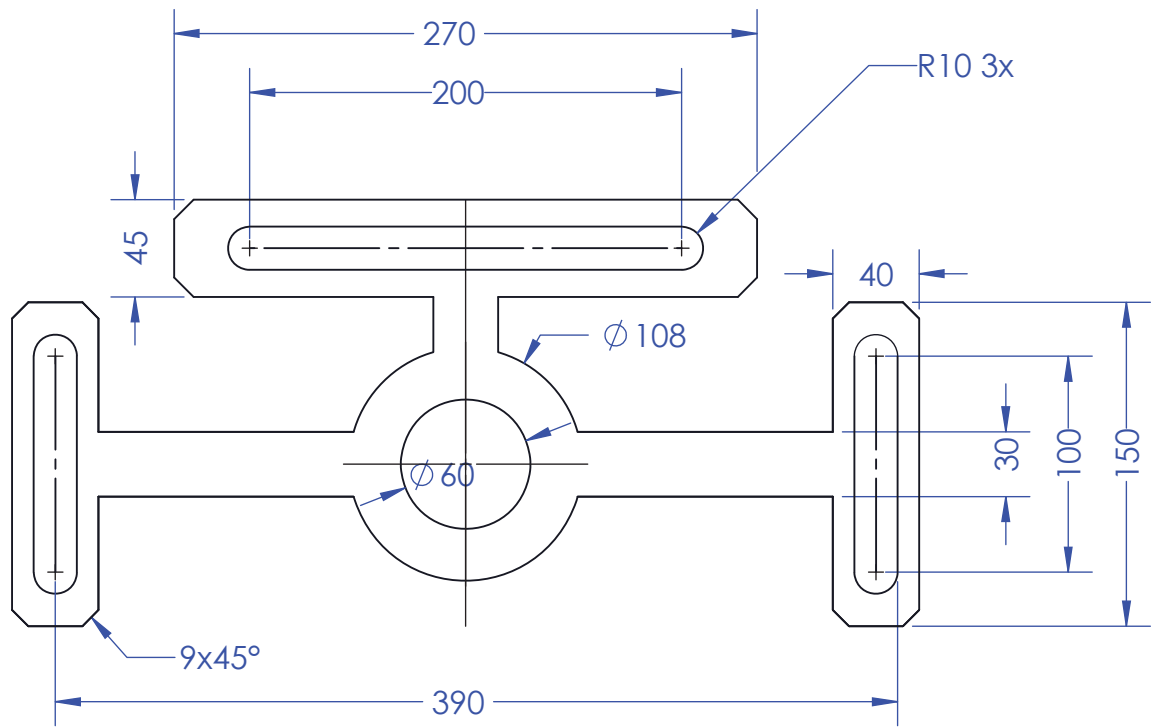


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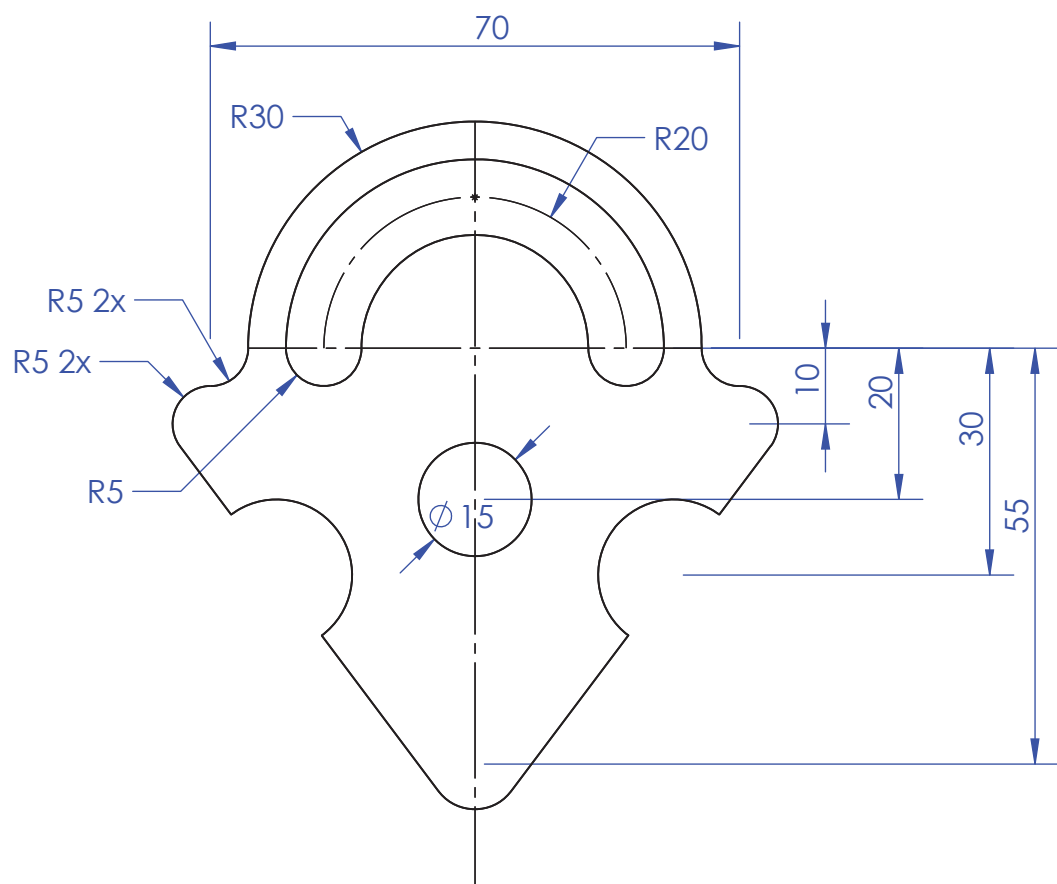
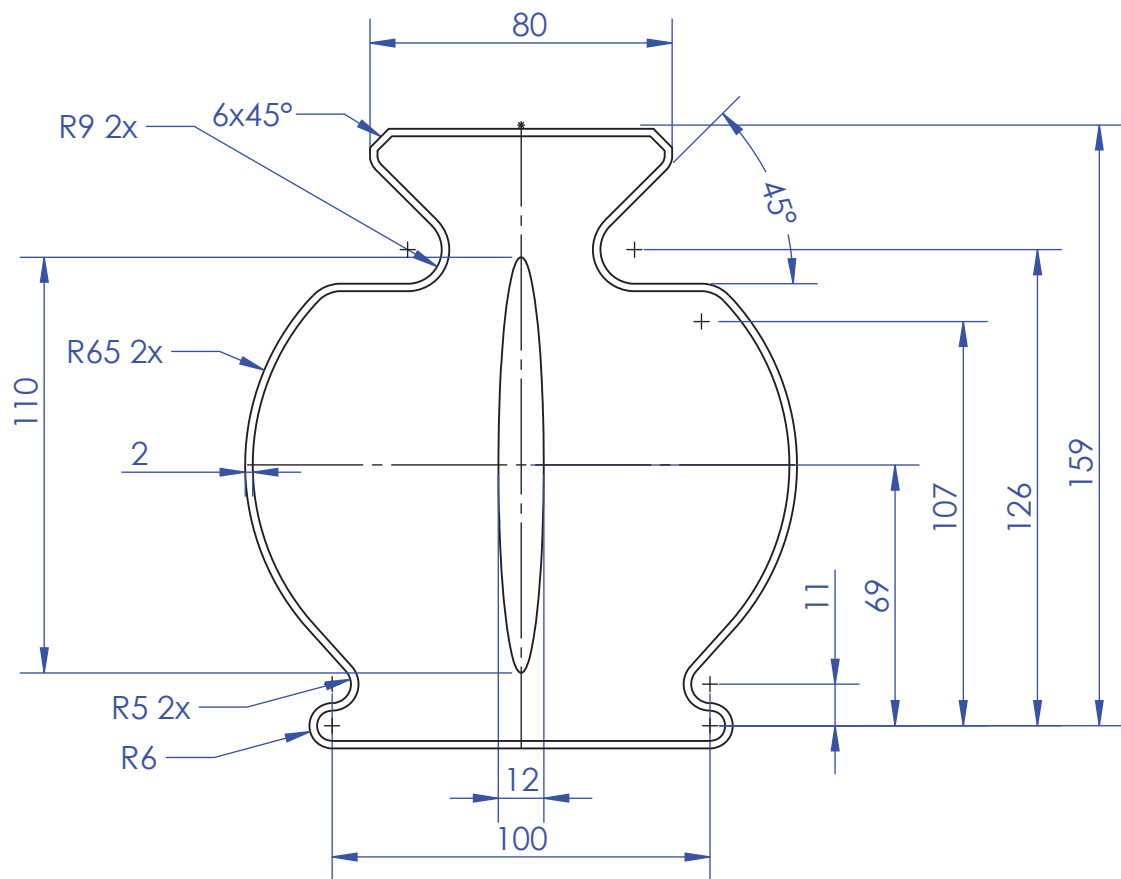




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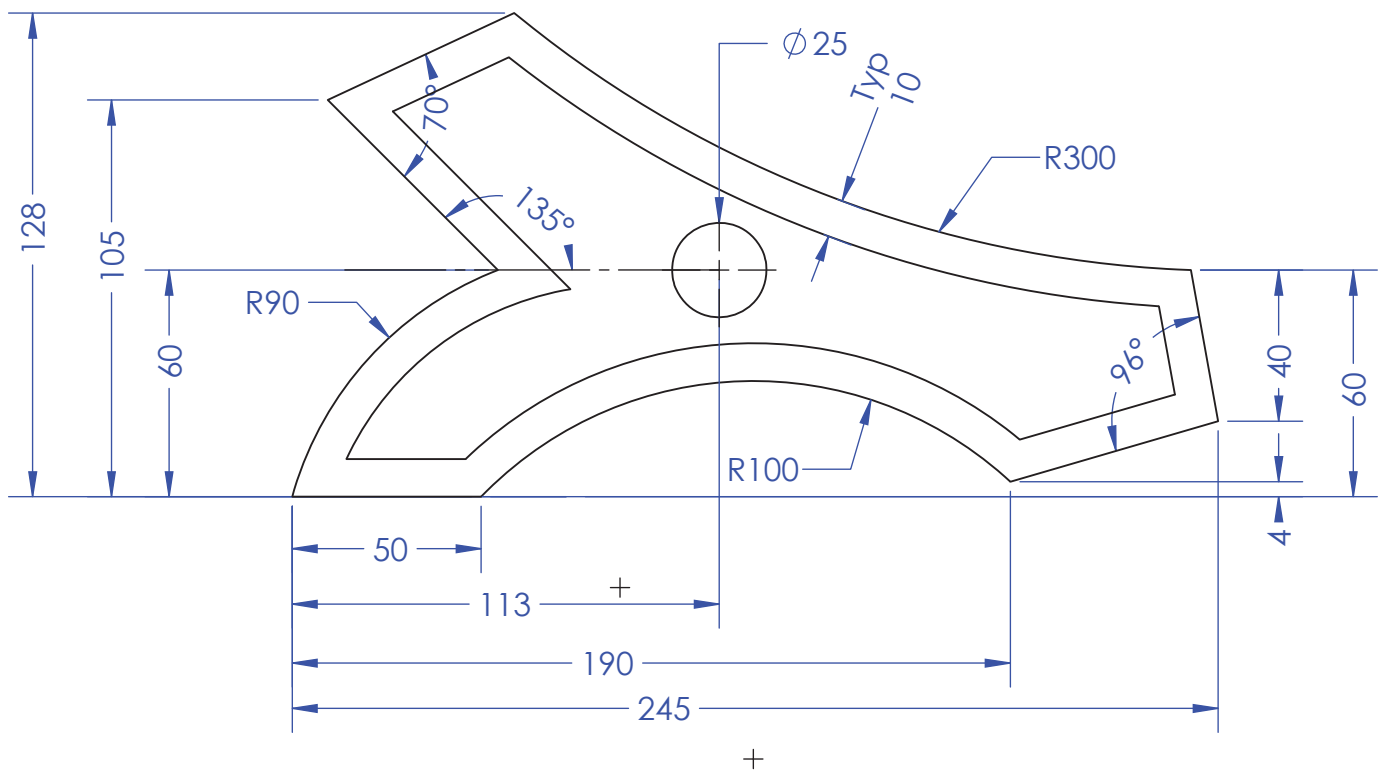
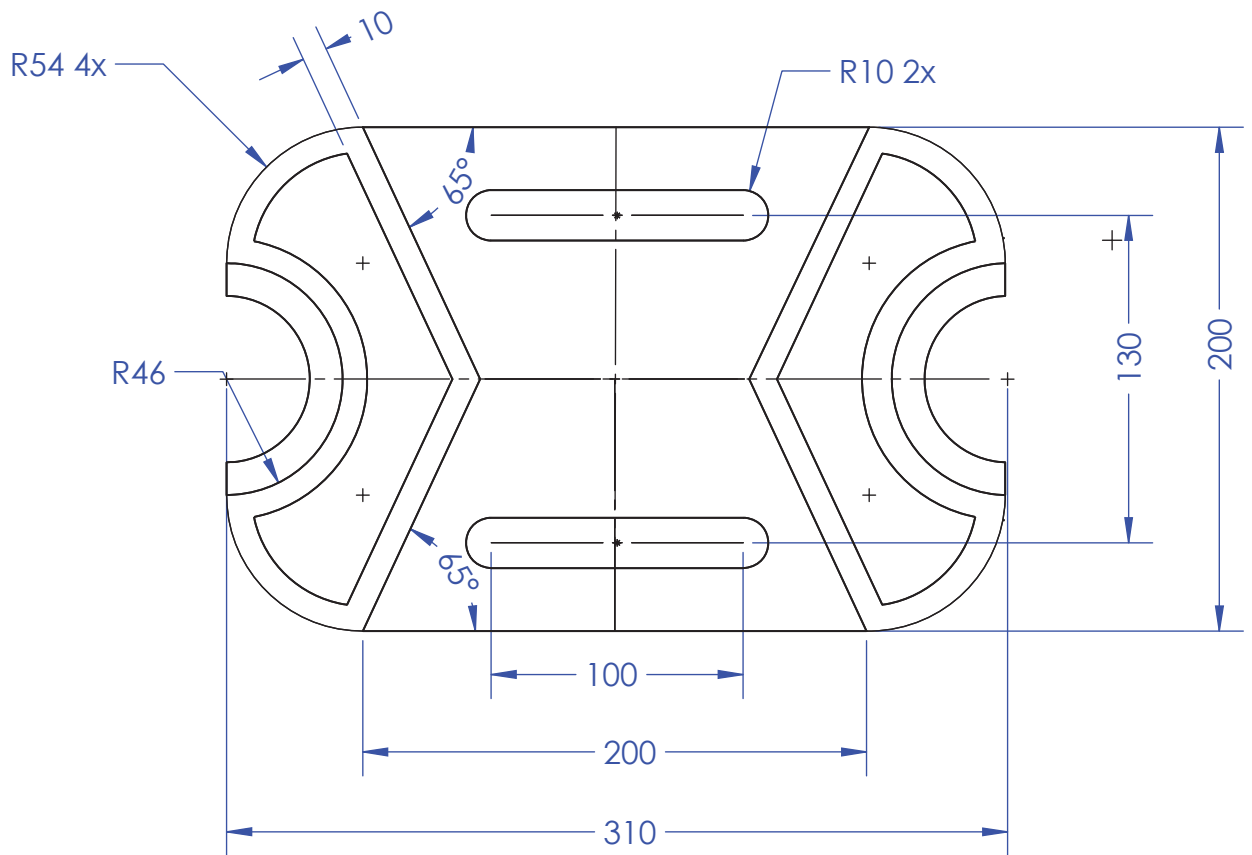




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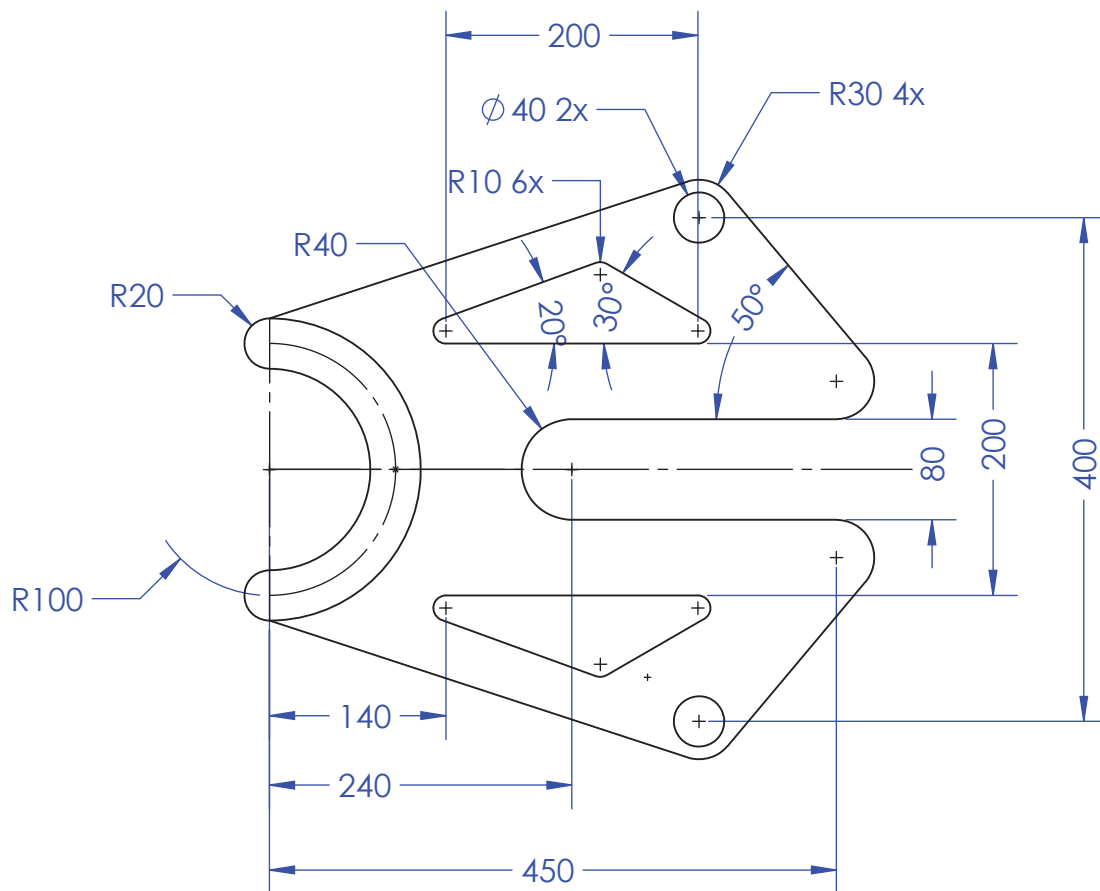
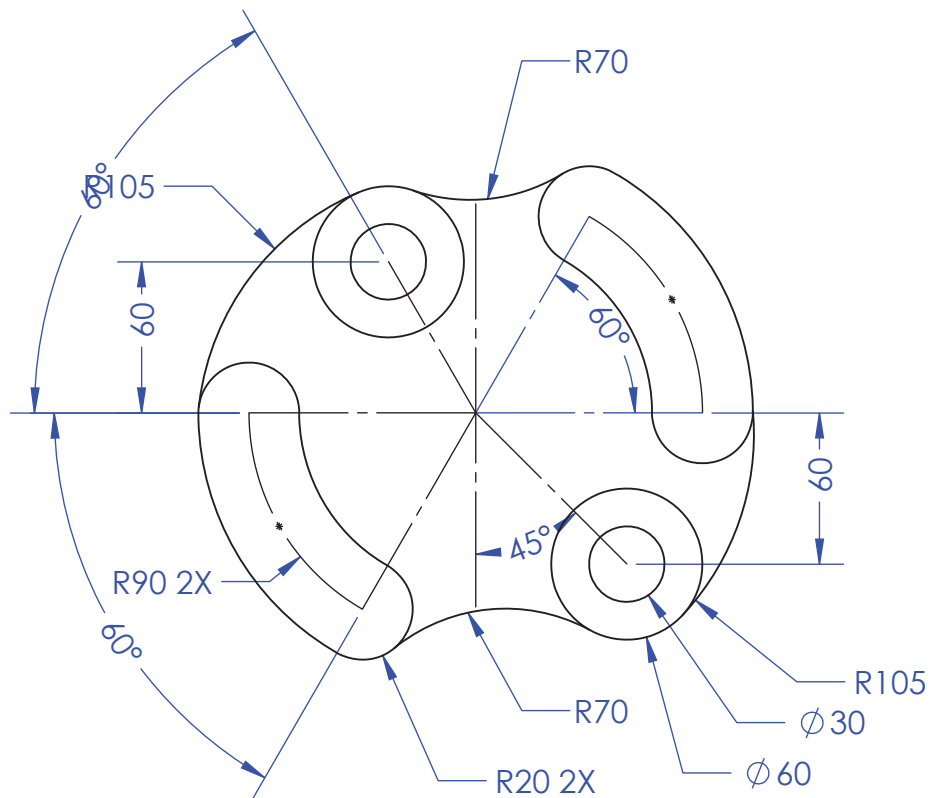




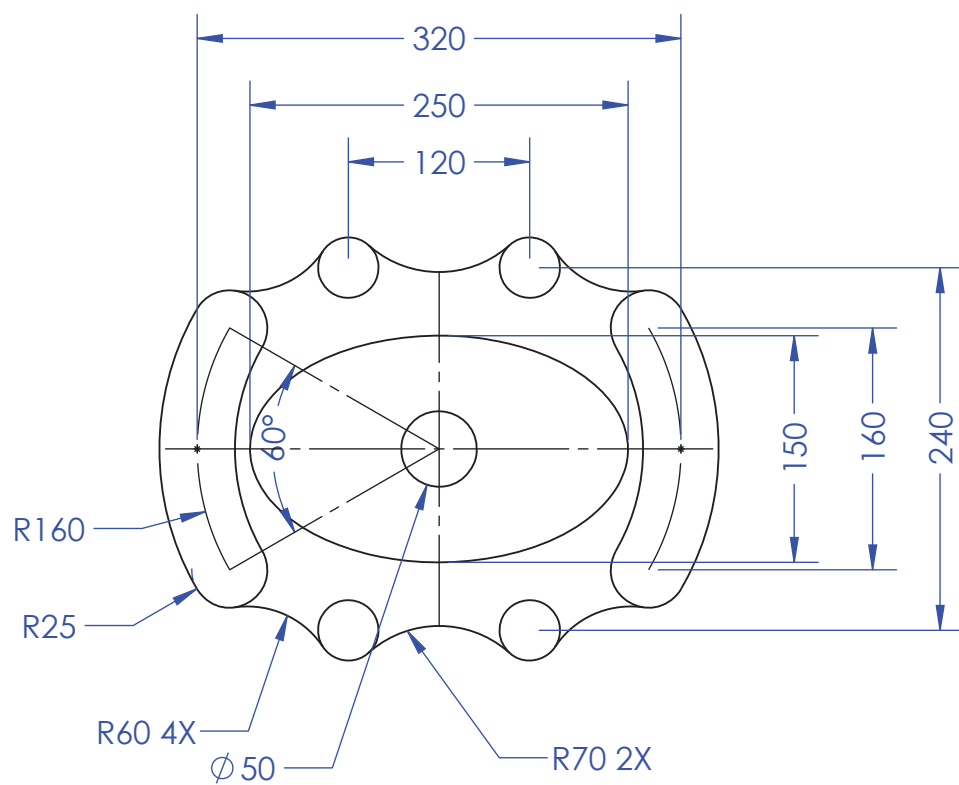
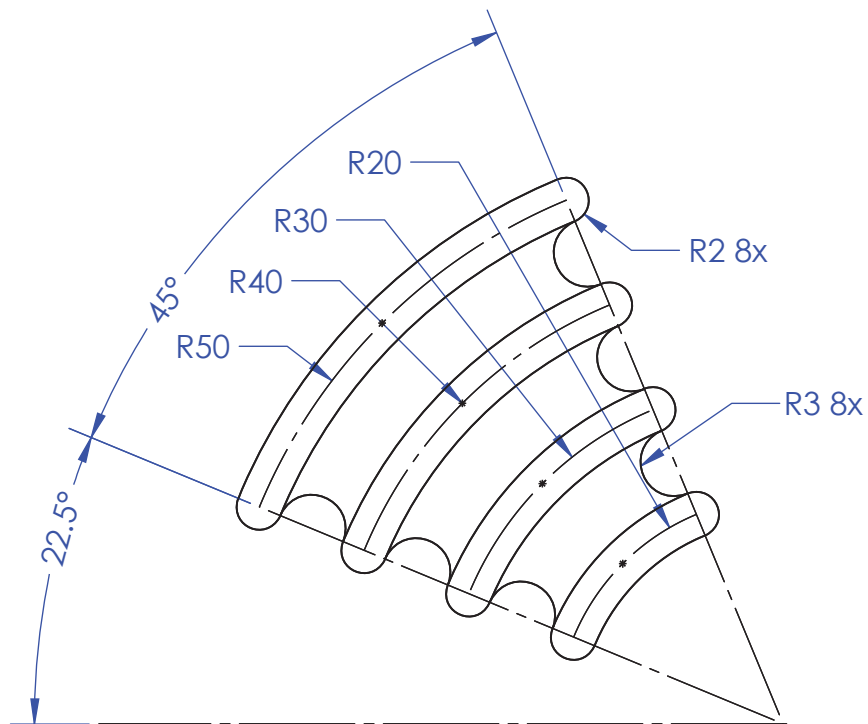


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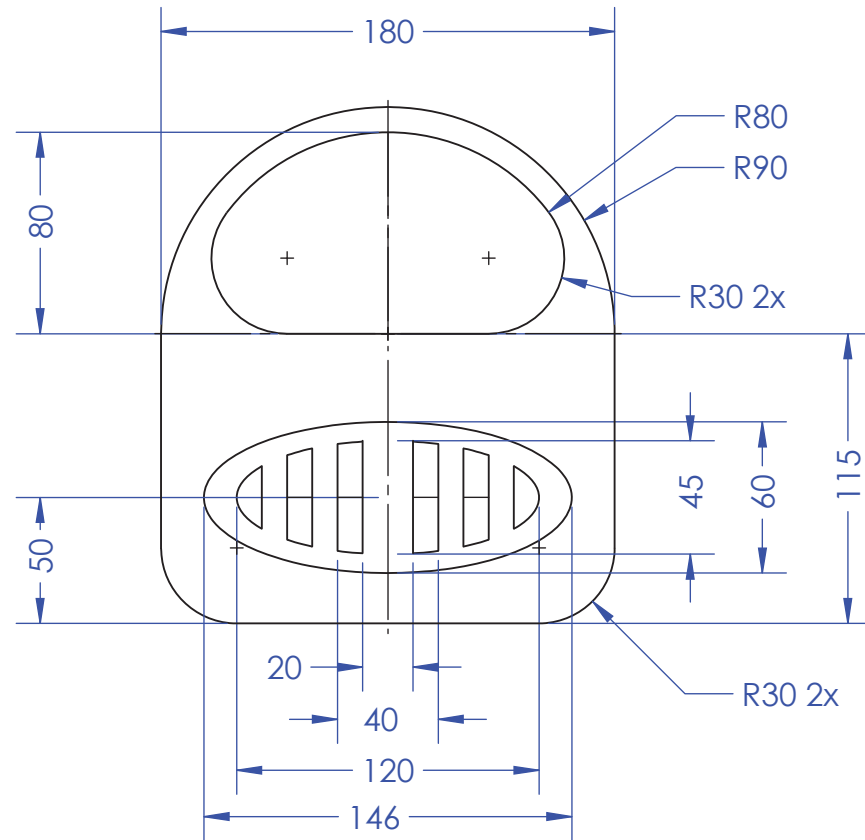


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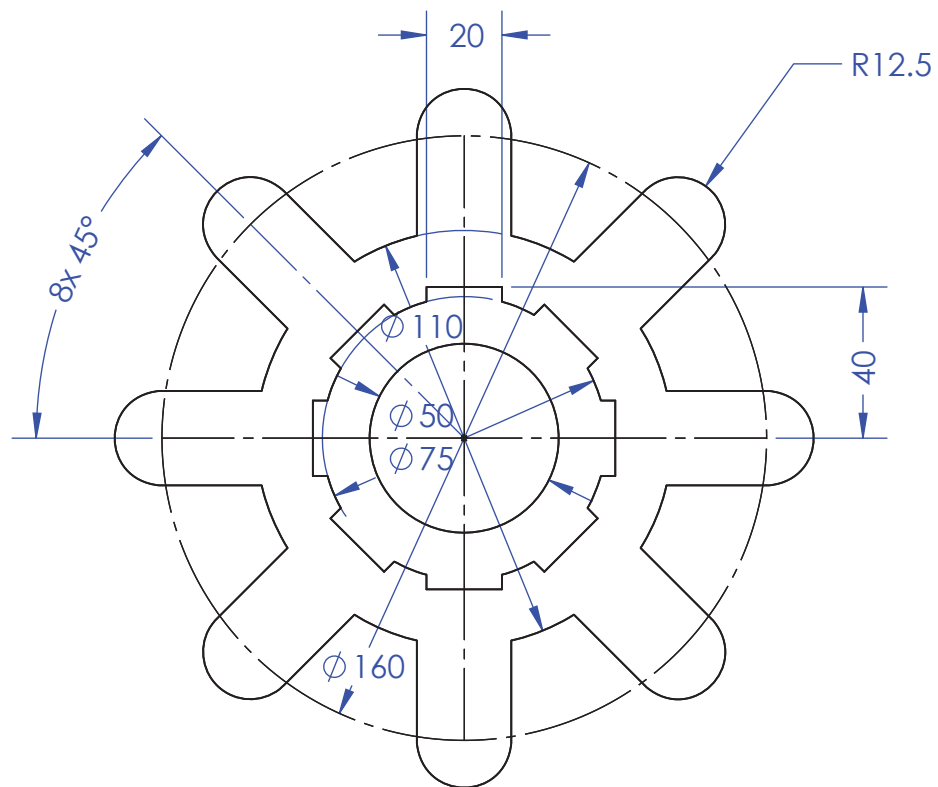
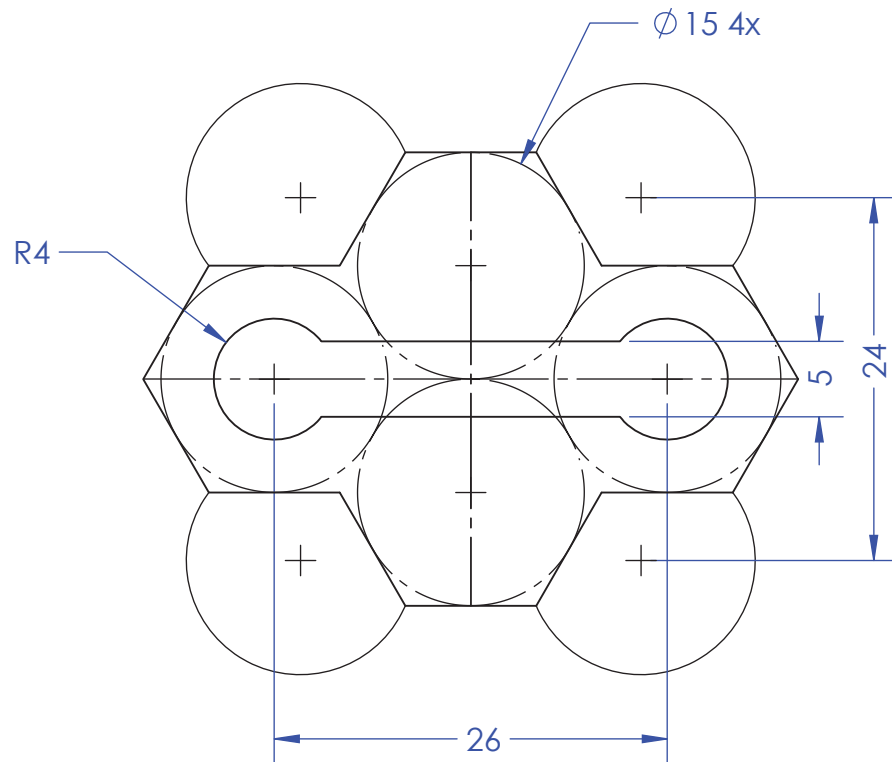


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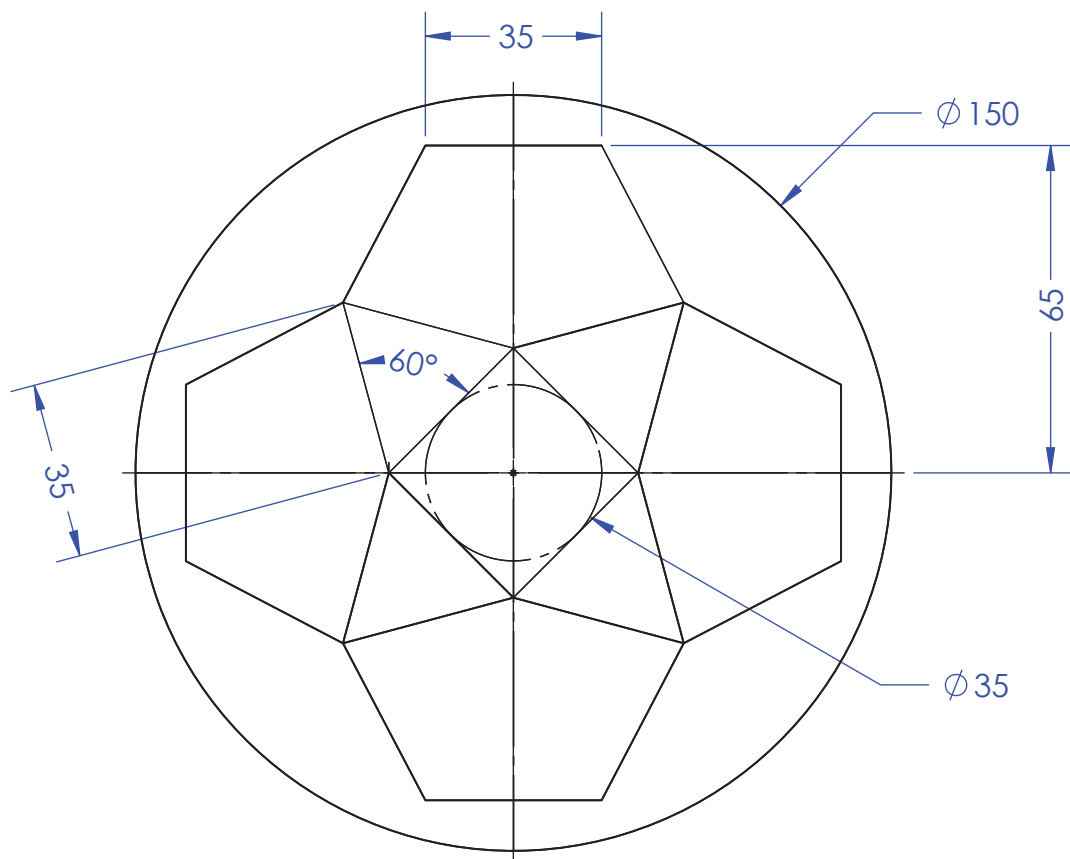
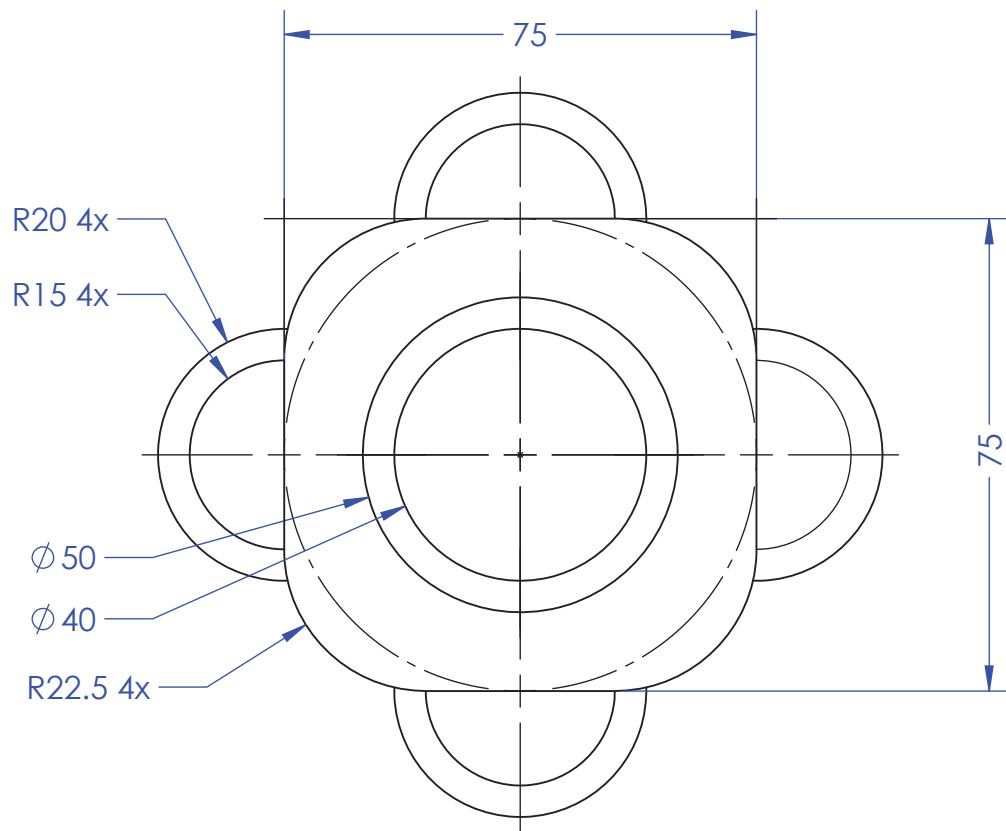




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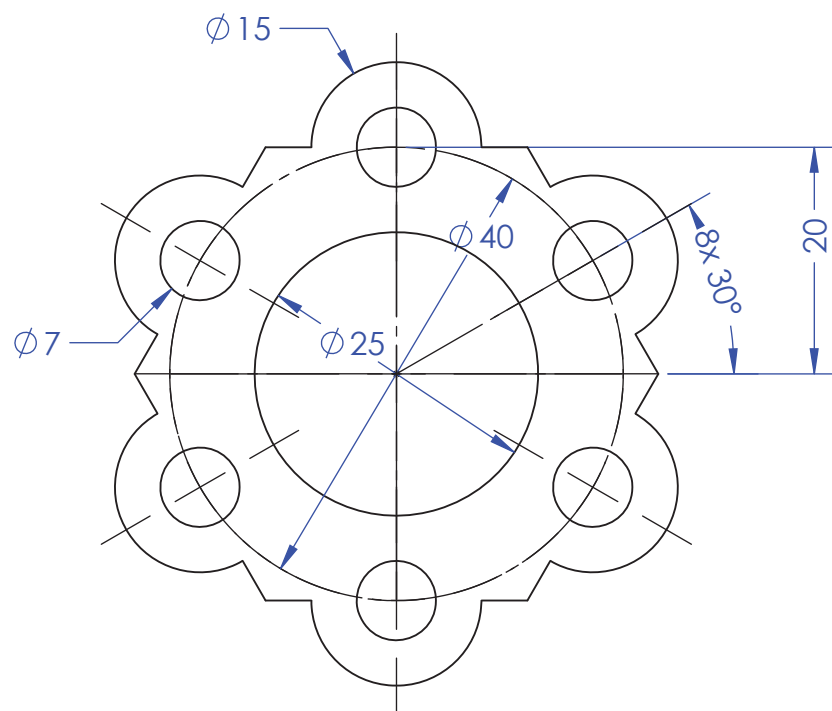
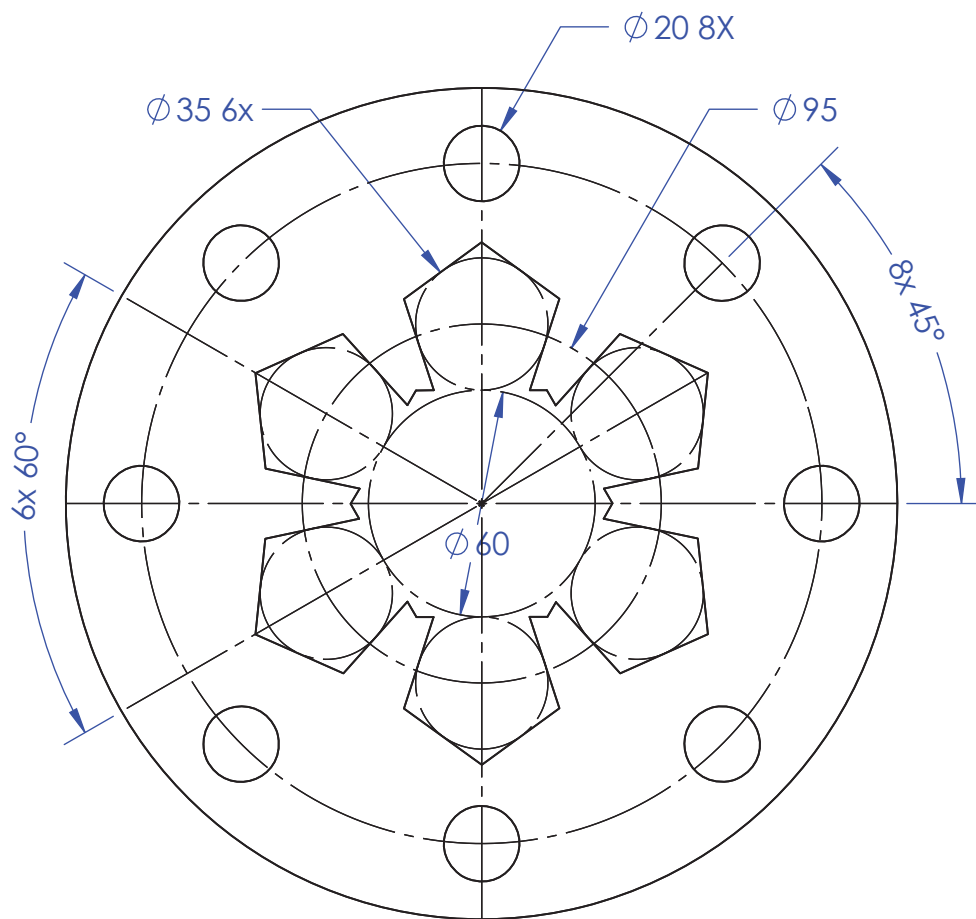


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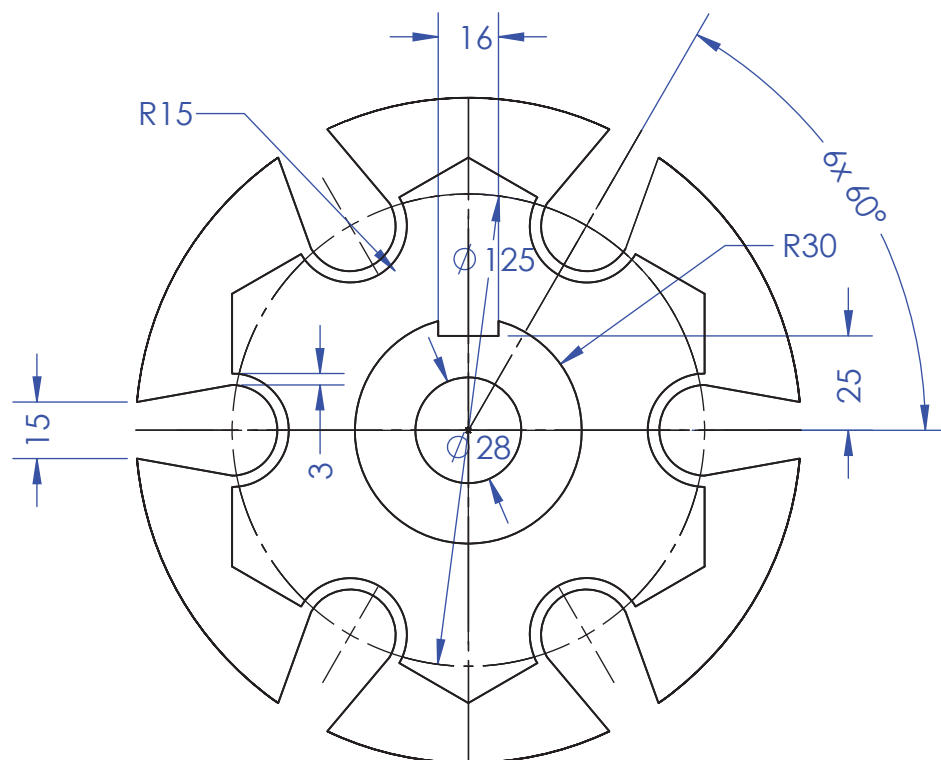
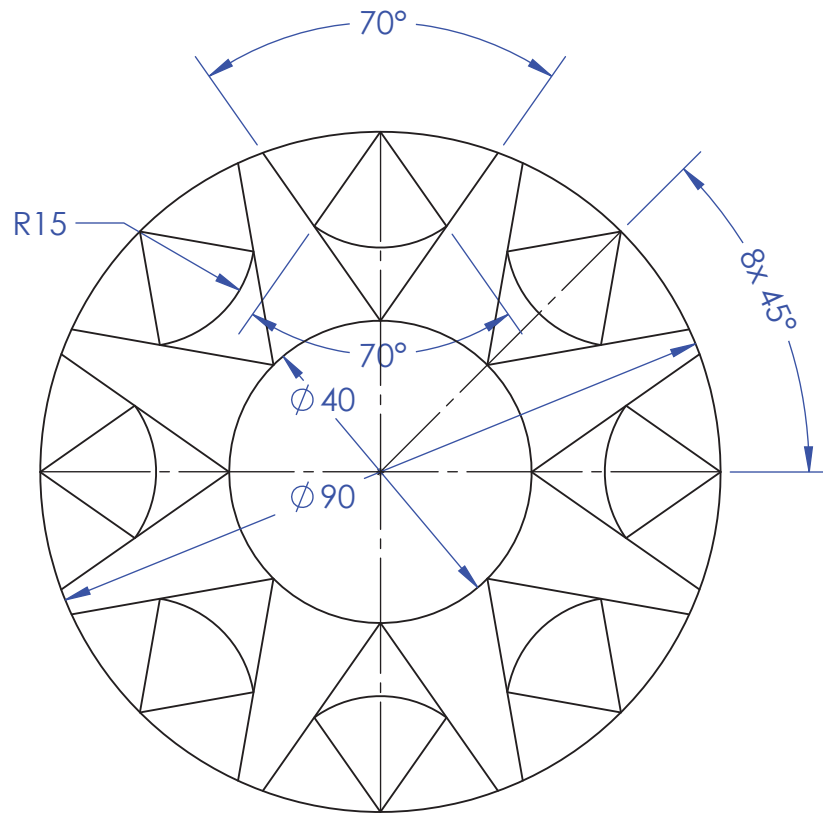


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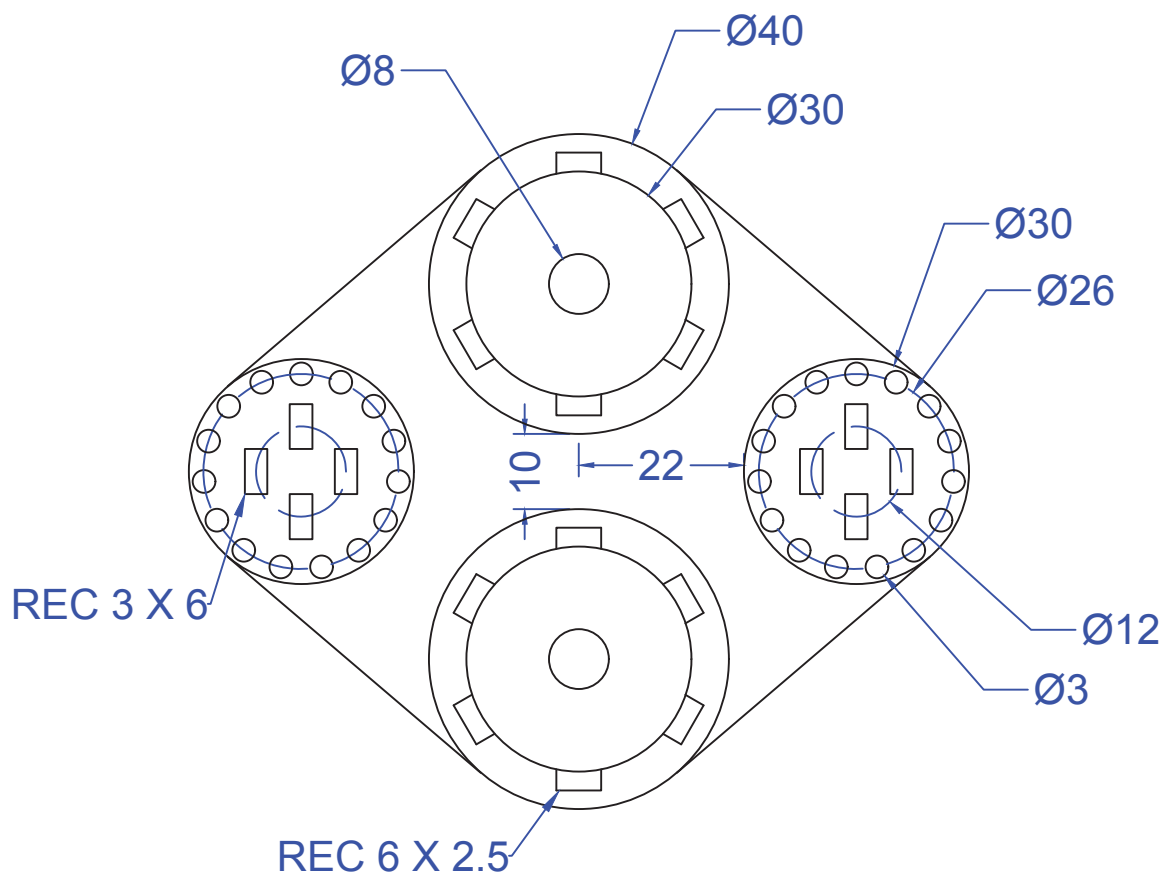
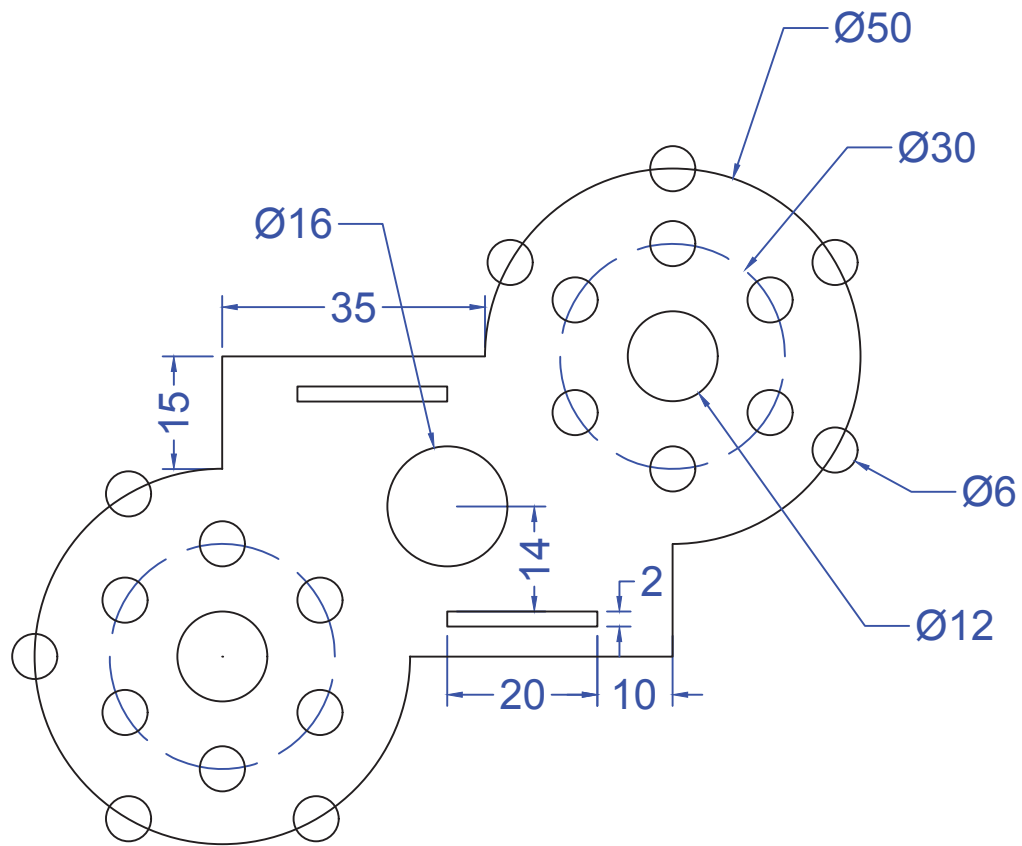


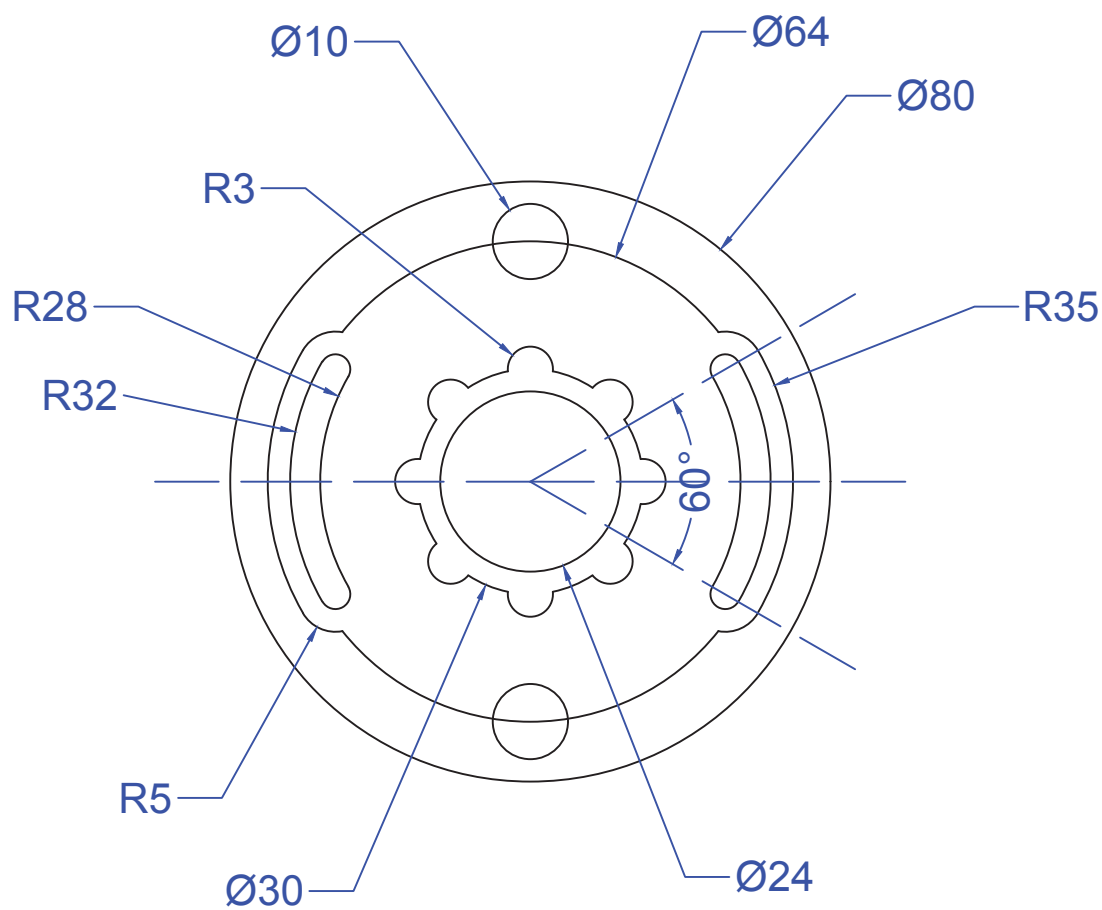
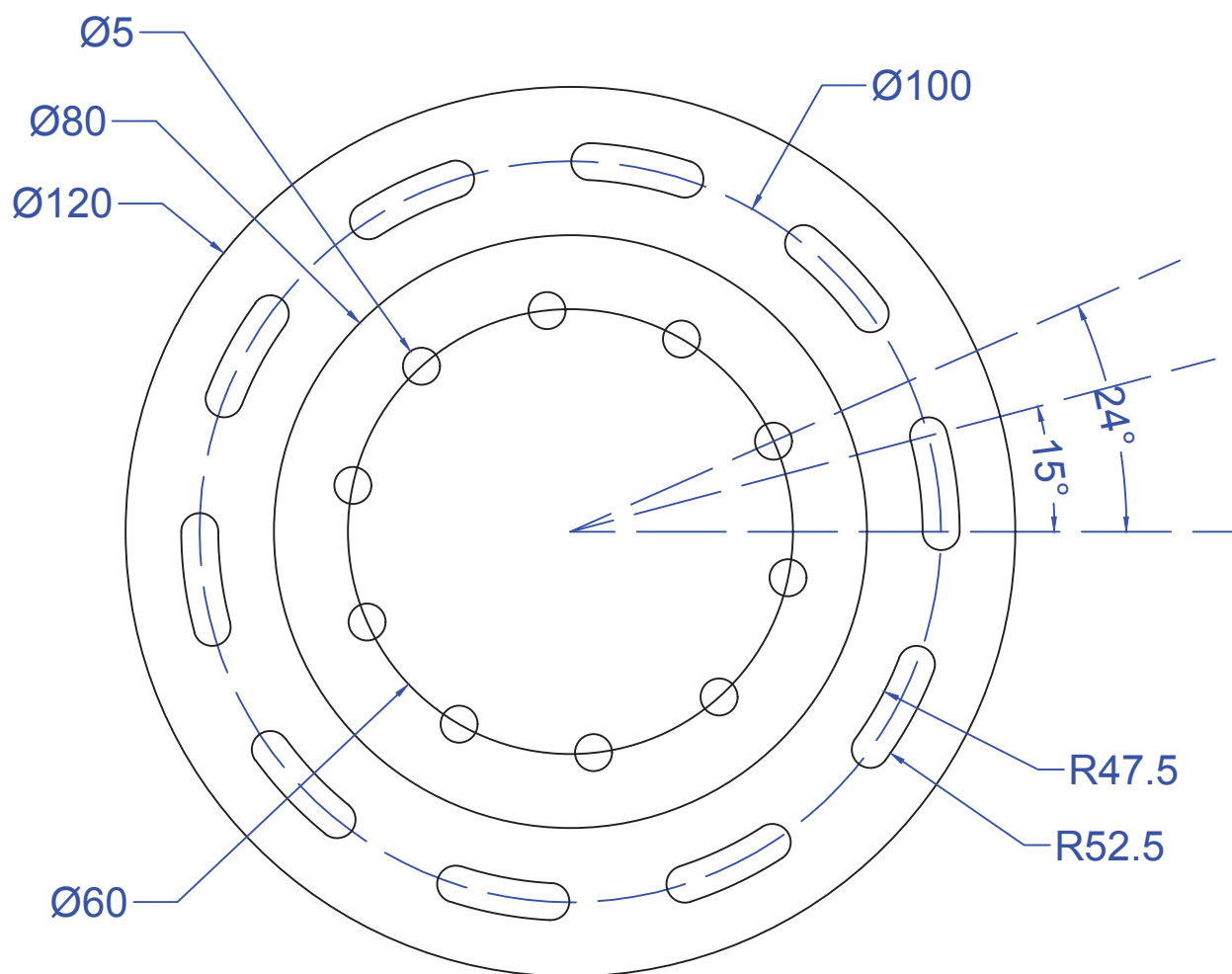


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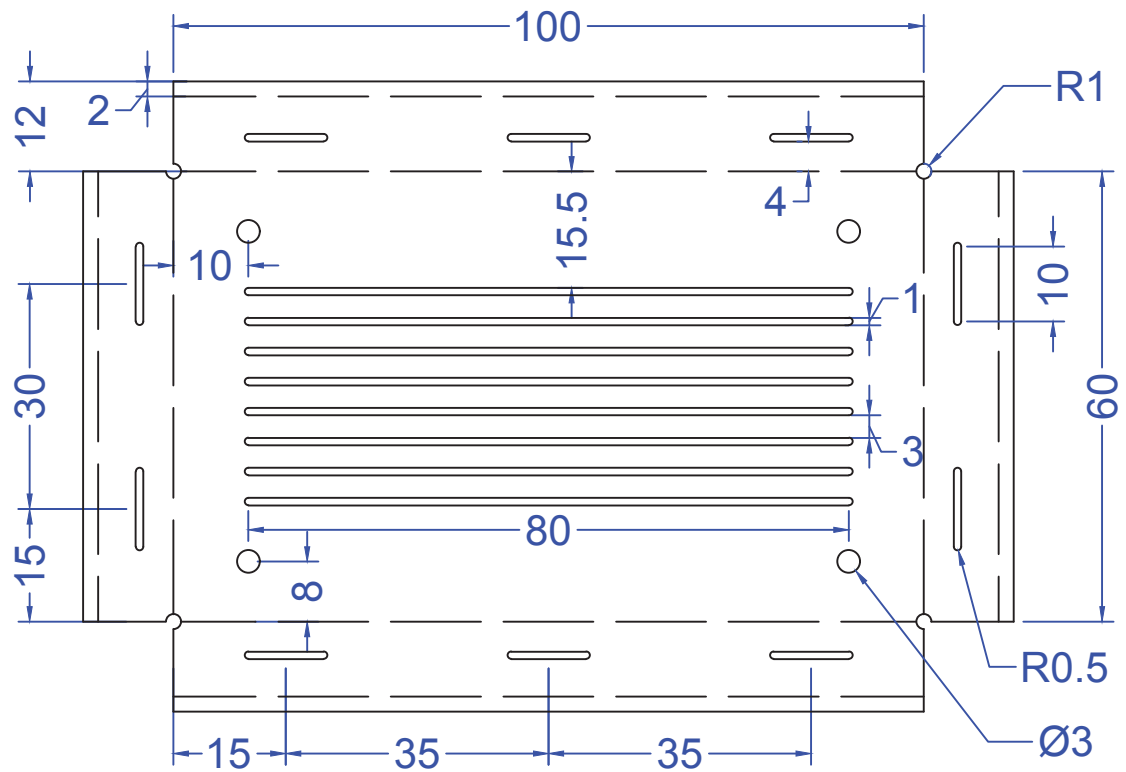
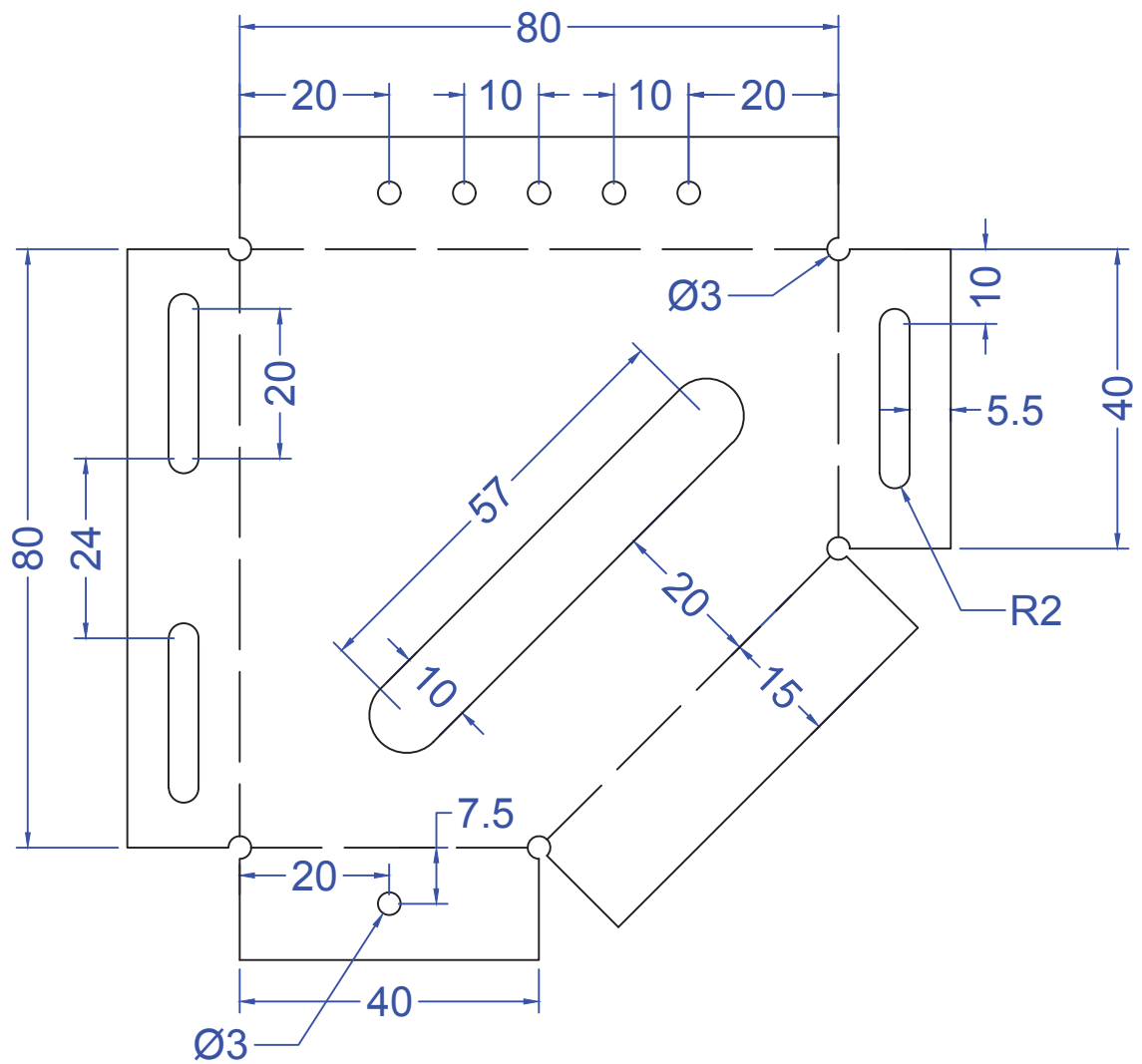


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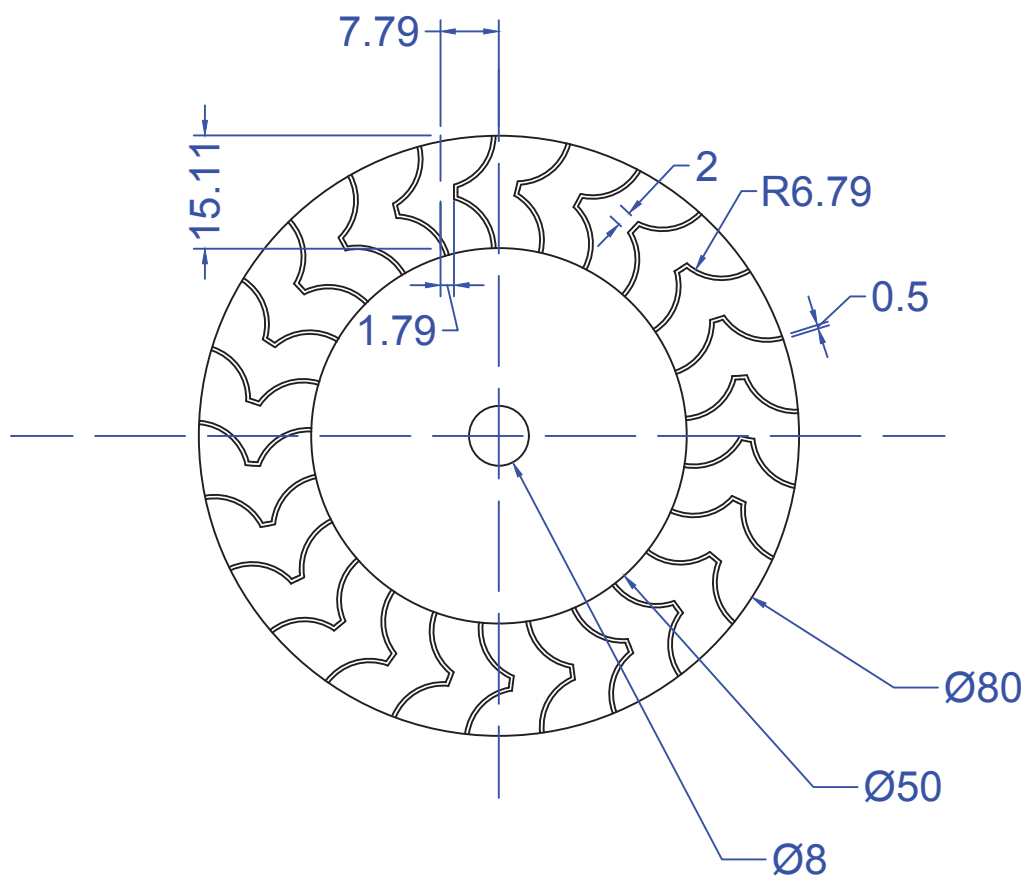
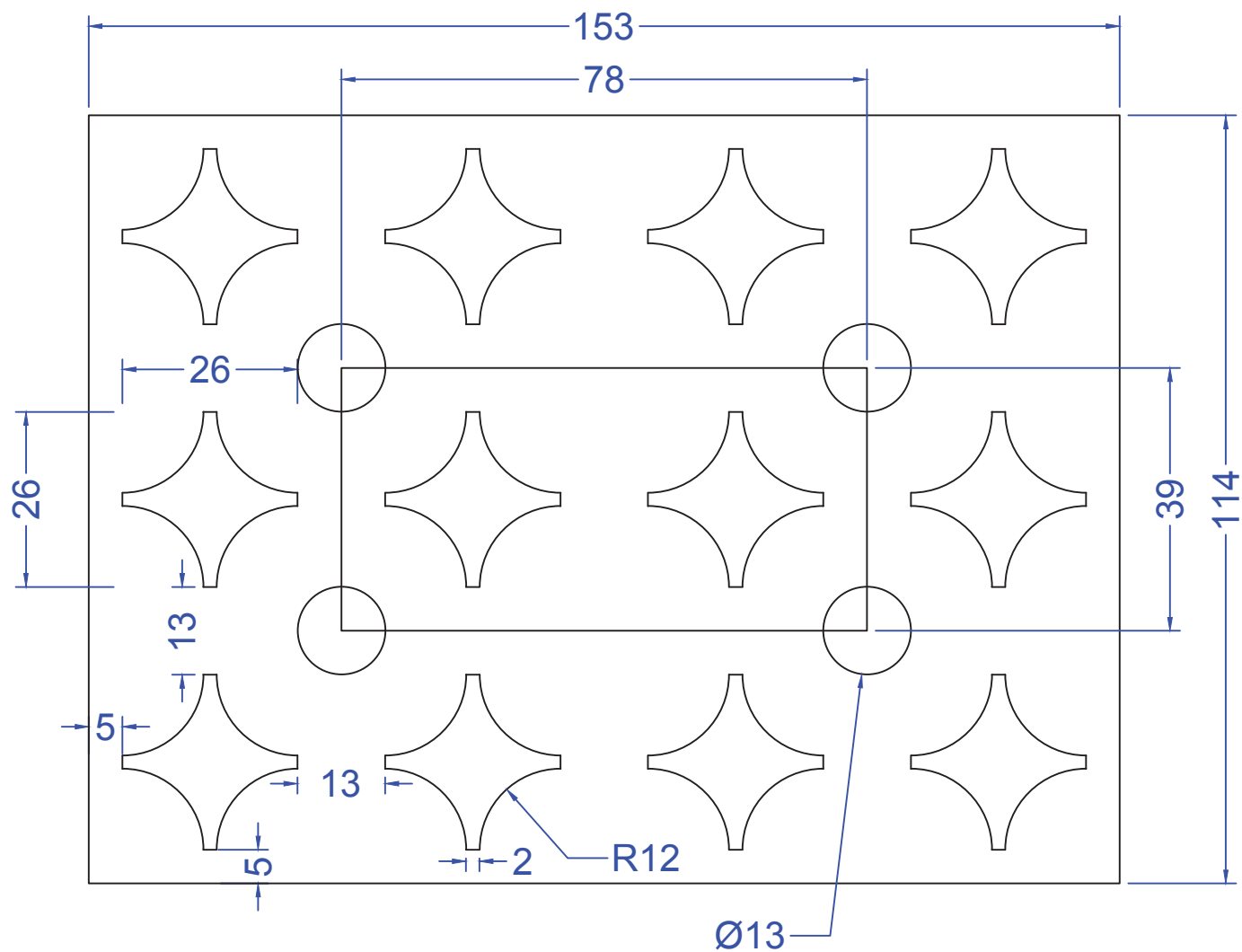




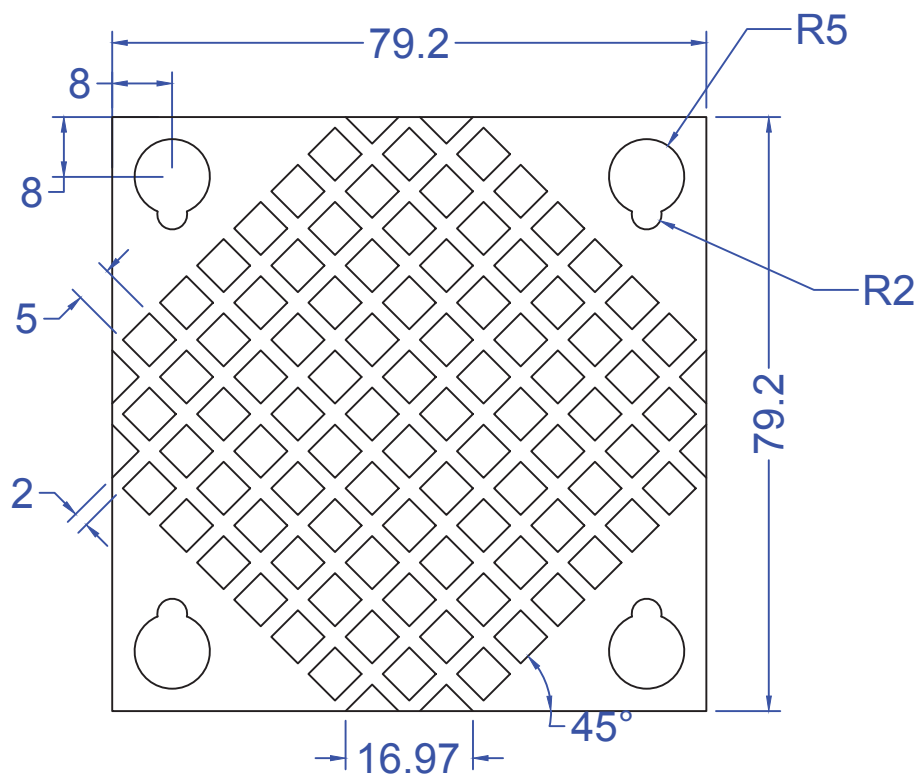
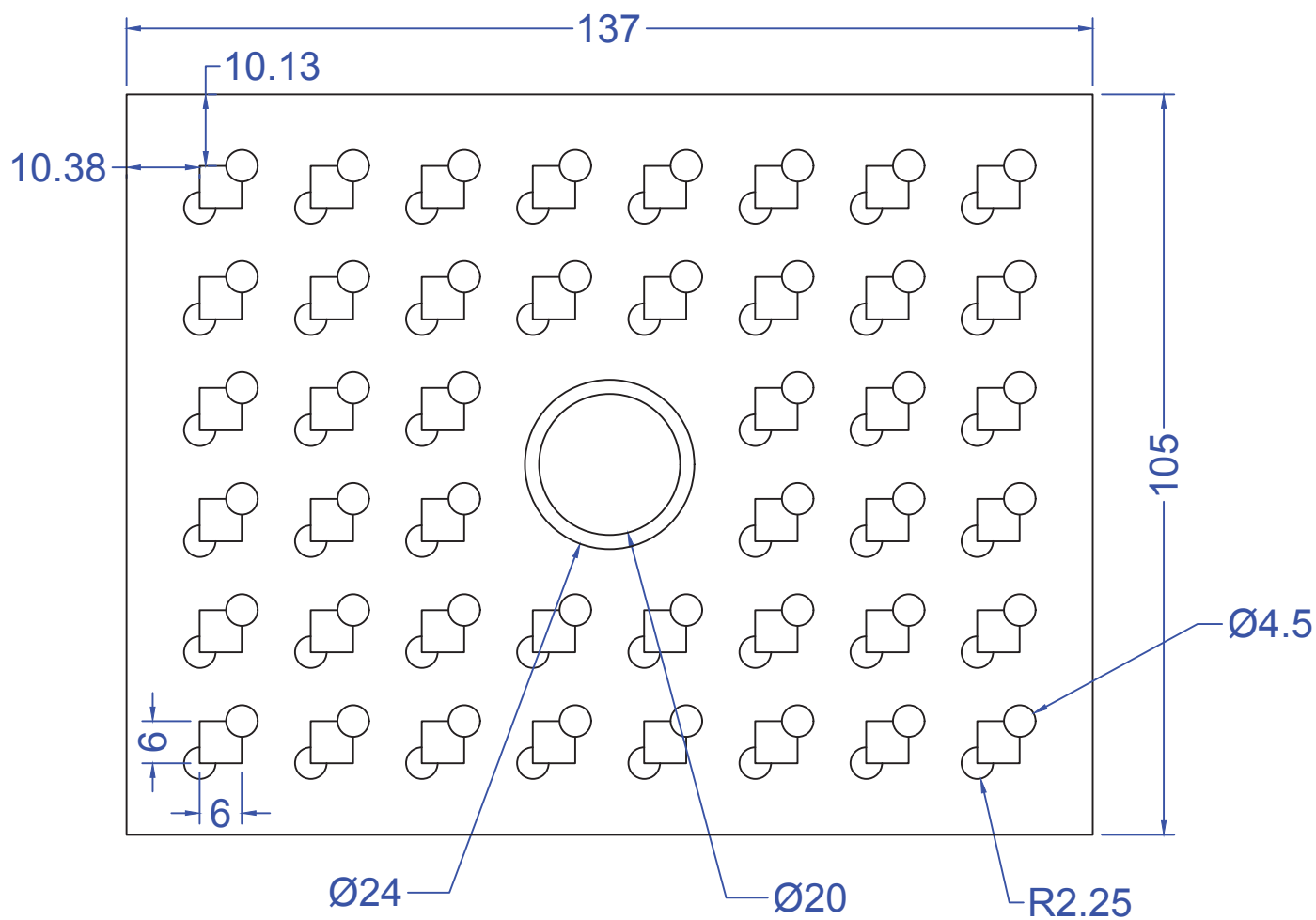
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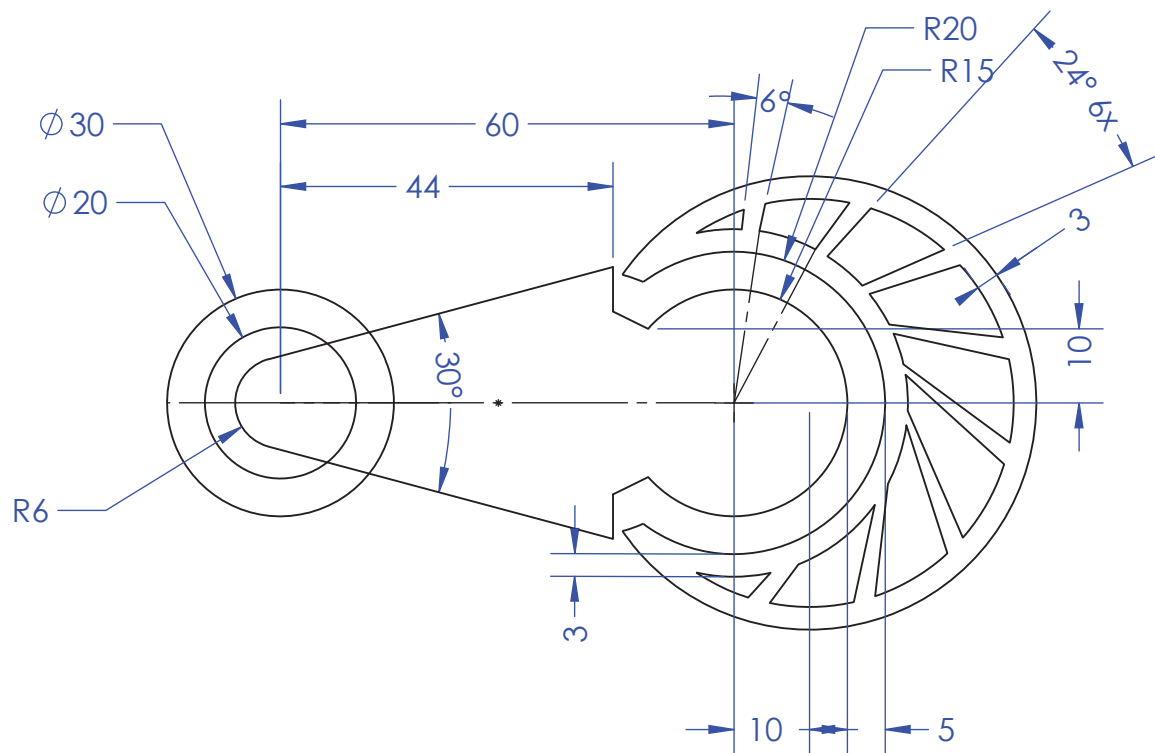
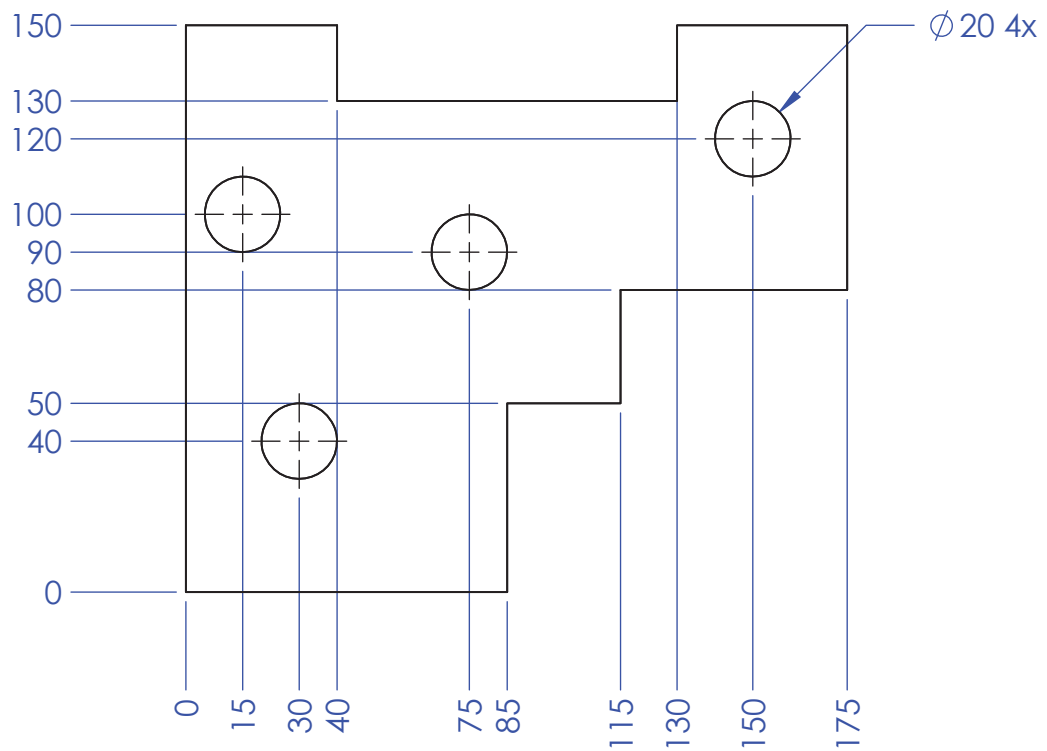


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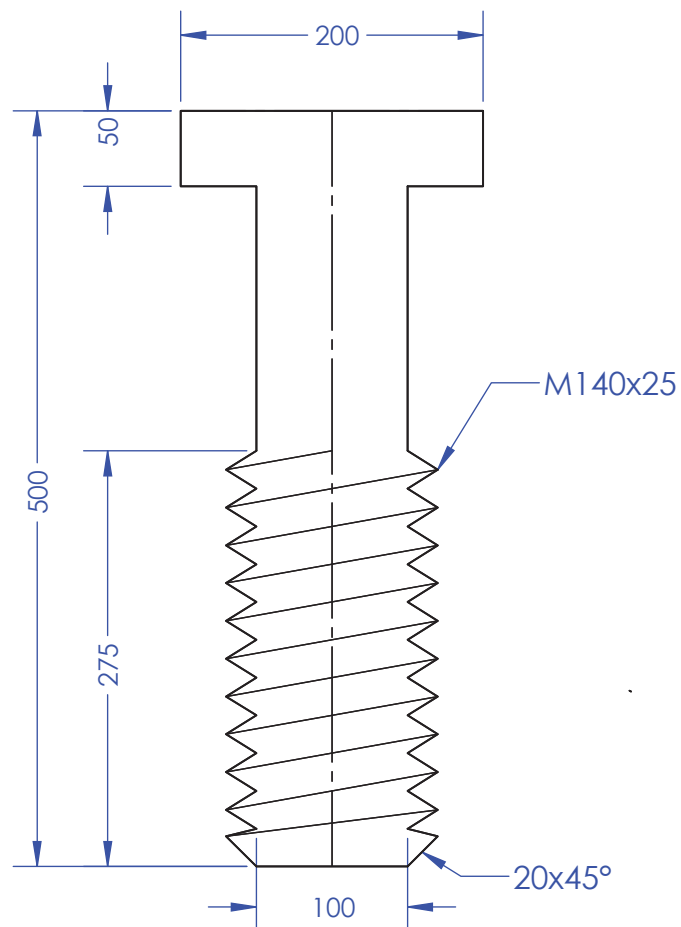
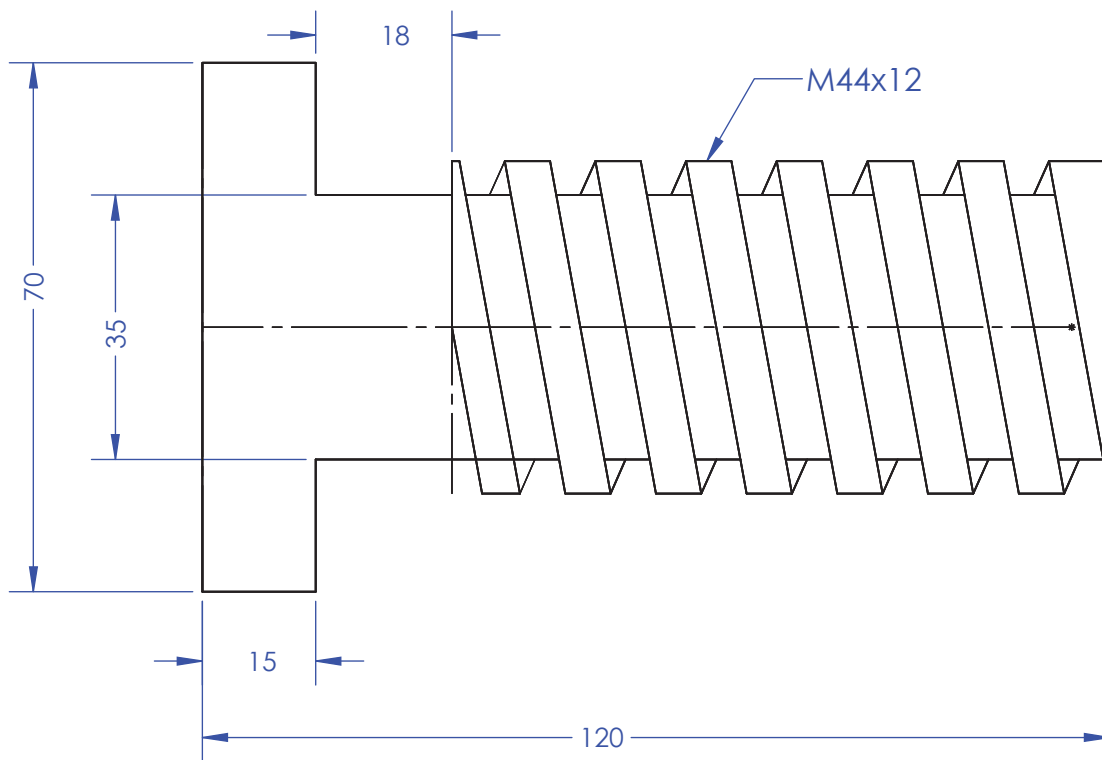




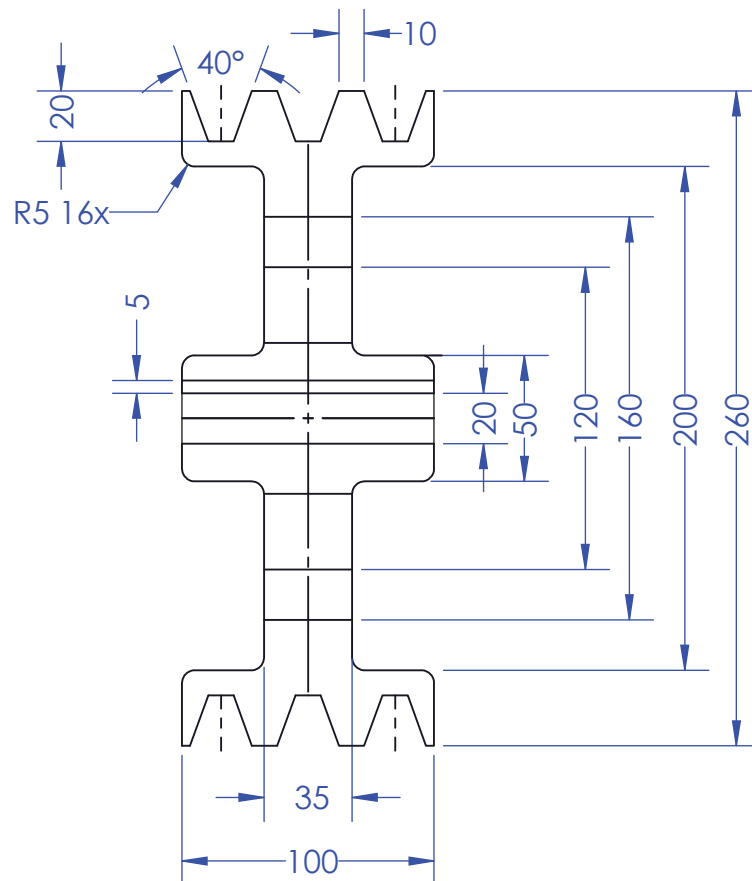
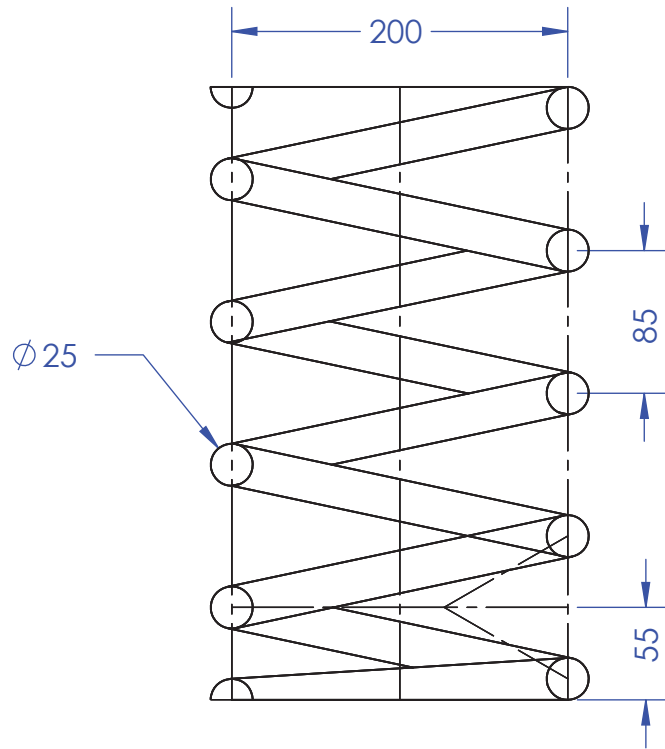




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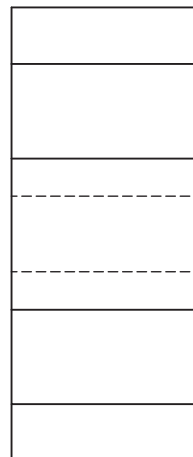
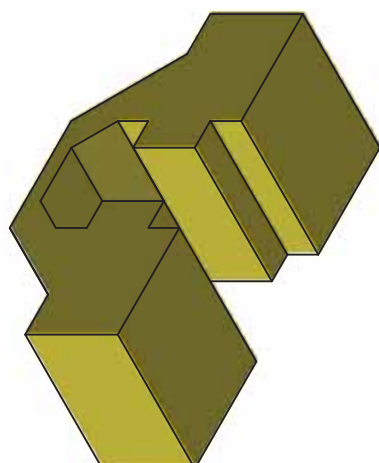
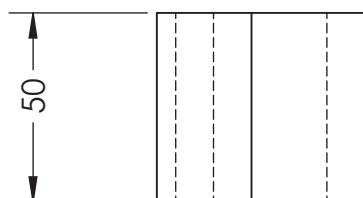
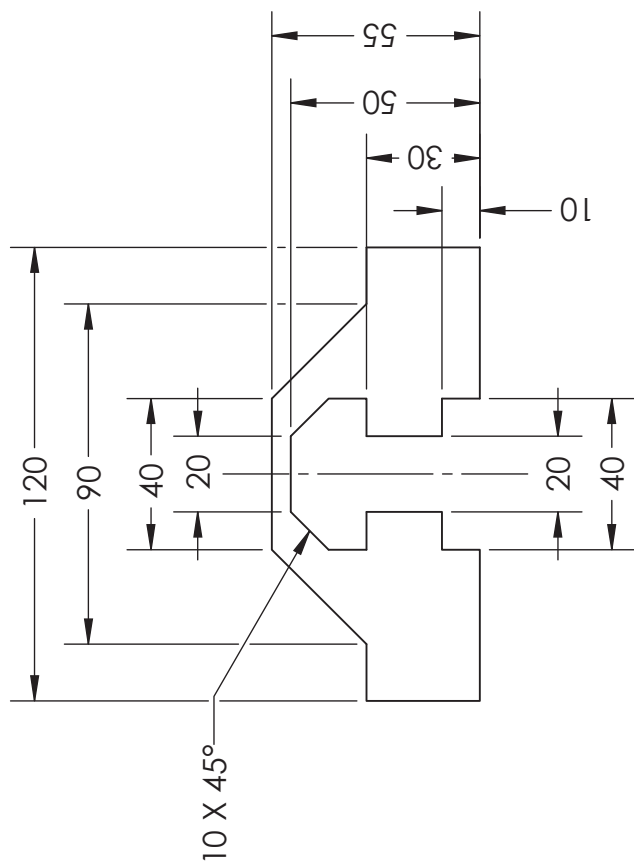
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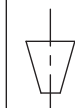
# 3D CAD EXERCISES

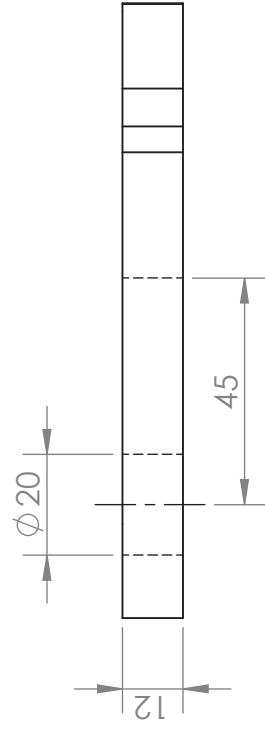
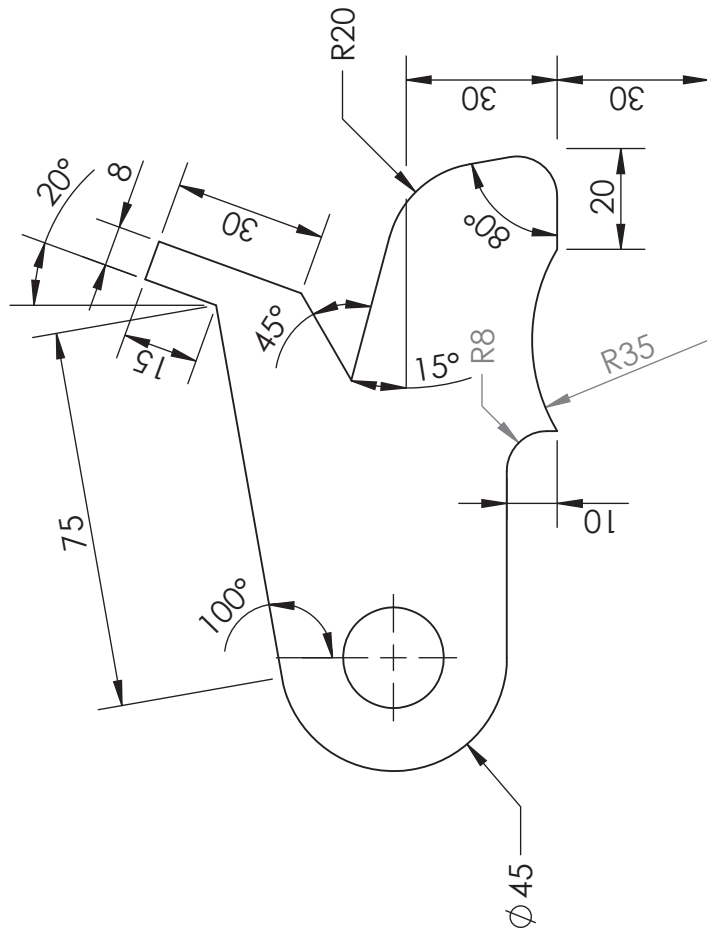
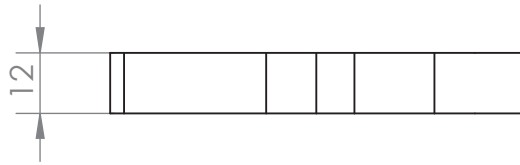
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## ANGLE OF PROJECTION

ALL DIMENSIONS ARE IN MM



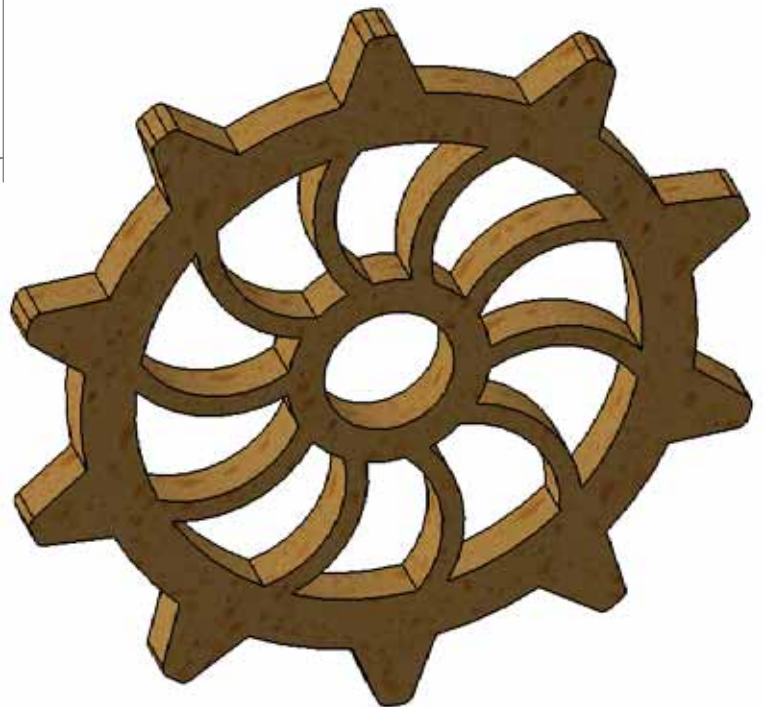
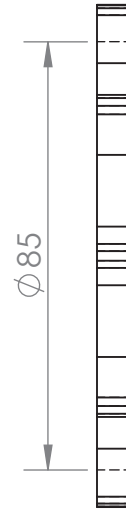
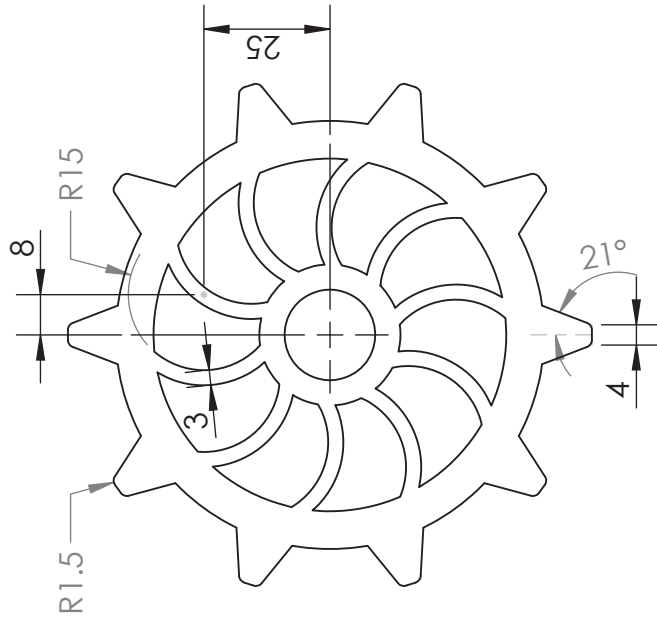
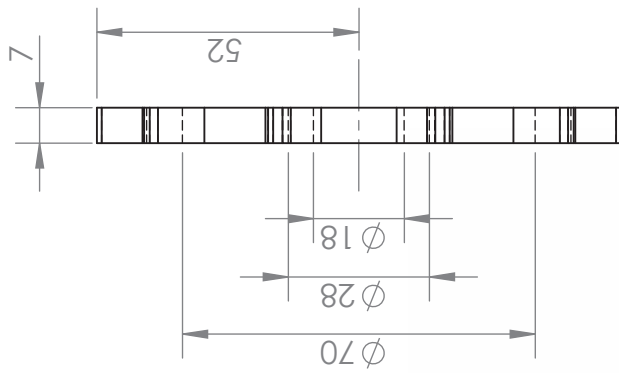


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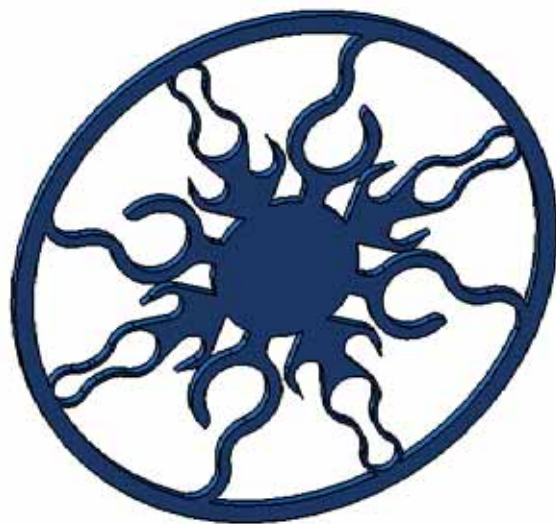




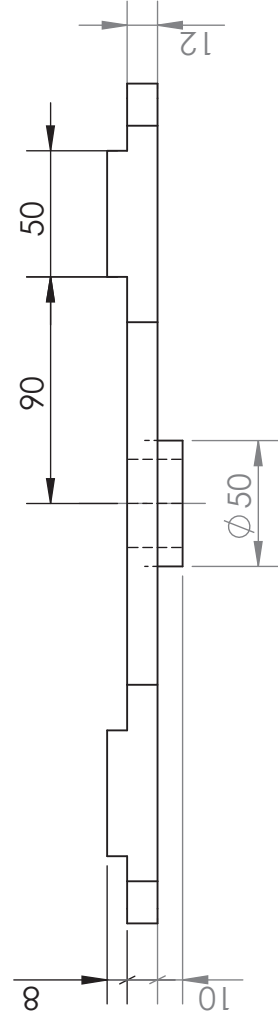
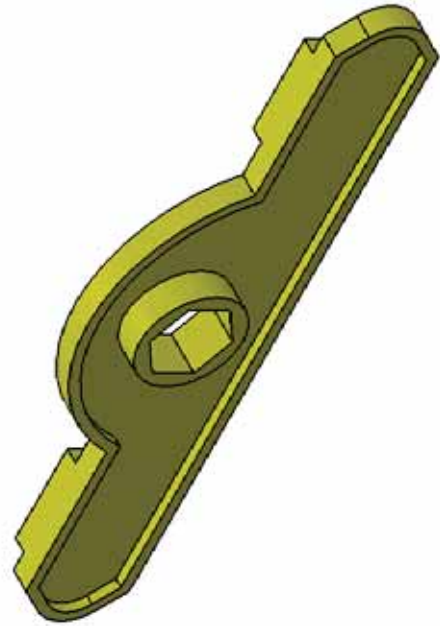
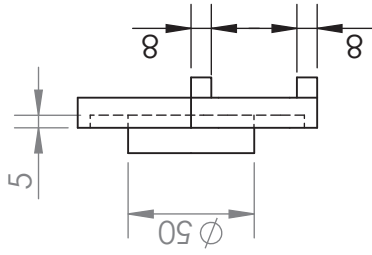
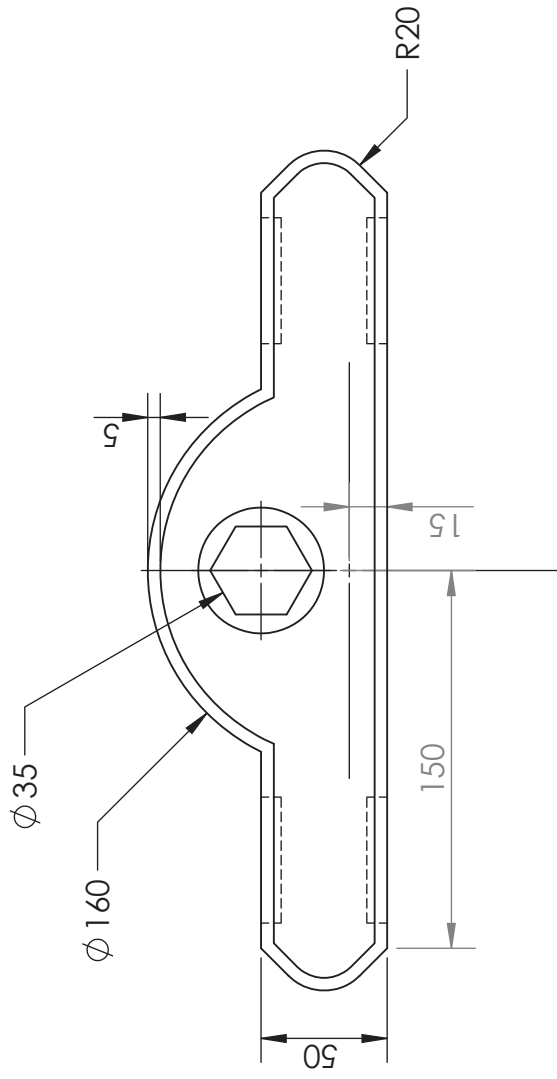
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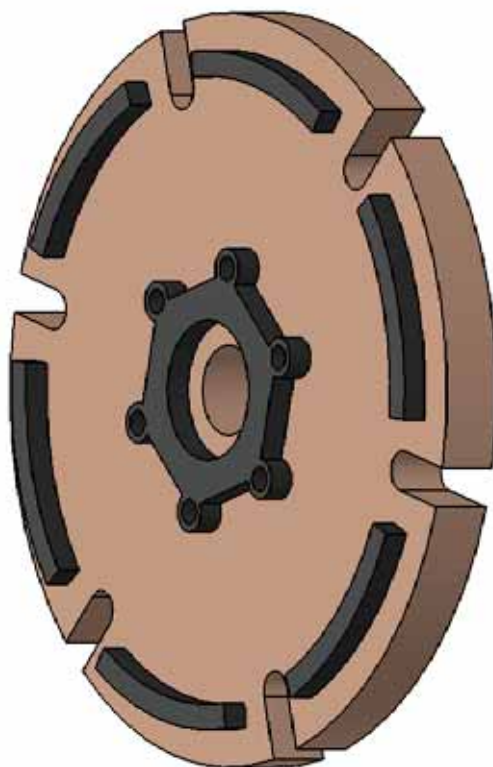
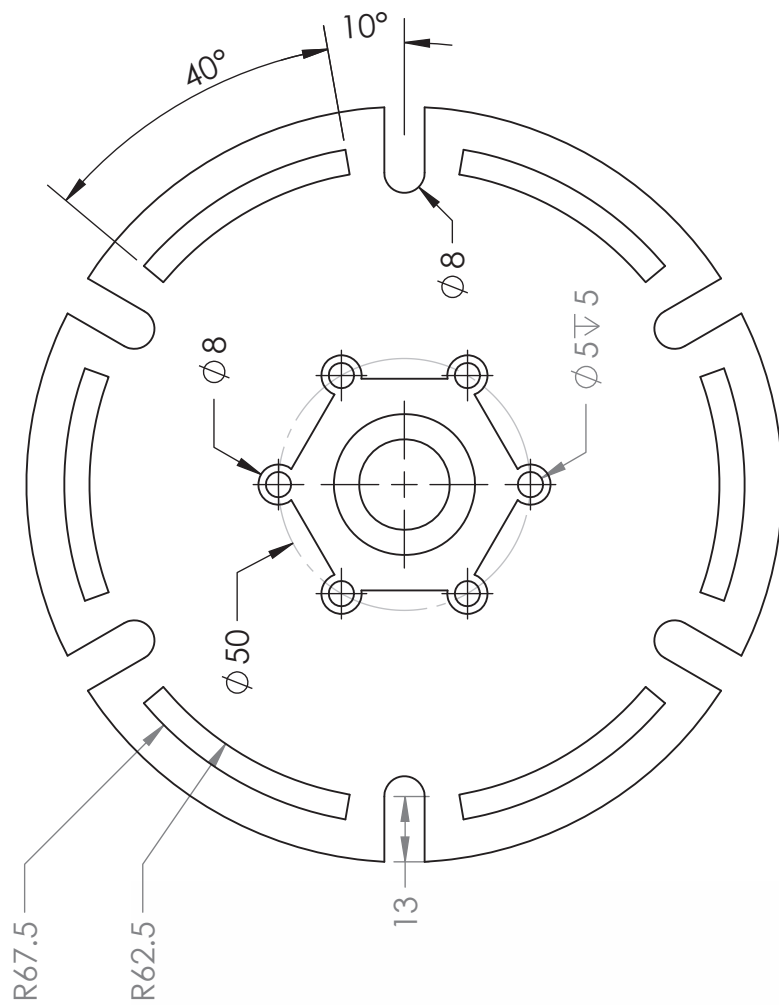
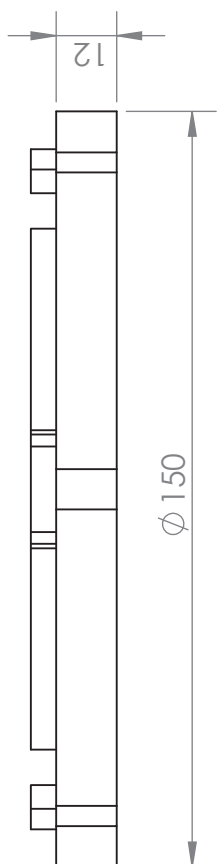
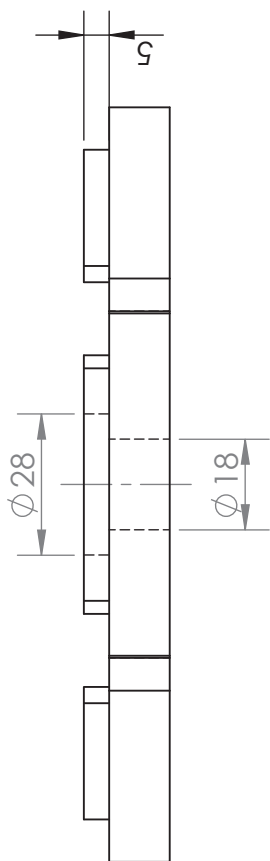
## ANGLE OF PROJECTION



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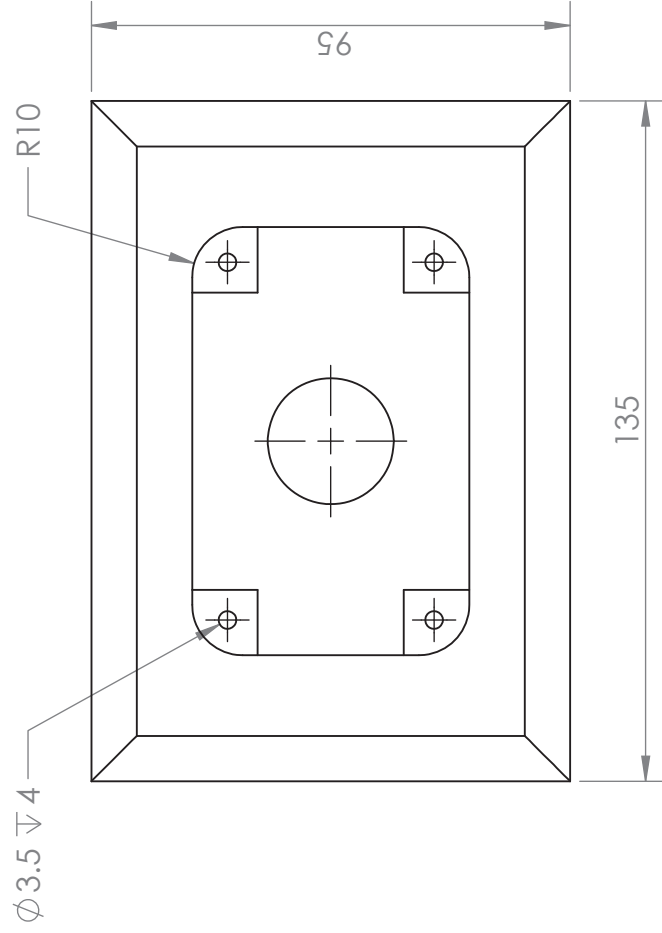
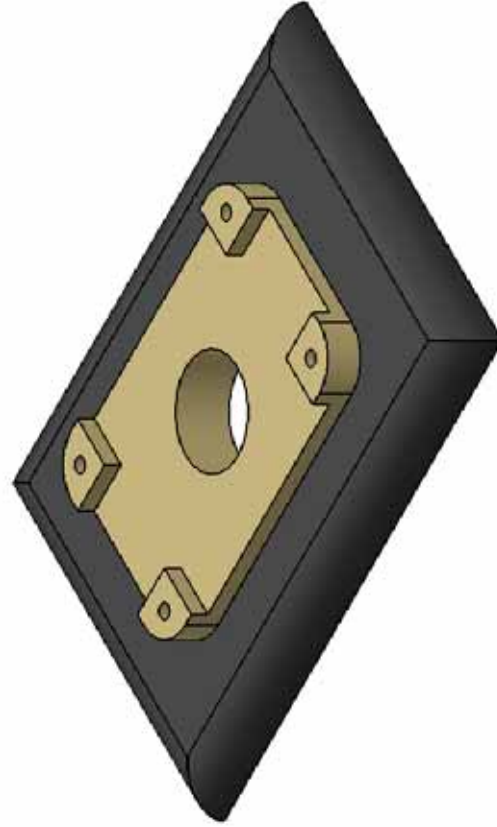
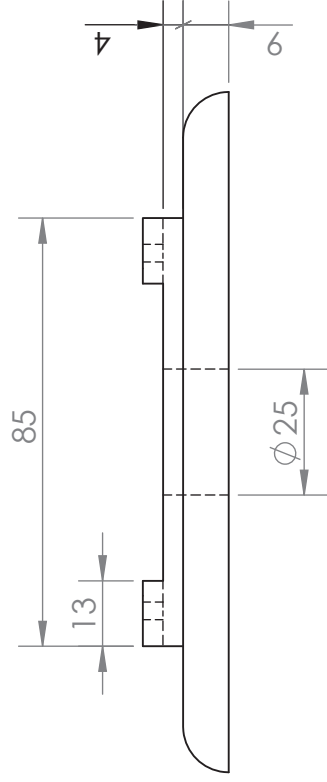
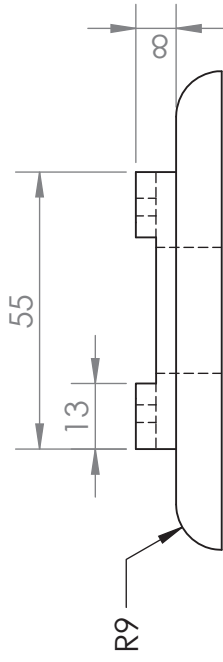
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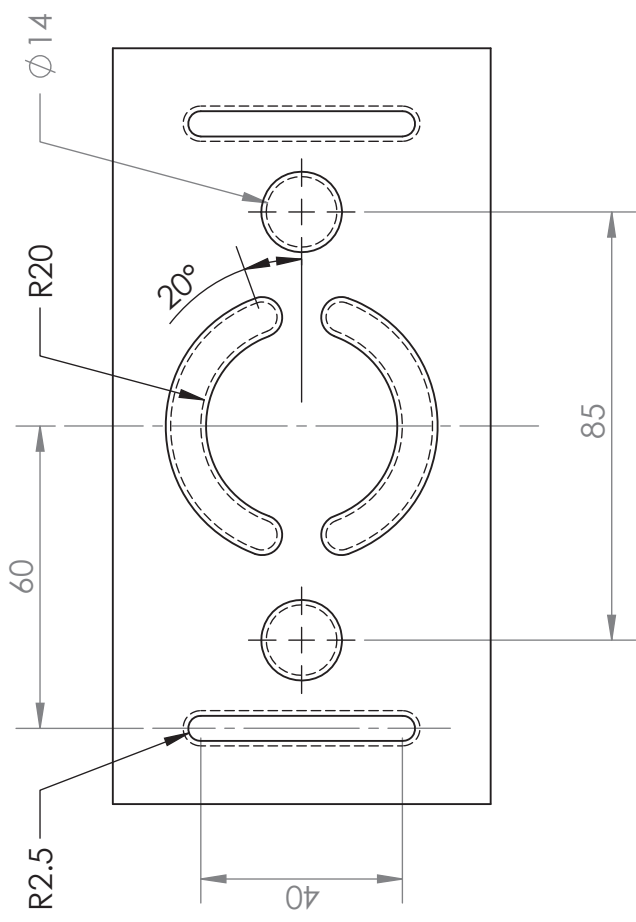
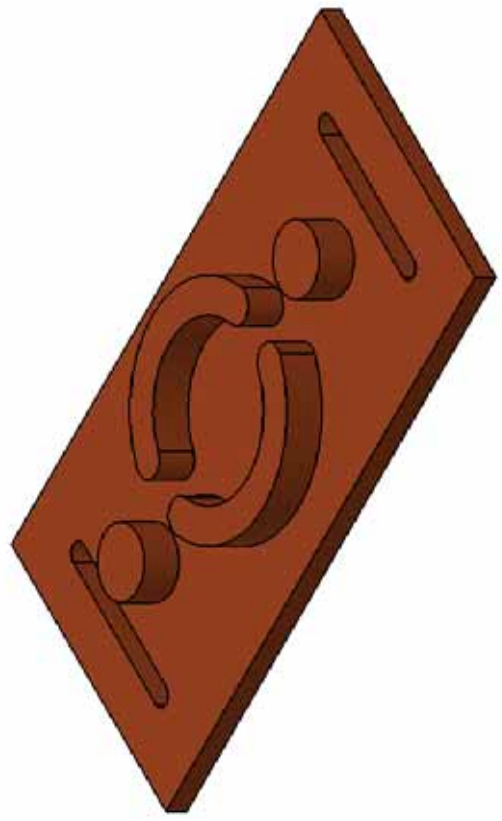
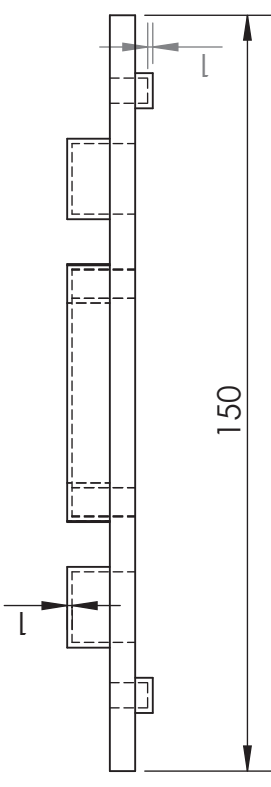
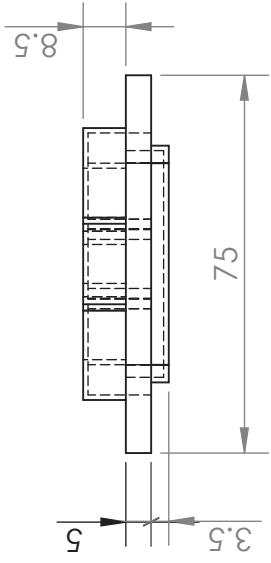


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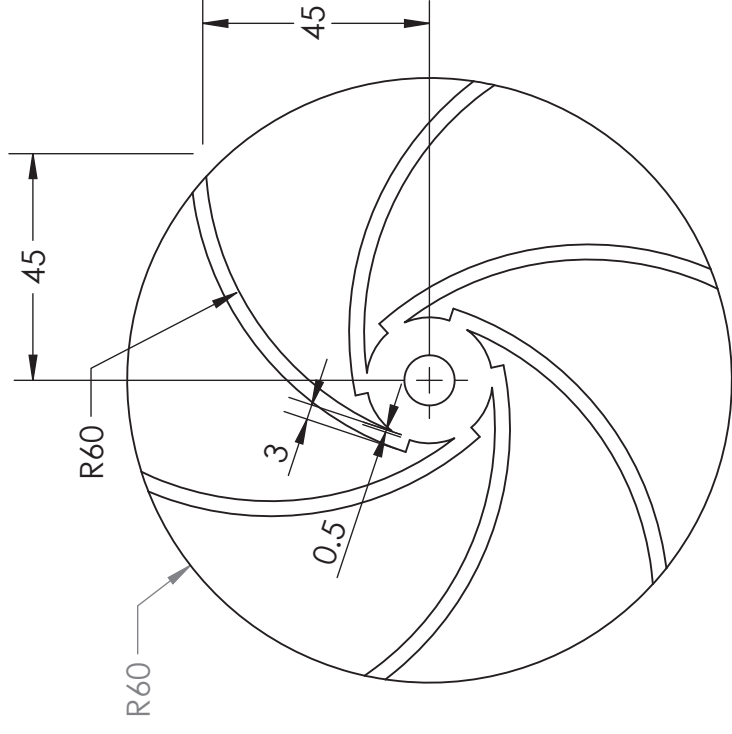
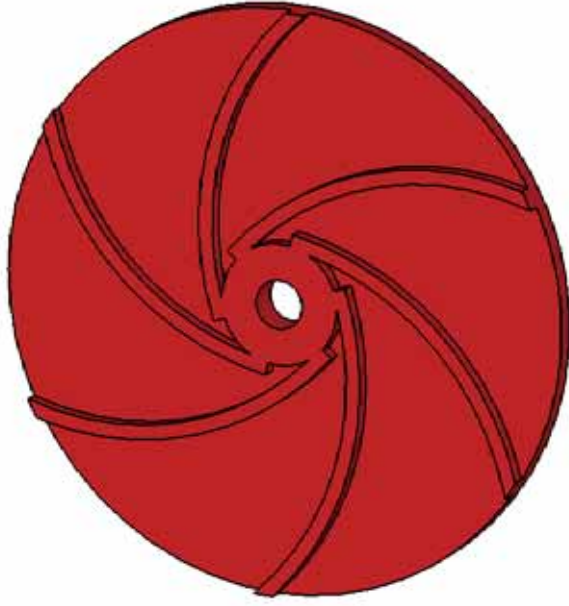
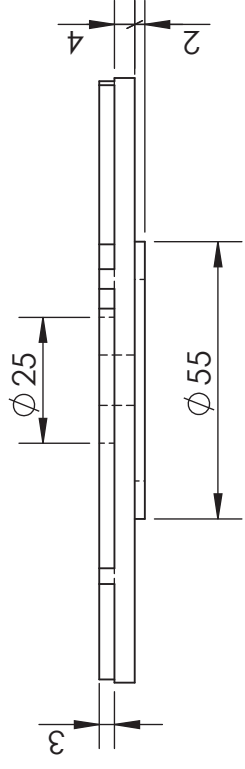
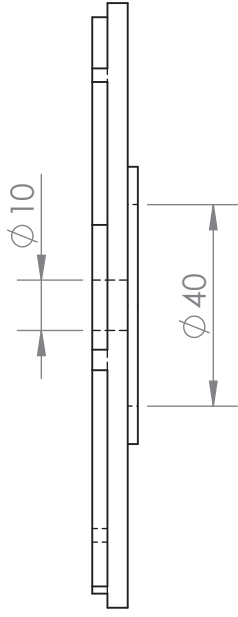


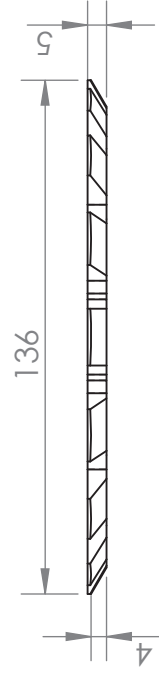
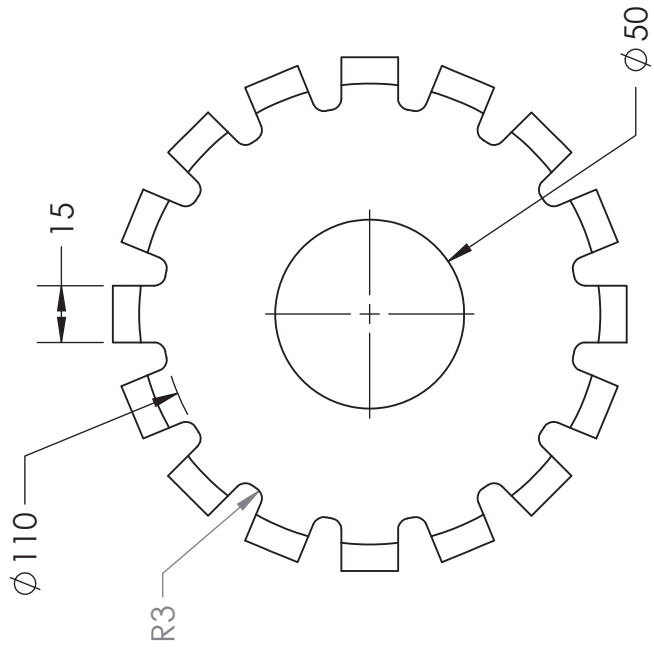
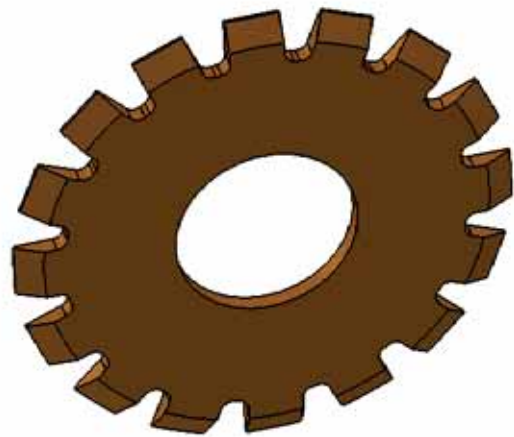
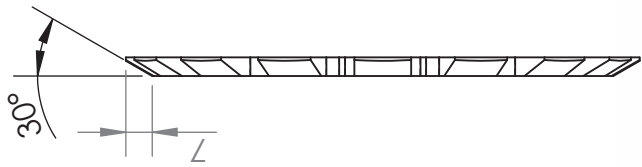
ALL DIMENSIONS ARE IN MM





ANGLE OF PROJECTION	ALL DIMENSIONS ARE IN MM	EX :
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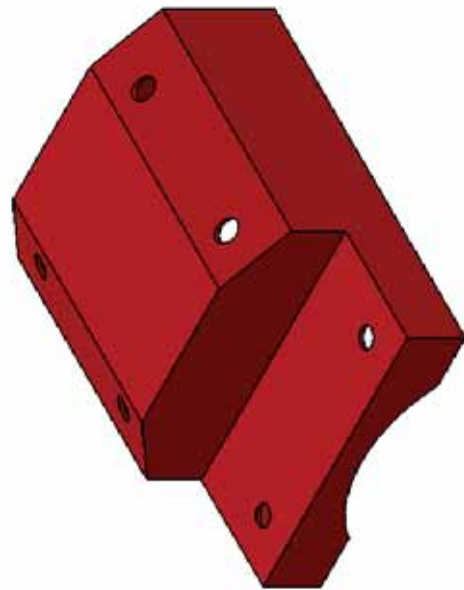
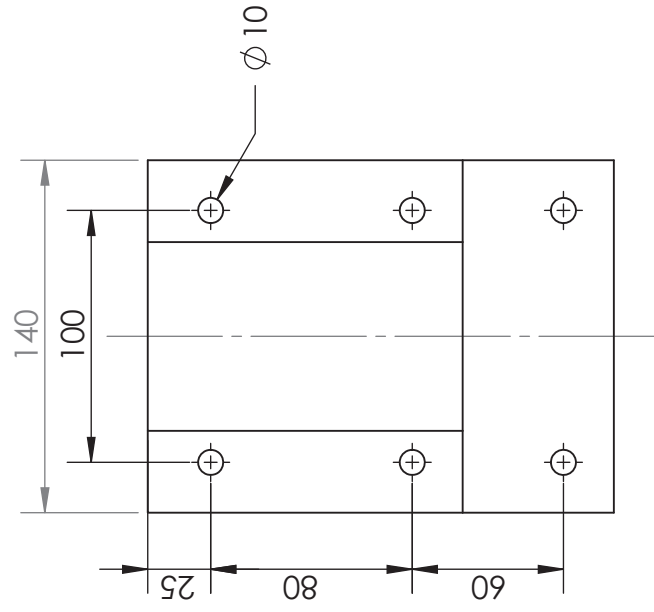
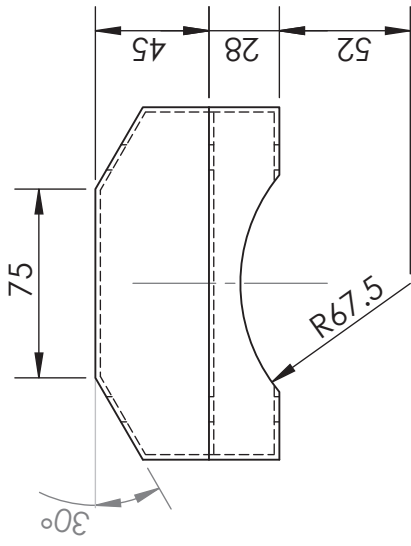
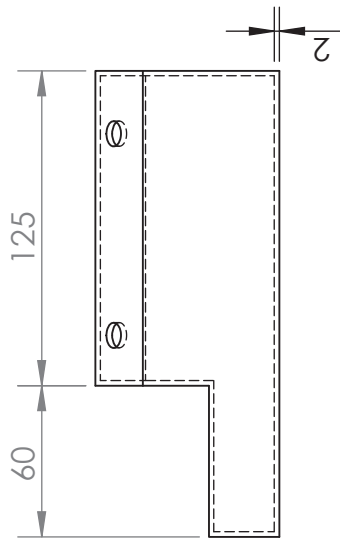


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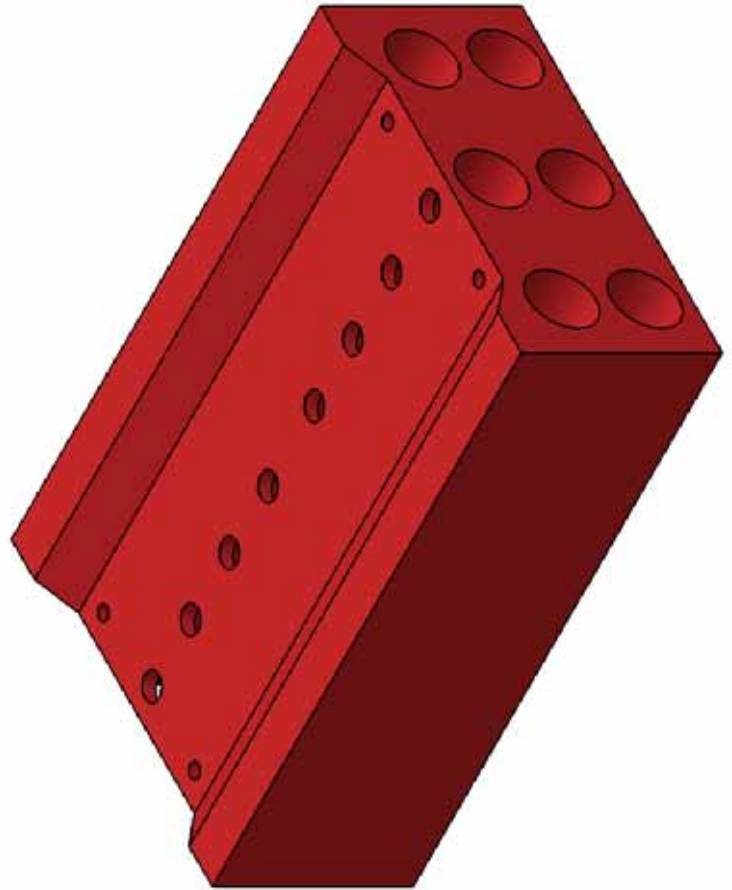
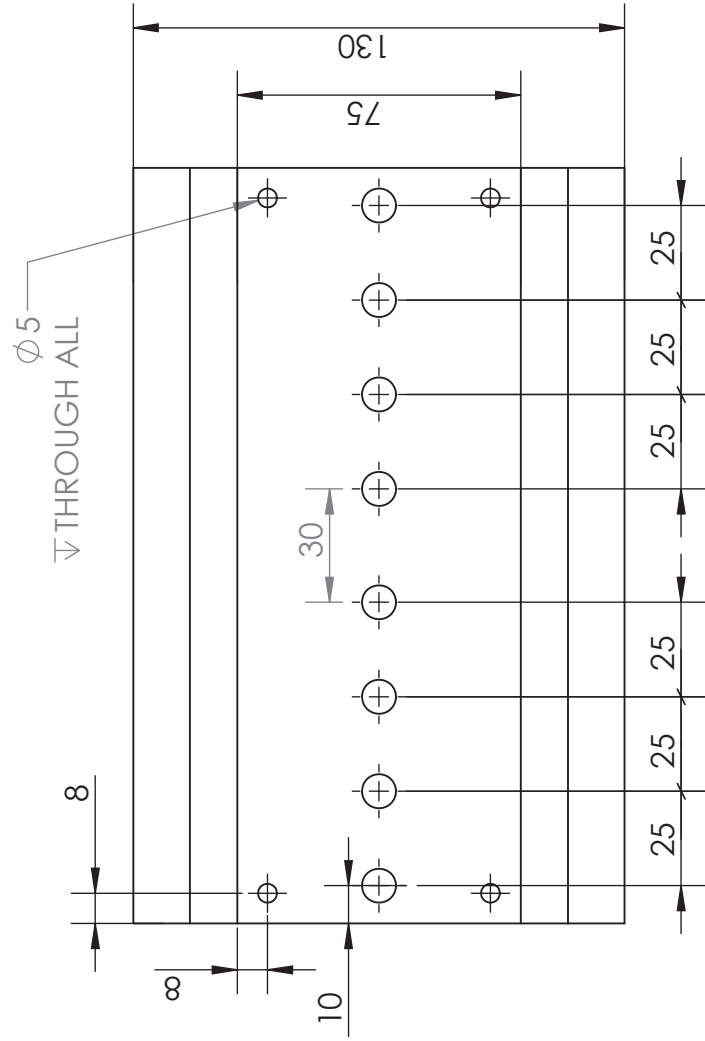
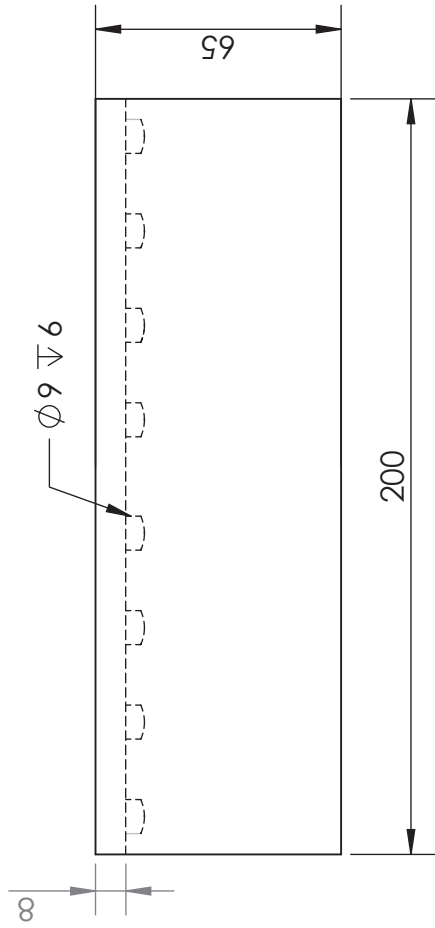
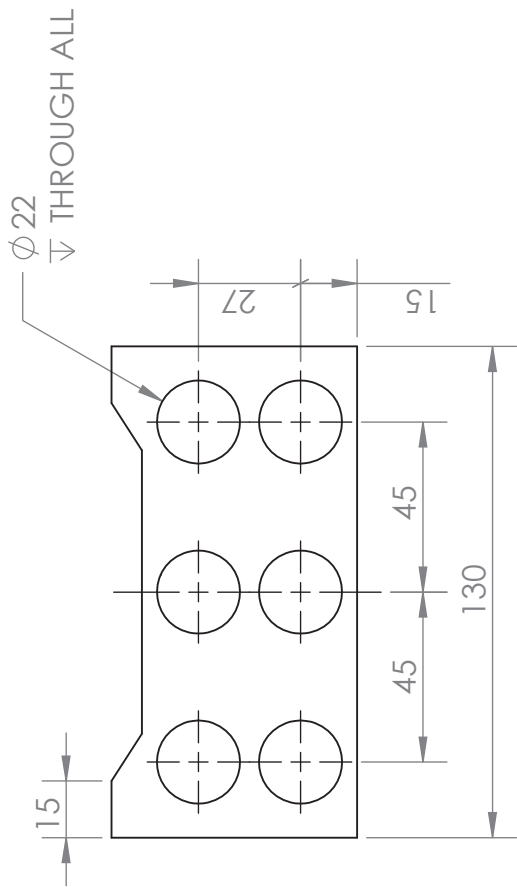




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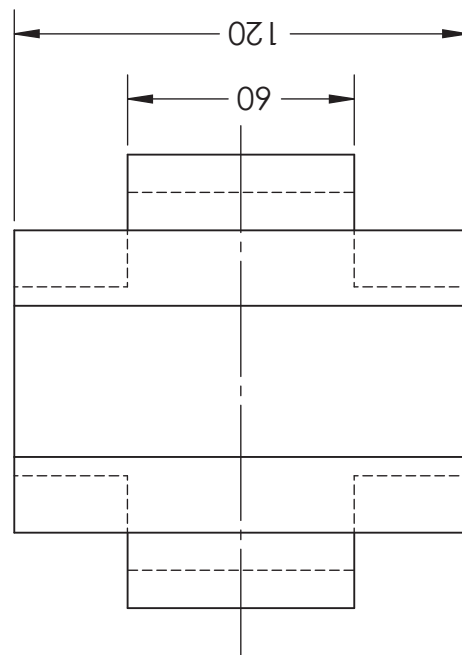
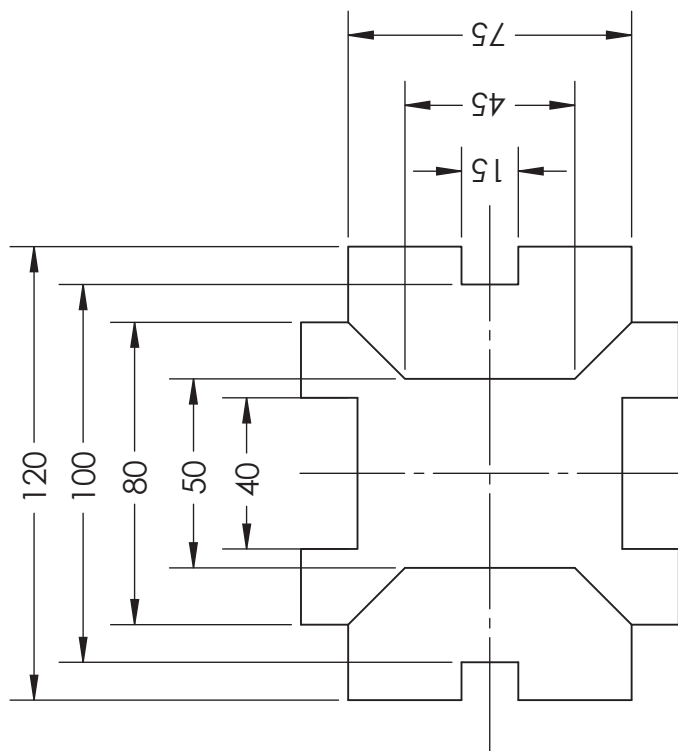
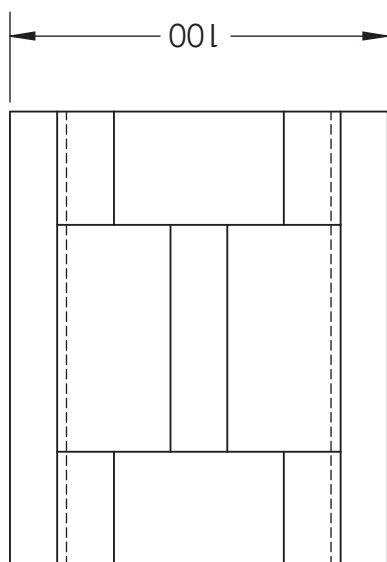
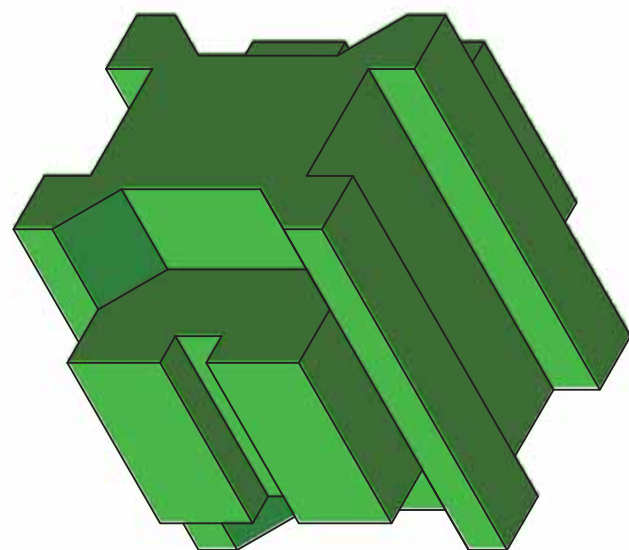
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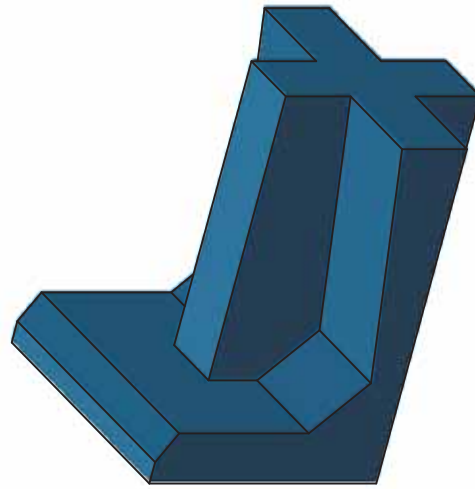
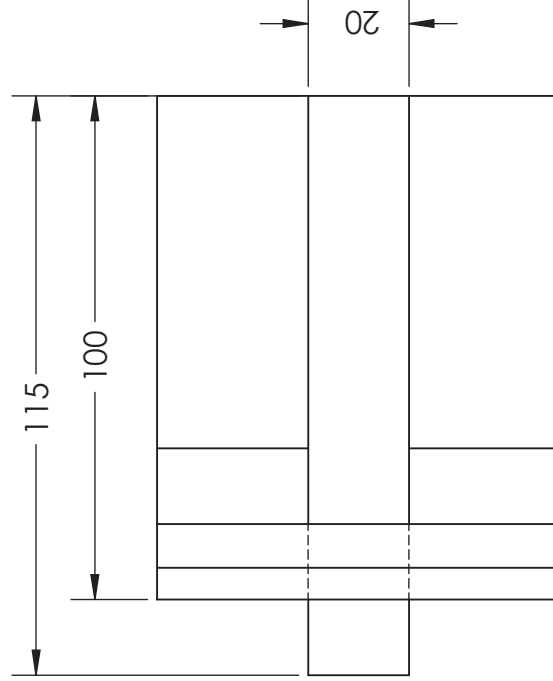
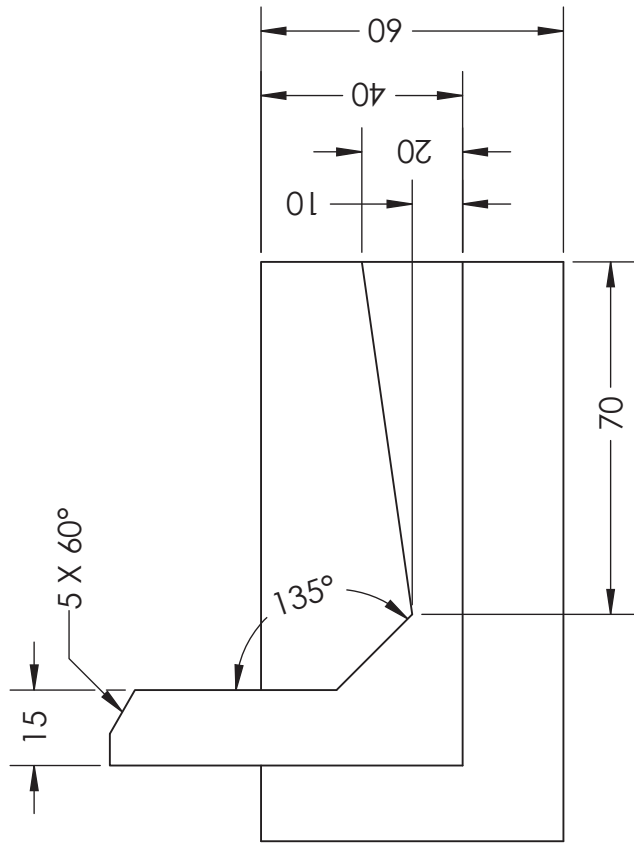
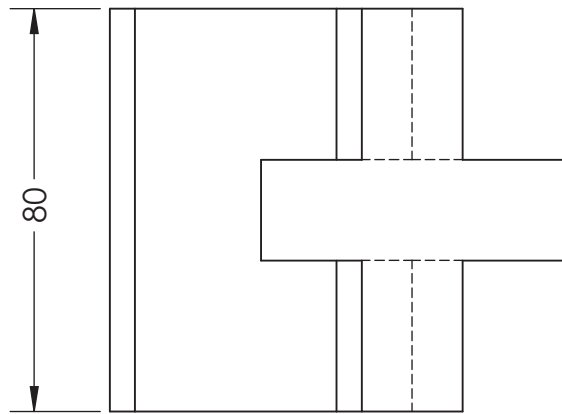
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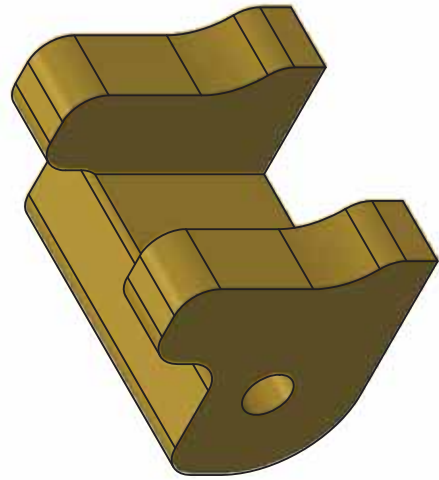
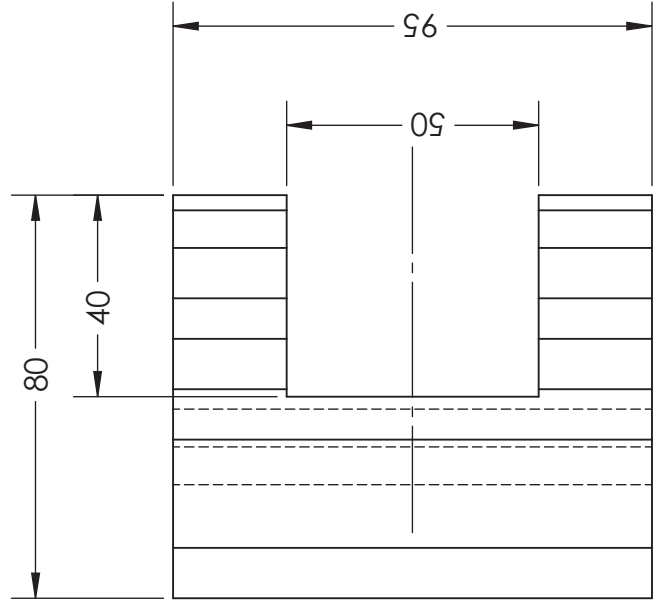
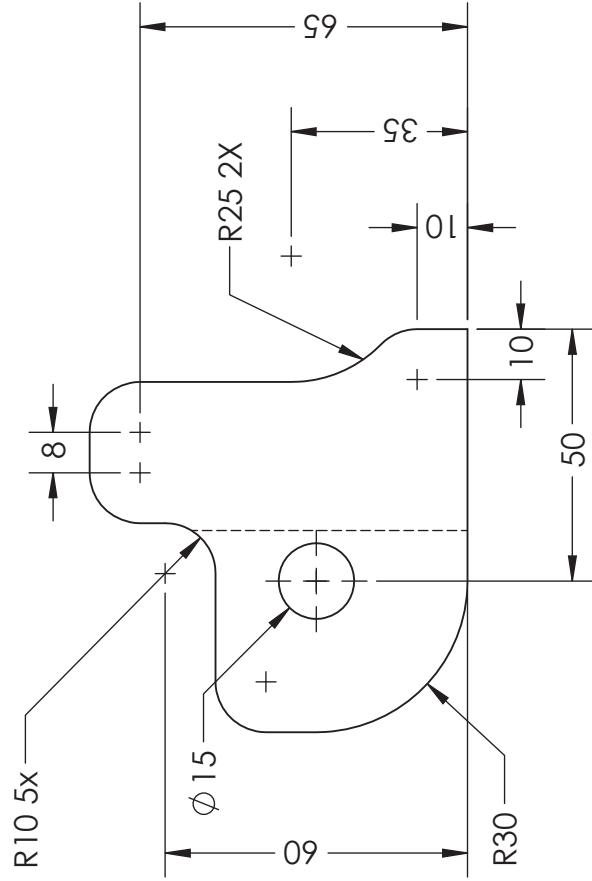
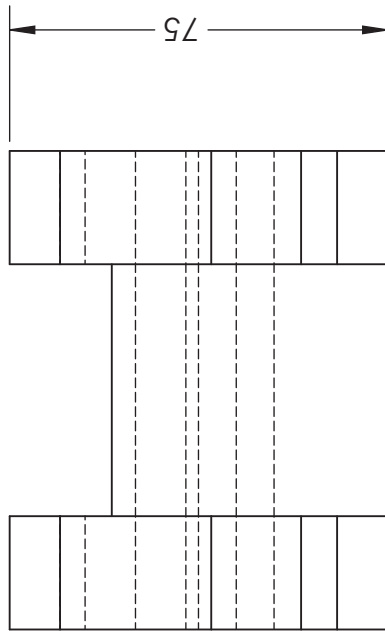
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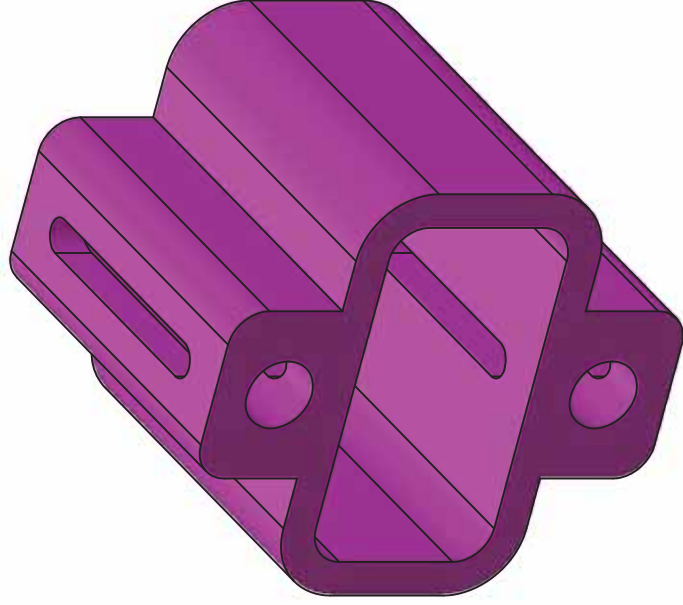
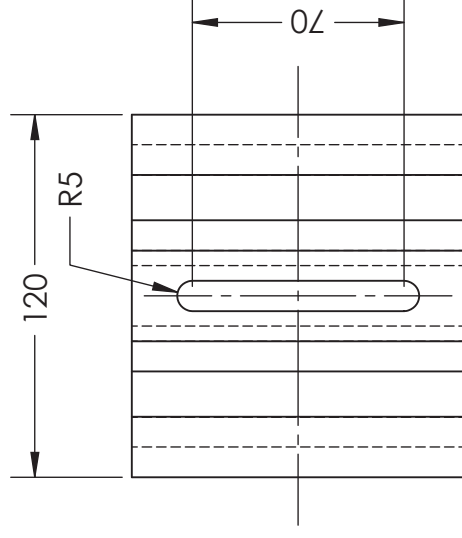
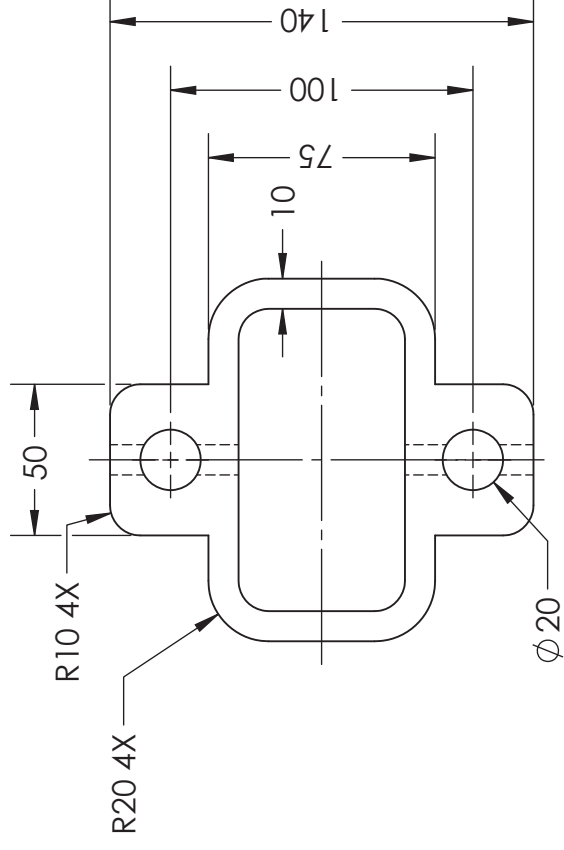
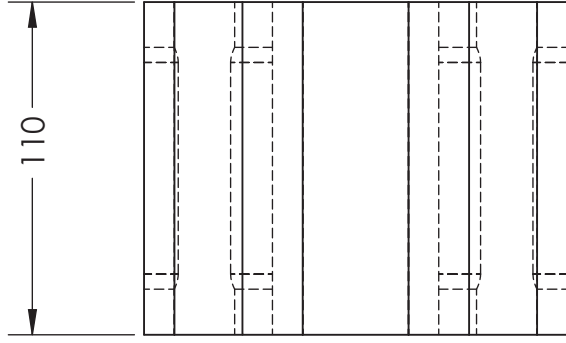
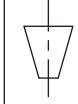
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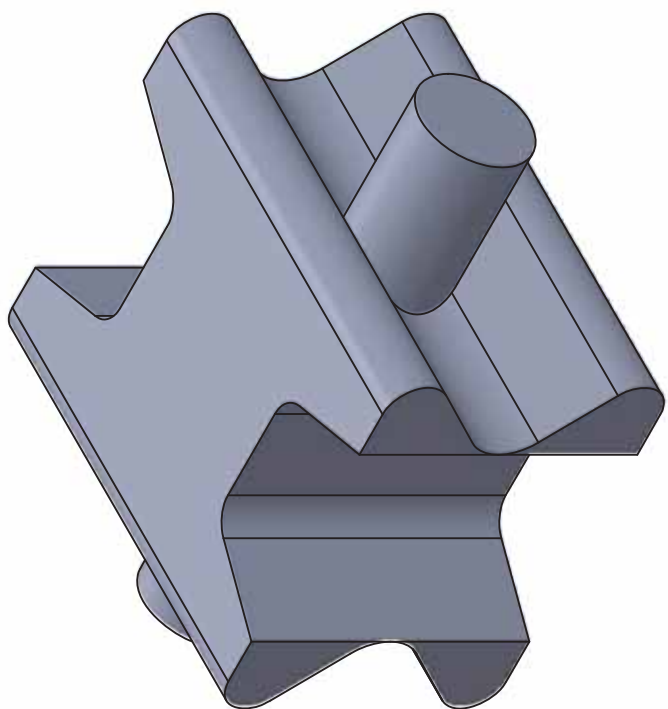
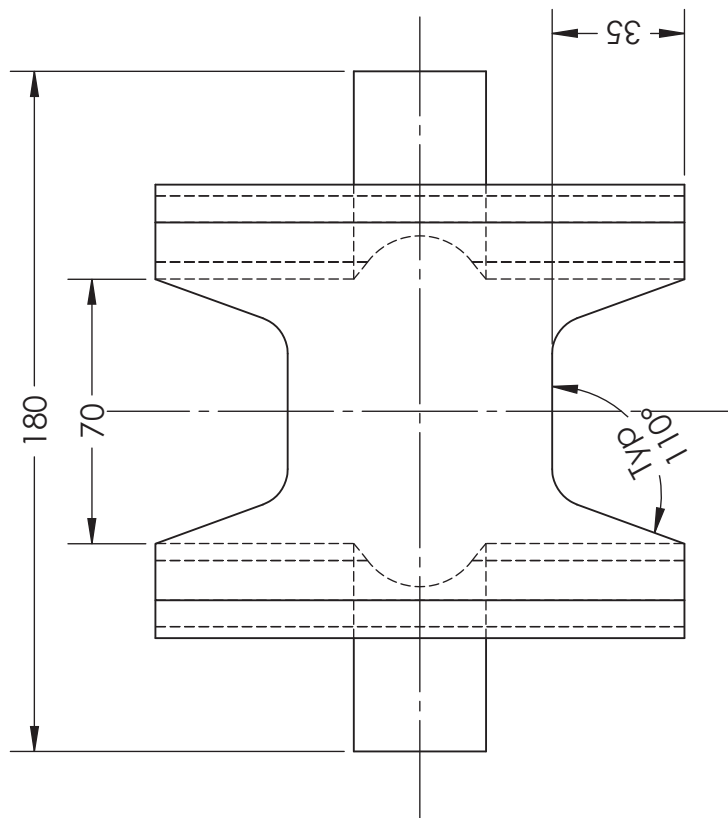
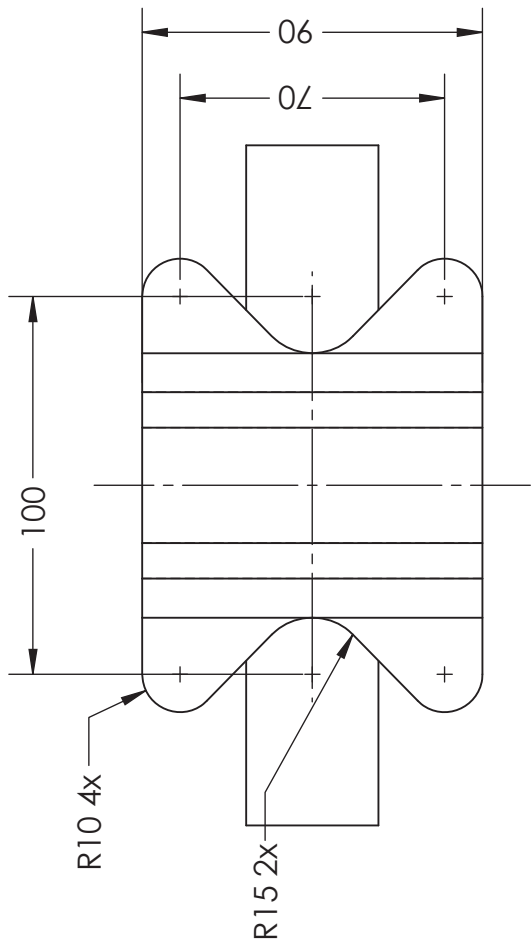
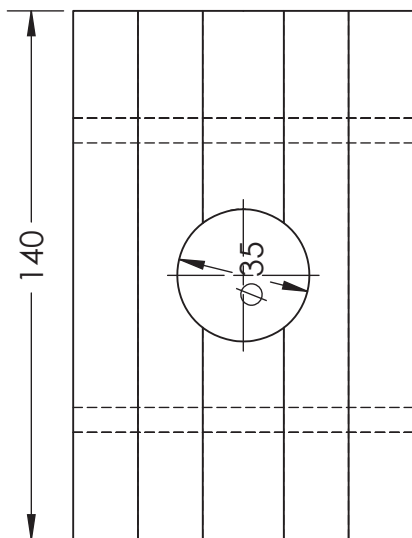


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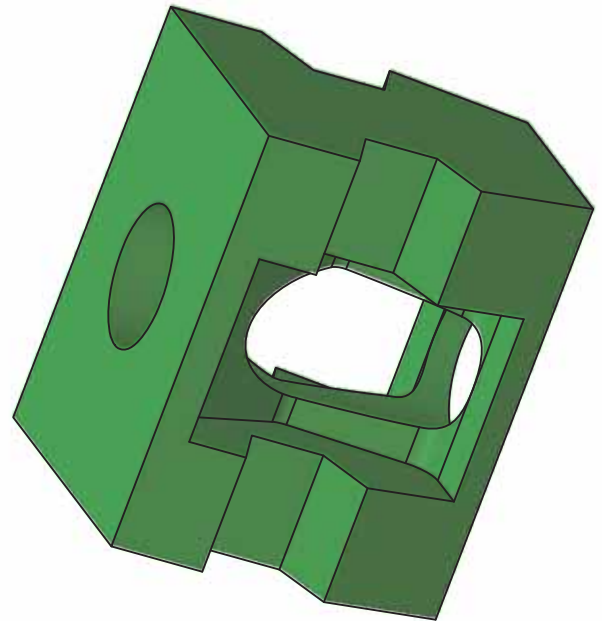
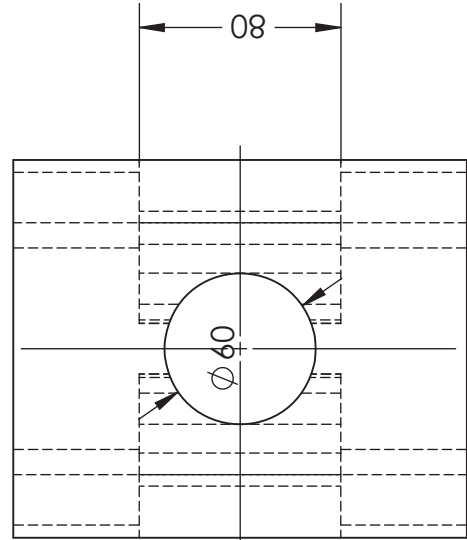
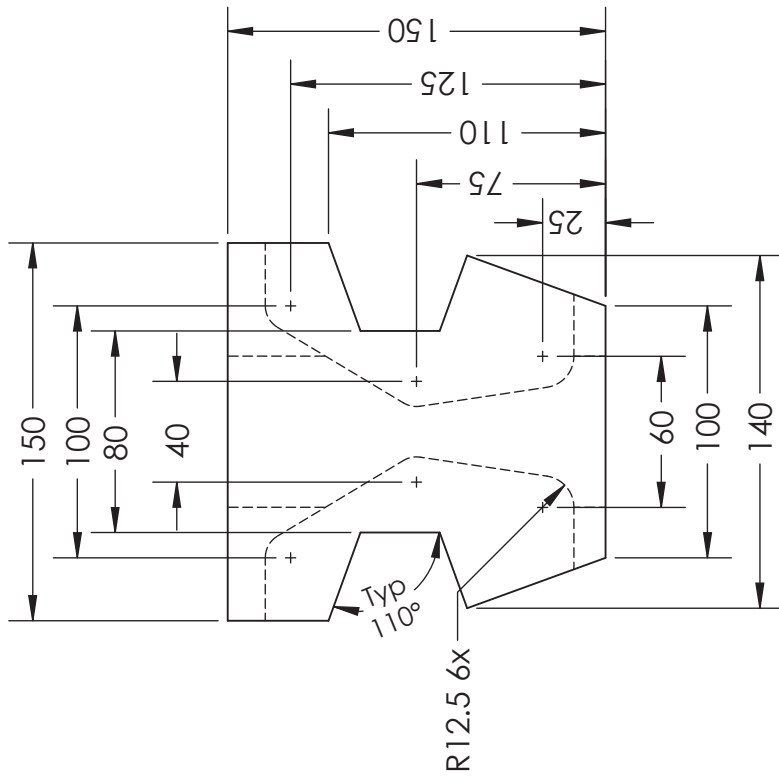
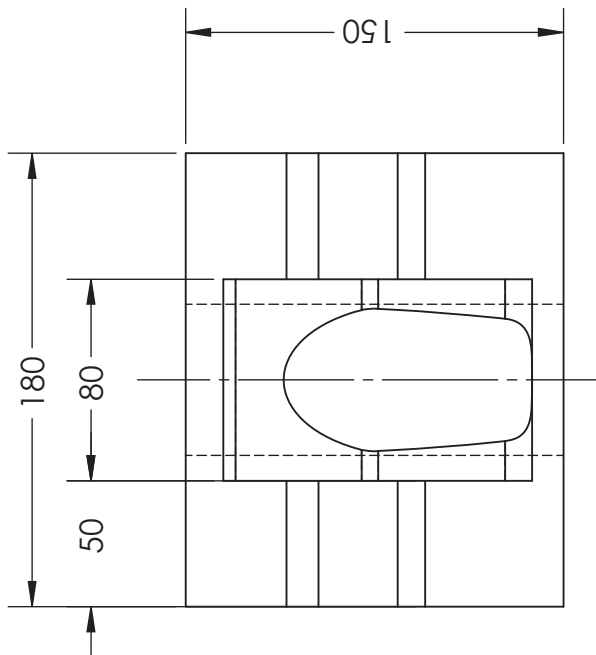




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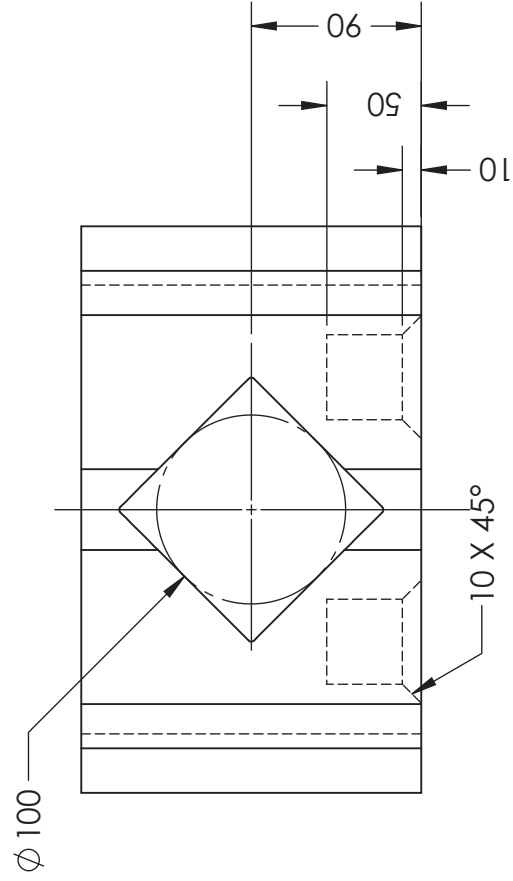
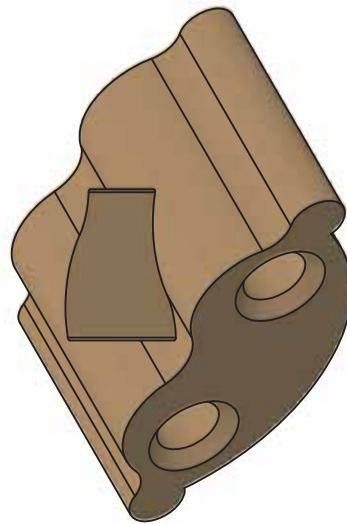
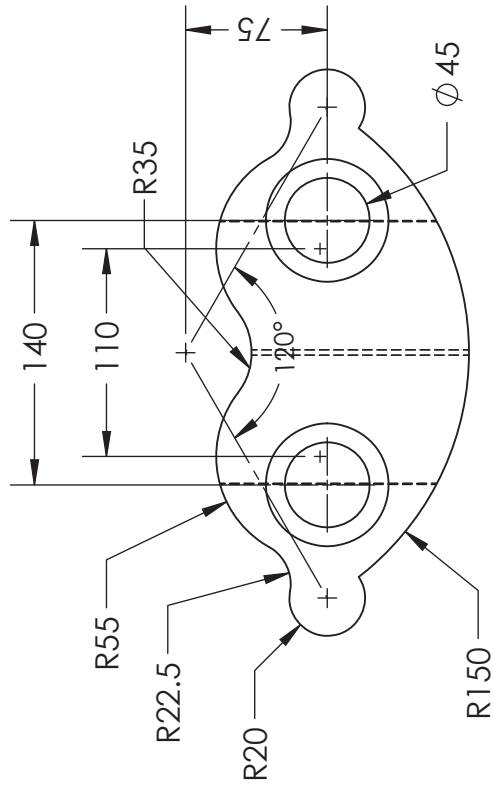
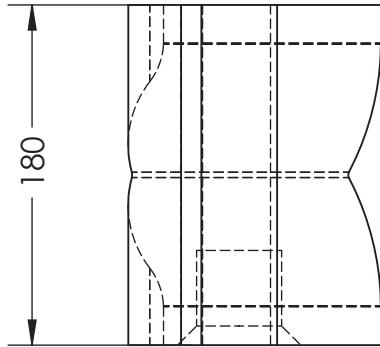


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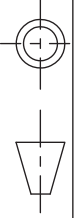


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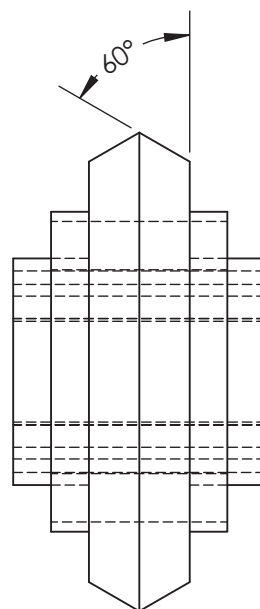
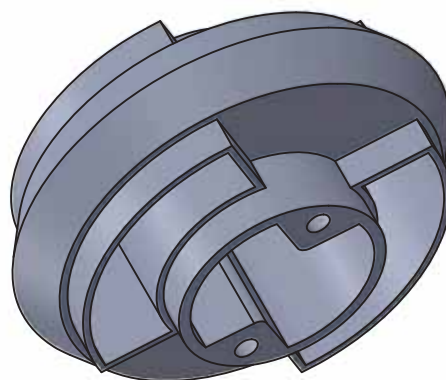
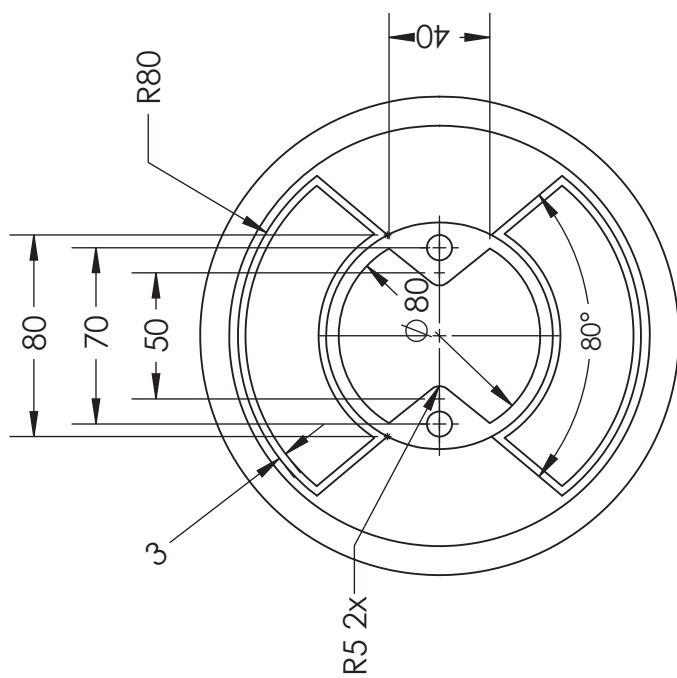
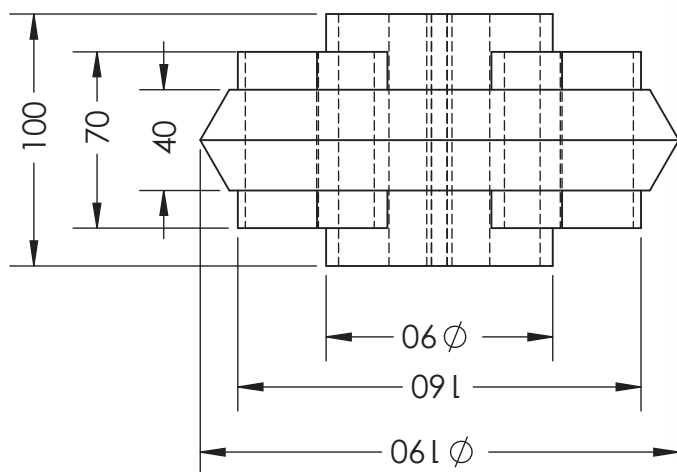




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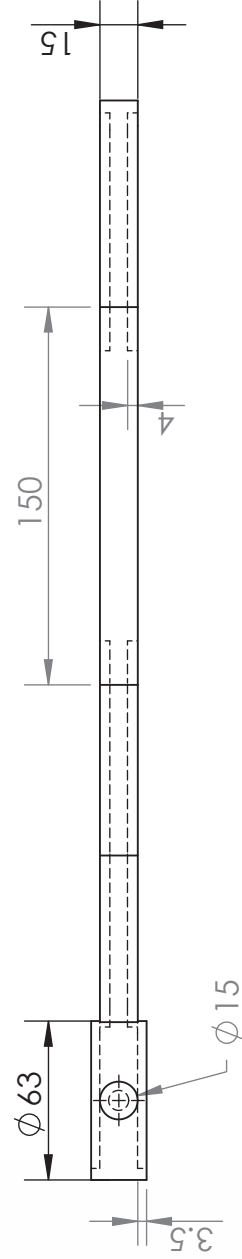
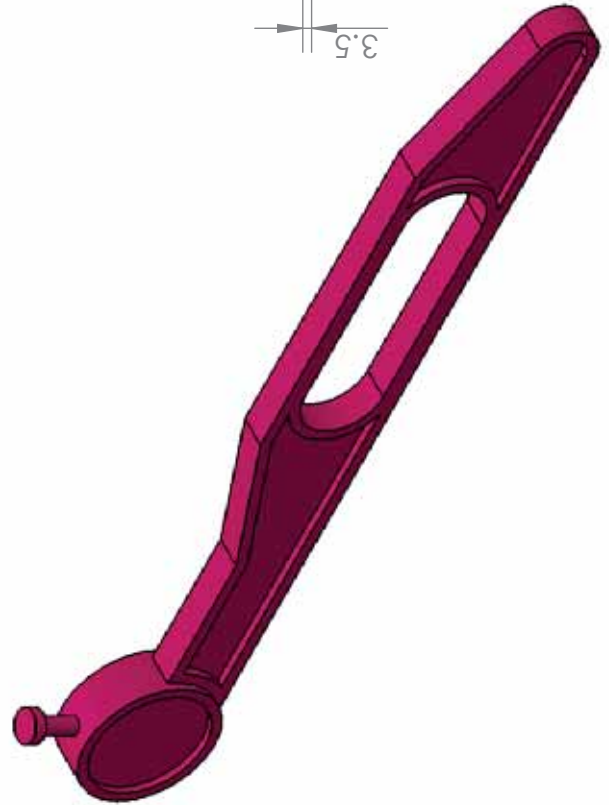
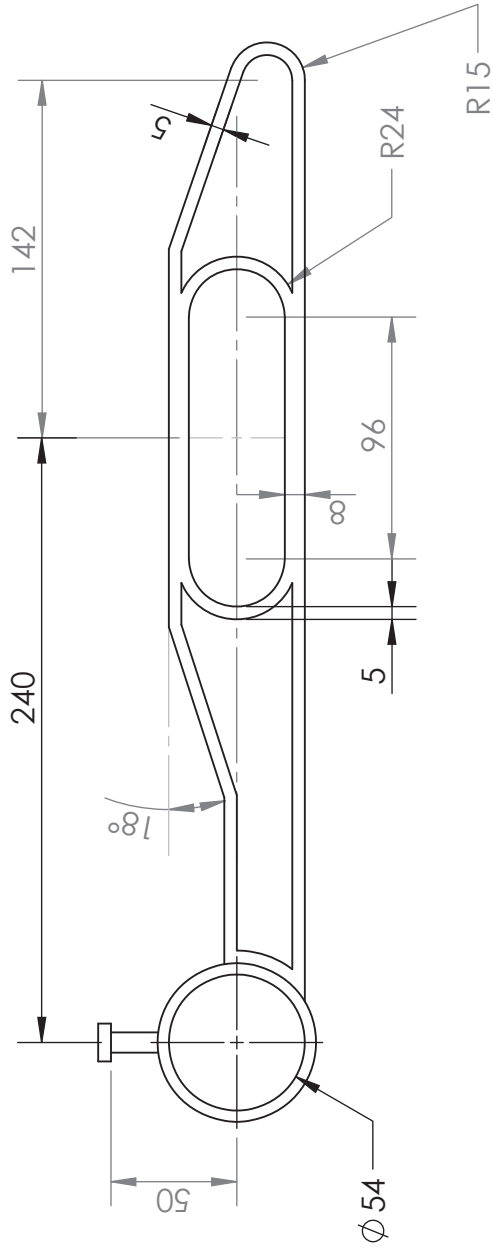
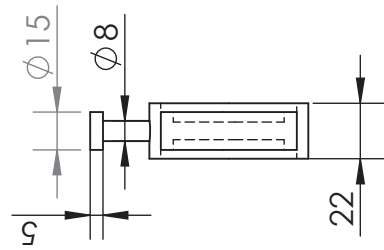
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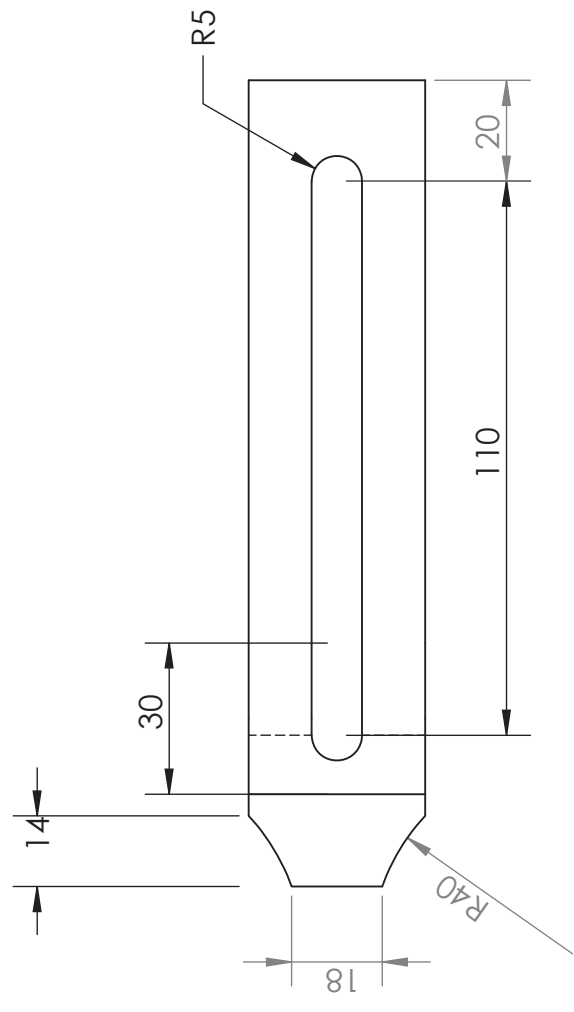
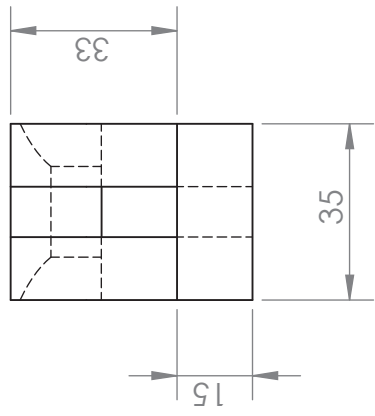
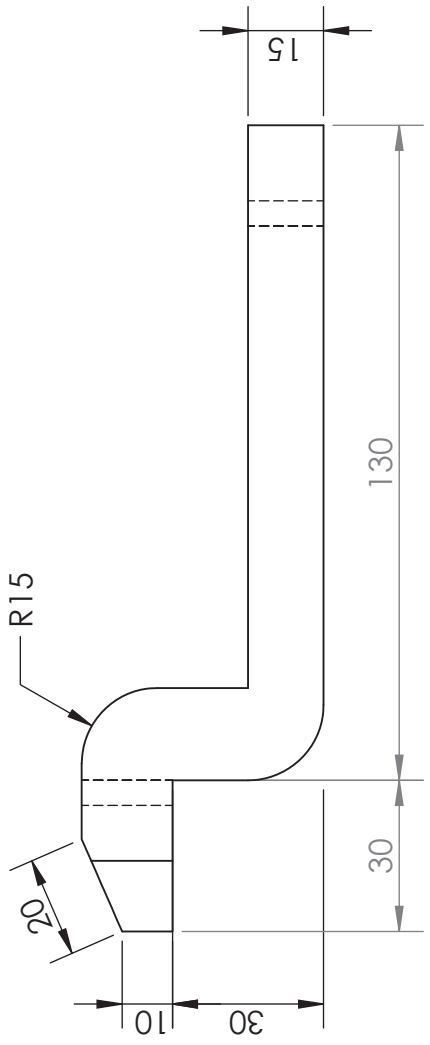
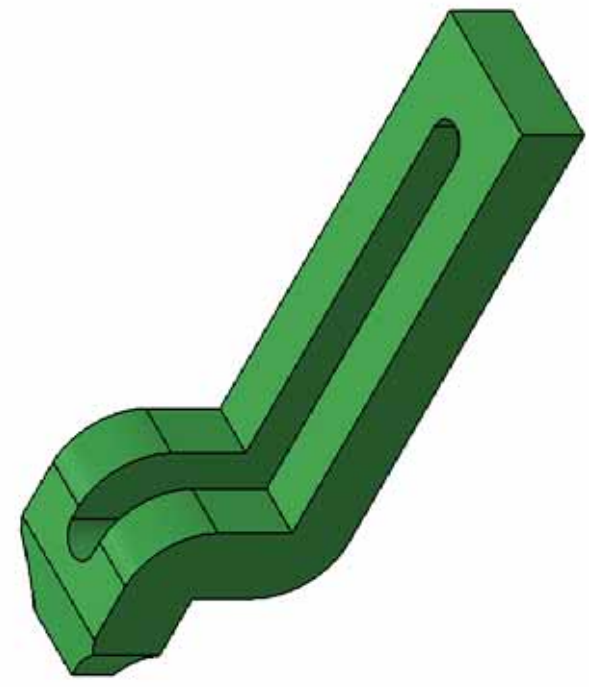


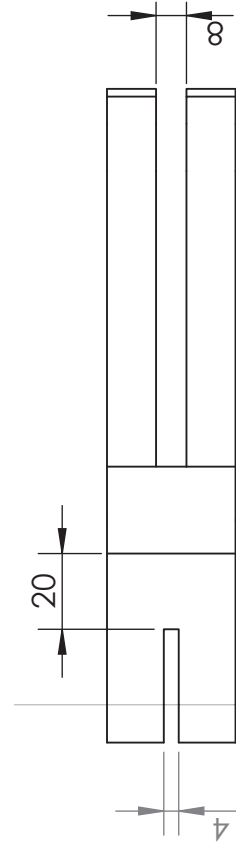
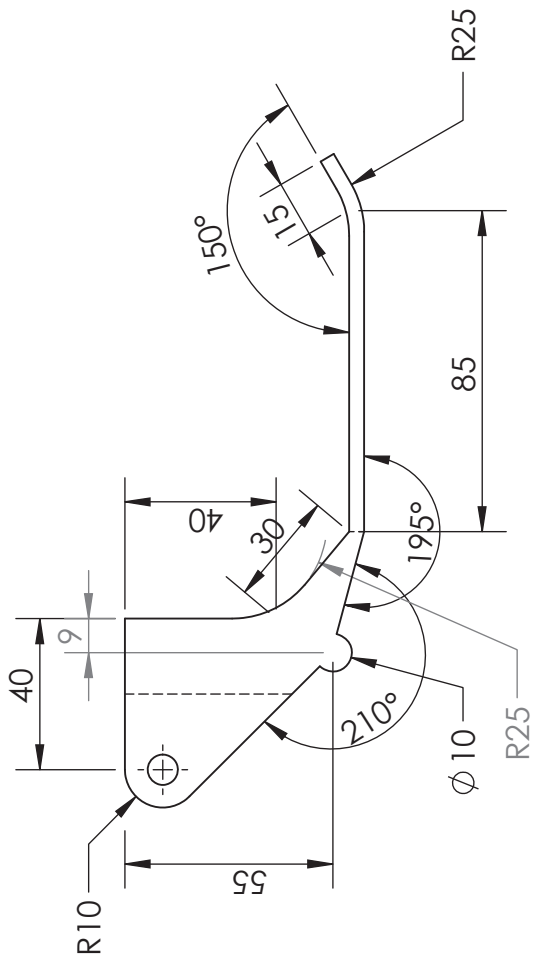
ANGLE OF PROJECTION

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ANGLE OF PROJECTION



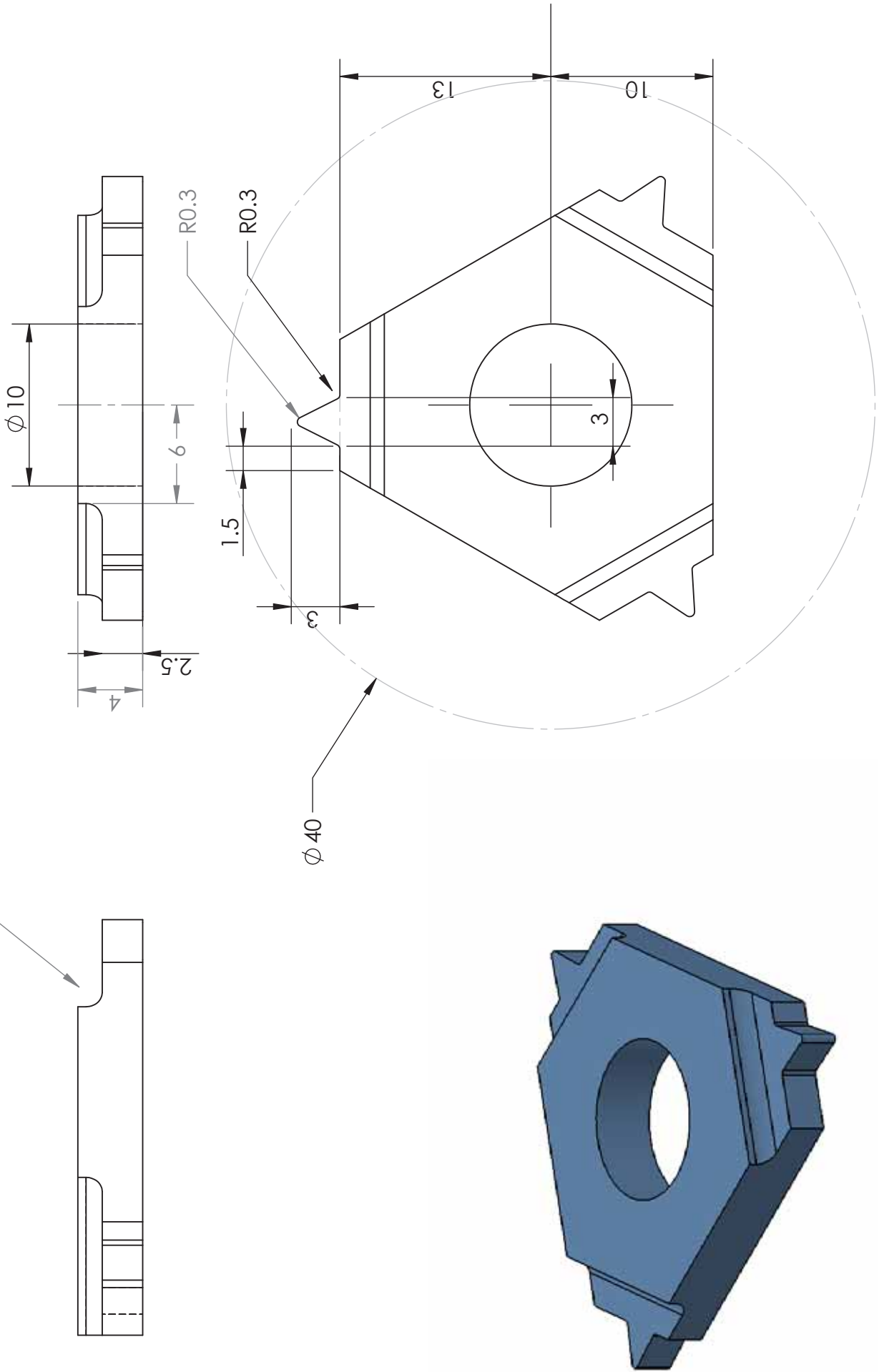


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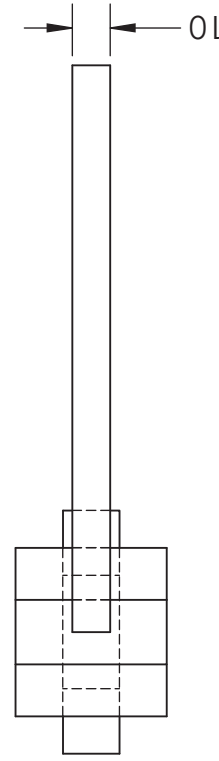
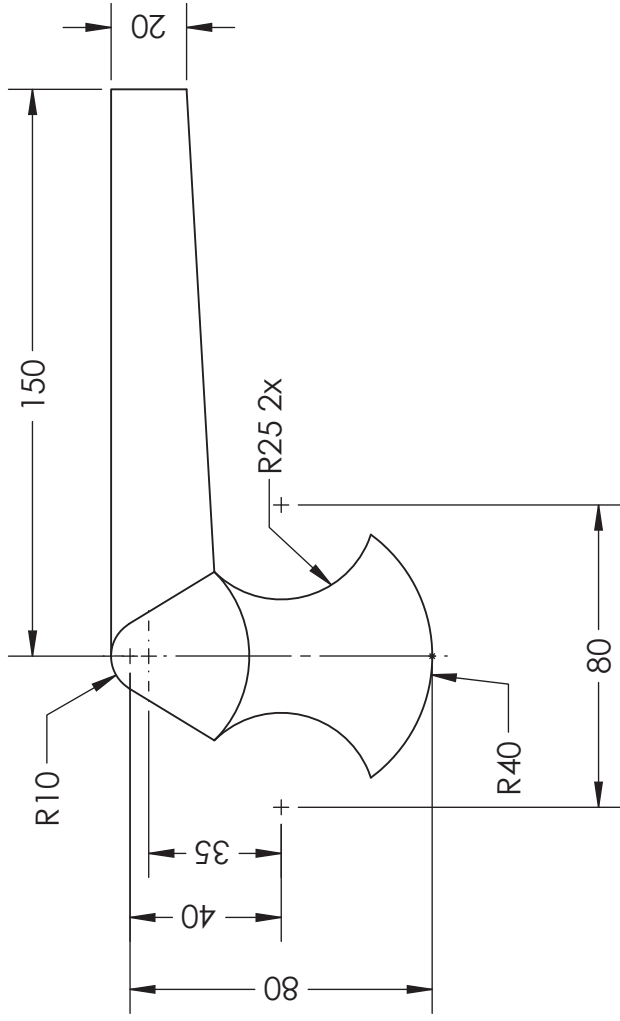
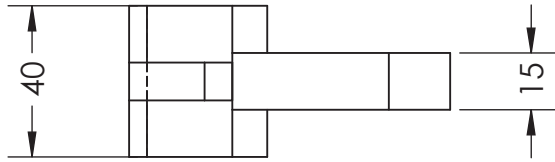
TRUE R1



ALL DIMENSIONS ARE IN MM



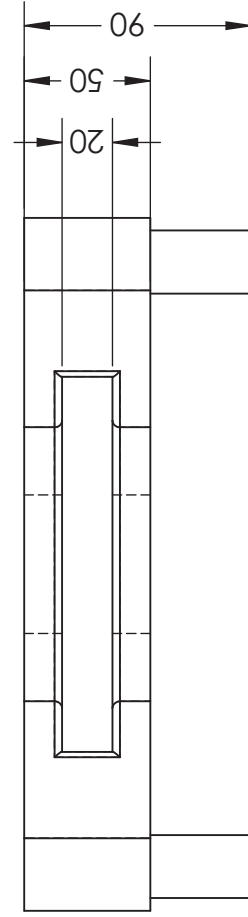
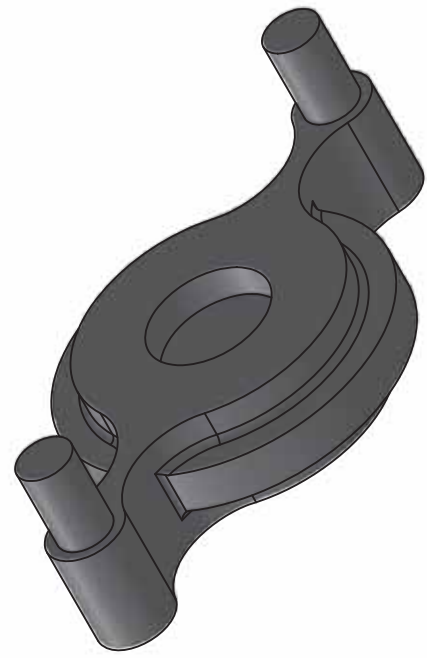
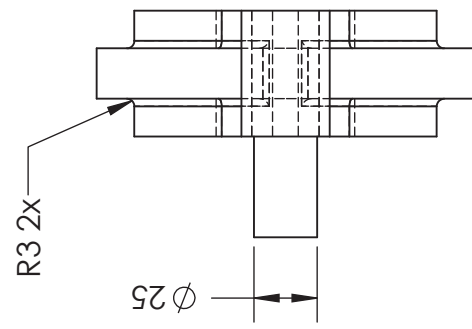
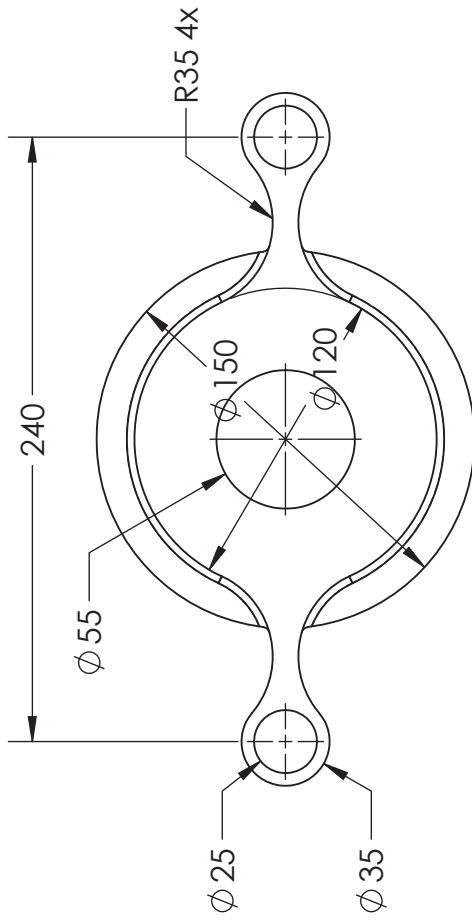
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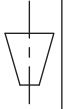
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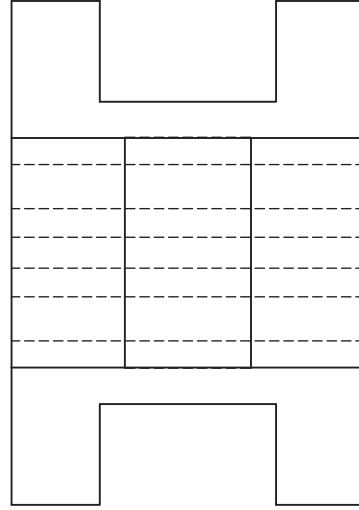
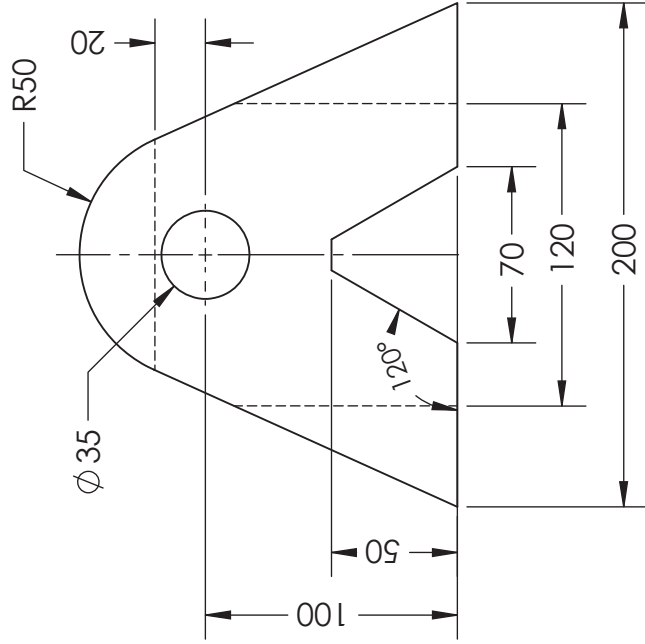
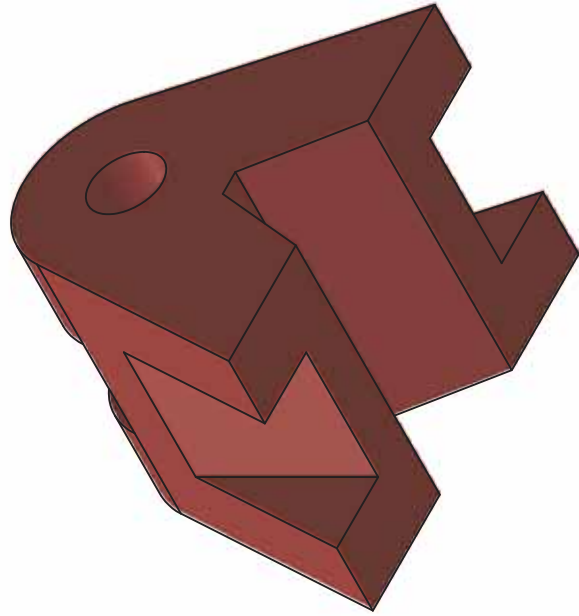
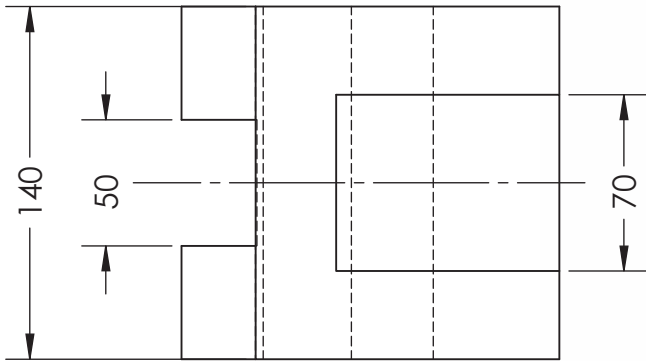


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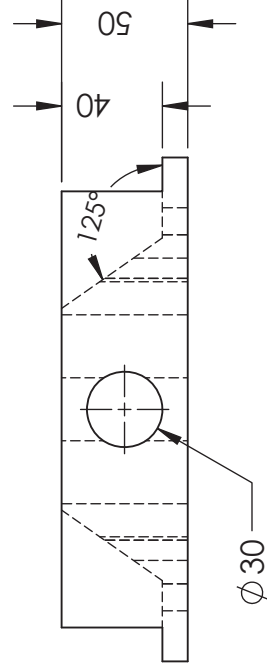
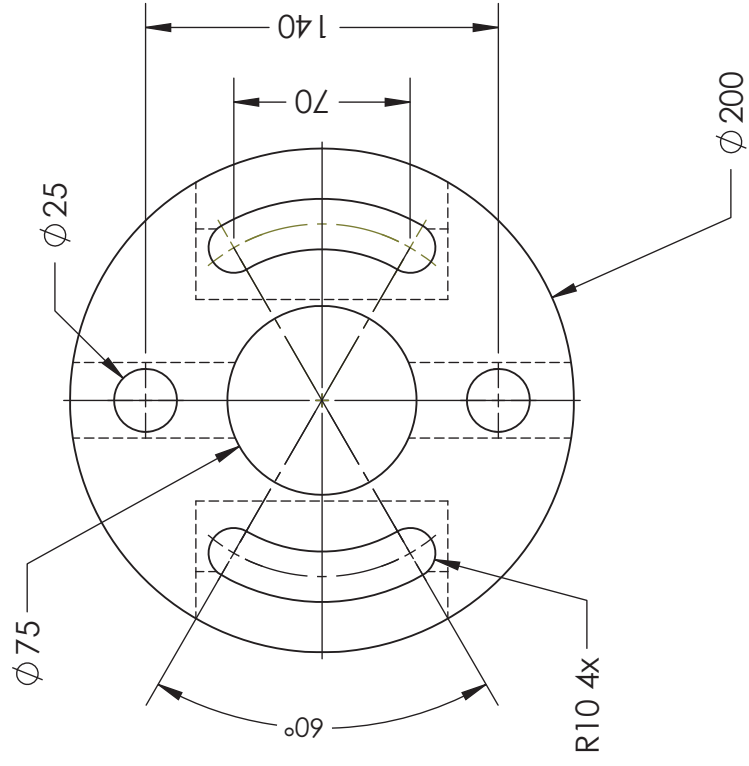
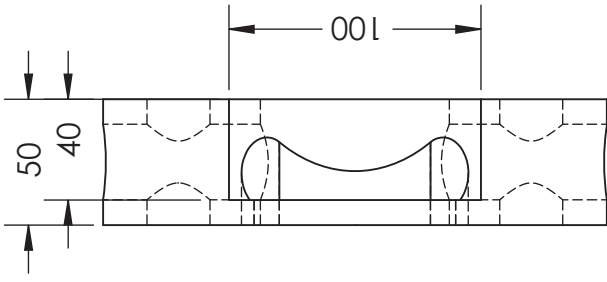


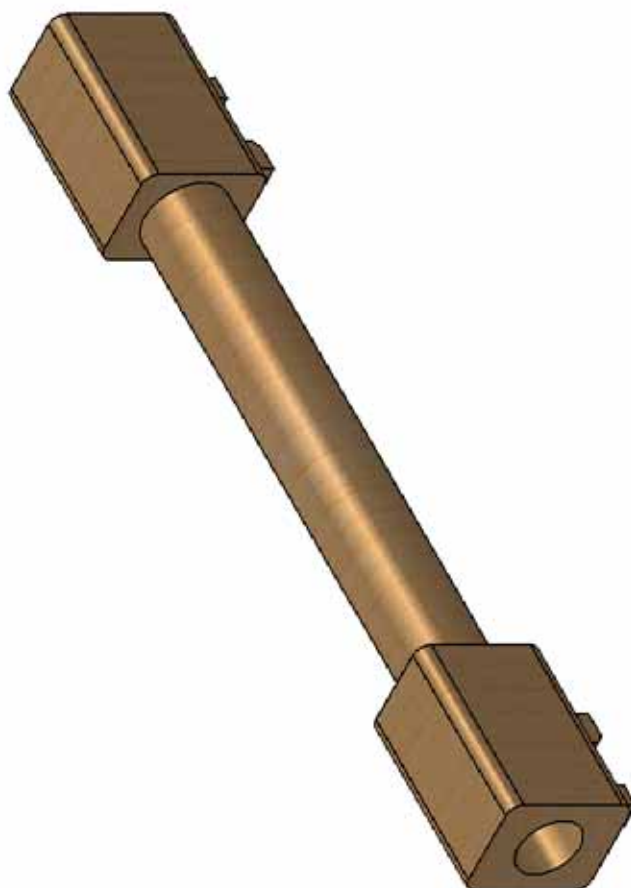
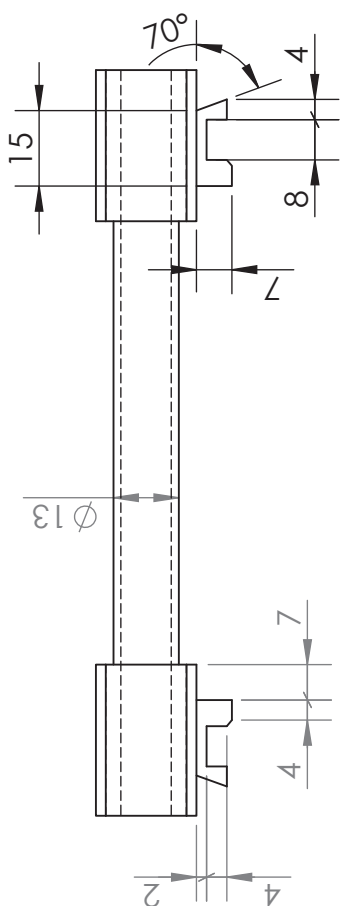
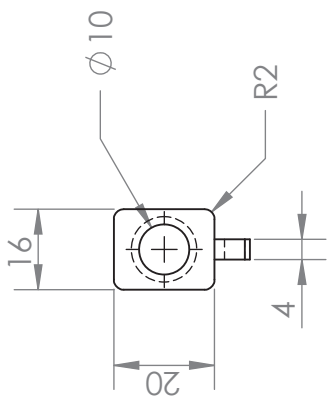


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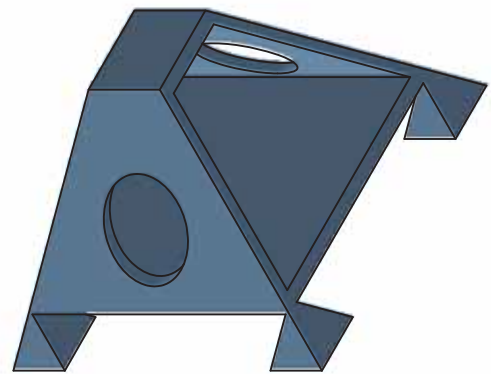
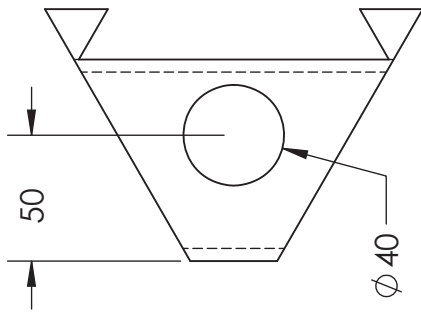
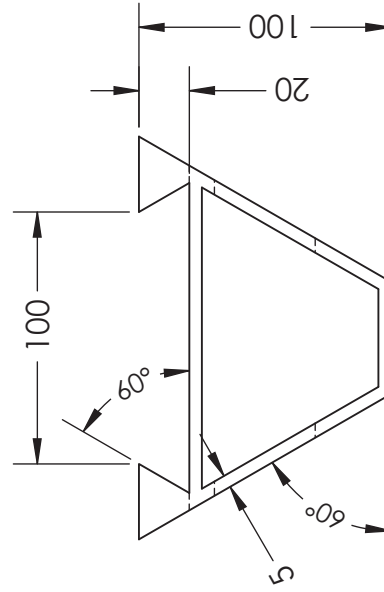
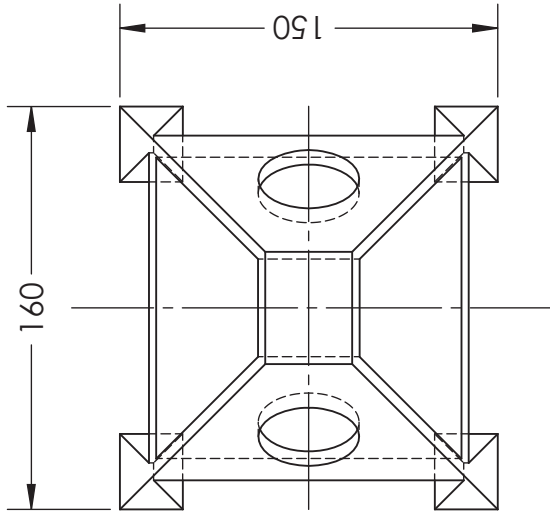




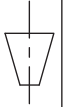
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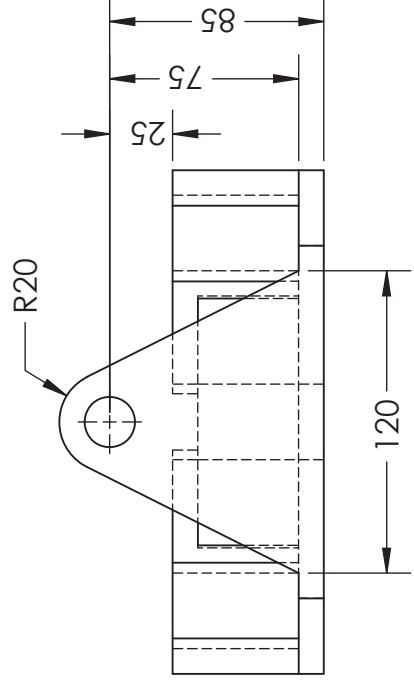
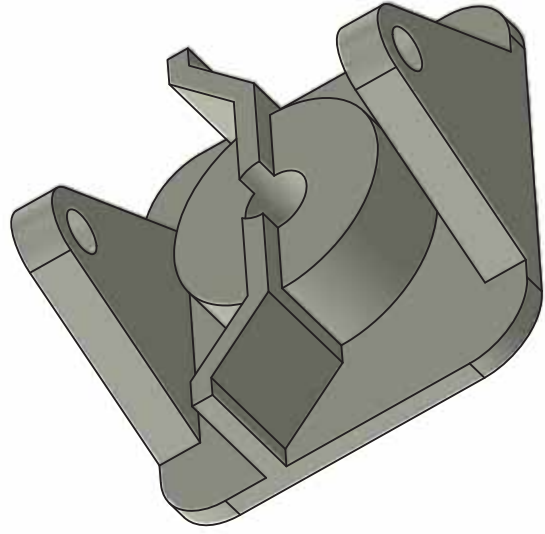
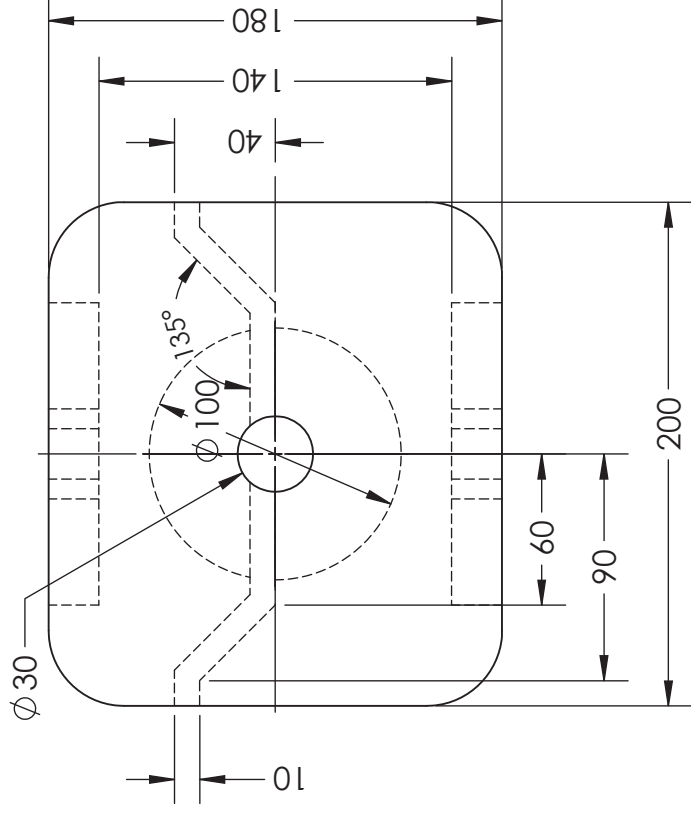
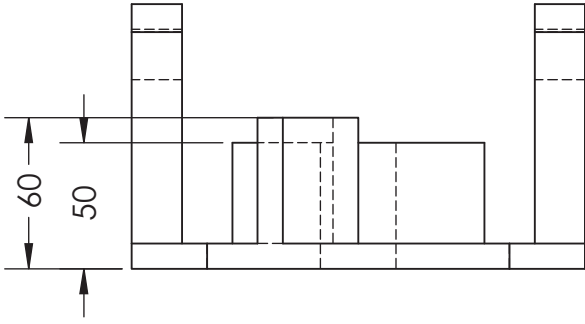
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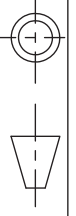
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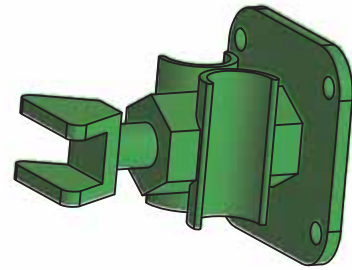
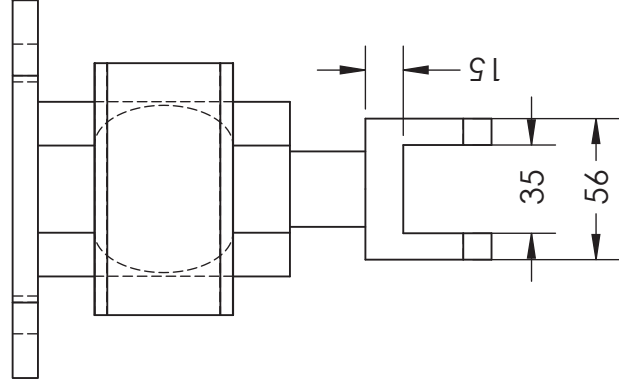
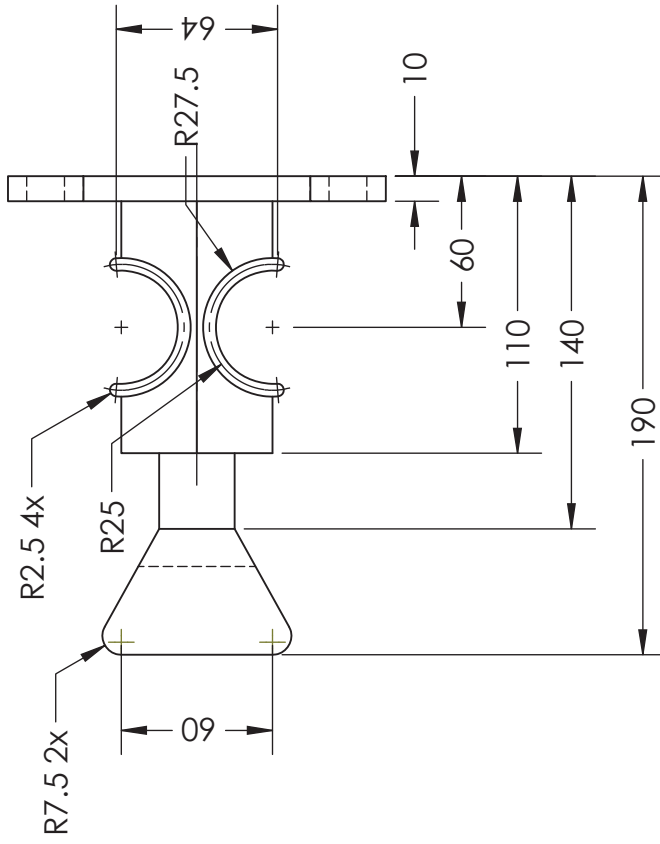
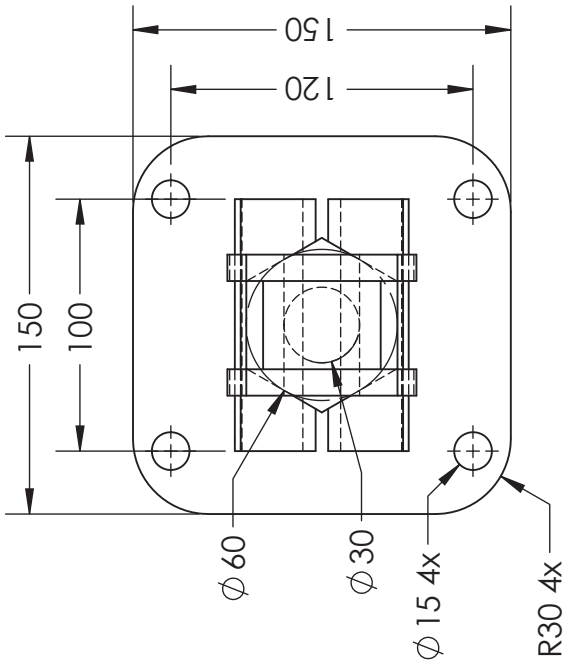
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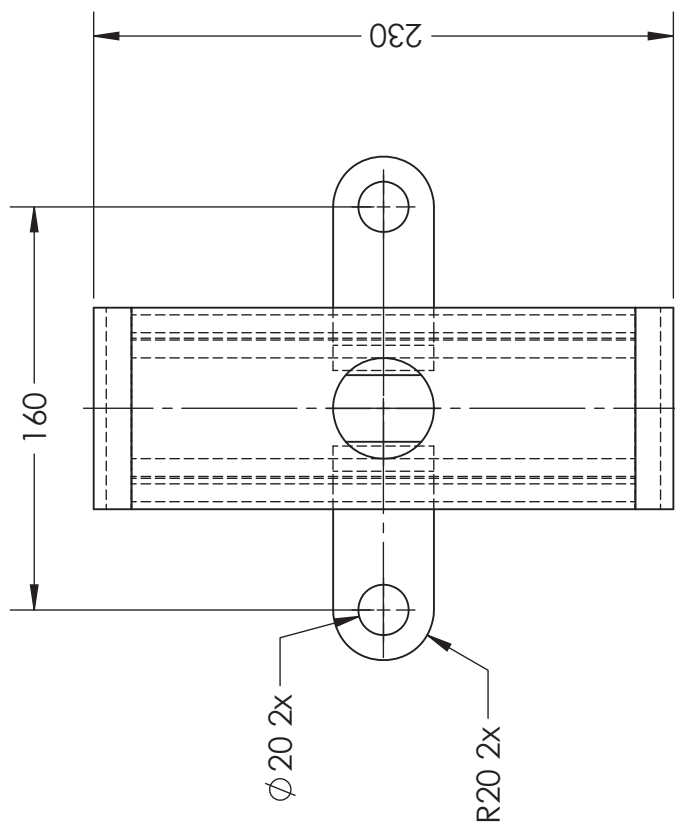
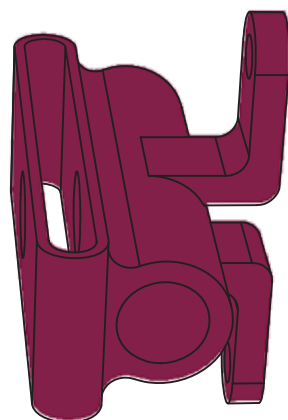
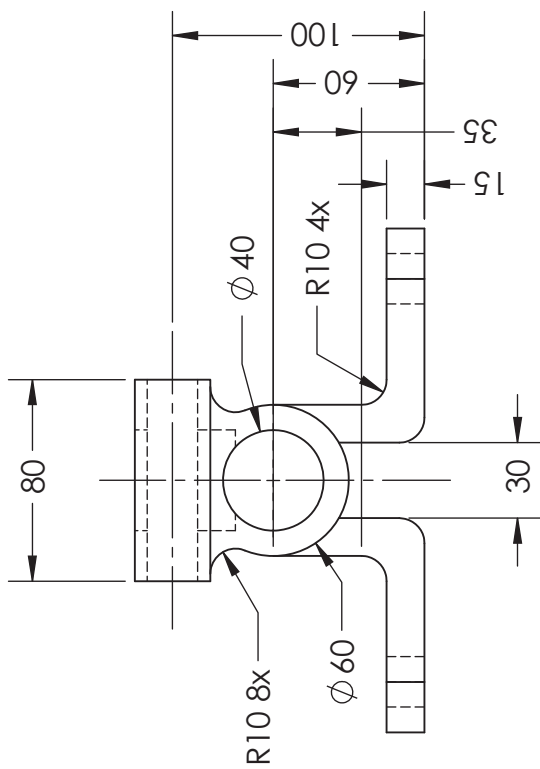
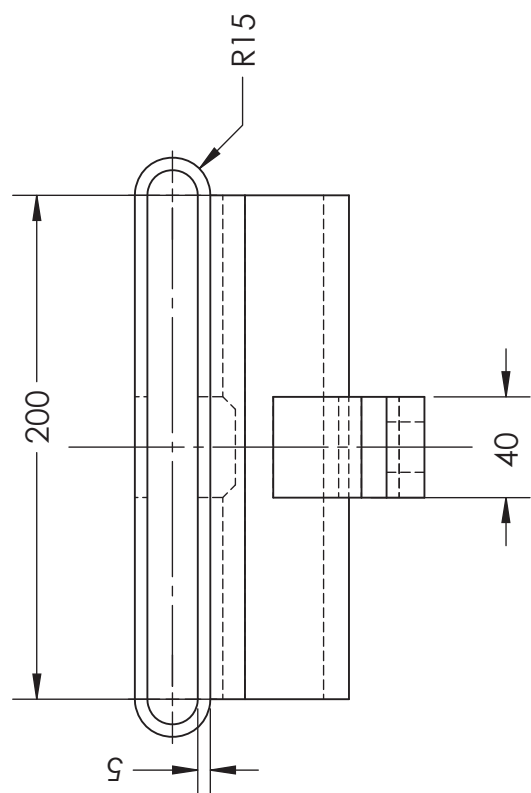
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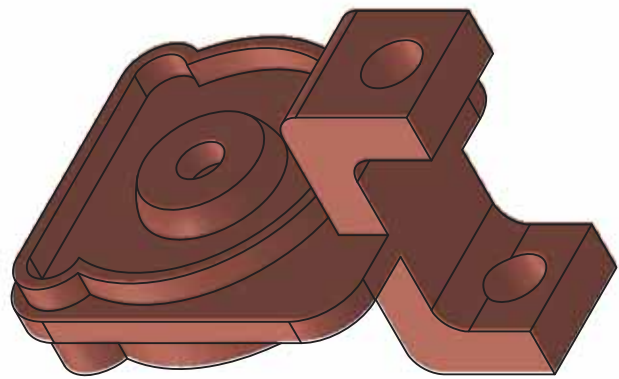
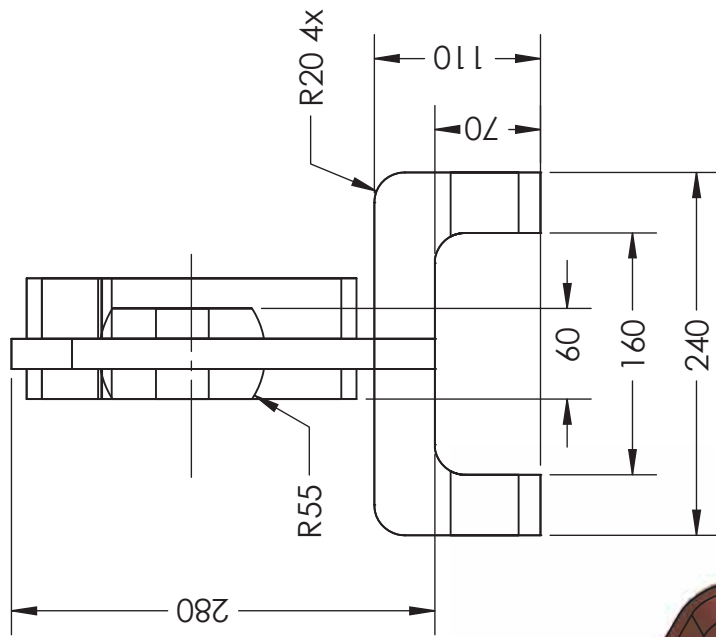
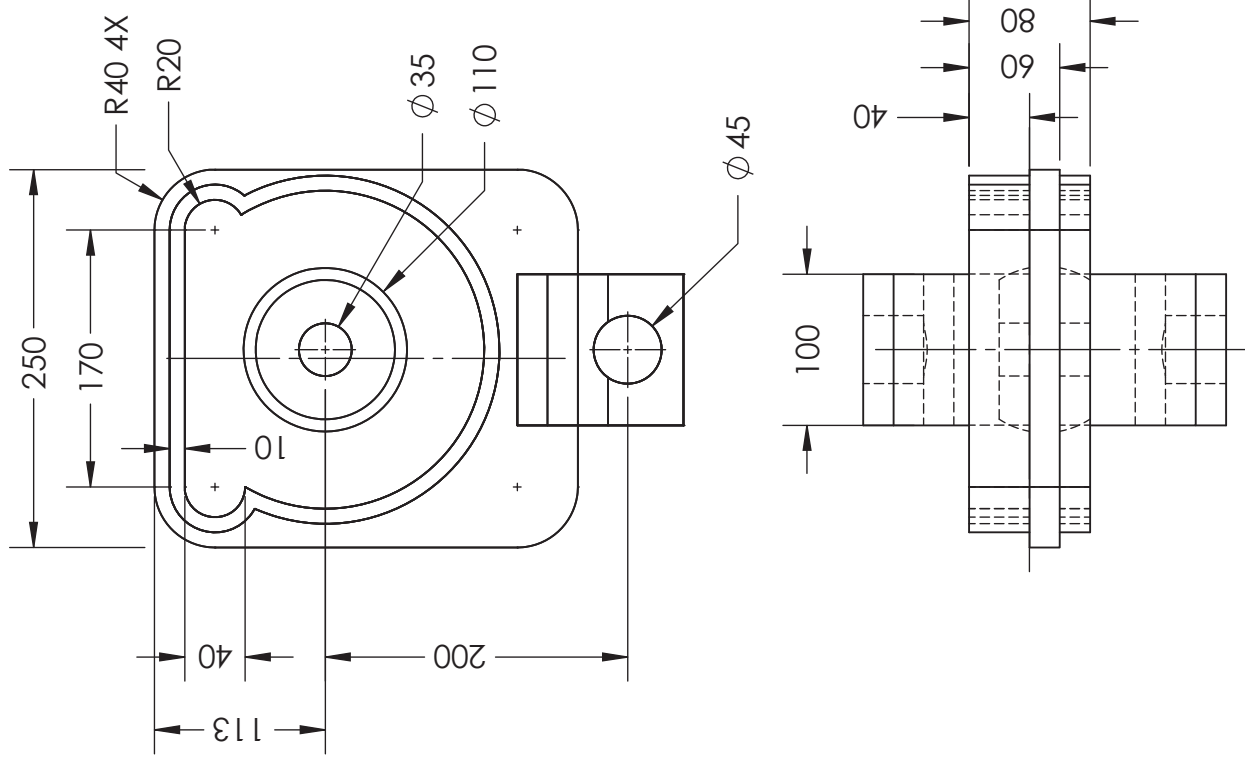
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ANGLE OF PROJECTION



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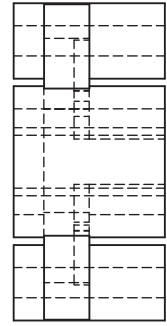
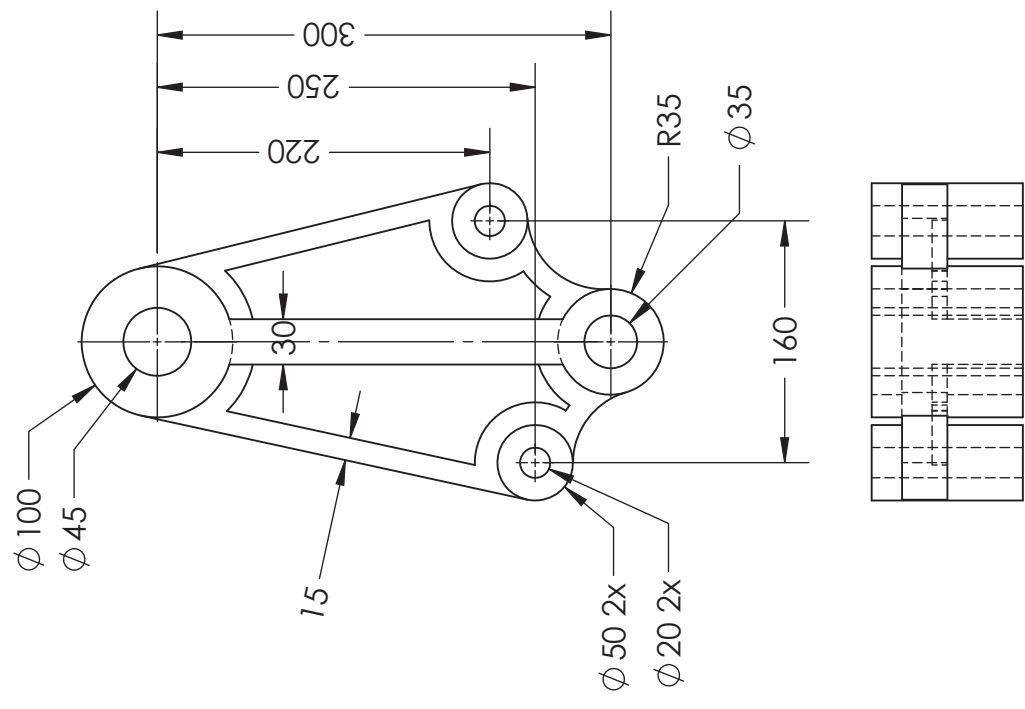
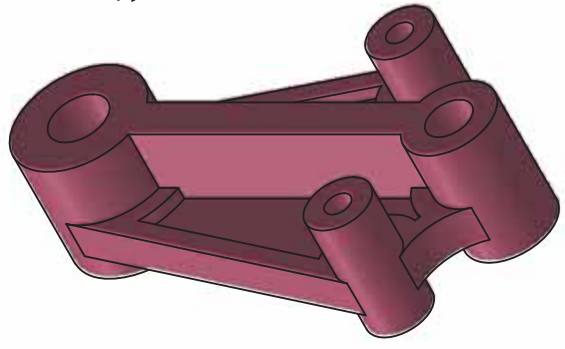
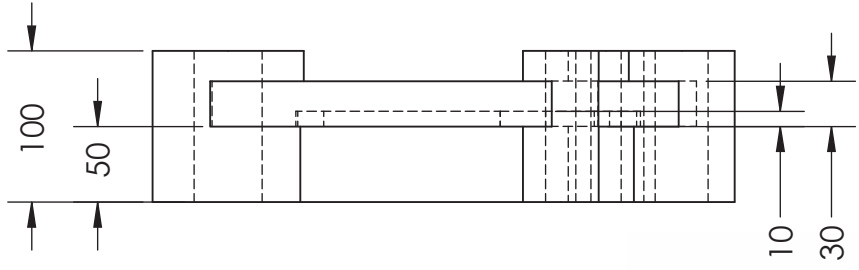


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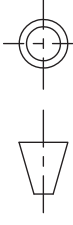


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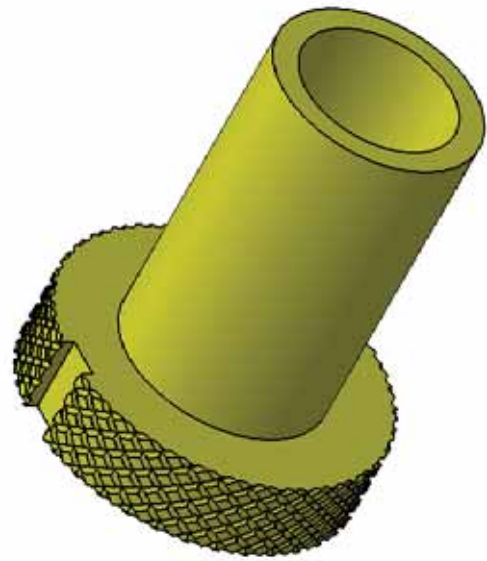
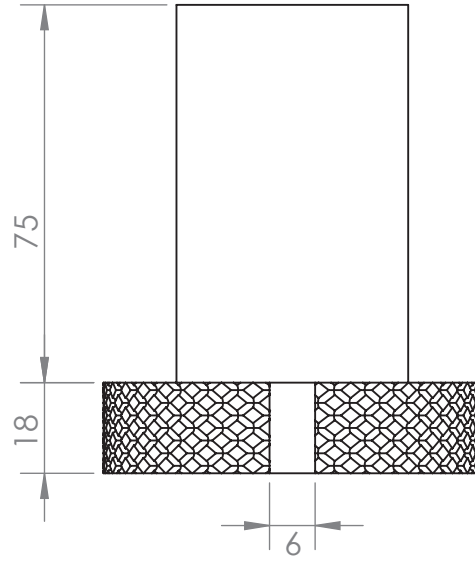
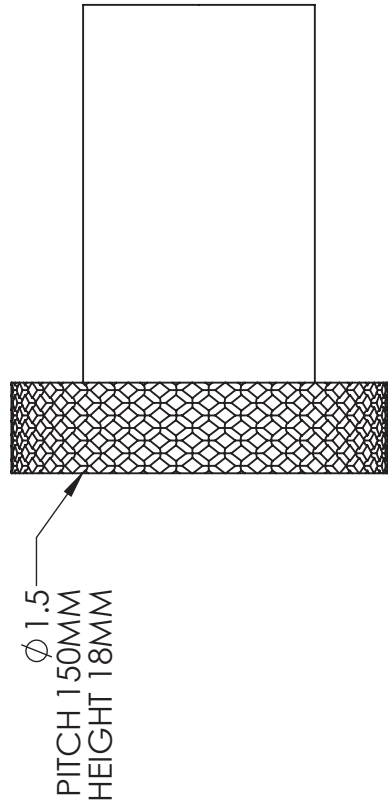
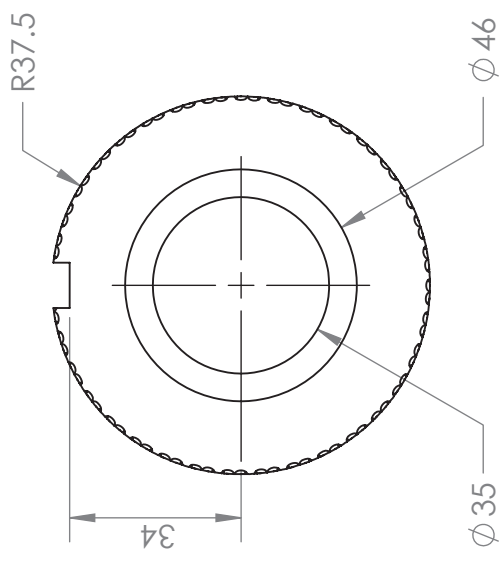




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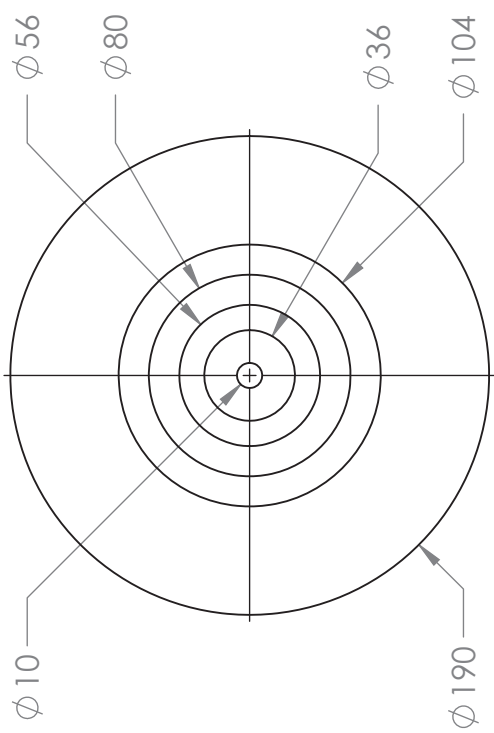
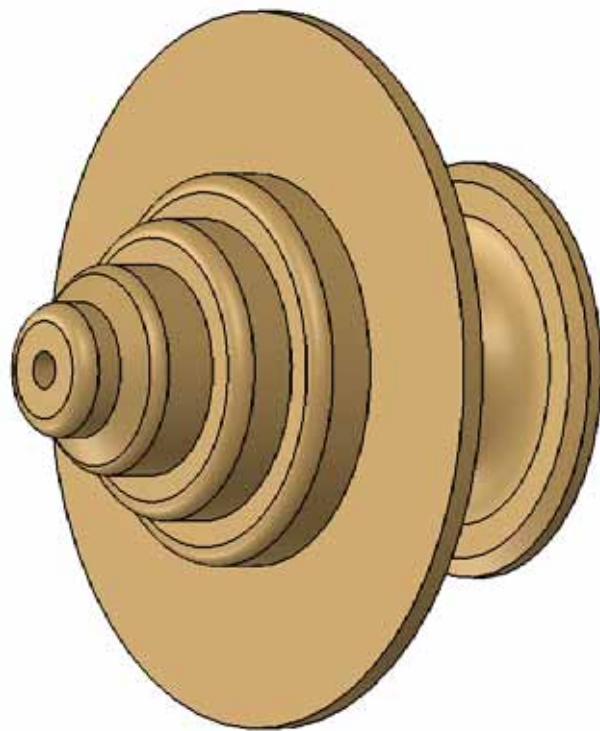
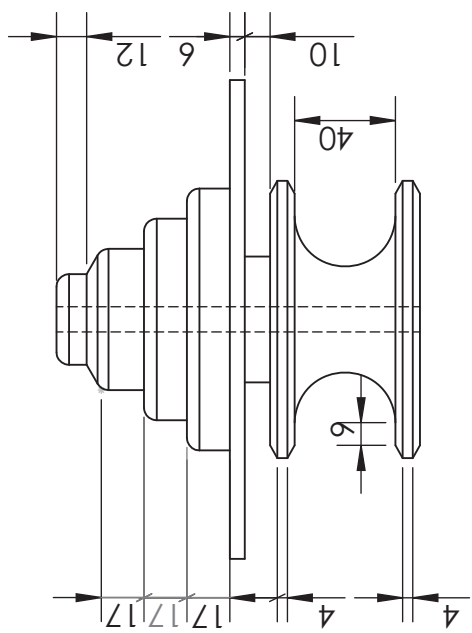
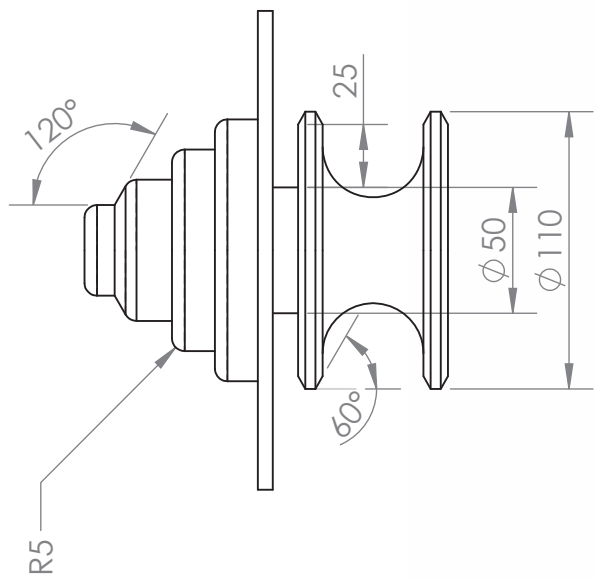
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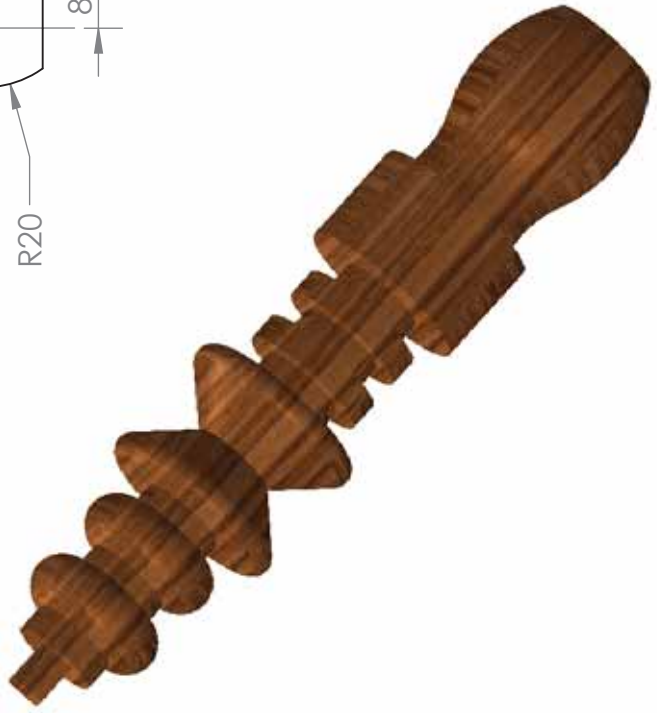
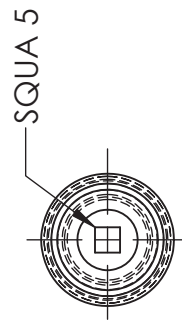
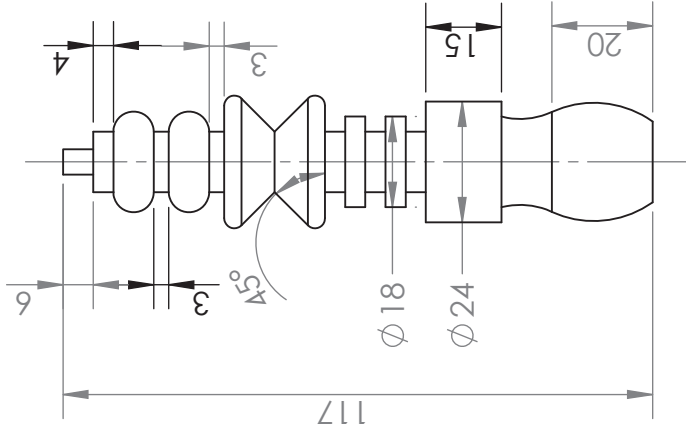
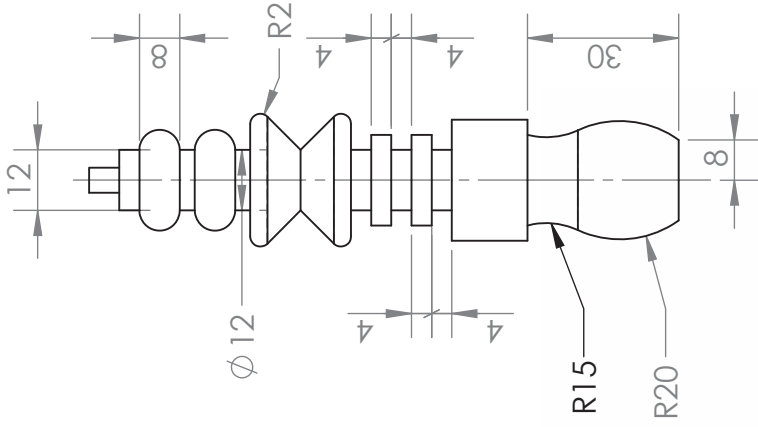
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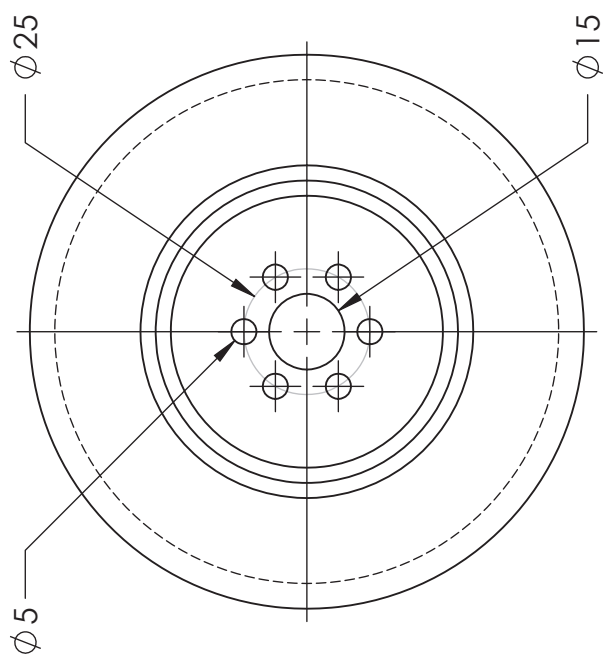
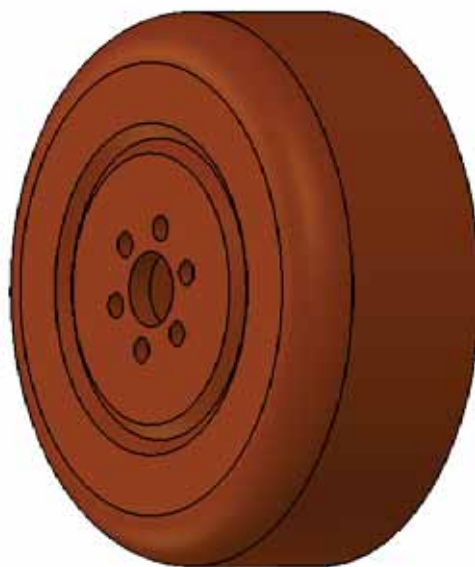
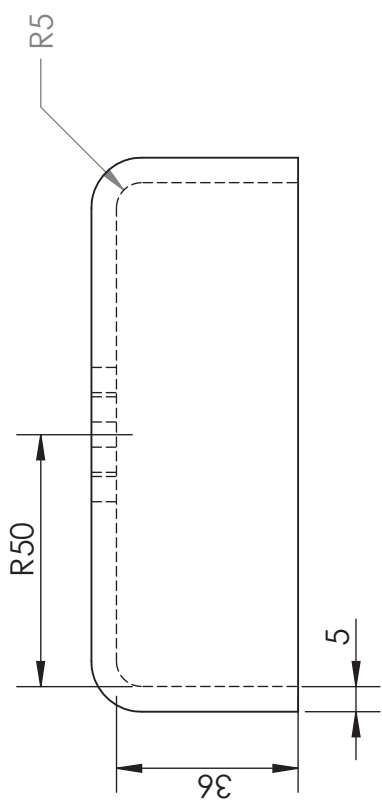
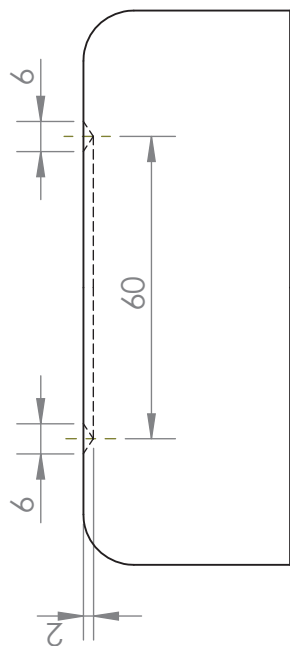


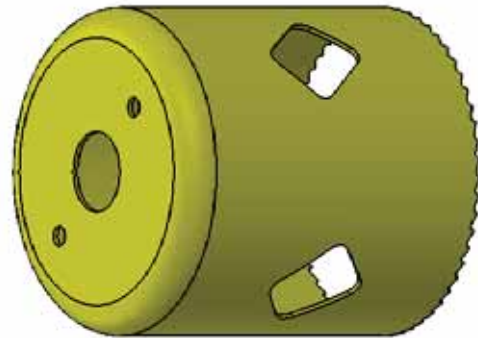
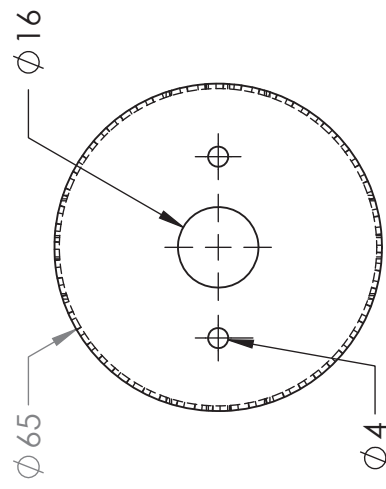
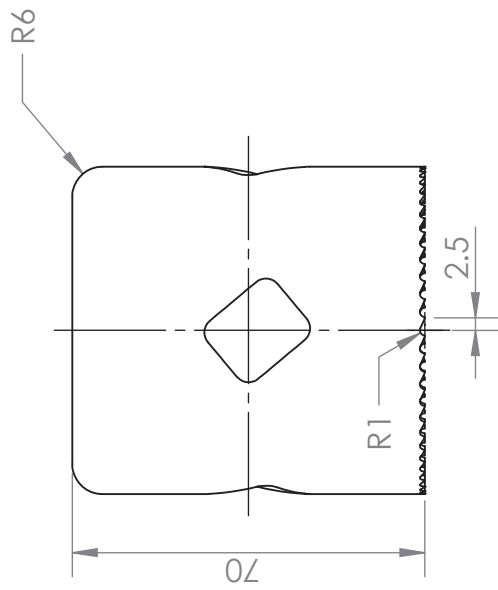
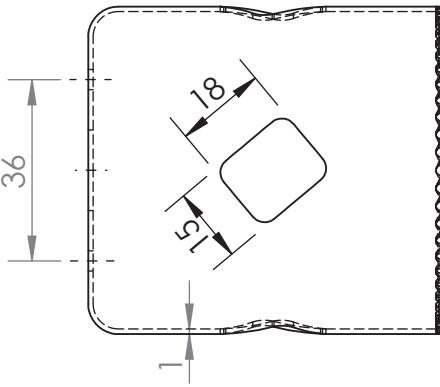
ANGLE OF PROJECTION



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ARE IN MM

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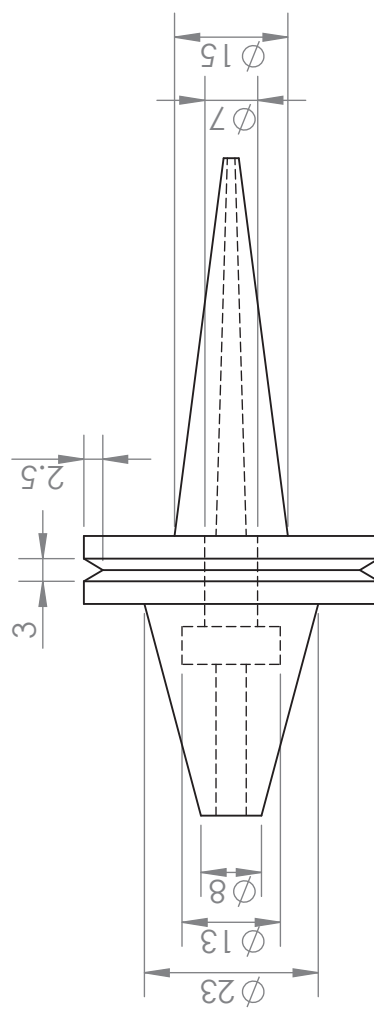
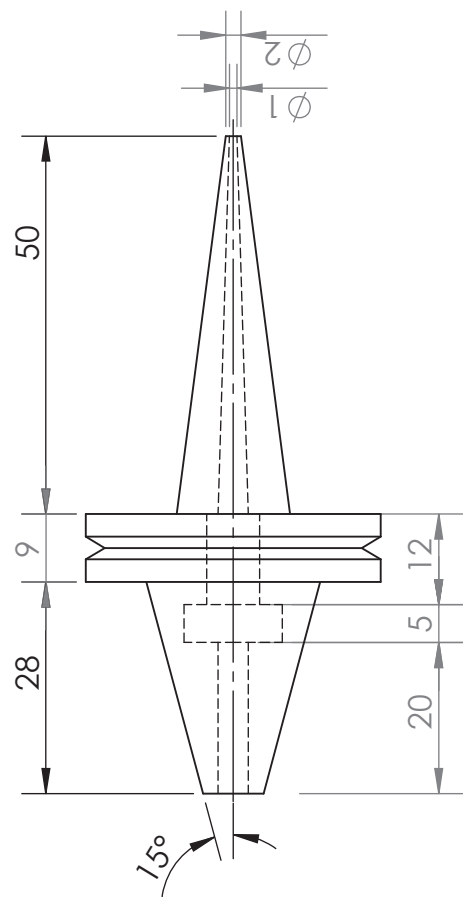
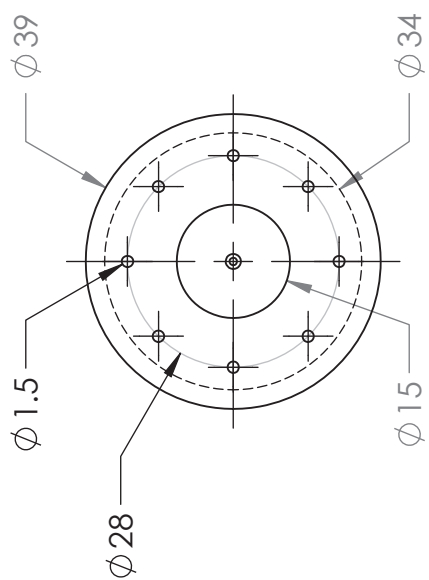




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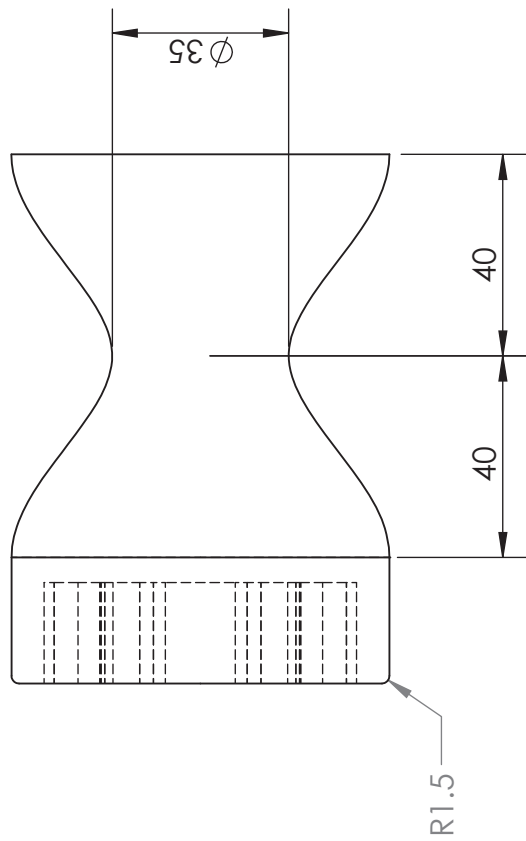
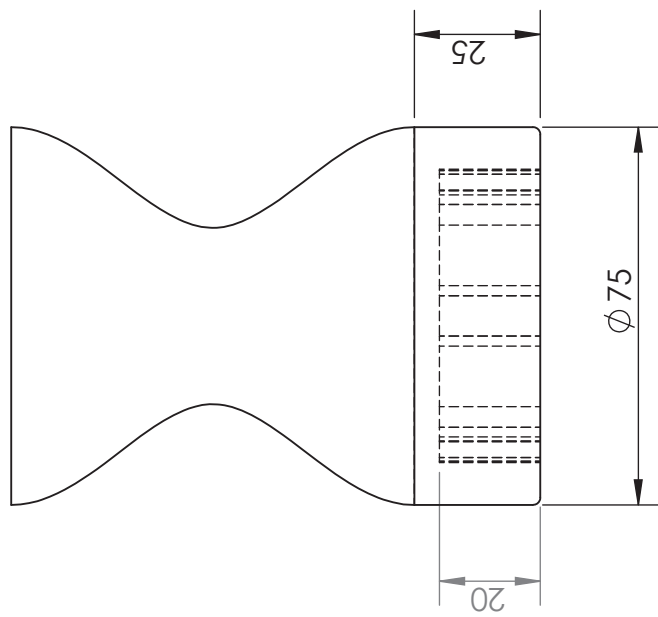
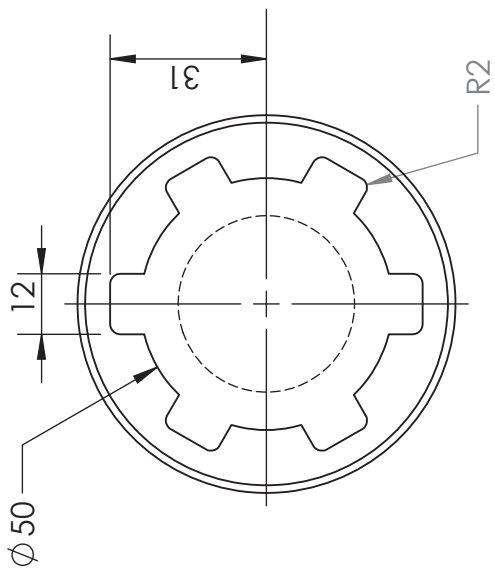
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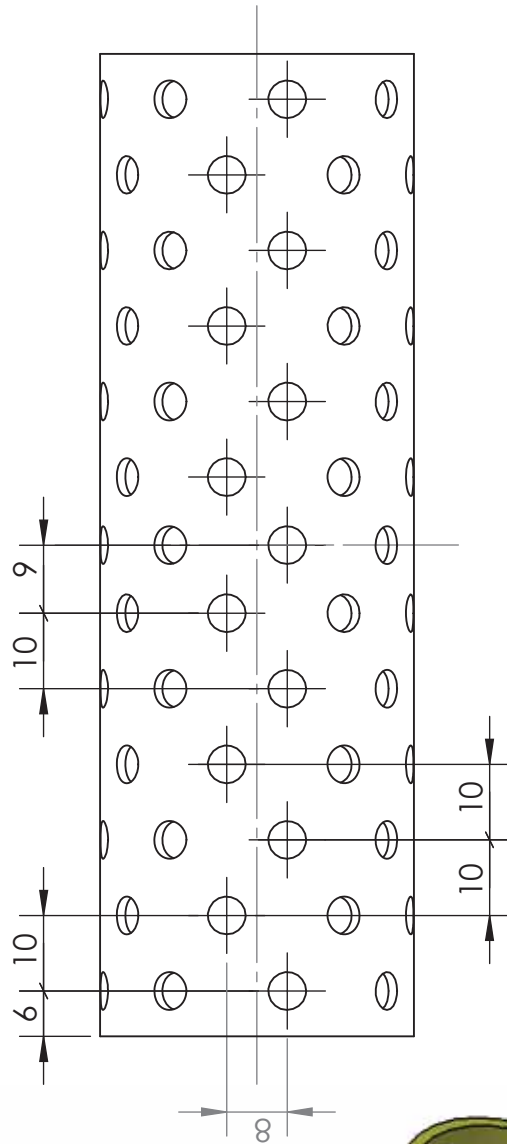
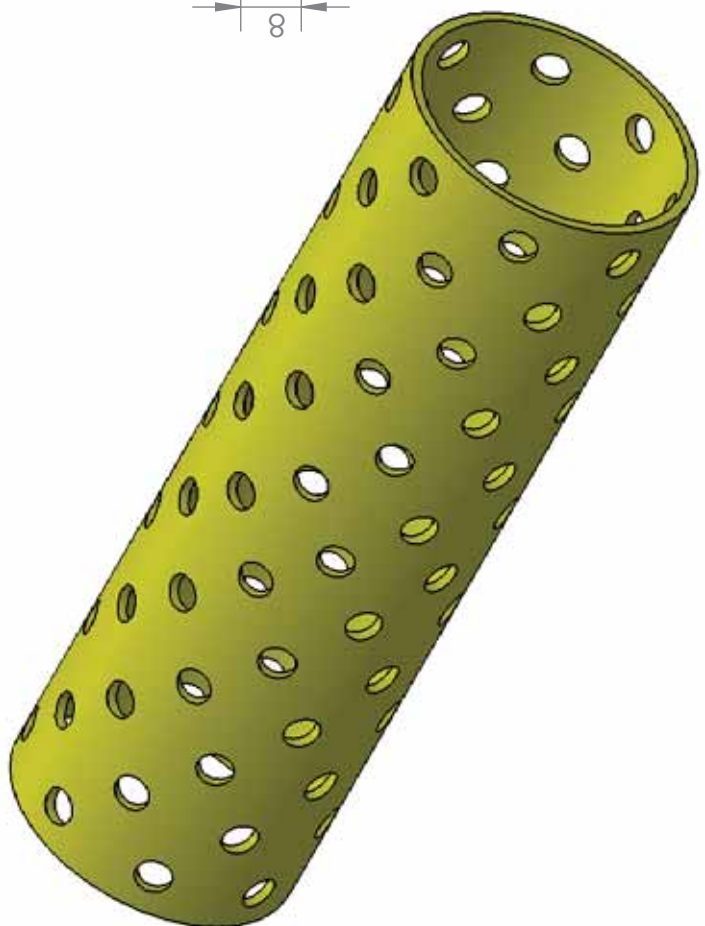
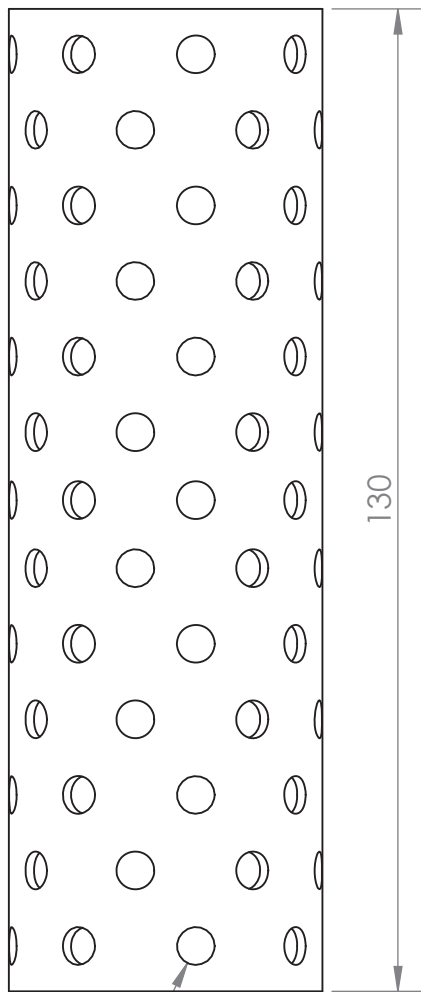
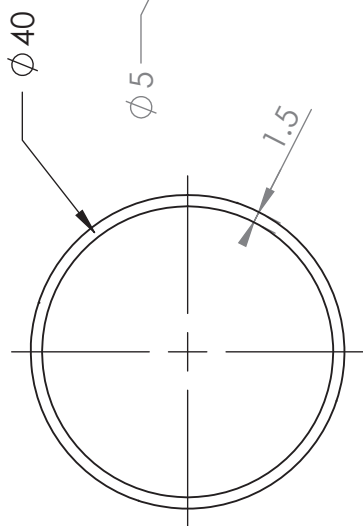
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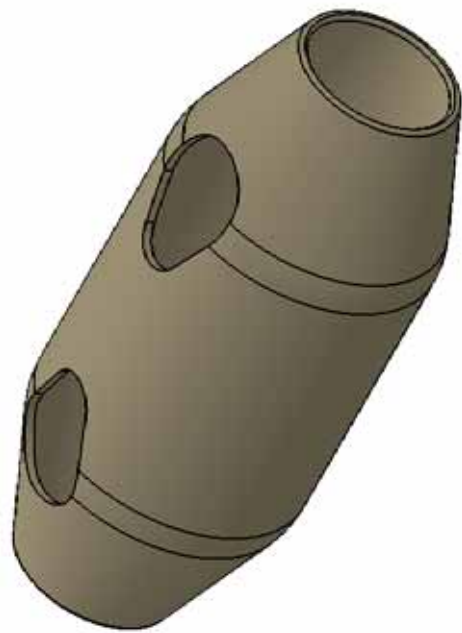
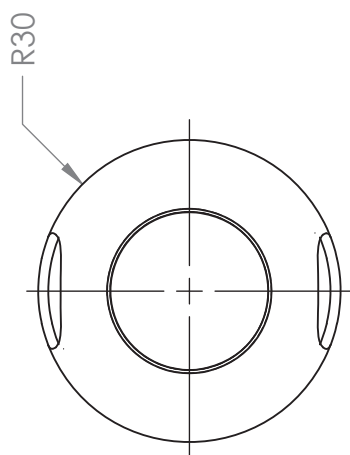
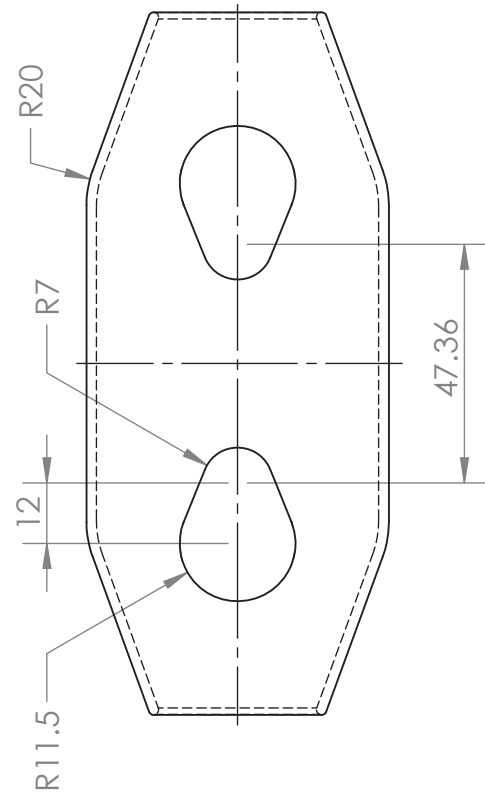
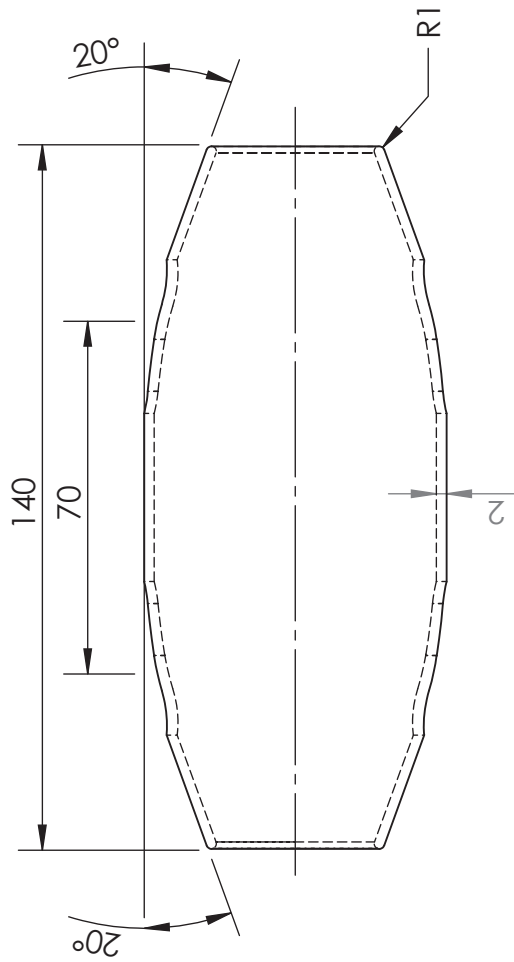




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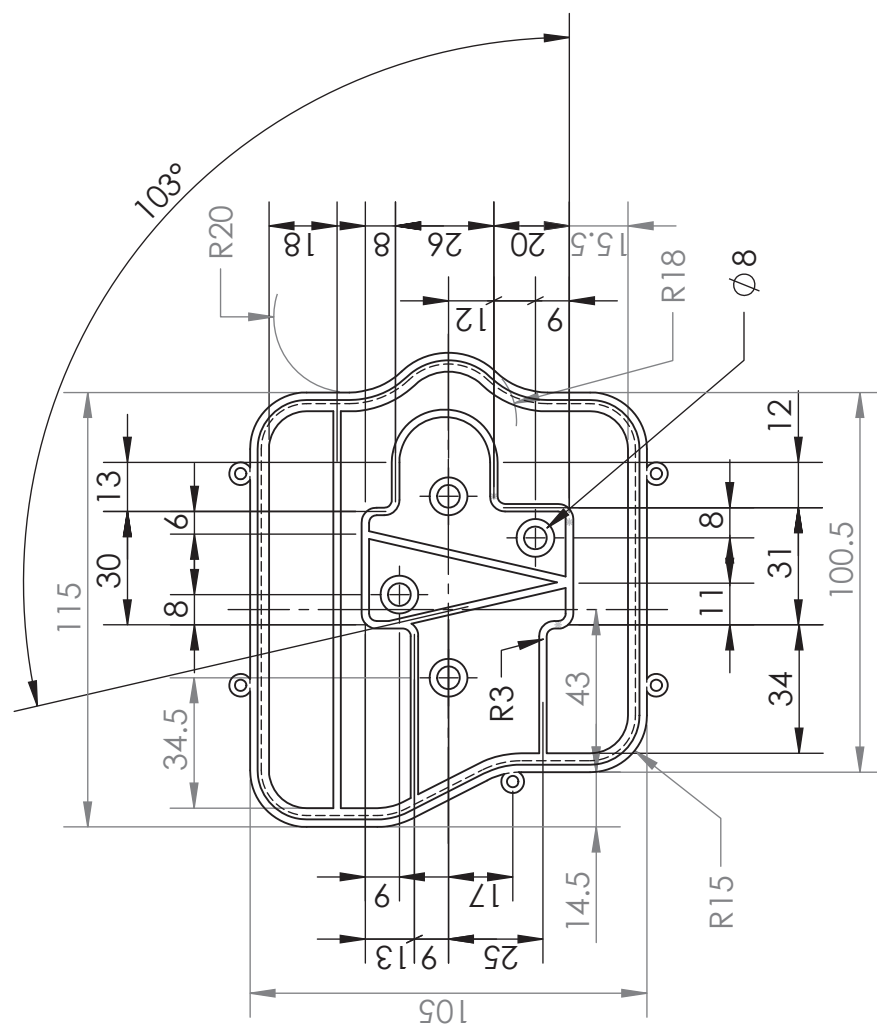
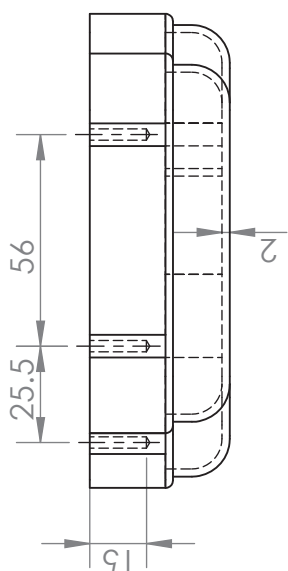
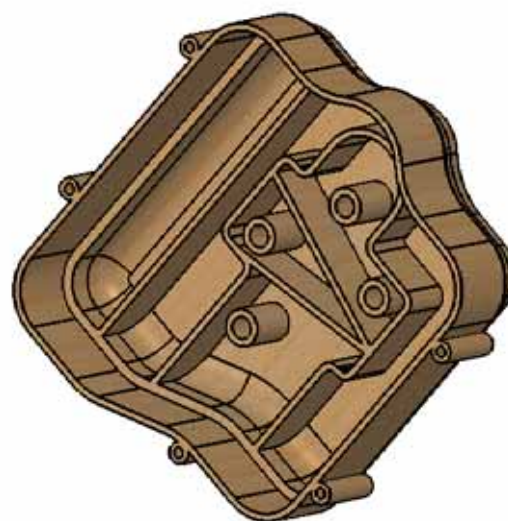
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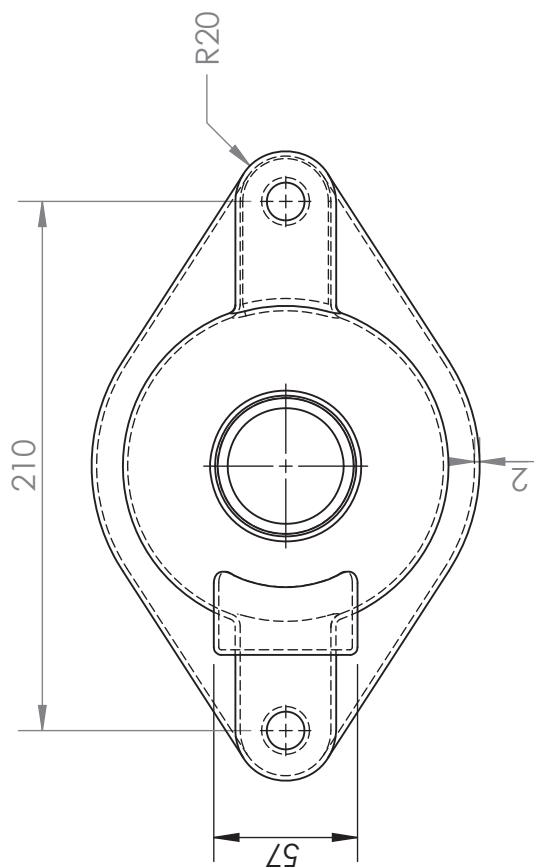
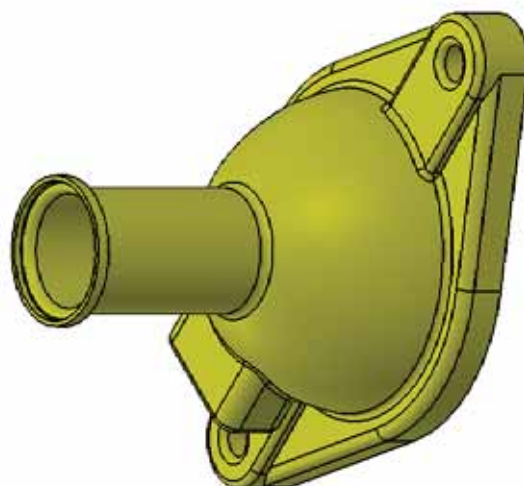
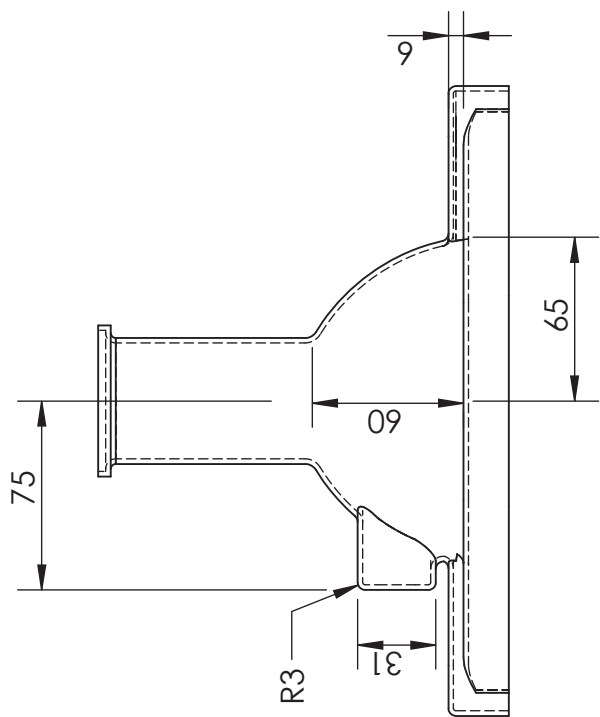
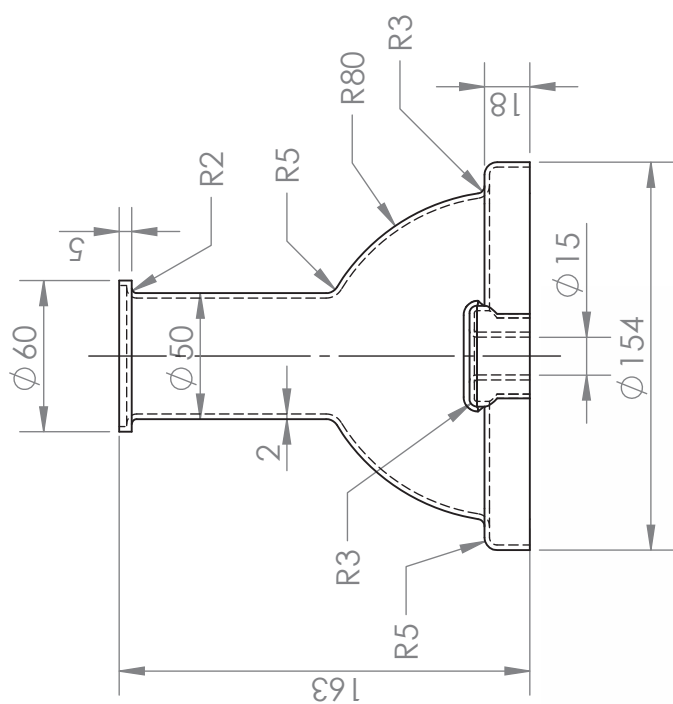
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## ANGLE OF PROJECTION



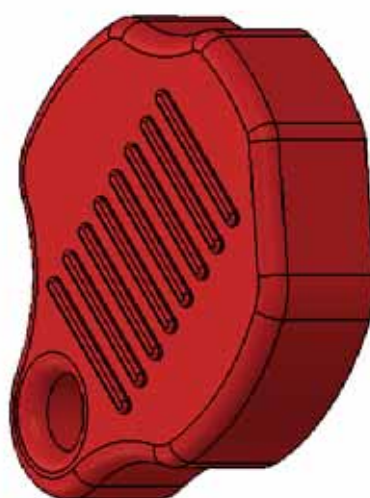
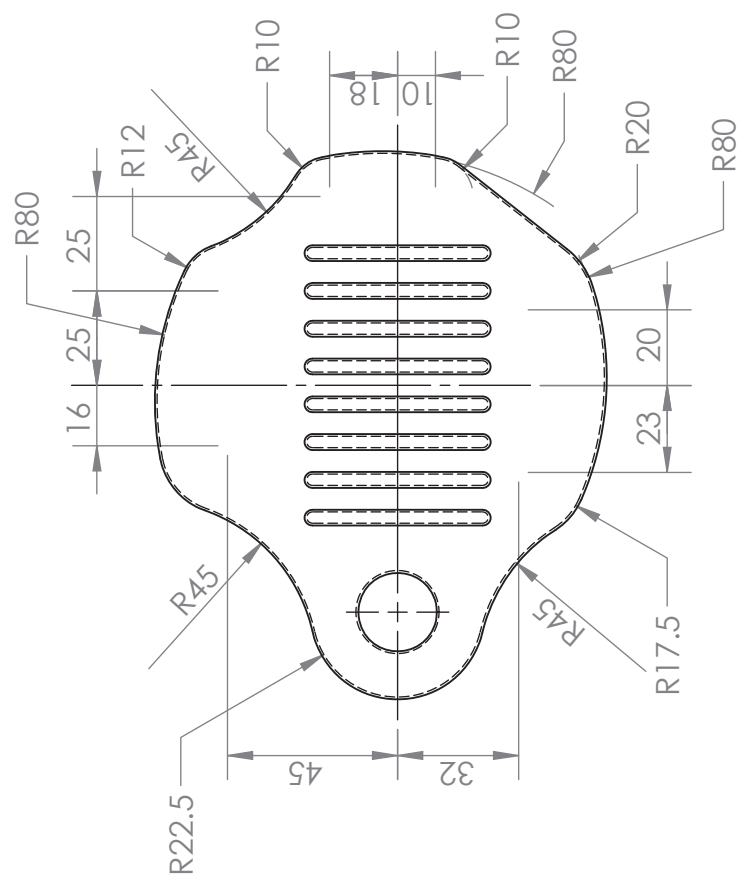
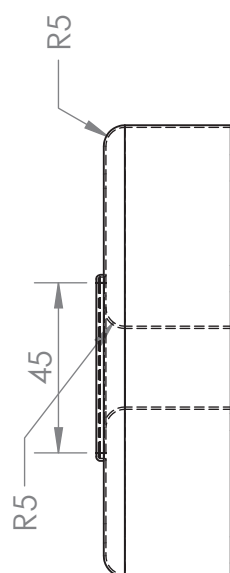
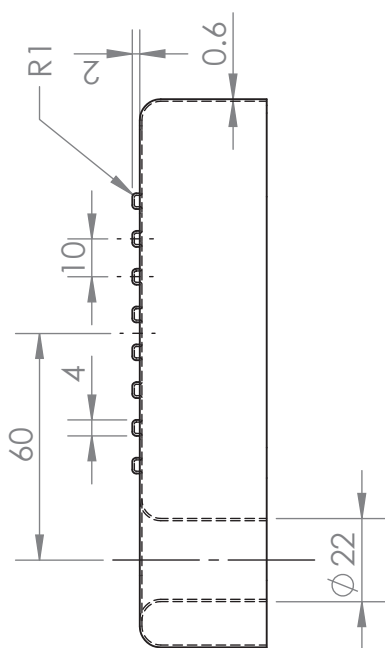
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ANGLE OF PROJECTION



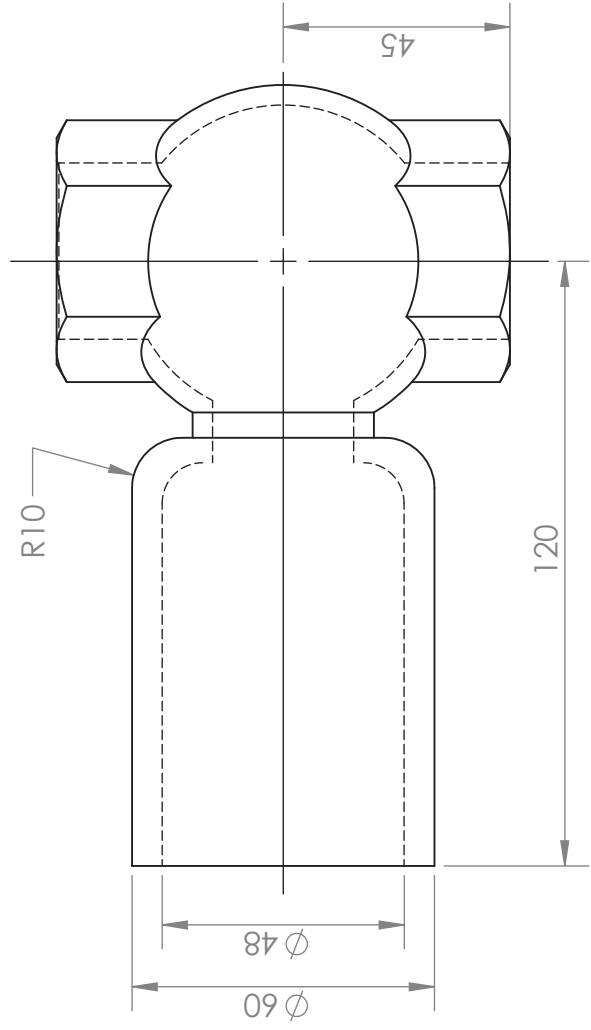
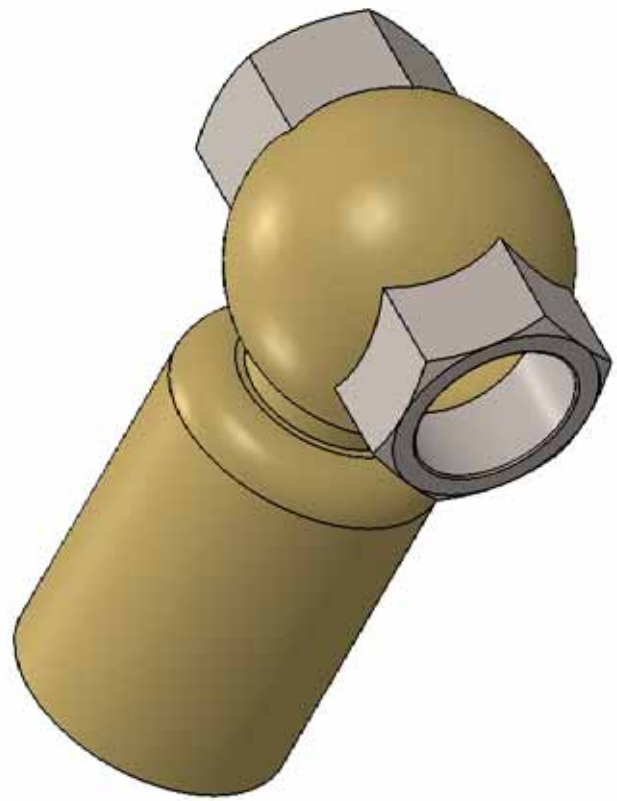
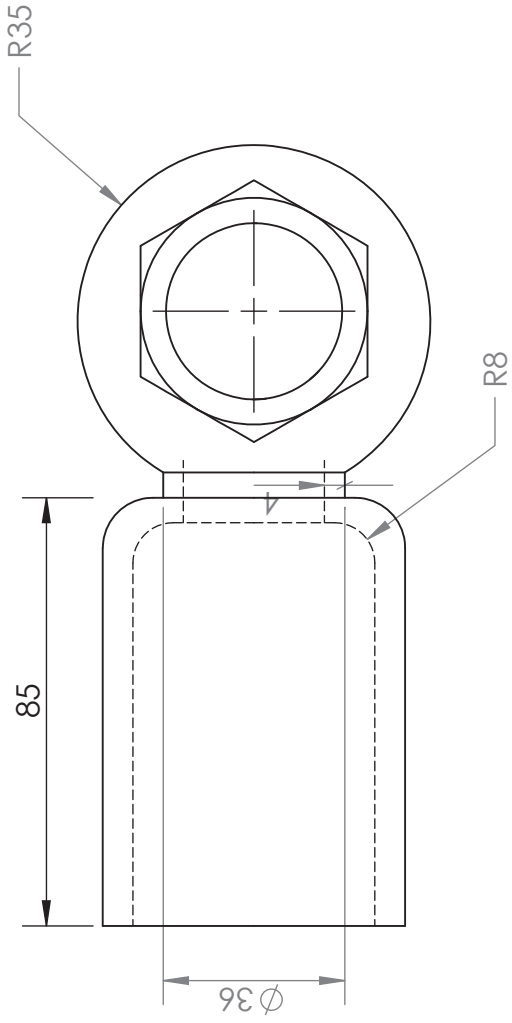
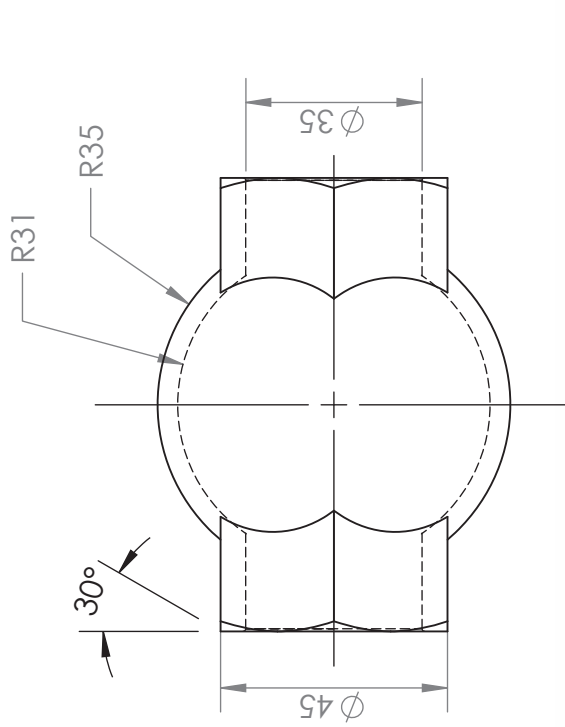
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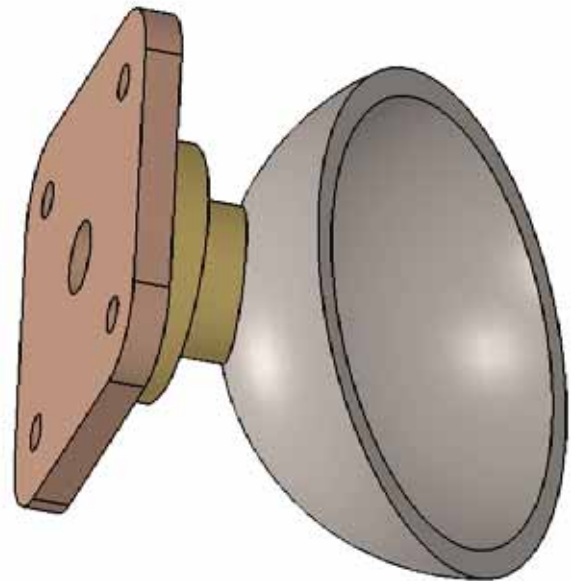
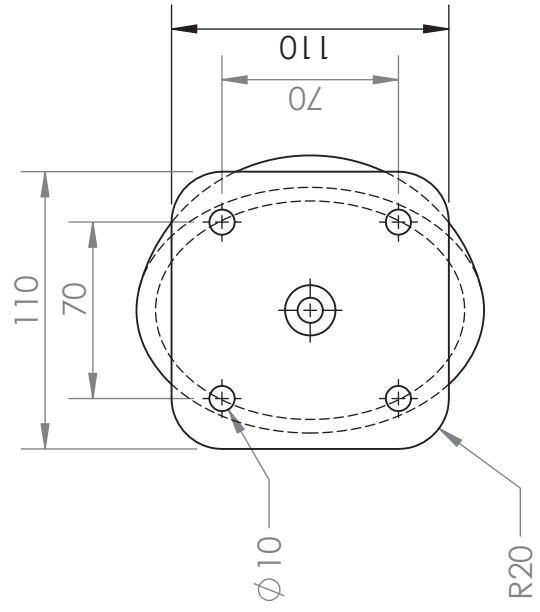
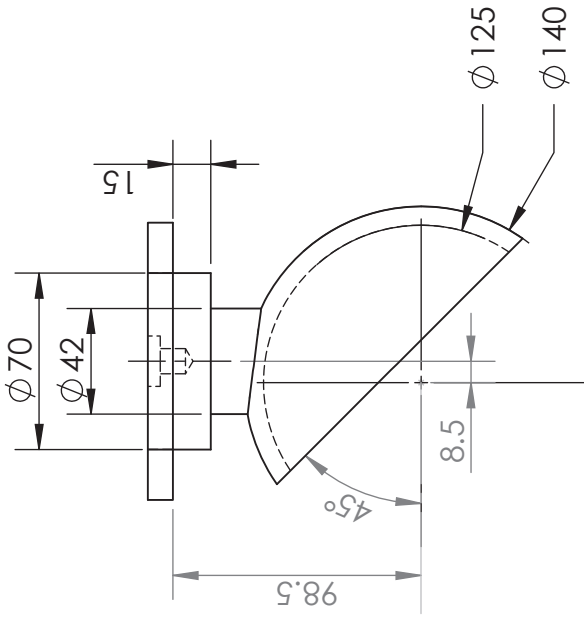
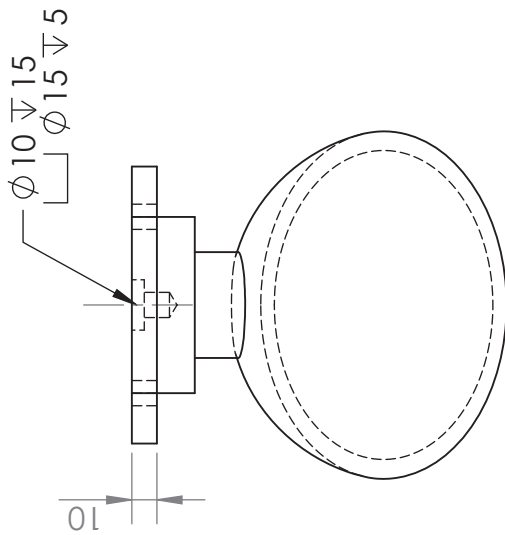
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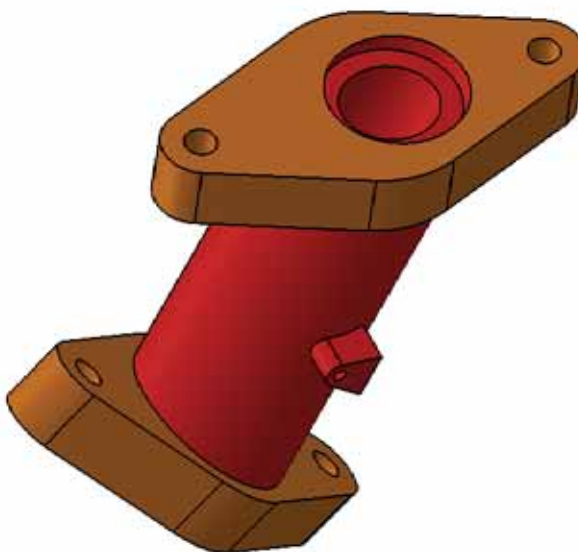
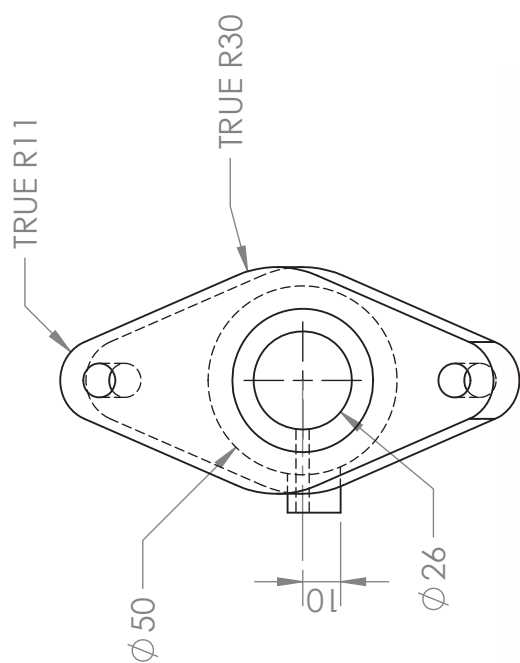
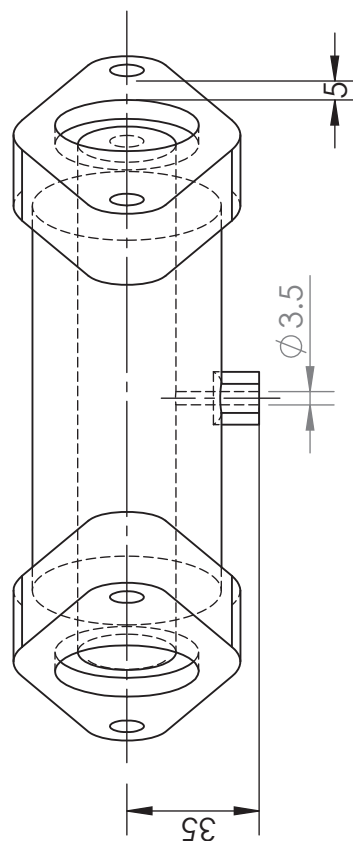
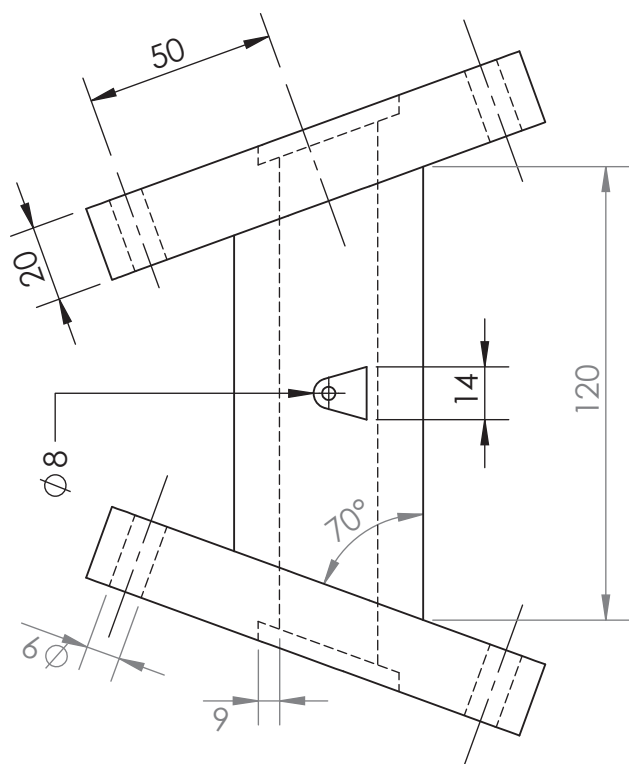
ANGLE OF PROJECTION



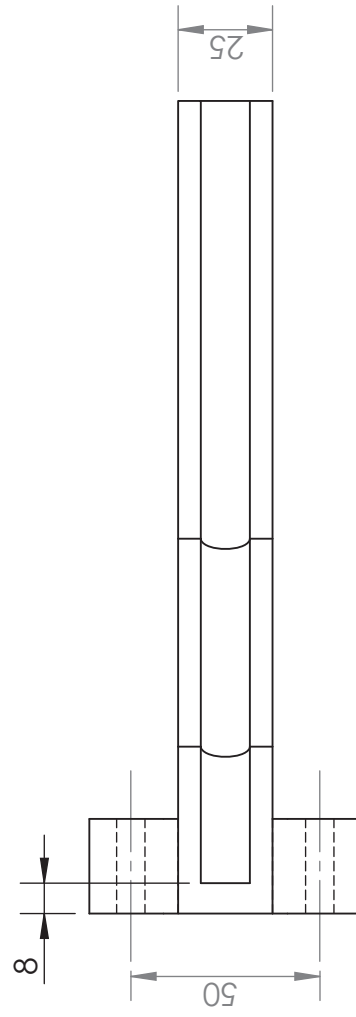
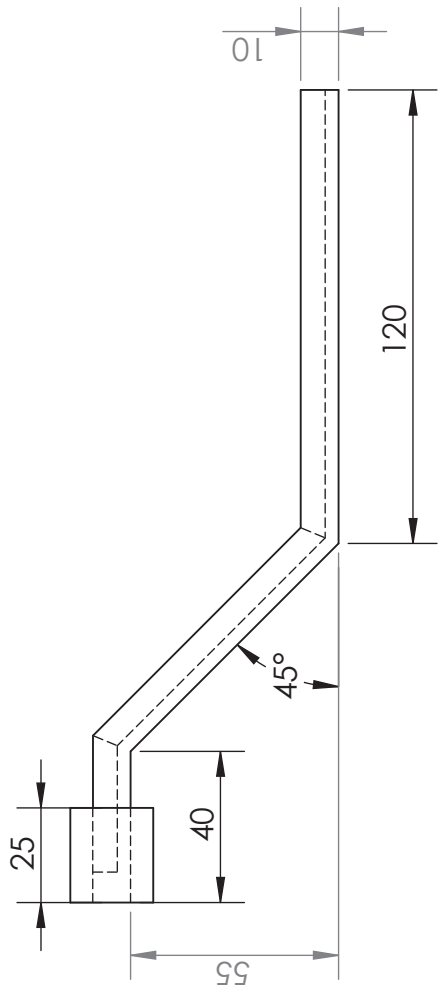
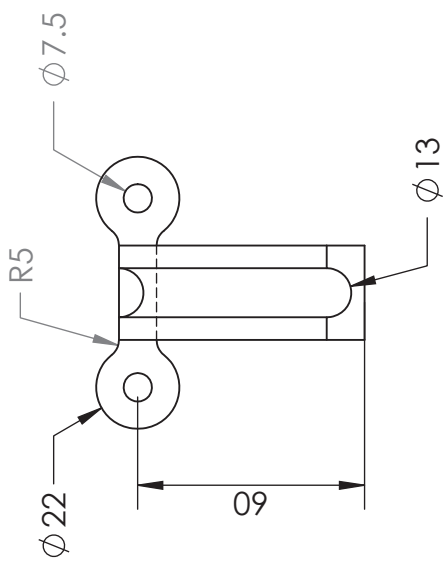
ALL DIMENSIONS ARE IN MM



ANGLE OF PROJECTION



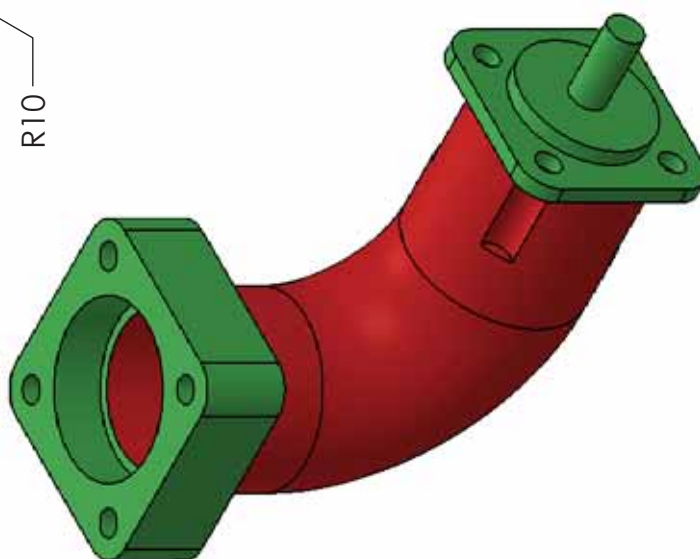
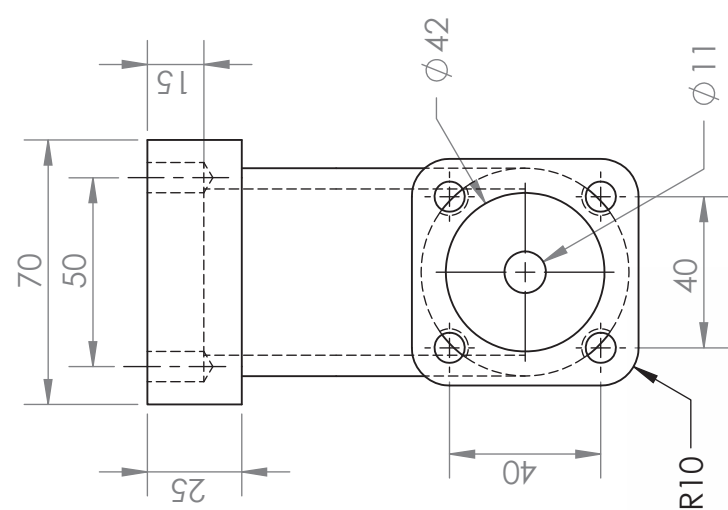
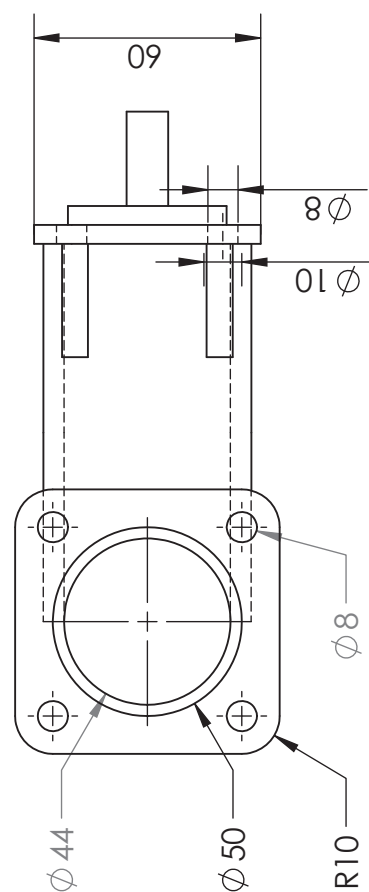
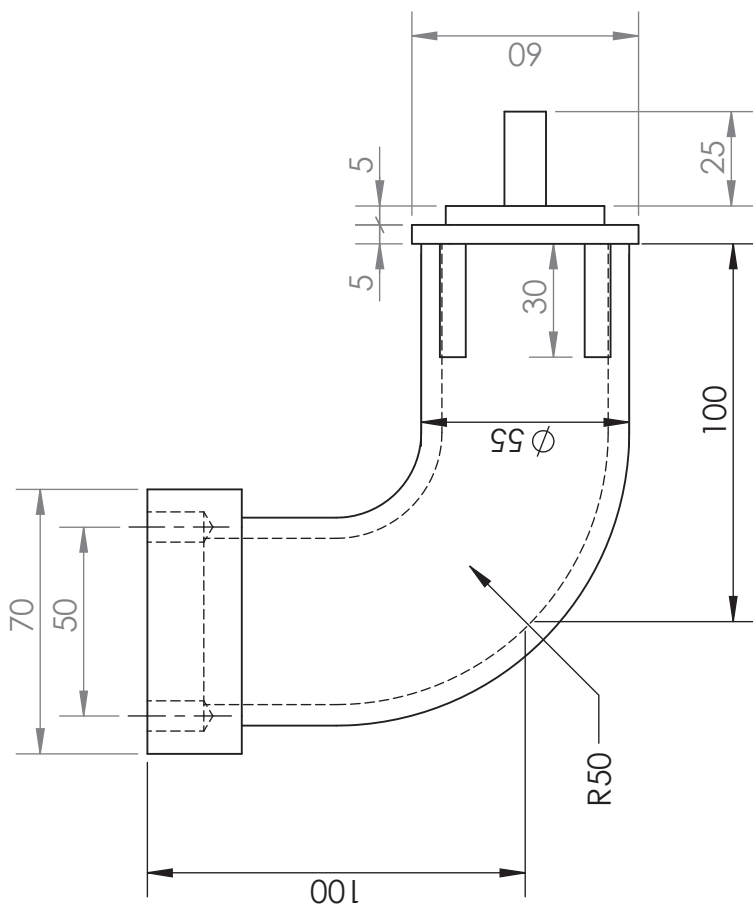




ALL DIMENSIONS ARE IN MM



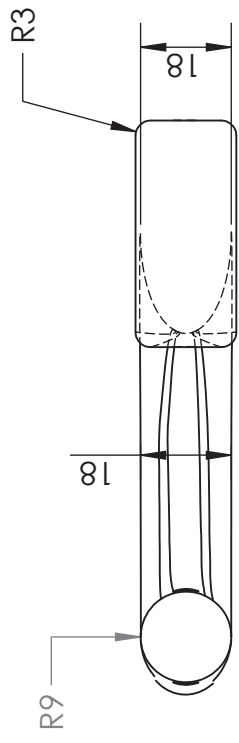
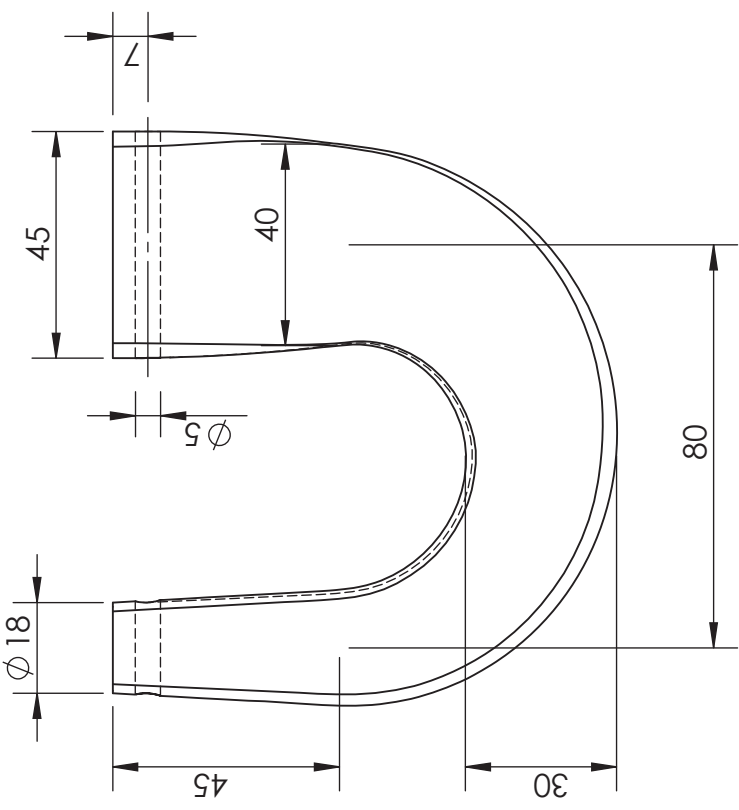
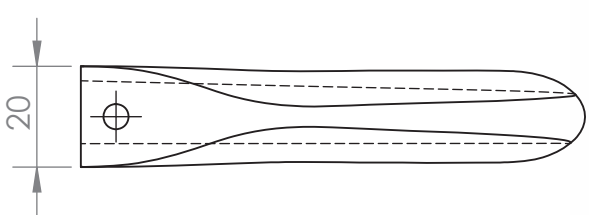
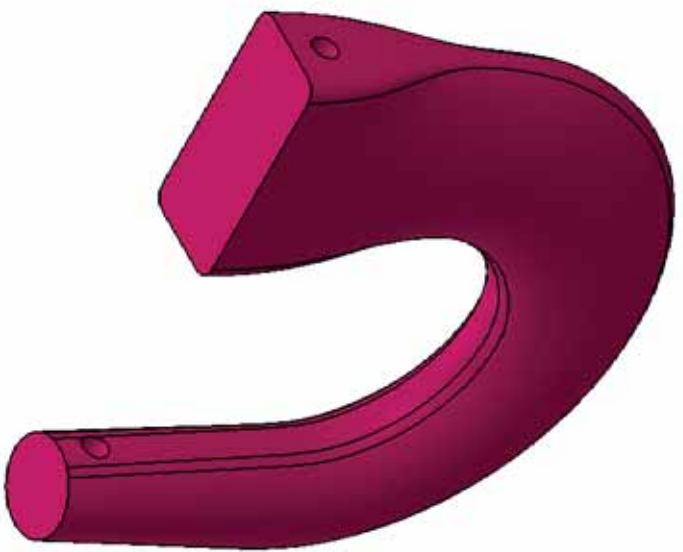
ANGLE OF PROJECTION



ALL DIMENSIONS ARE IN MM



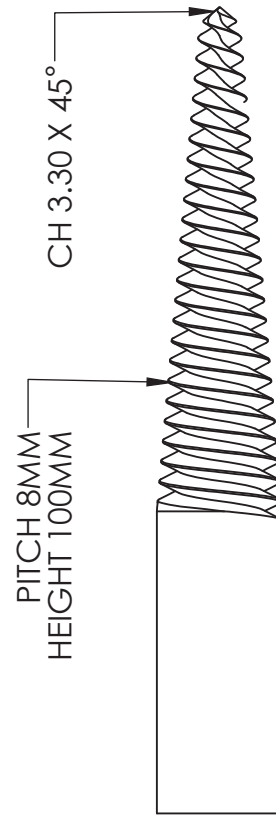
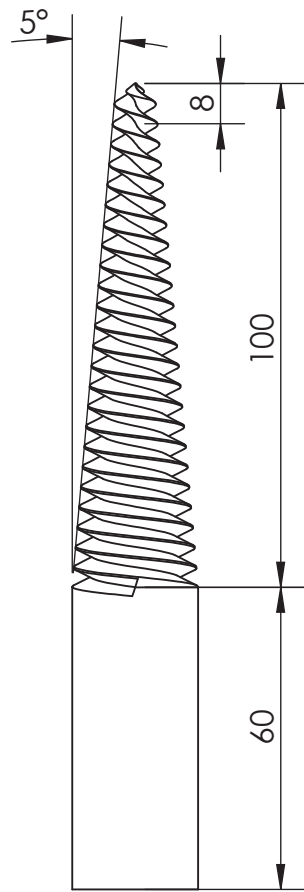
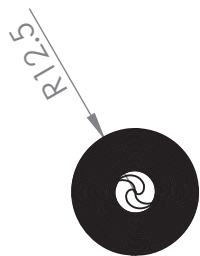
ANGLE OF PROJECTION



ANGLE OF PROJECTION



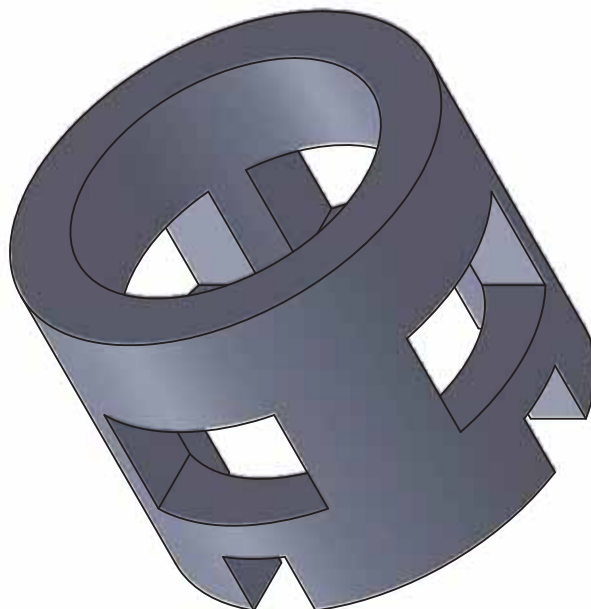
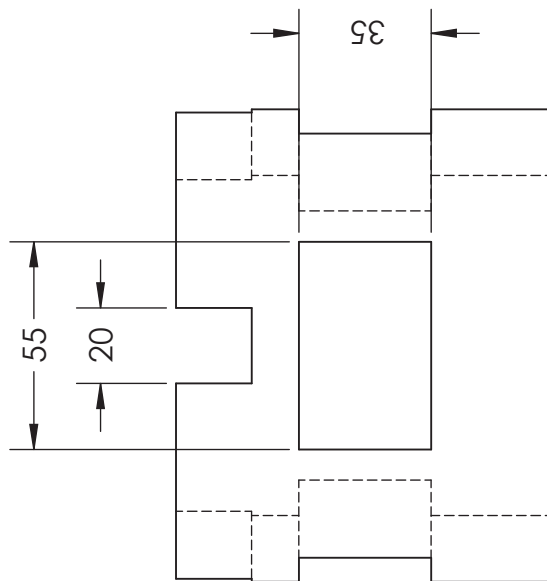
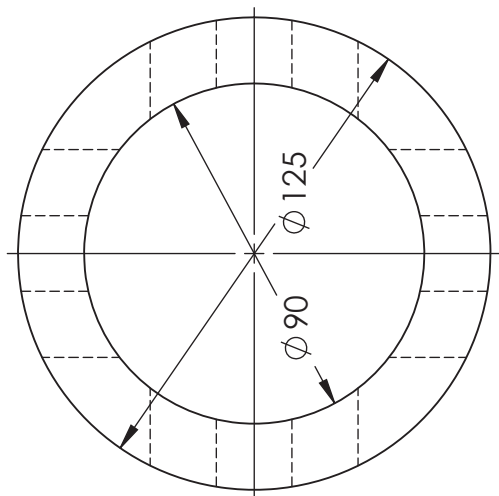
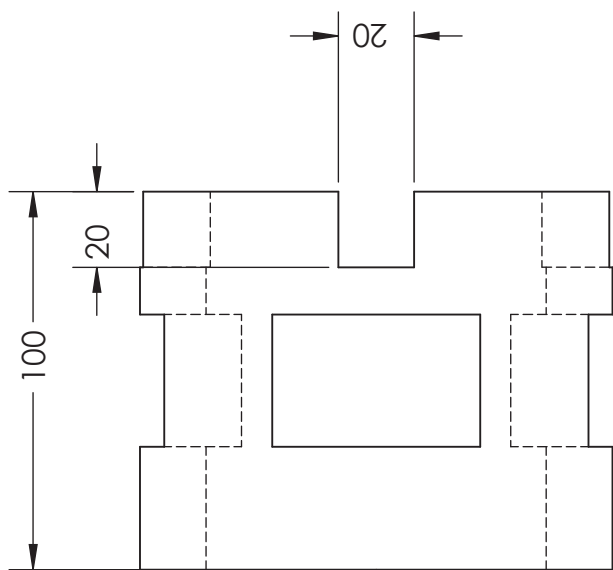
ALL DIMENSIONS ARE IN MM



ANGLE OF PROJECTION



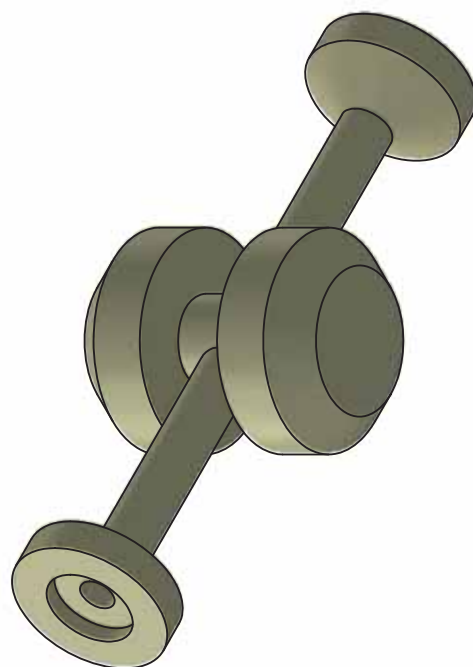
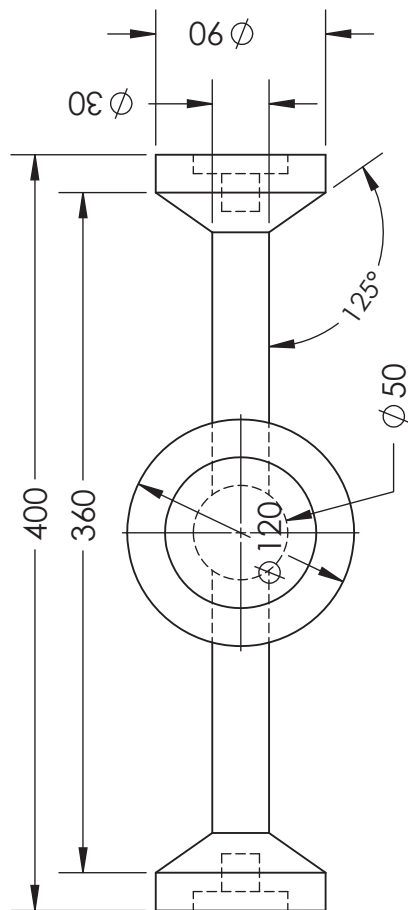
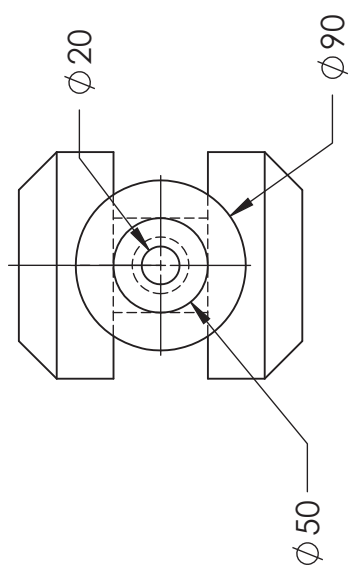
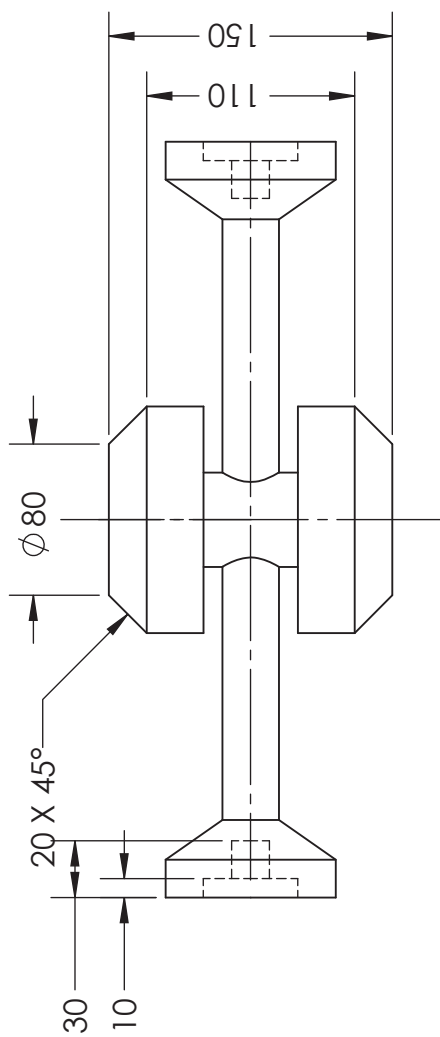
ALL DIMENSIONS ARE IN MM



ANGLE OF PROJECTION



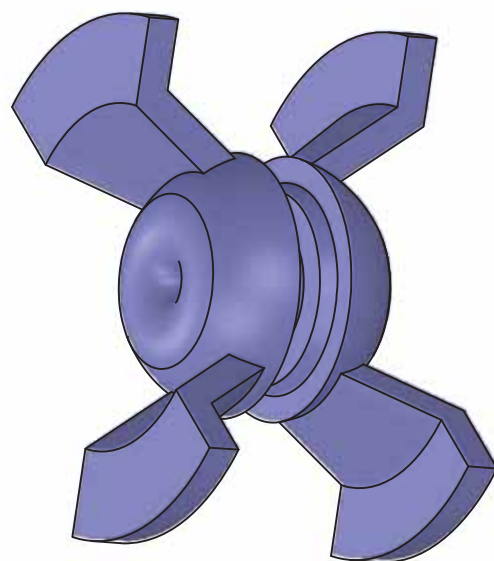
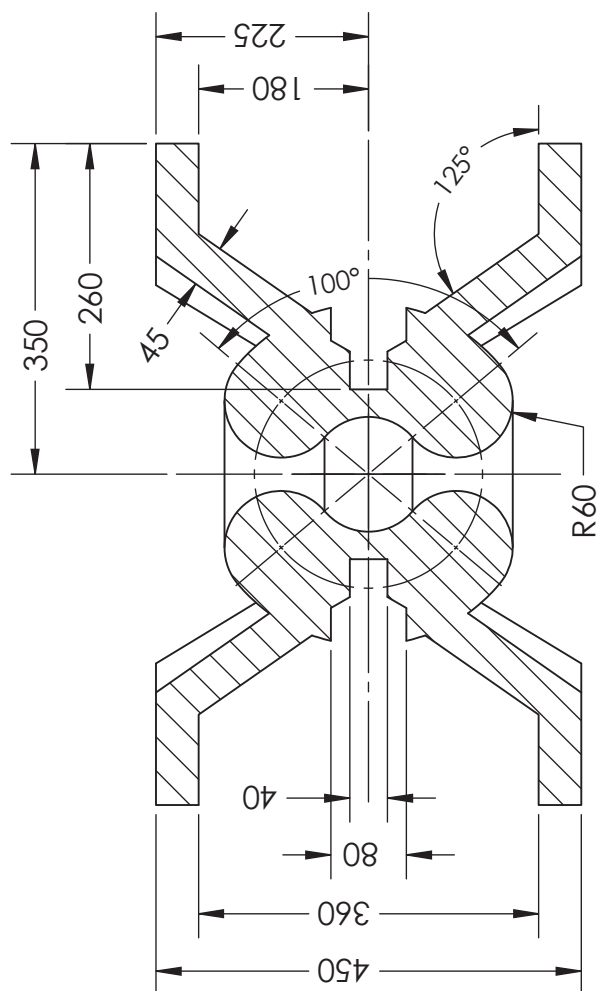
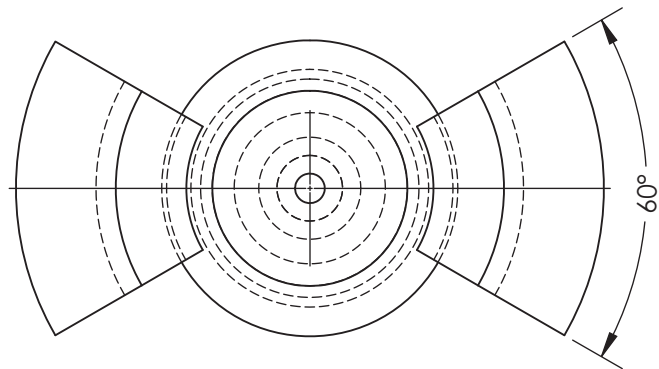
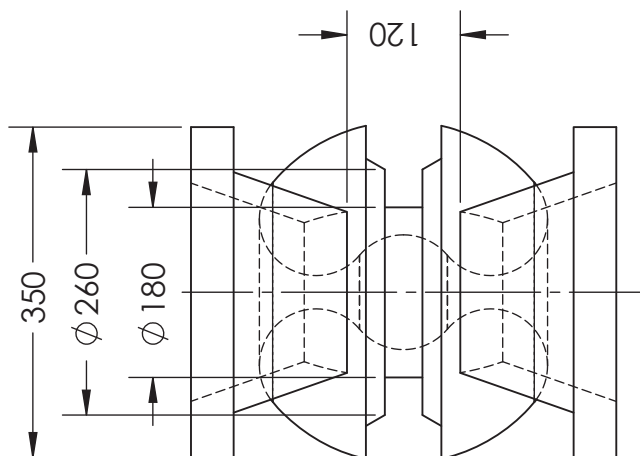
ALL DIMENSIONS ARE IN MM



ANGLE OF PROJECTION



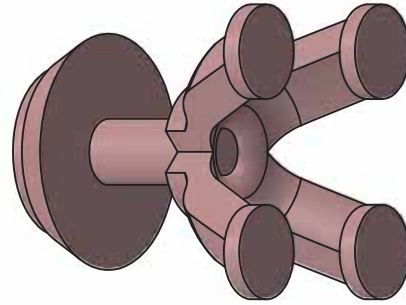
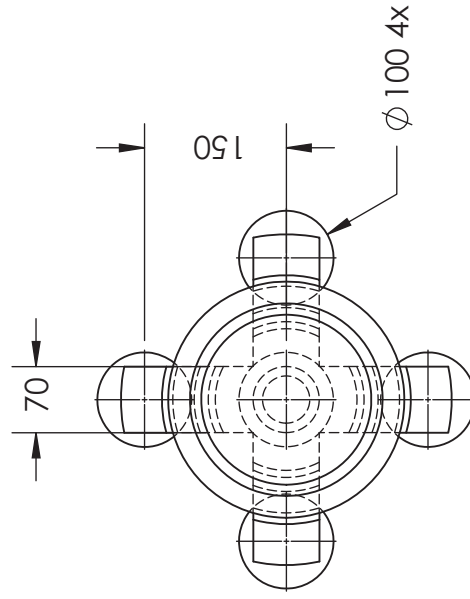
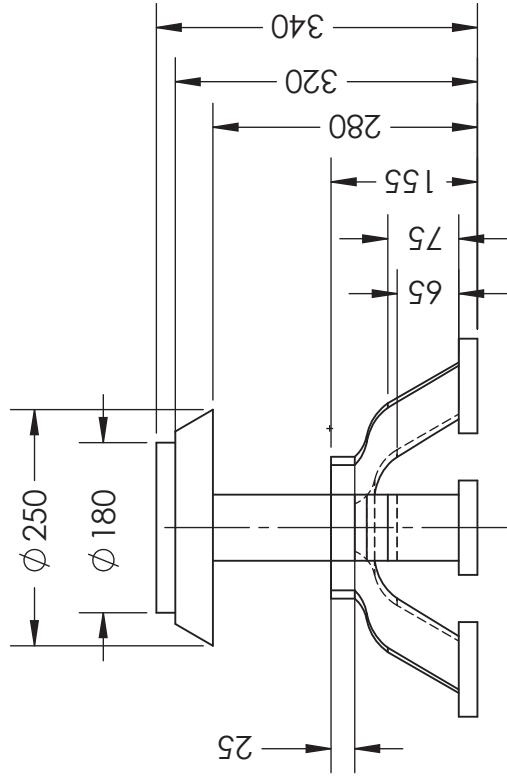
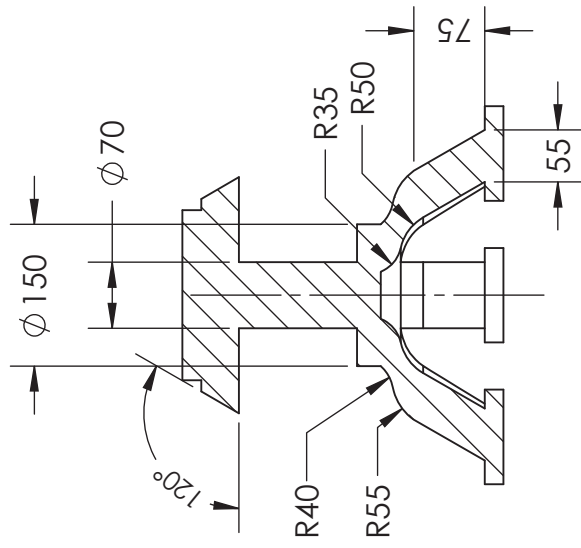
ALL DIMENSIONS ARE IN MM



ANGLE OF PROJECTION



ALL DIMENSIONS ARE IN MM

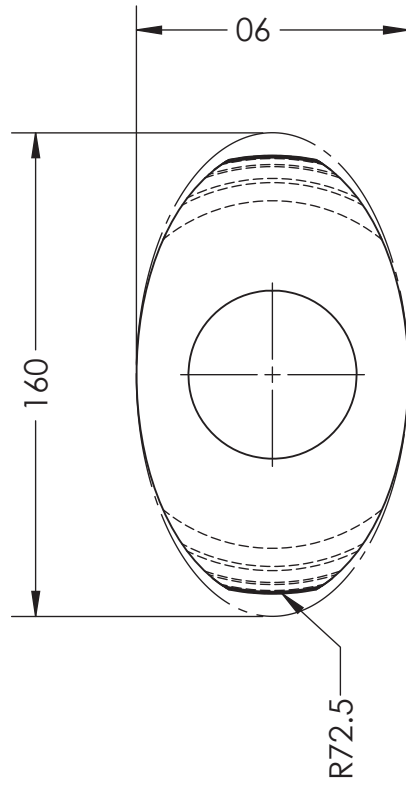
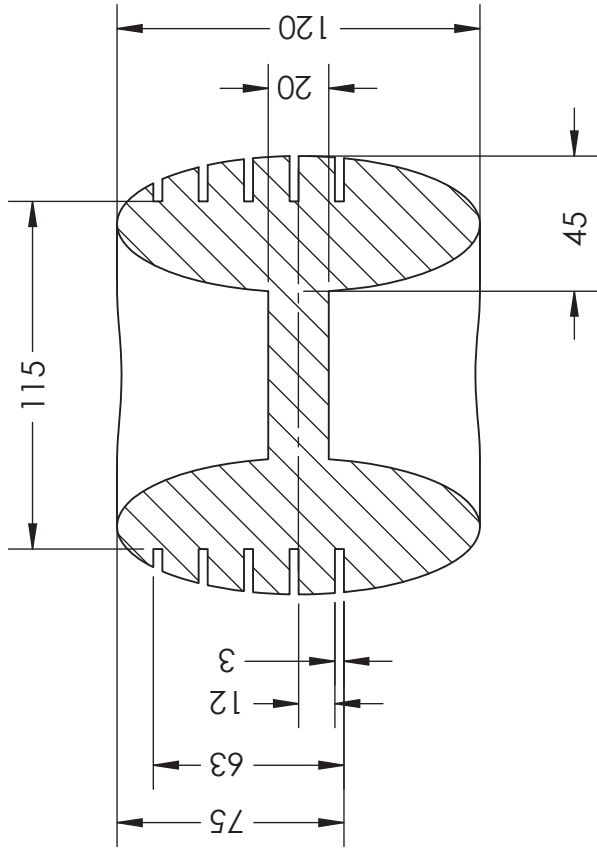
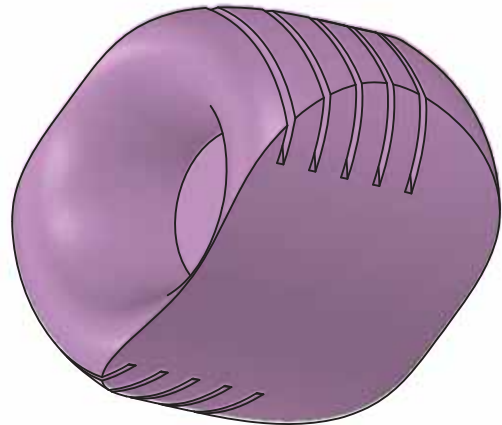
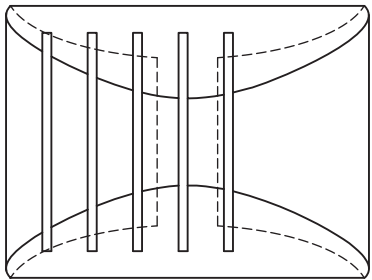


ALL DIMENSIONS ARE IN MM



ANGLE OF PROJECTION

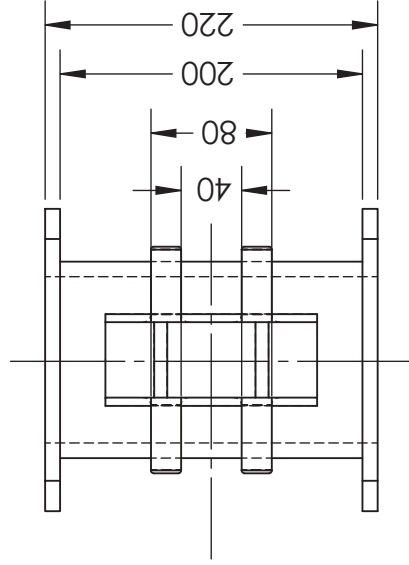
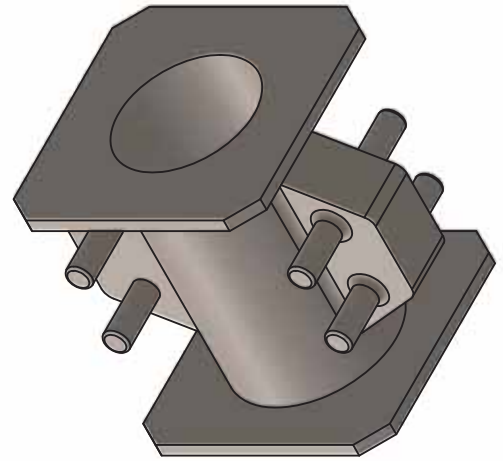
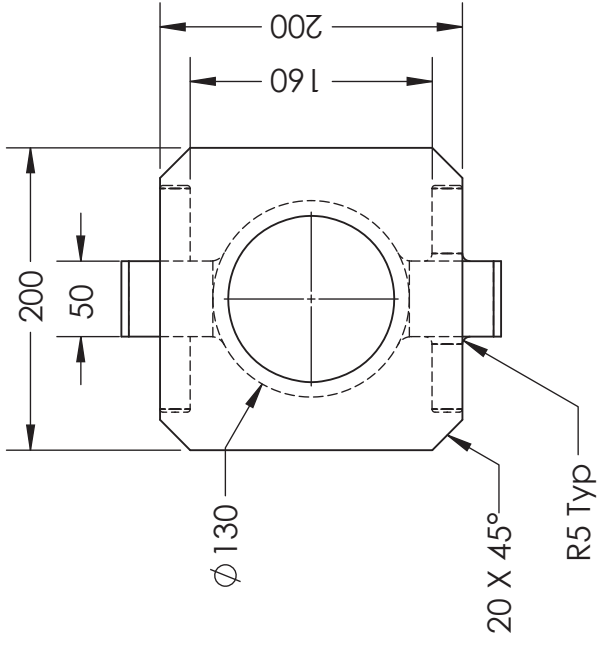
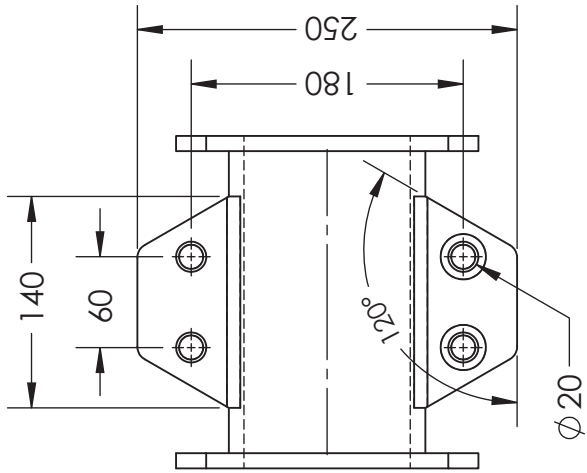




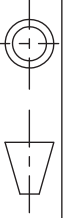
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ANGLE OF PROJECTION

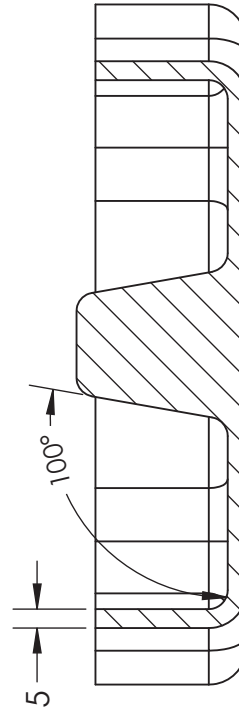
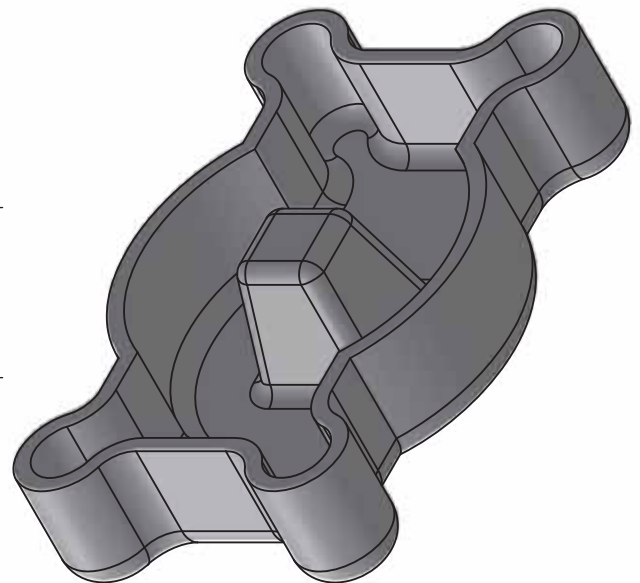
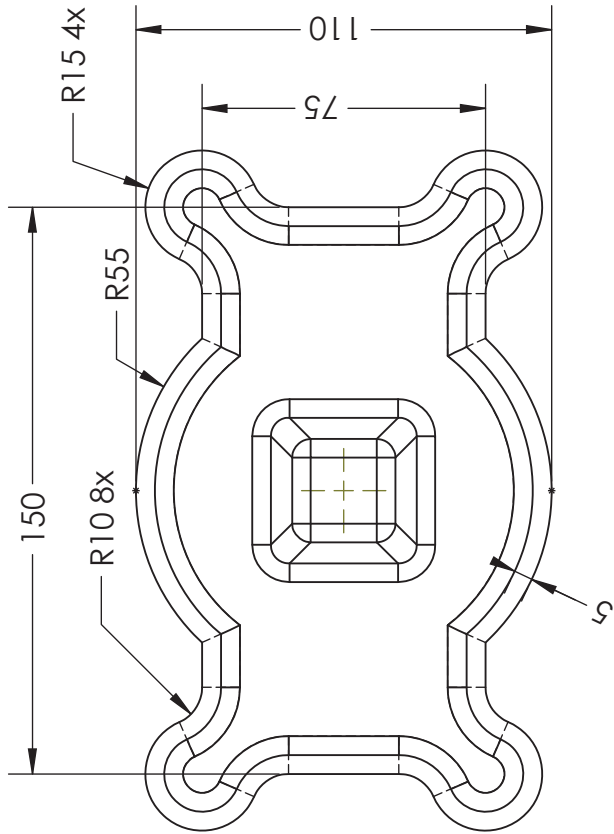
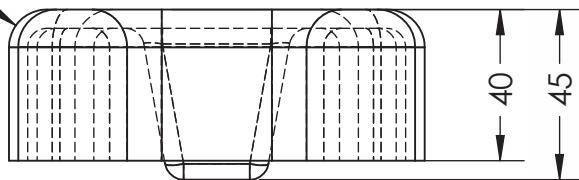


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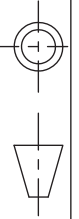


ALL DIMENSIONS ARE IN MM

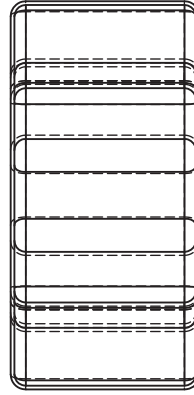
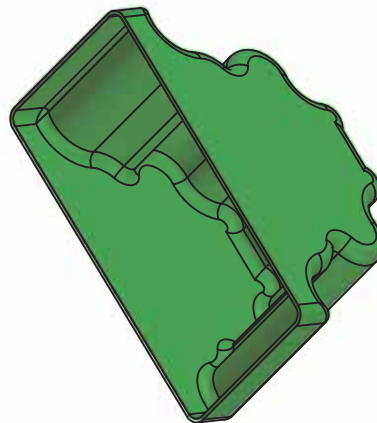
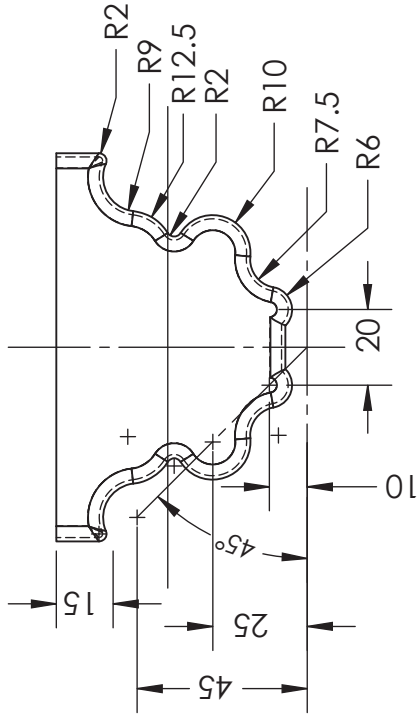
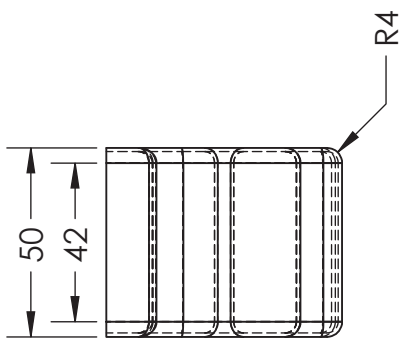
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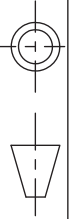
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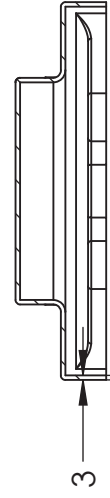
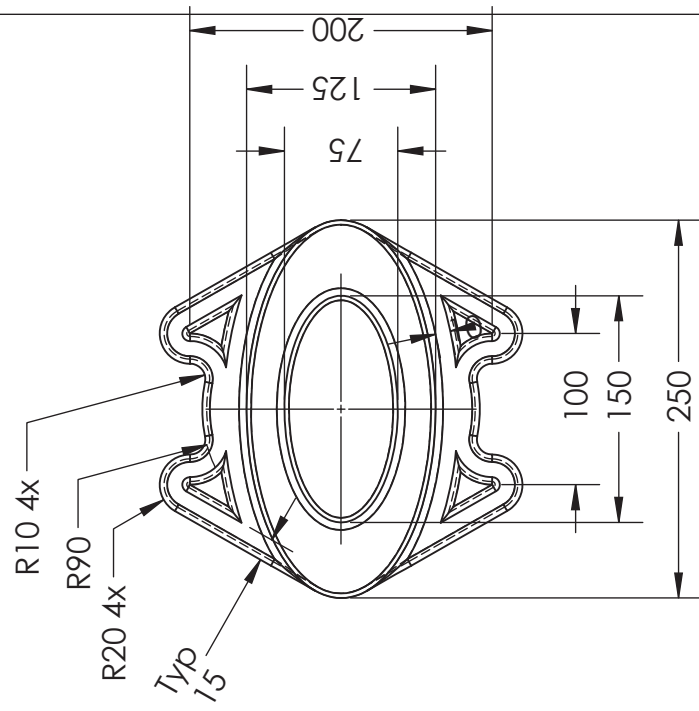
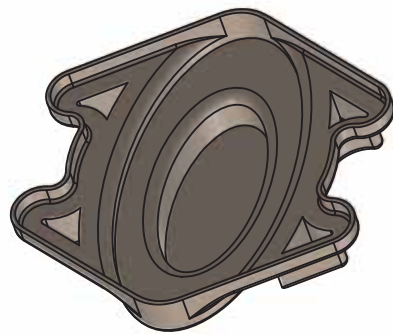
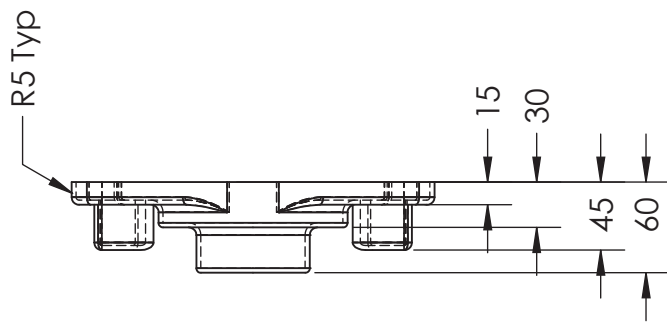
ALL DIMENSIONS ARE IN MM



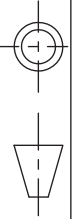
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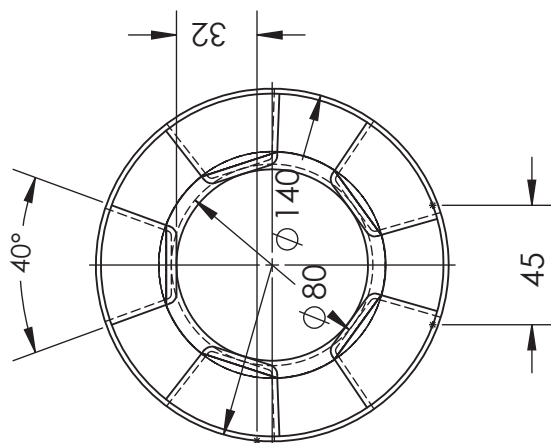
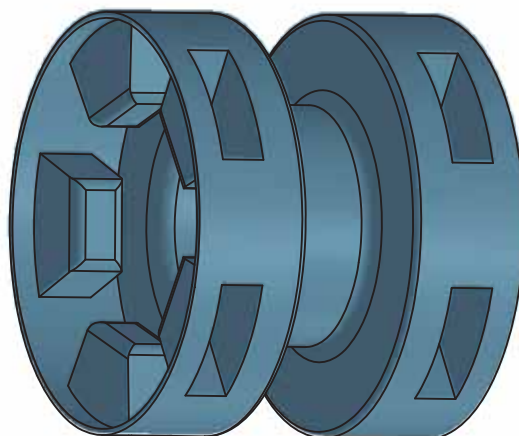
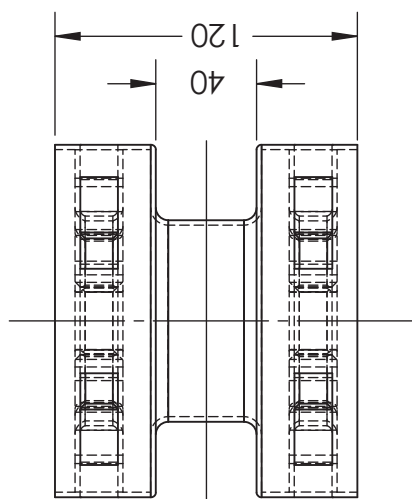
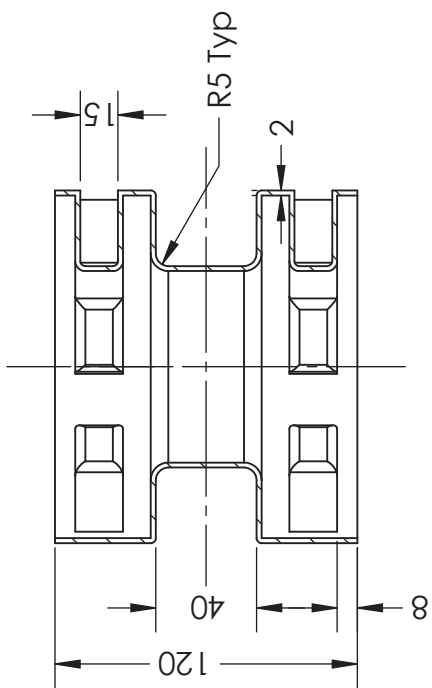
ALL DIMENSIONS ARE IN MM



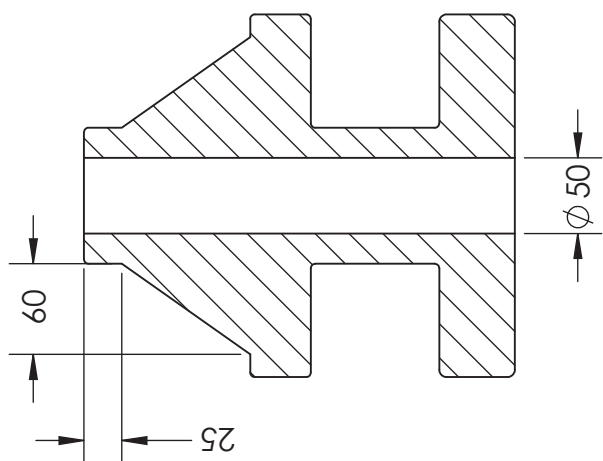
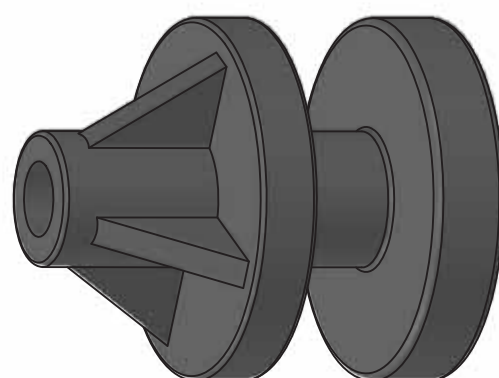
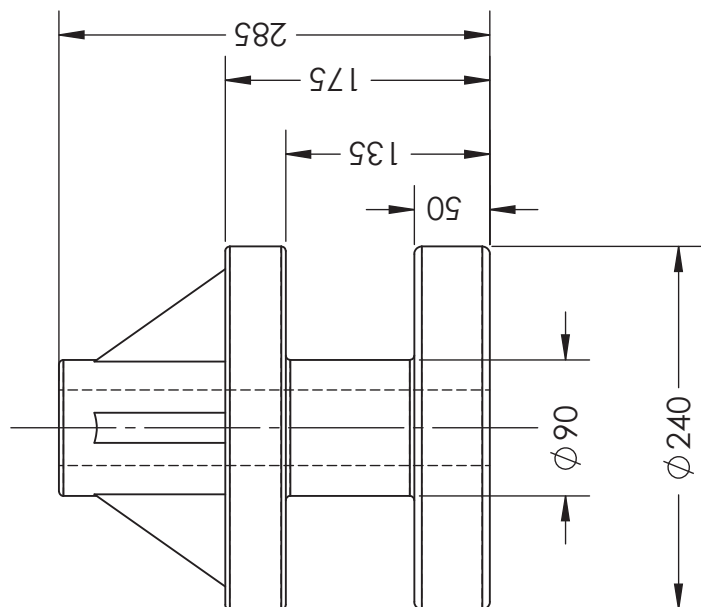
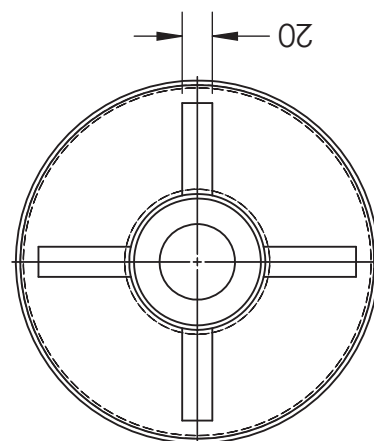
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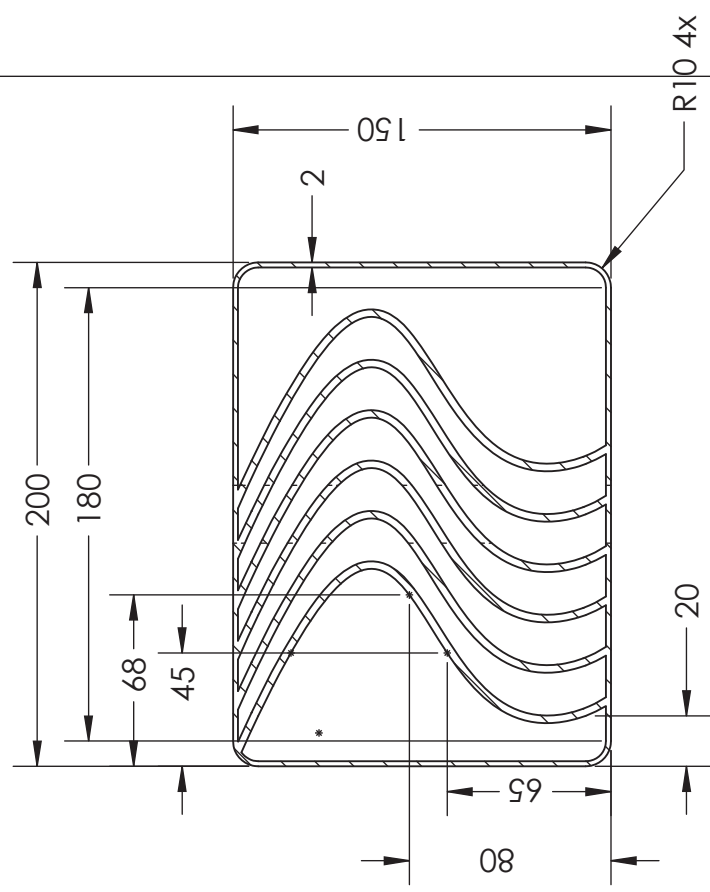
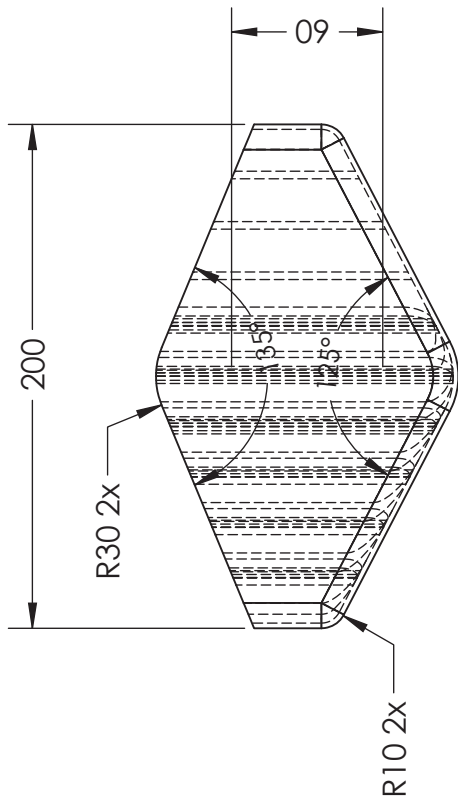
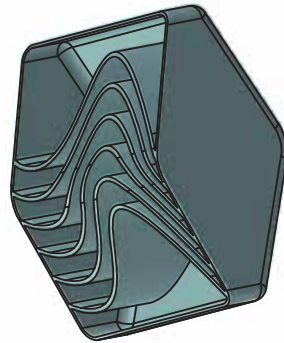
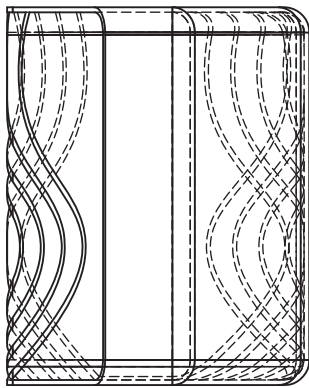
ALL DIMENSIONS ARE IN MM





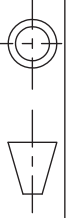




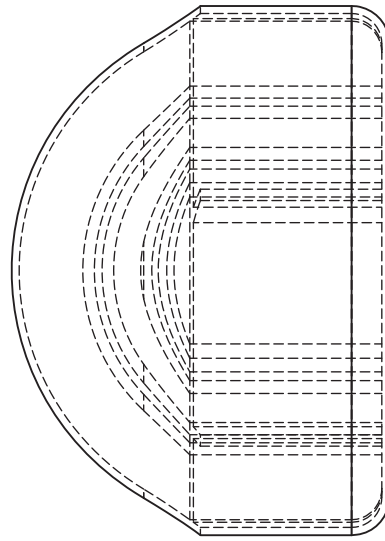
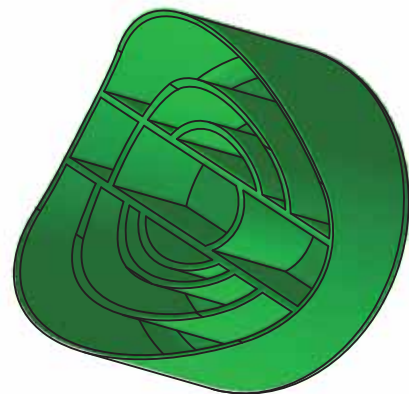
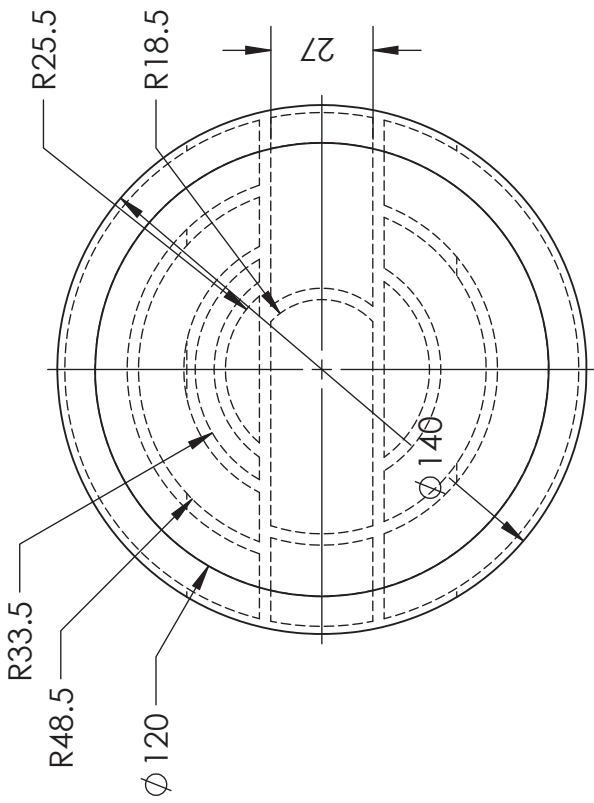
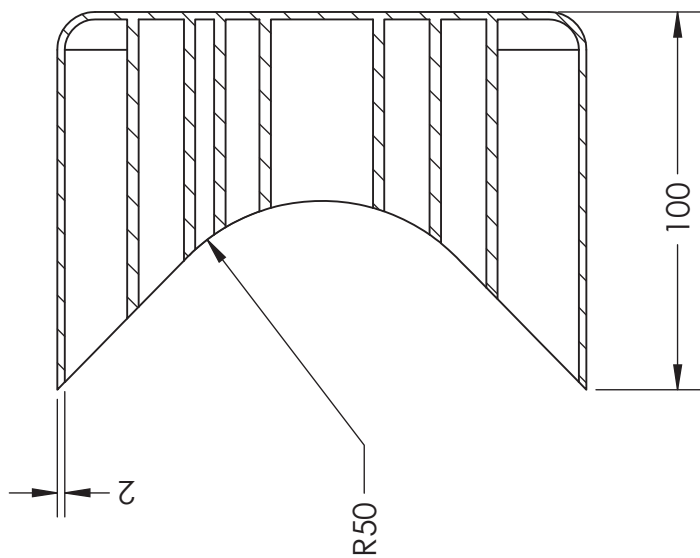


Use Spline tool

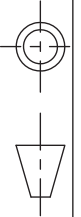
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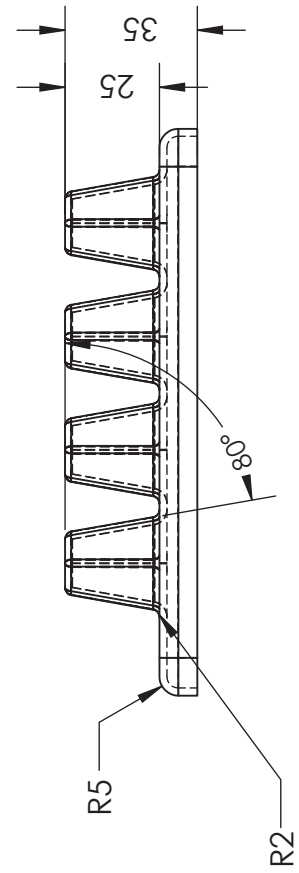
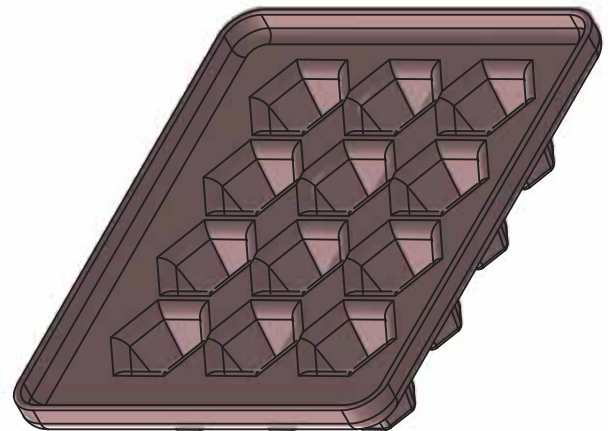
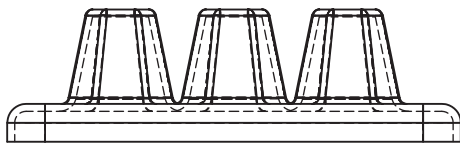
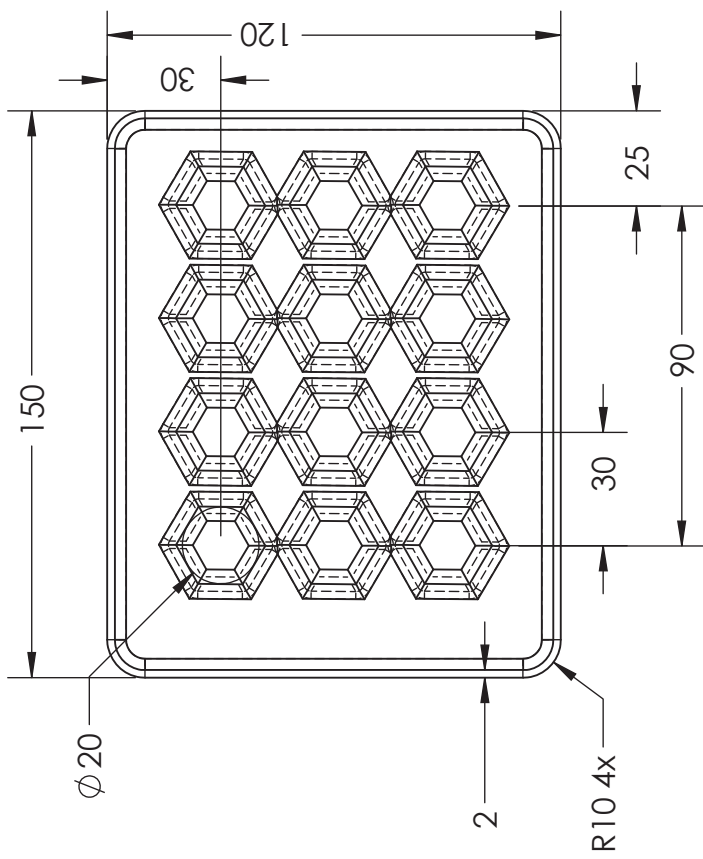
ALL DIMENSIONS ARE IN MM



ANGLE OF PROJECTION



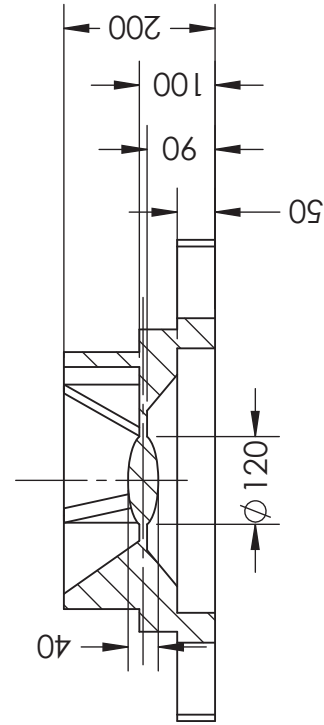
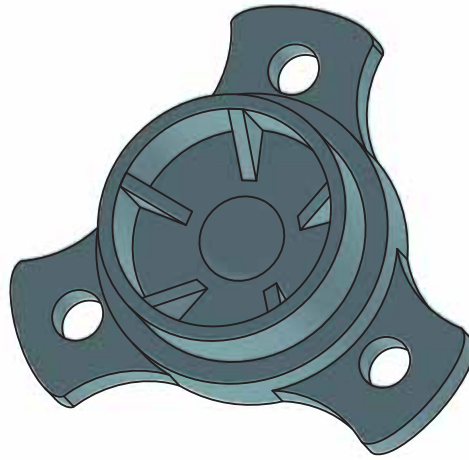
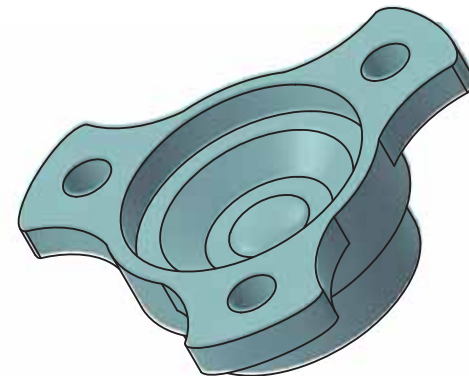
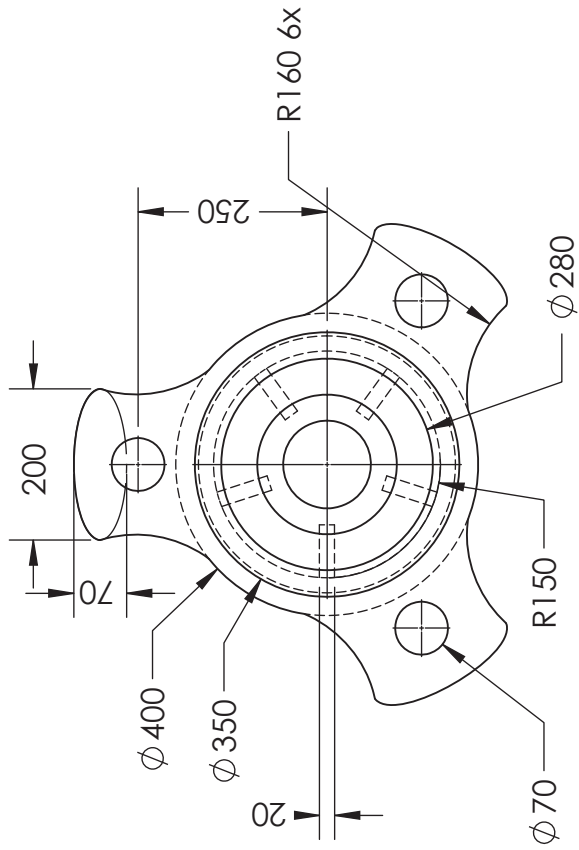
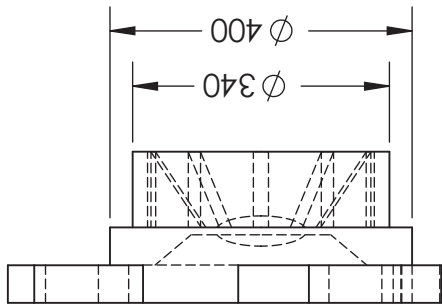
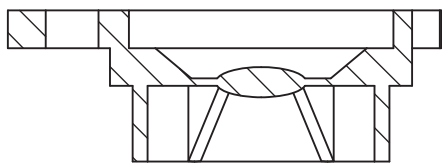
ALL DIMENSIONS ARE IN MM



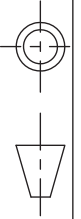
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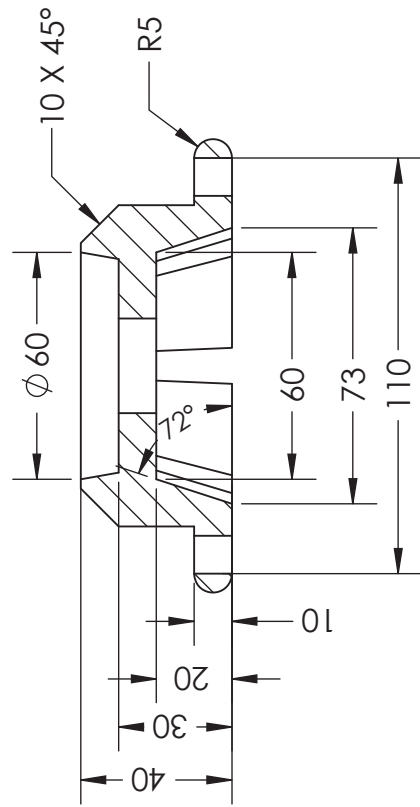
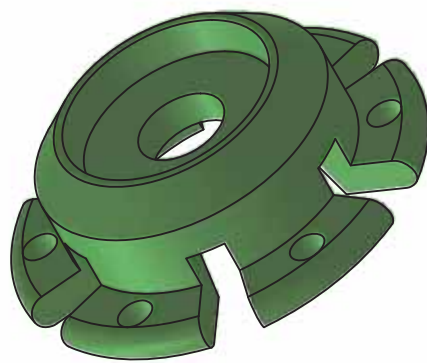
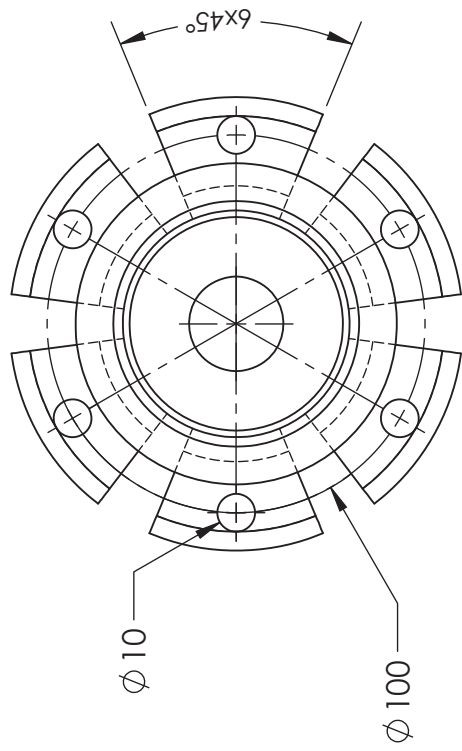
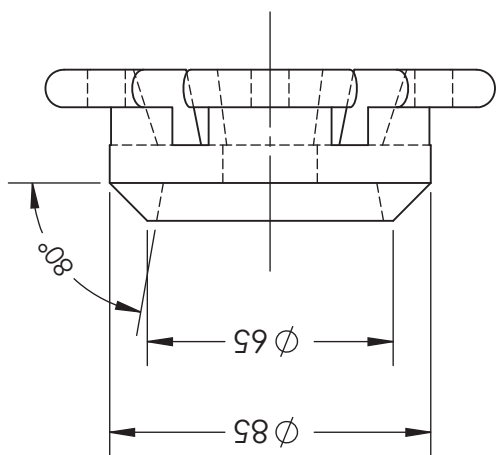
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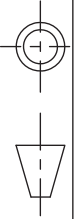
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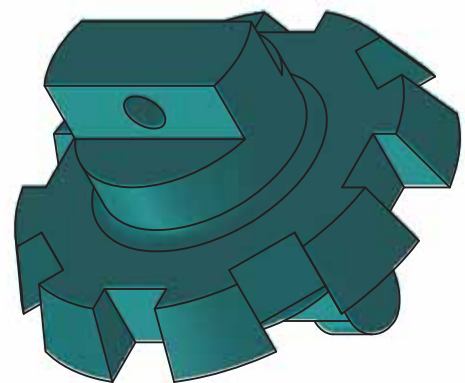
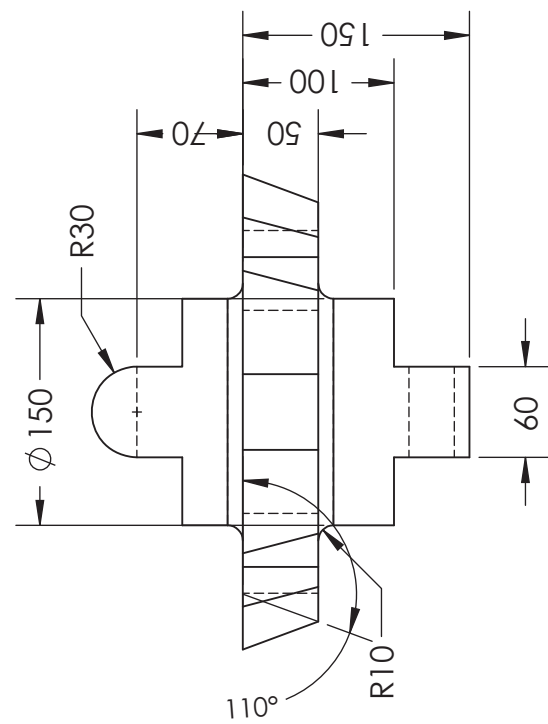
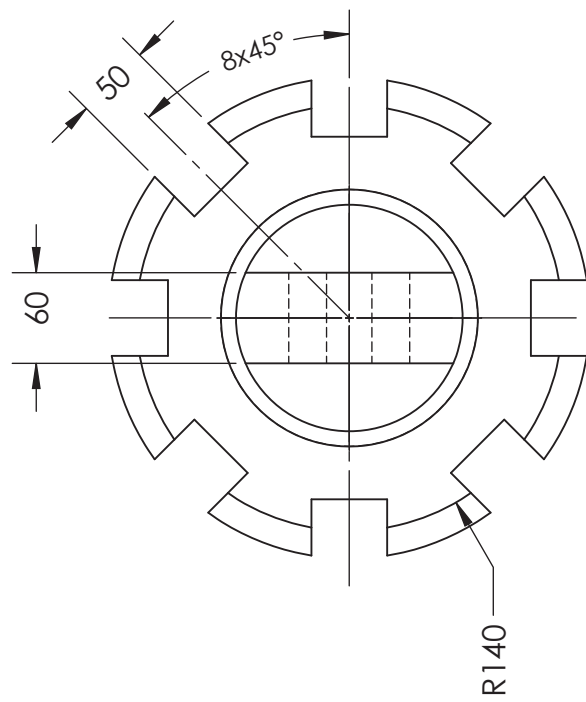
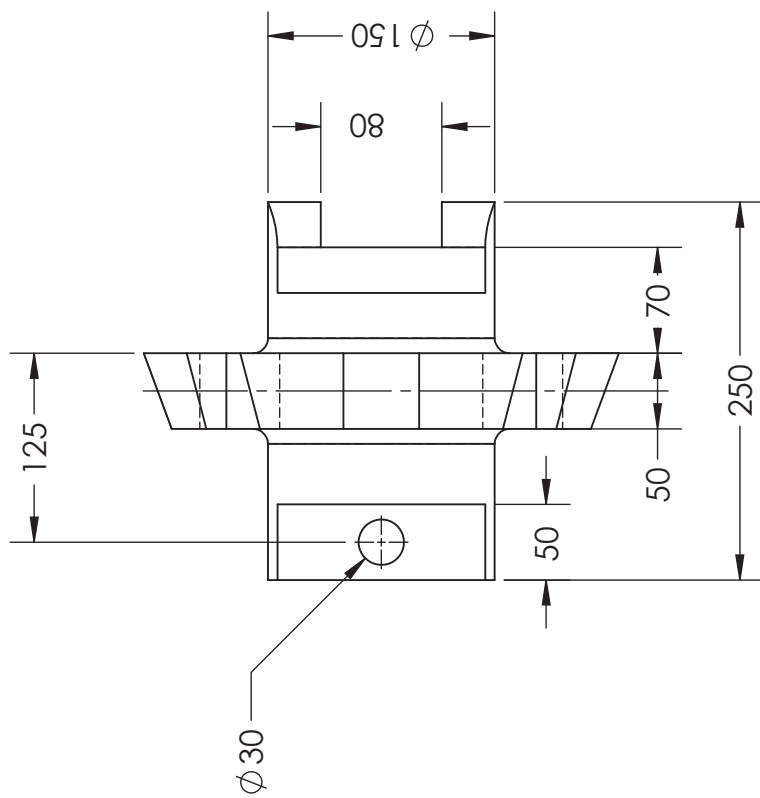
ALL DIMENSIONS ARE IN MM



ANGLE OF PROJECTION



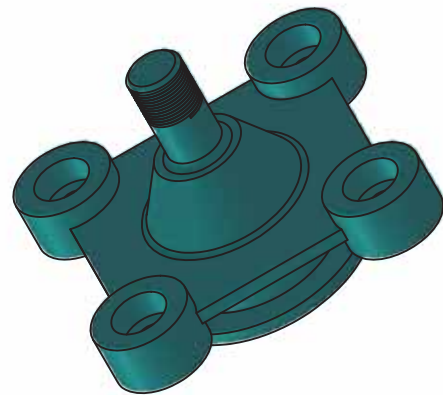
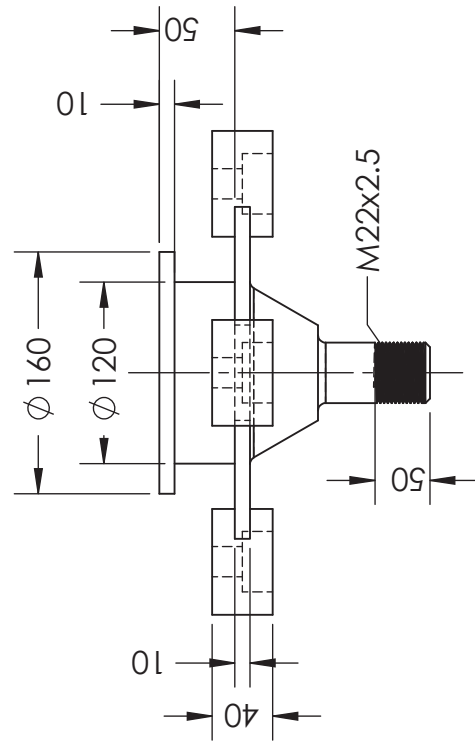
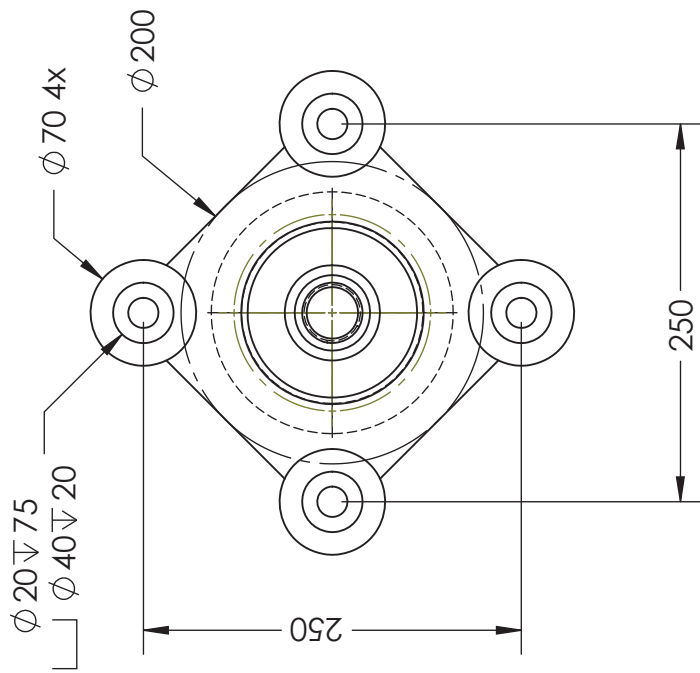
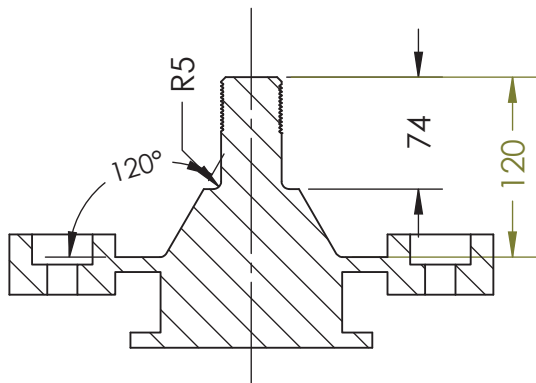
ALL DIMENSIONS ARE IN MM



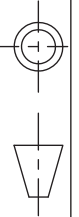
ANGLE OF PROJECTION



ALL DIMENSIONS ARE IN MM



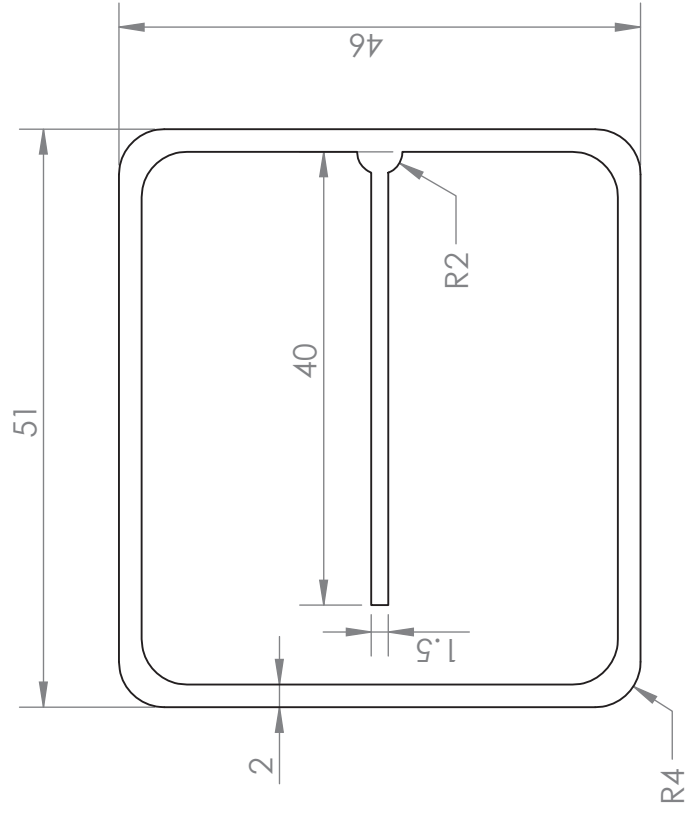
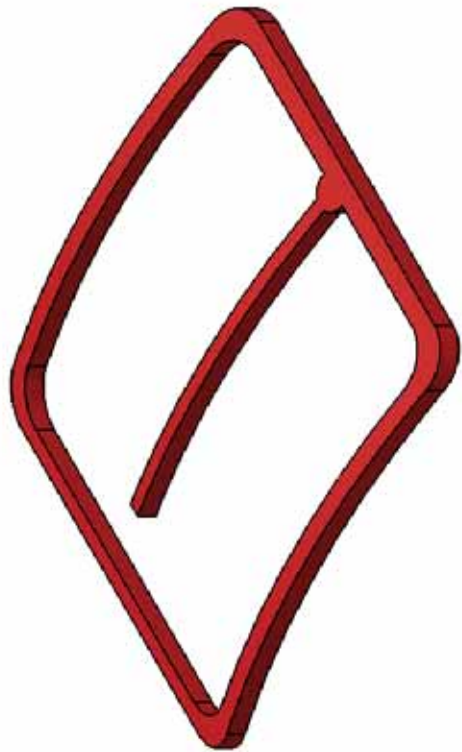
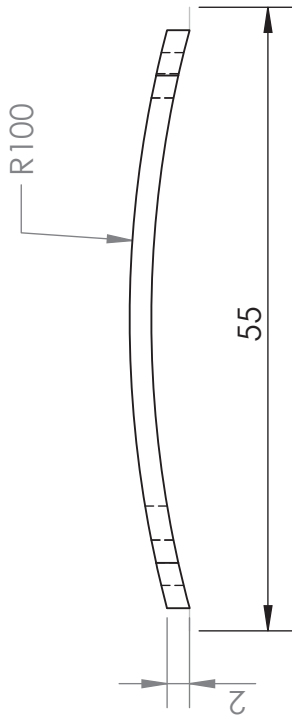
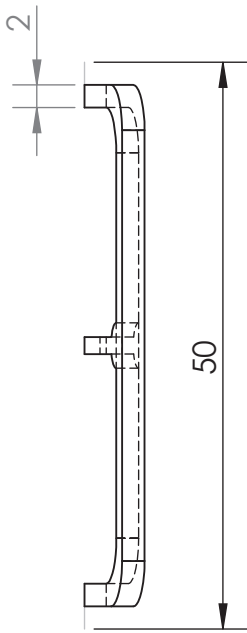
ALL DIMENSIONS ARE IN MM



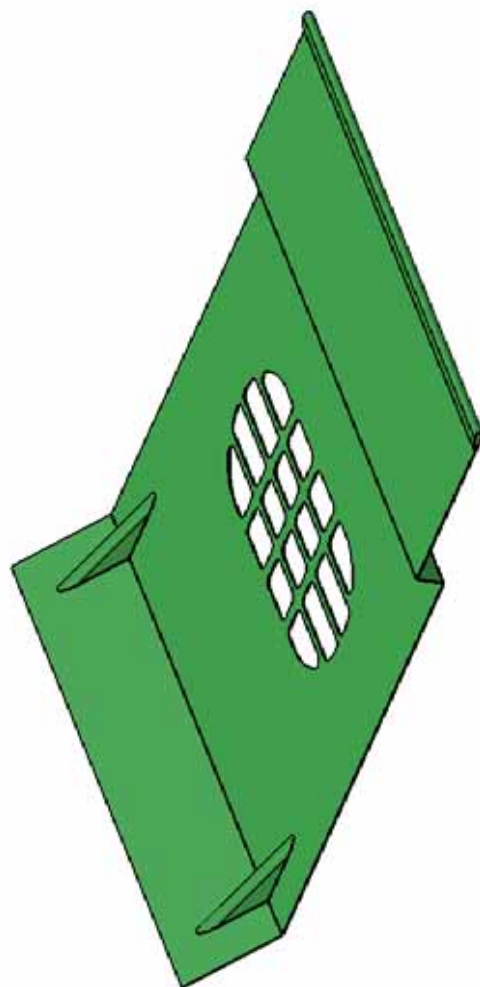
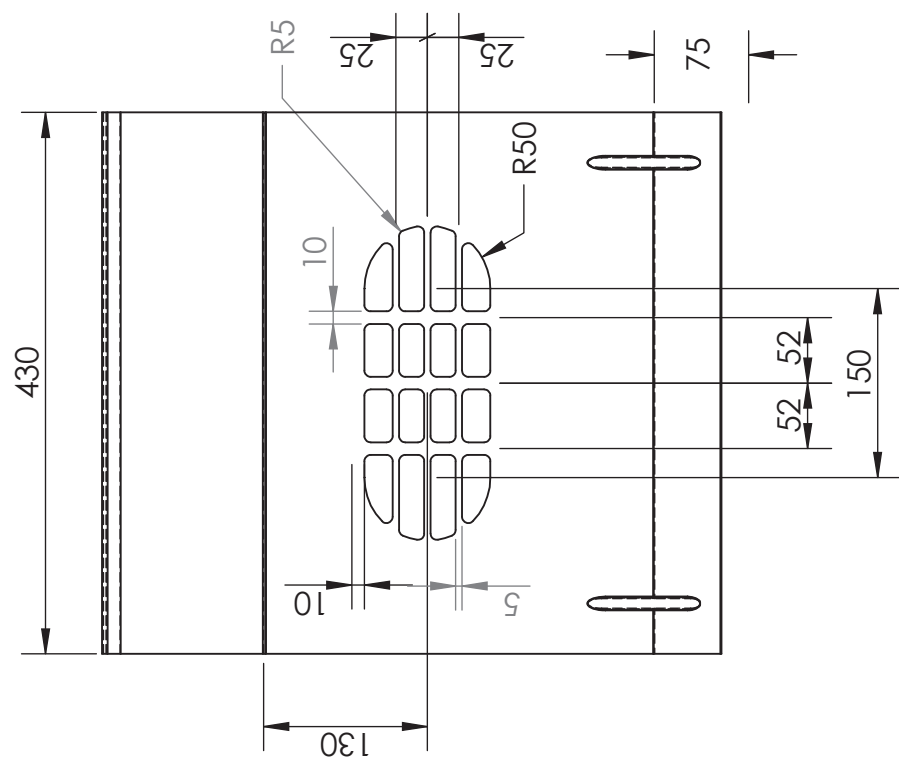
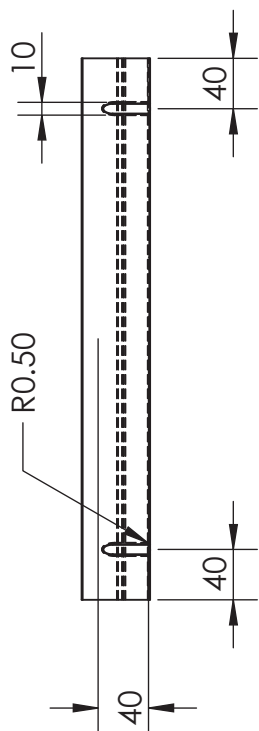
ANGLE OF PROJECTION



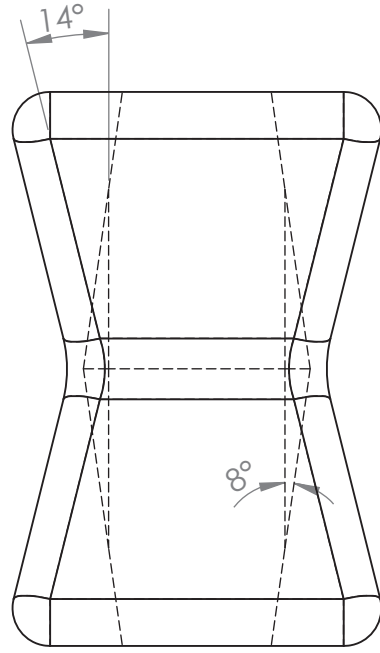
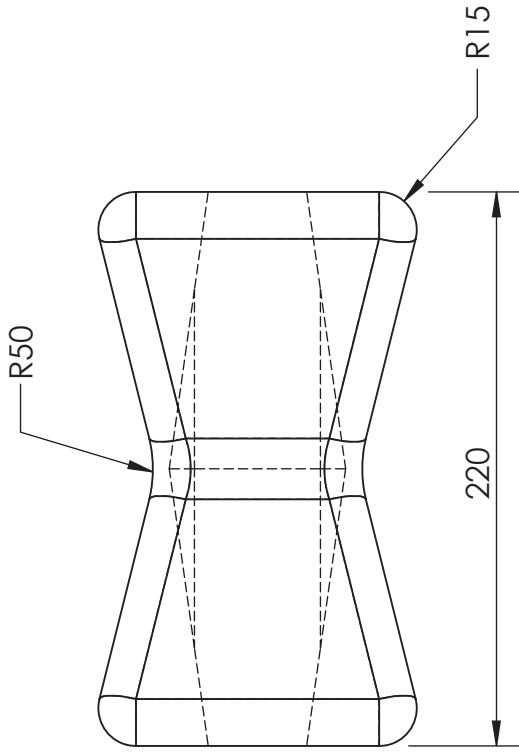
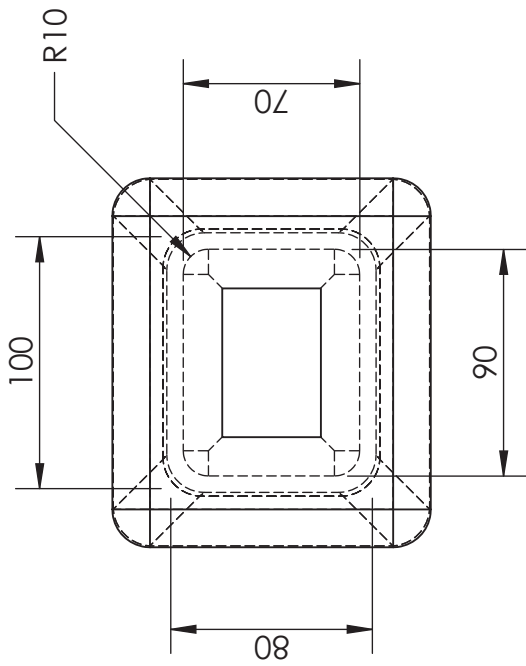








ALL DIMENSIONS ARE IN MM

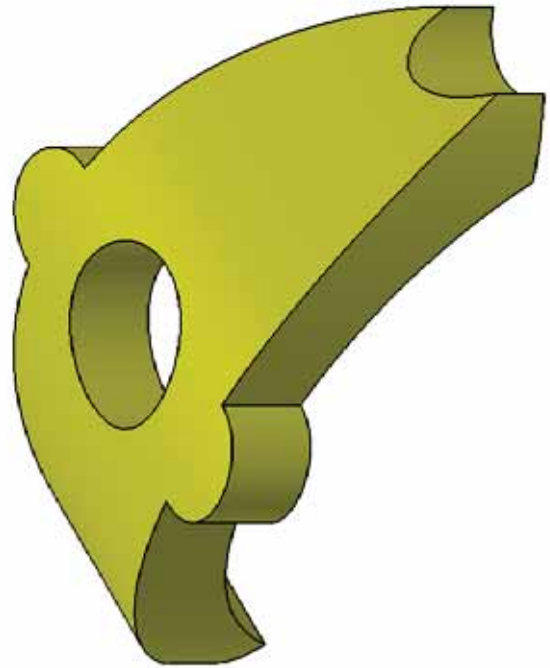
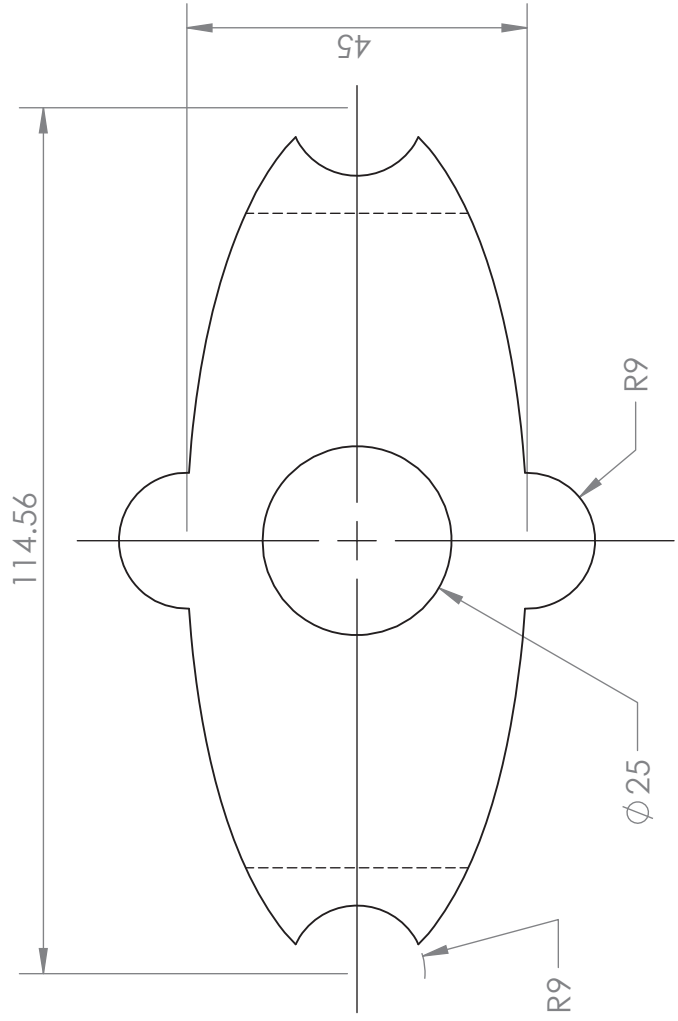
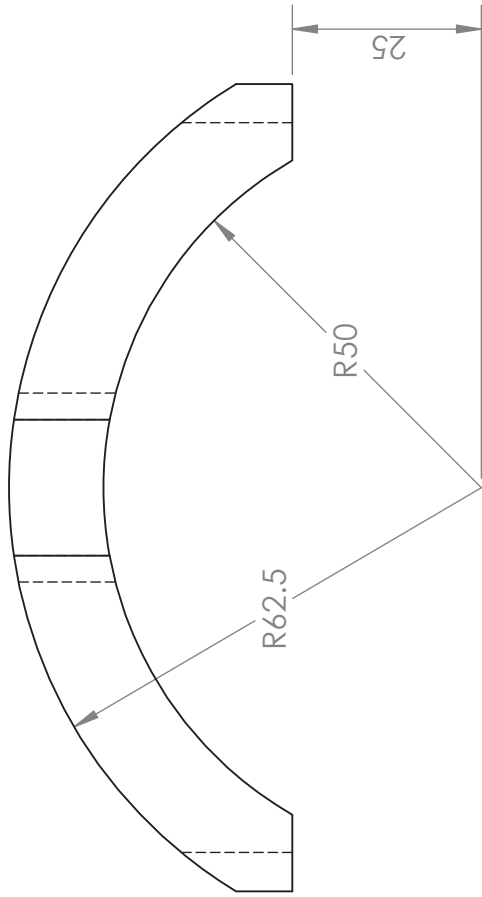
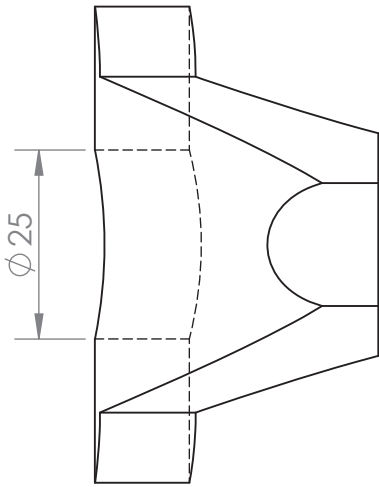


ANGLE OF PROJECTION



ALL DIMENSIONS  
ARE IN MM

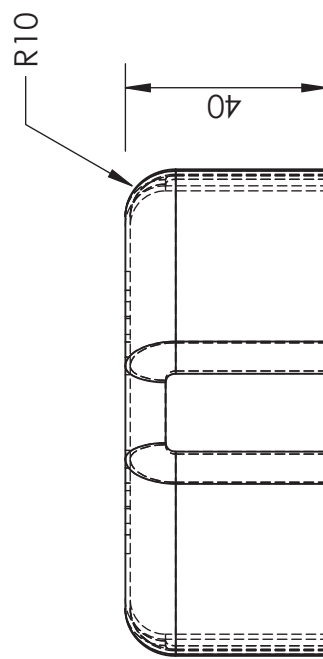
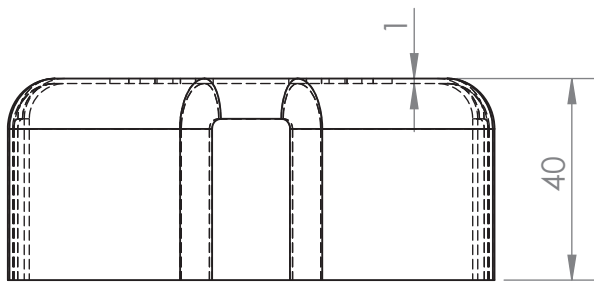
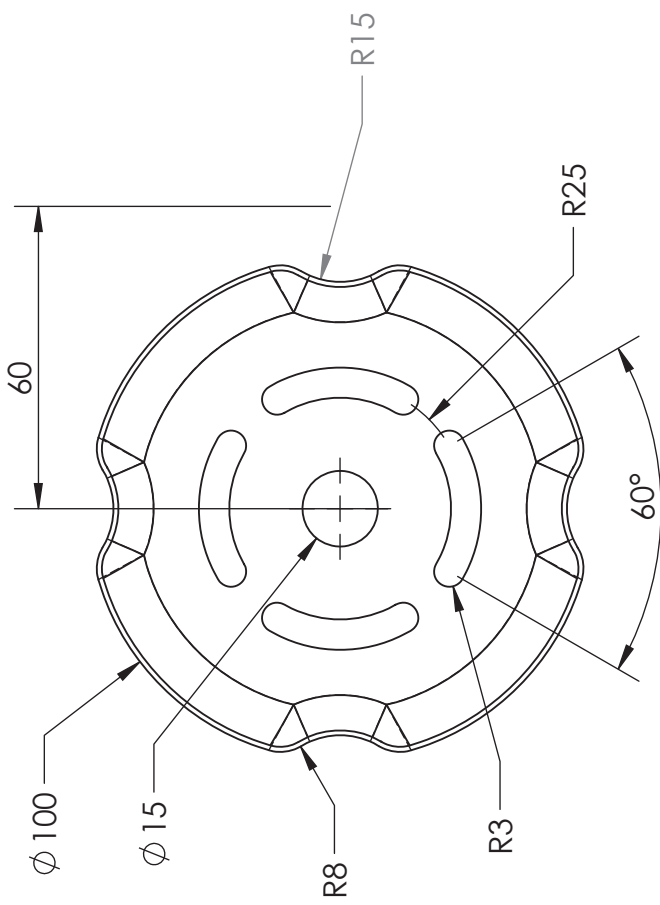
EX :



ANGLE OF PROJECTION



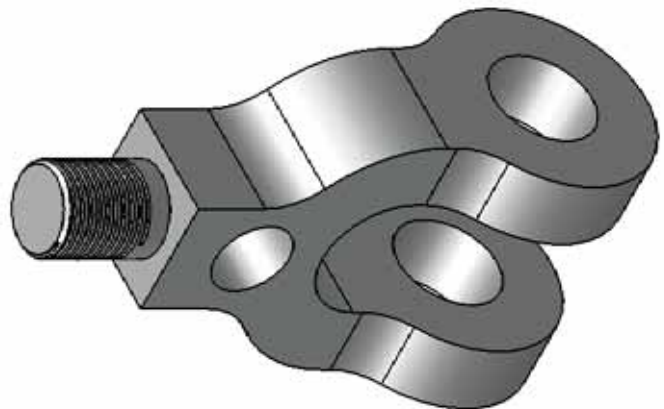
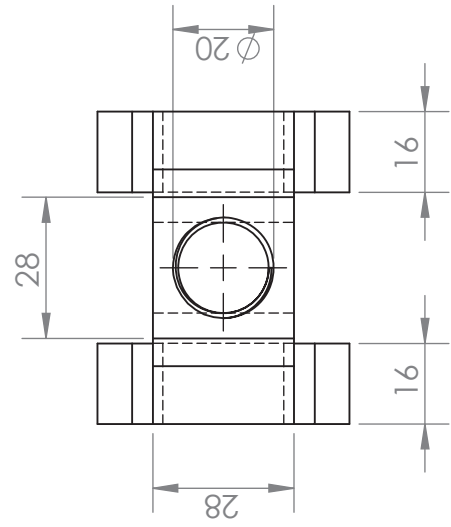
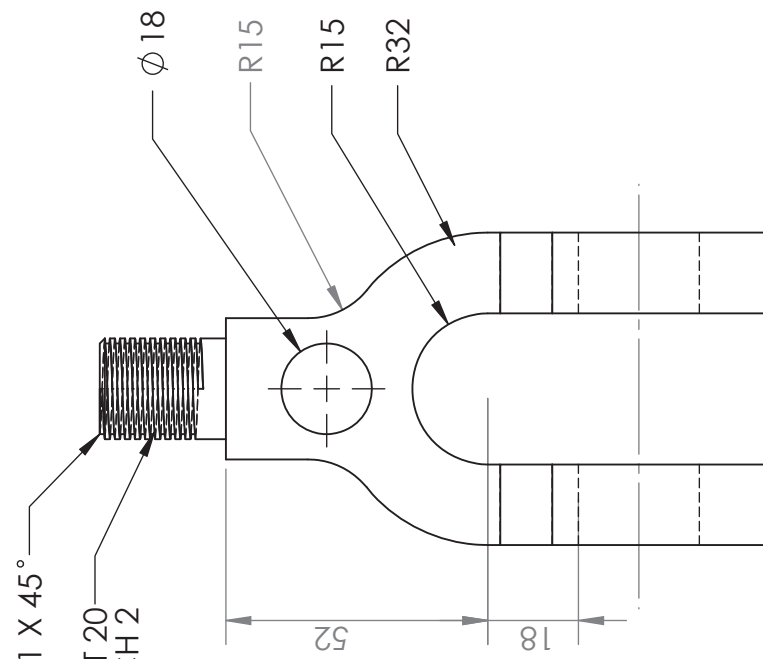
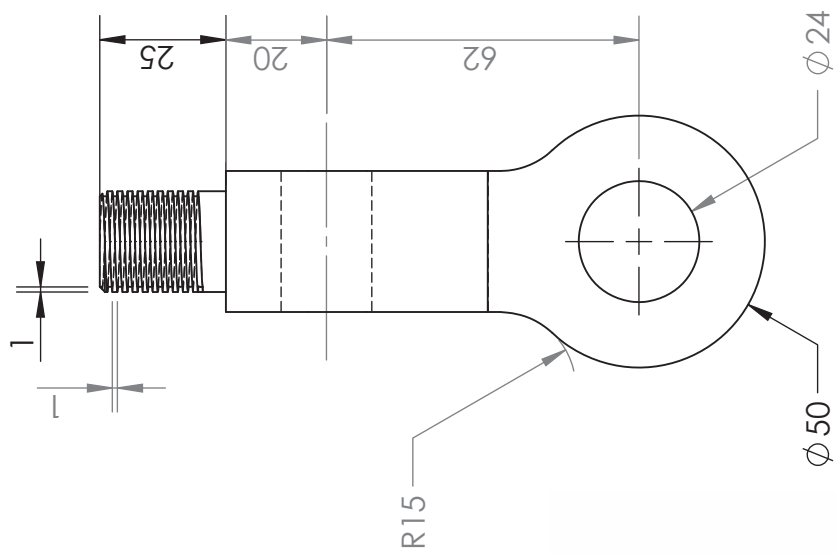
ALL DIMENSIONS ARE IN MM



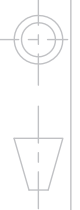
ANGLE OF PROJECTION



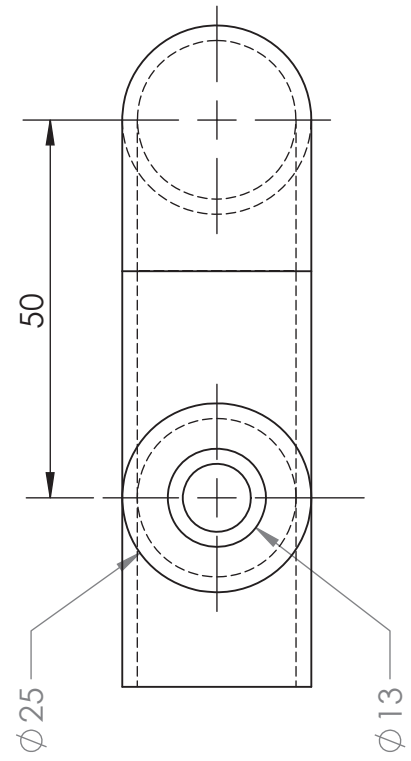
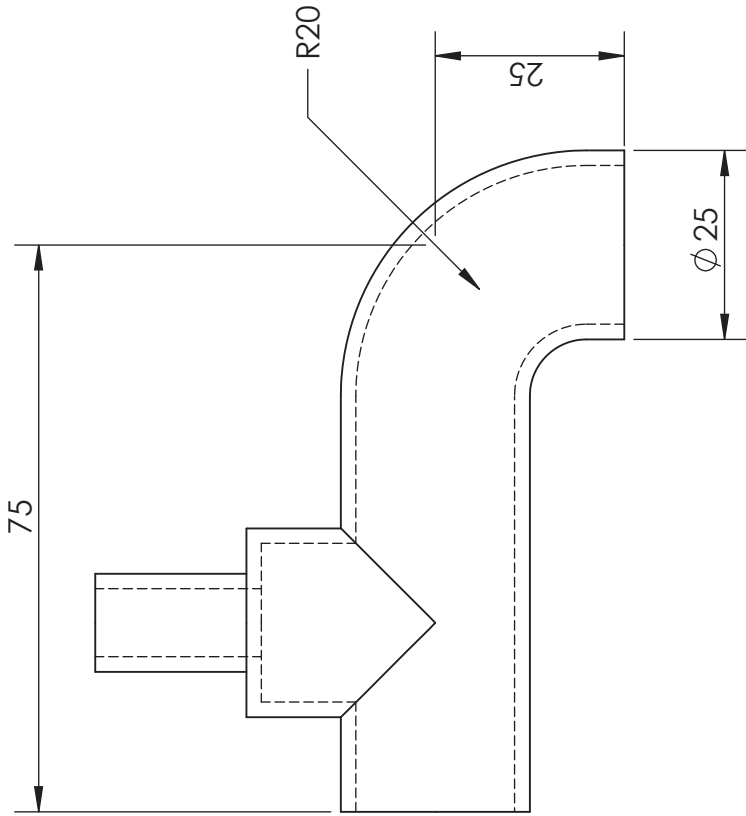
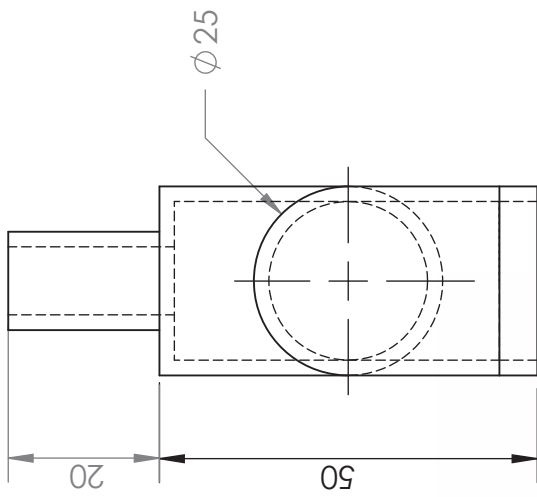
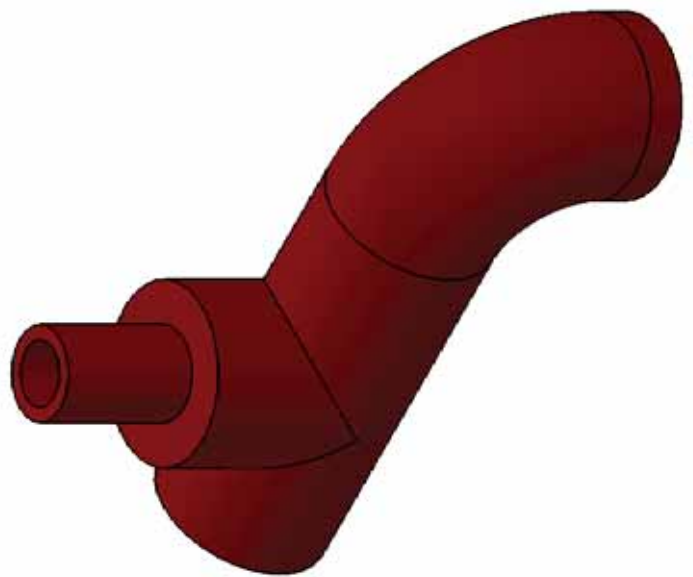
ALL DIMENSIONS ARE IN MM



ANGLE OF PROJECTION



ALL DIMENSIONS ARE IN MM



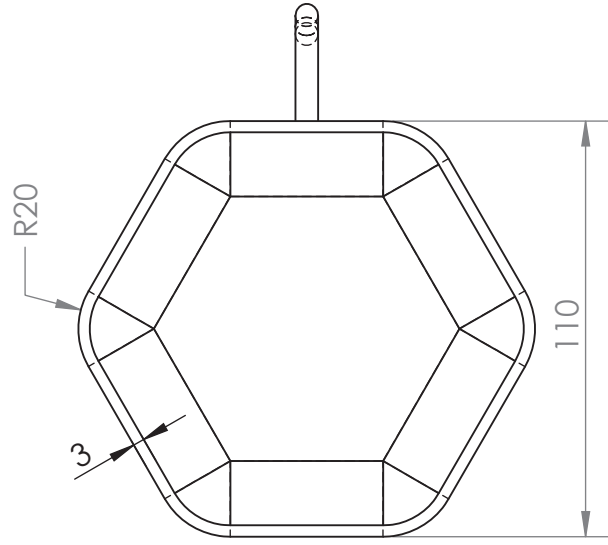
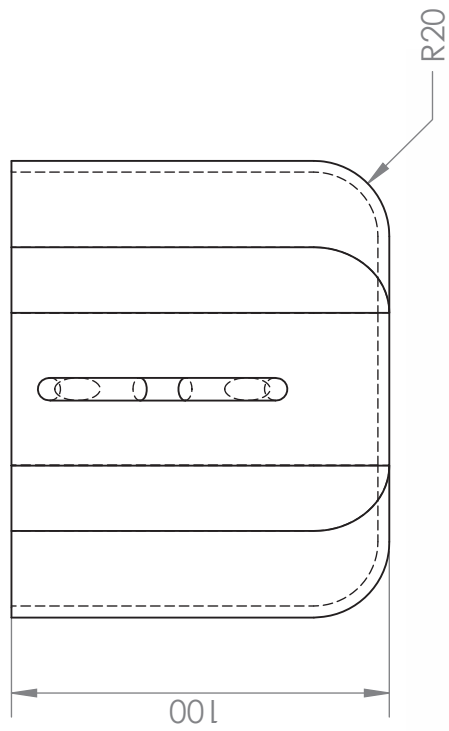
ANGLE OF PROJECTION



ALL DIMENSIONS  
ARE IN MM

EX :





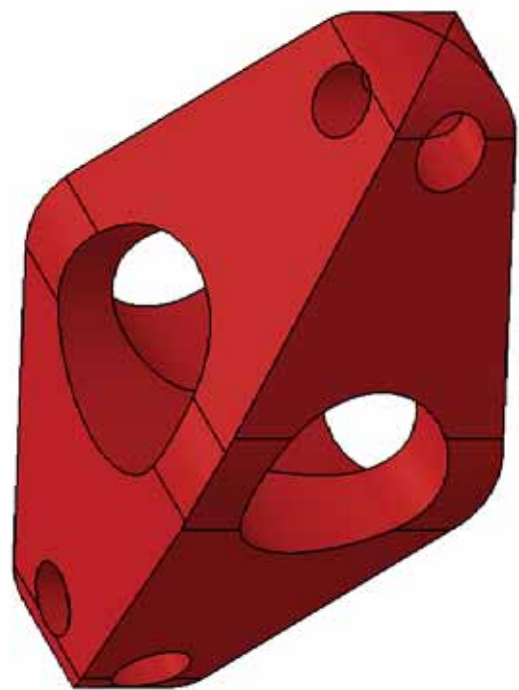
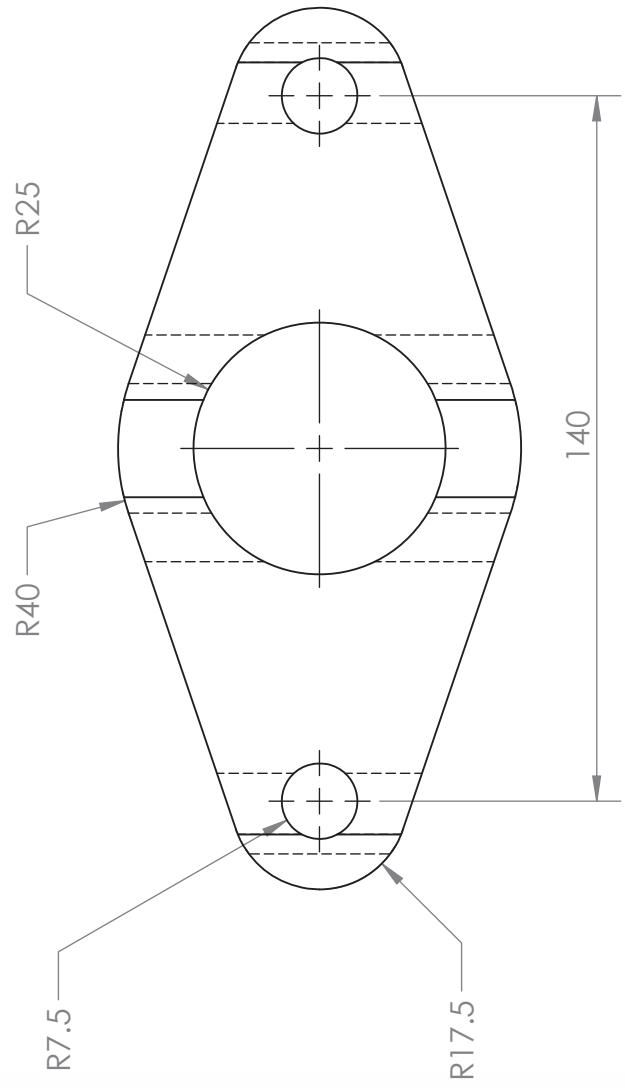
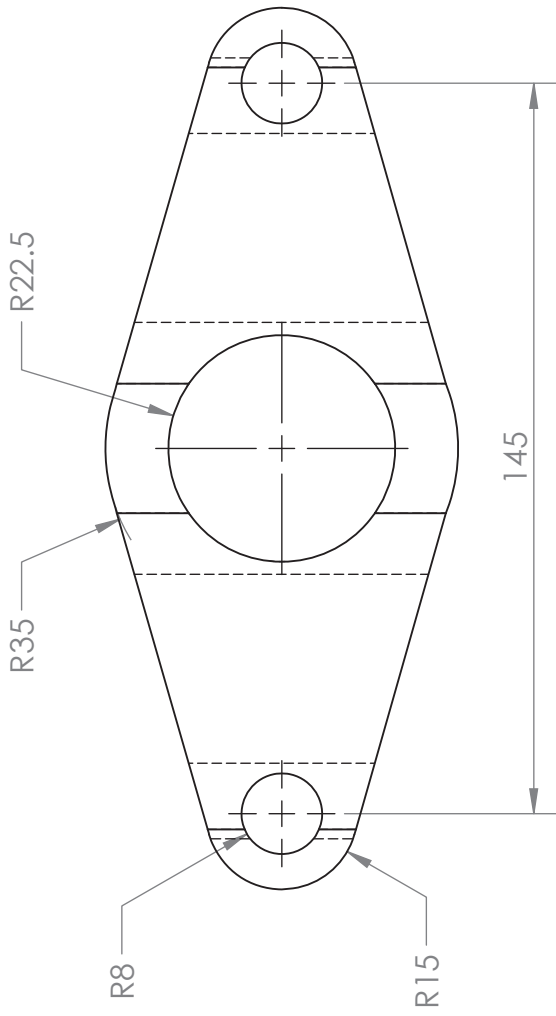
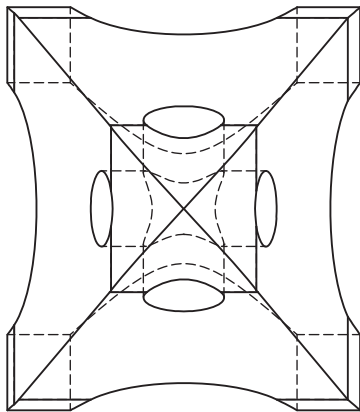
ANGLE OF PROJECTION



ALL DIMENSIONS  
ARE IN MM

EX:

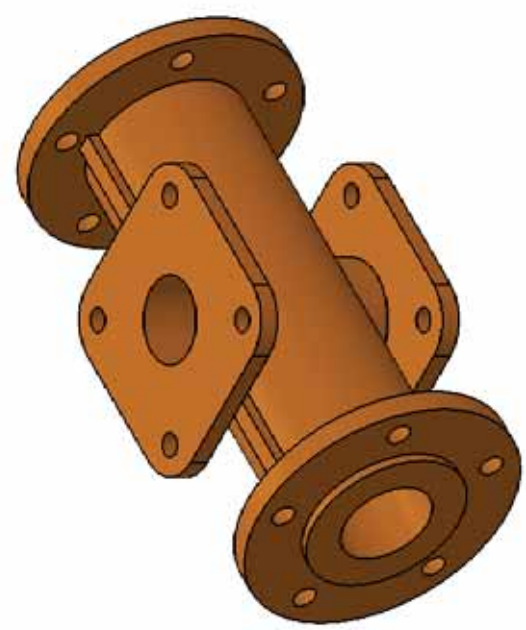
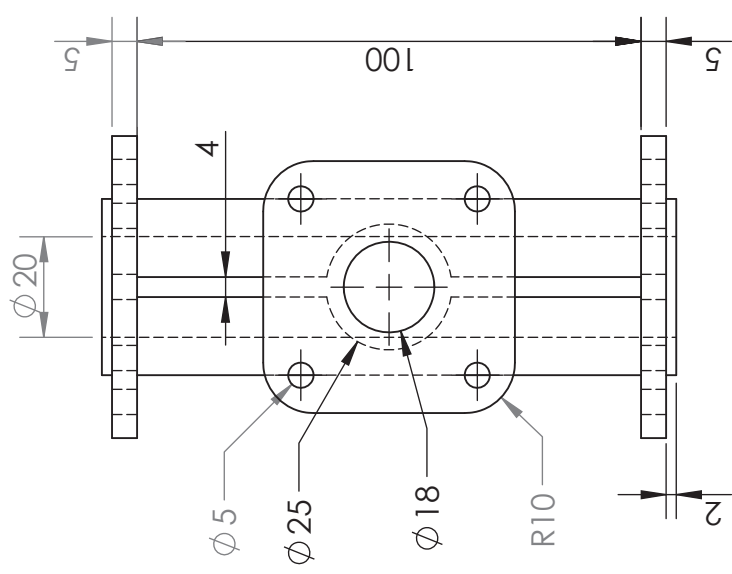
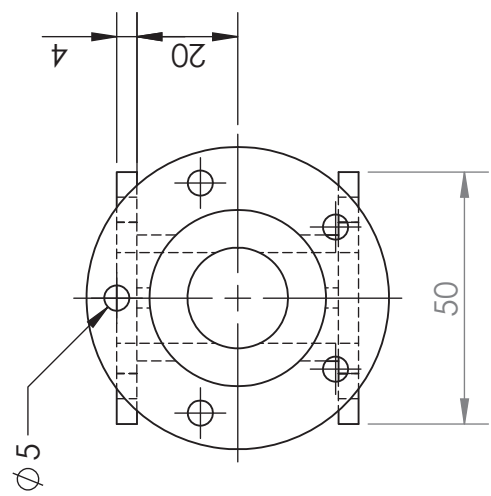
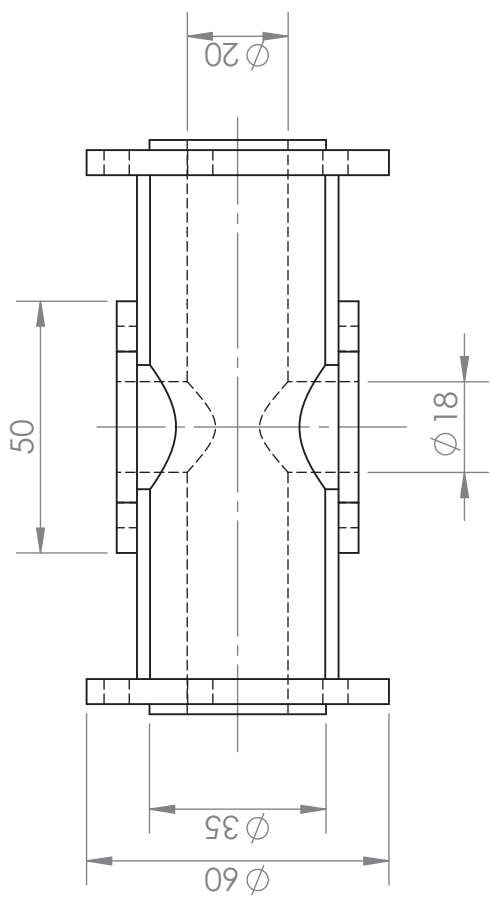




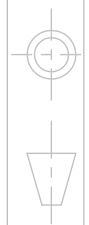
ALL DIMENSIONS ARE IN MM



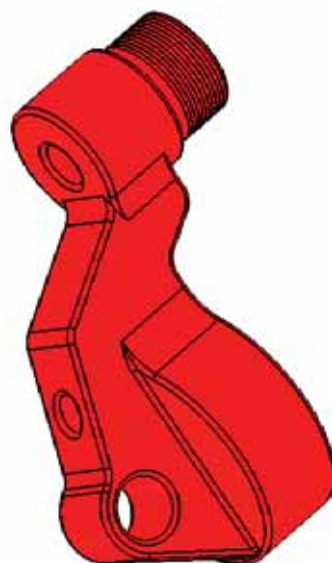
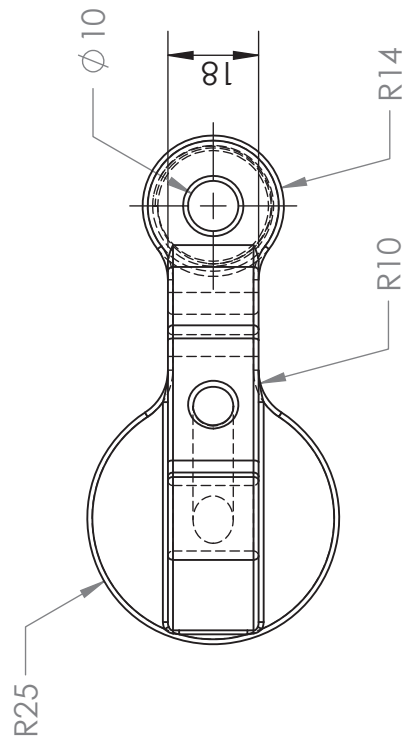
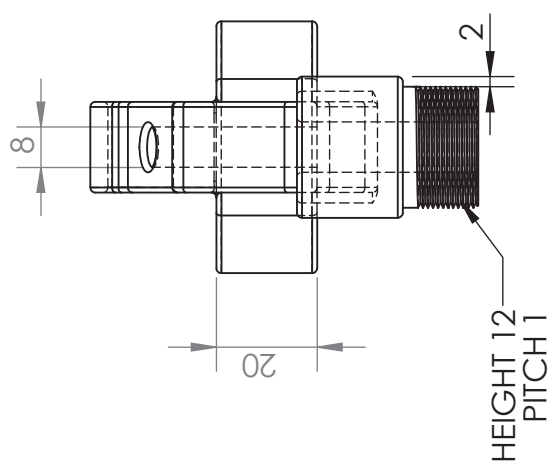
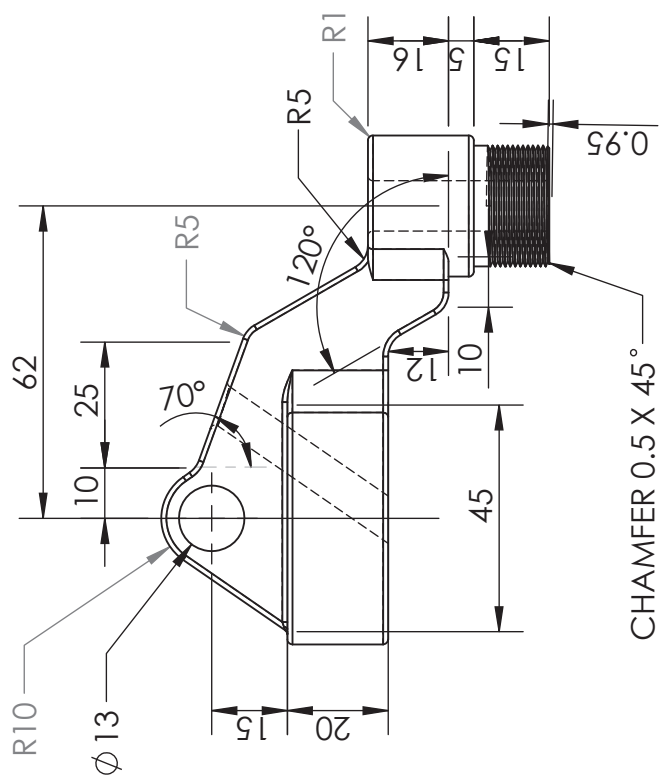
ANGLE OF PROJECTION



ANGLE OF PROJECTION



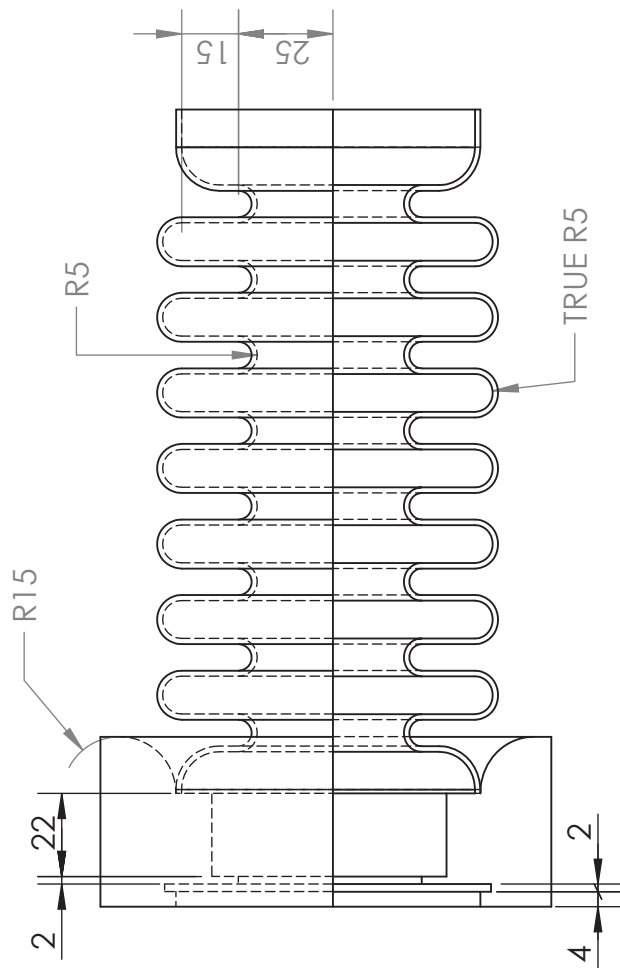
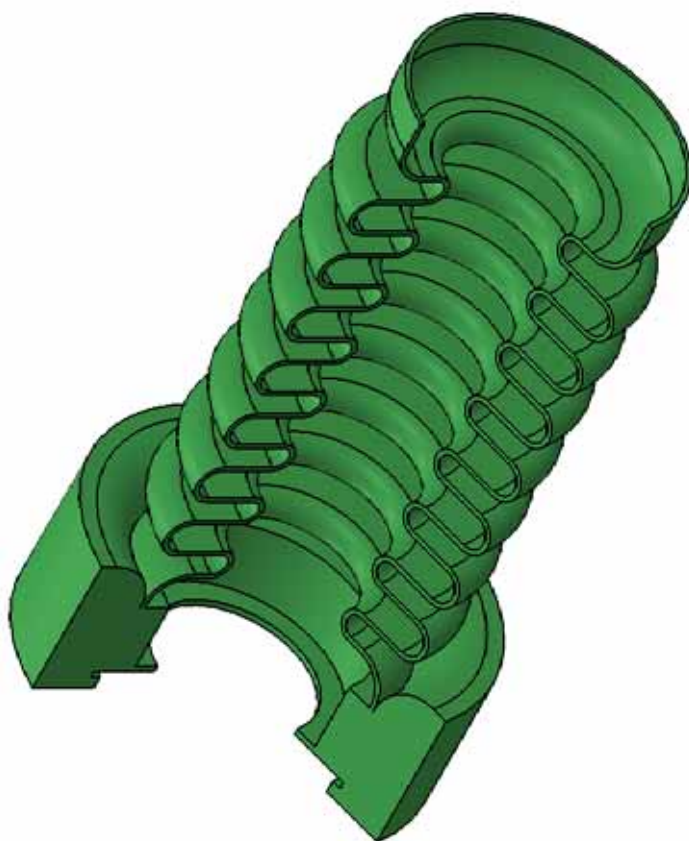
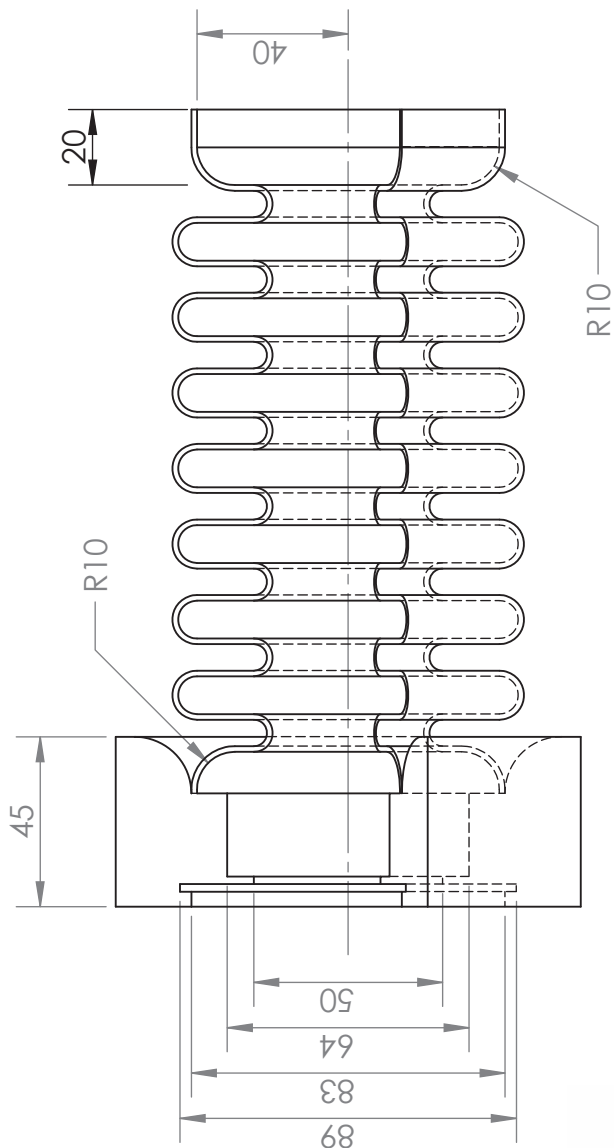
ALL DIMENSIONS ARE IN MM



ANGLE OF PROJECTION



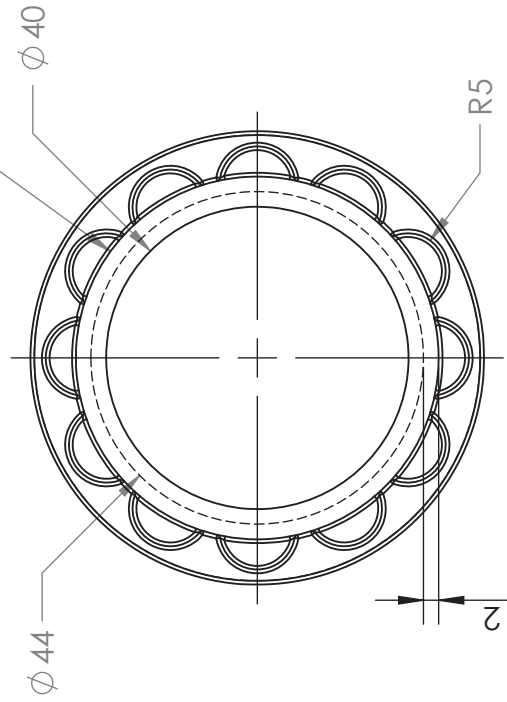
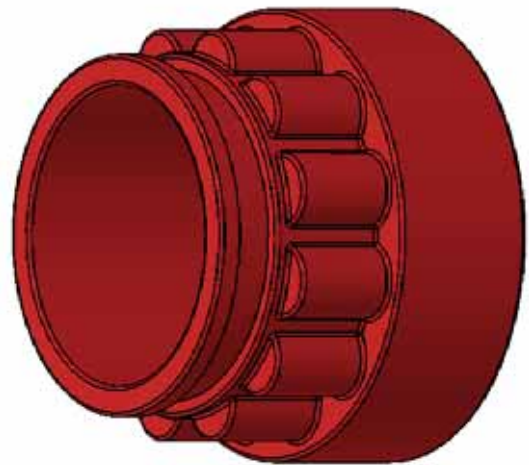
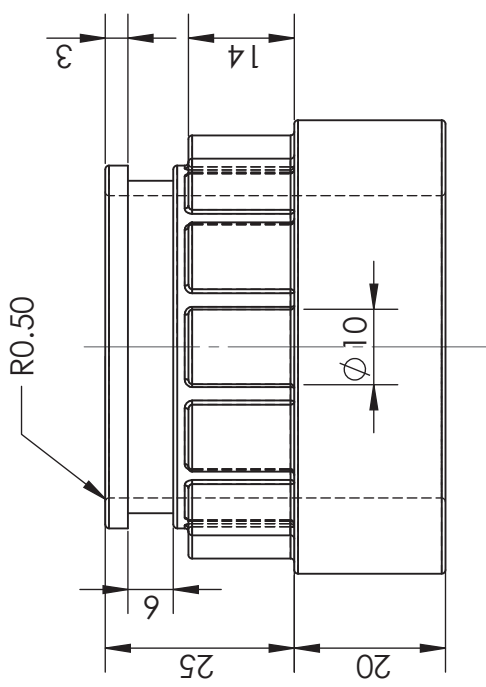
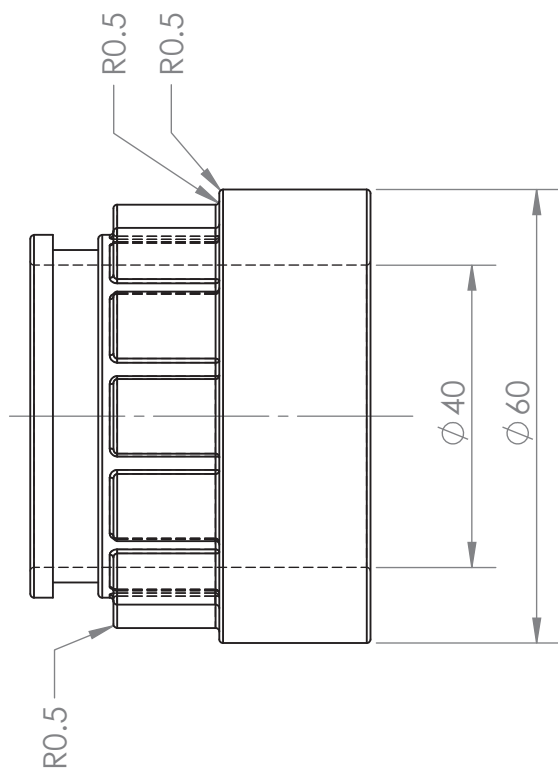
ALL DIMENSIONS ARE IN MM



ANGLE OF PROJECTION



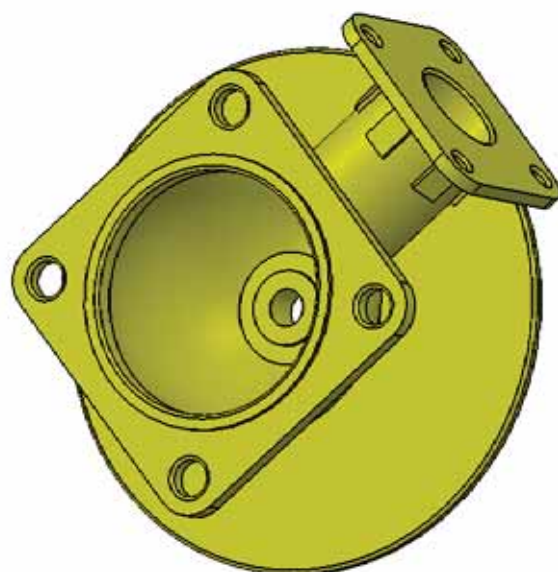
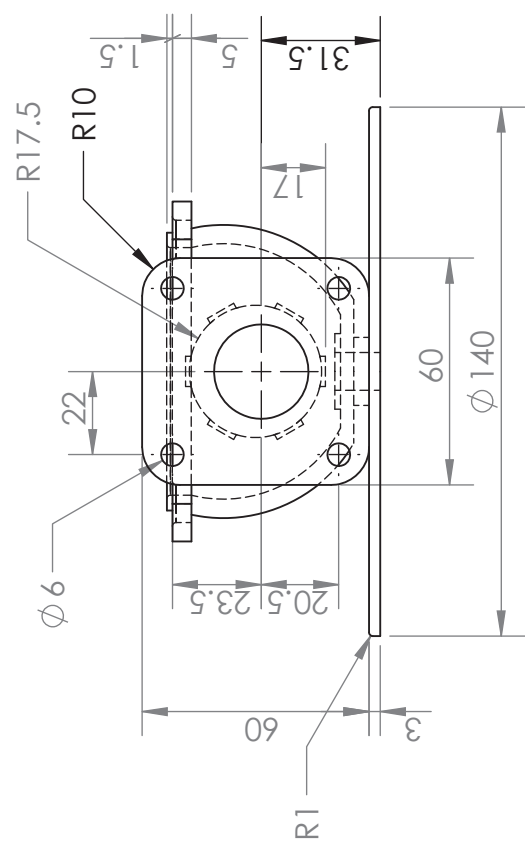
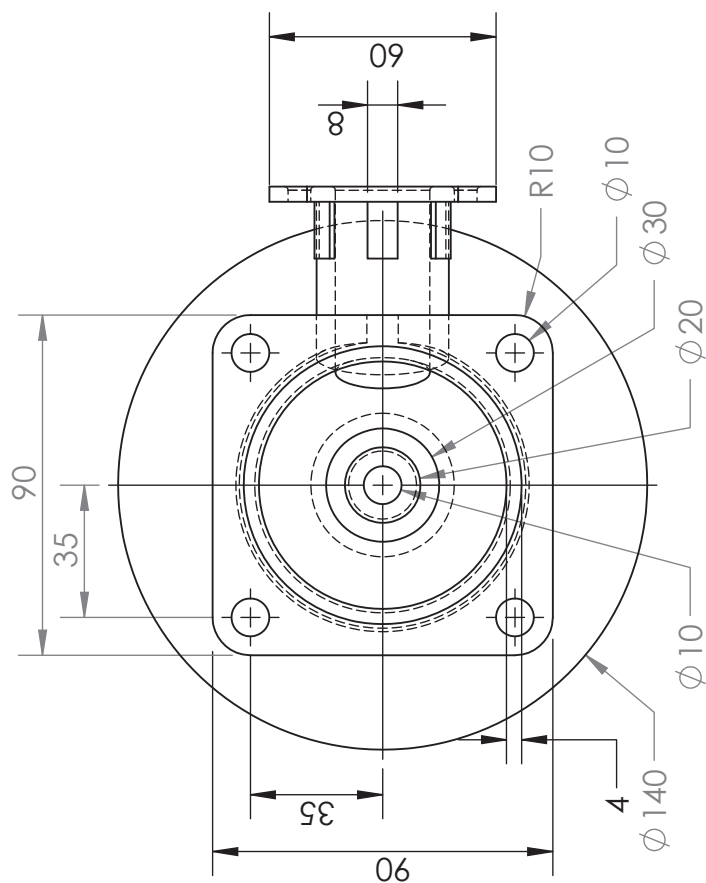
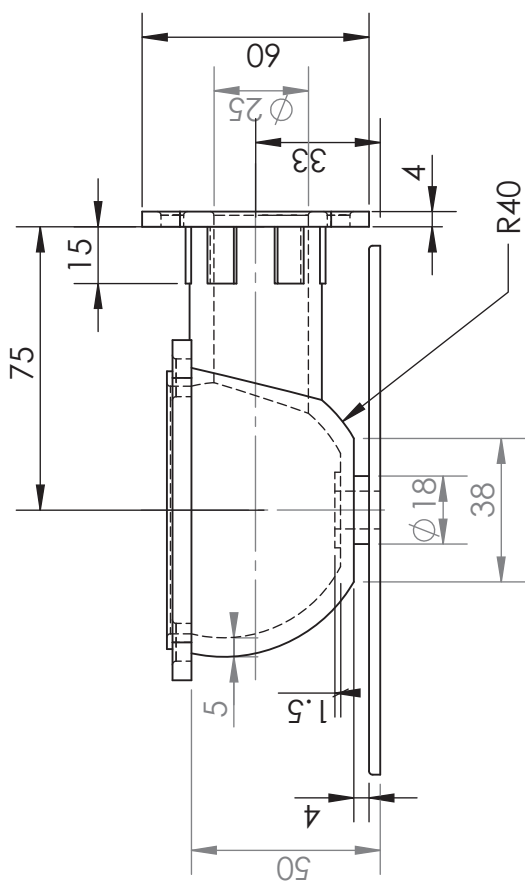
ALL DIMENSIONS ARE IN MM



ANGLE OF PROJECTION



ALL DIMENSIONS ARE IN MM

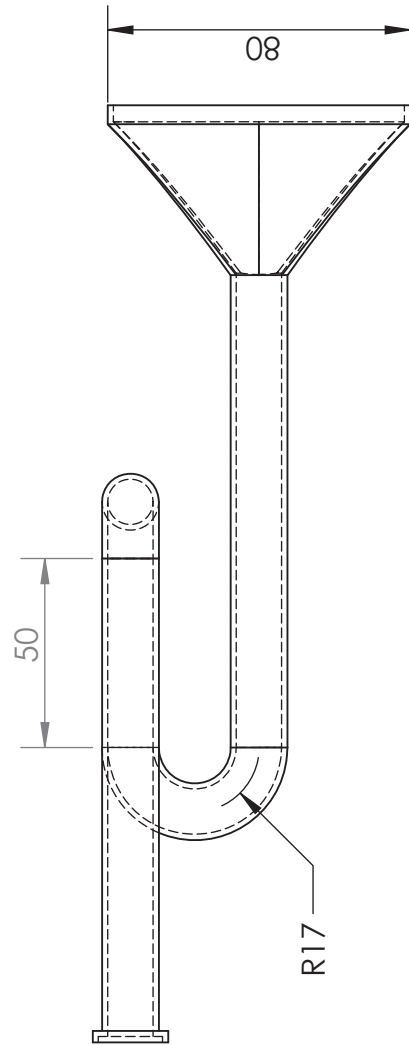
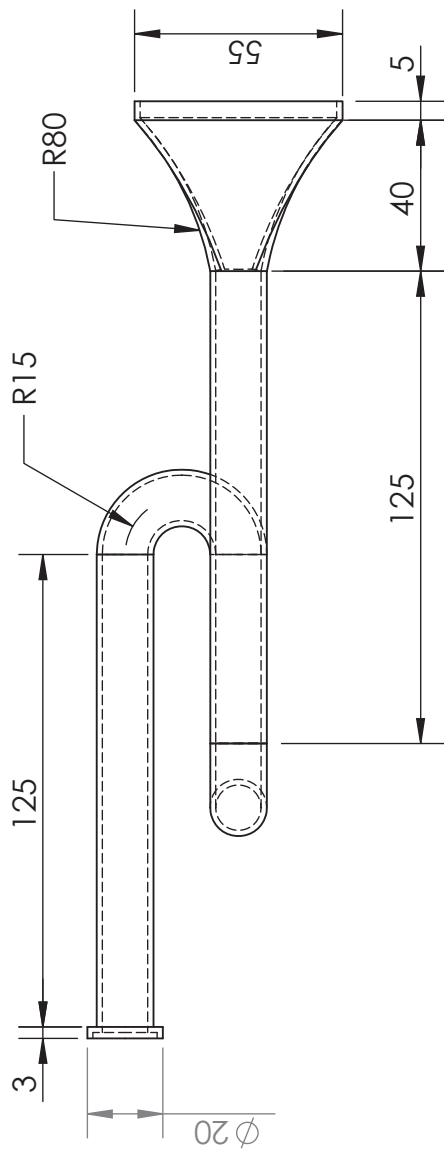
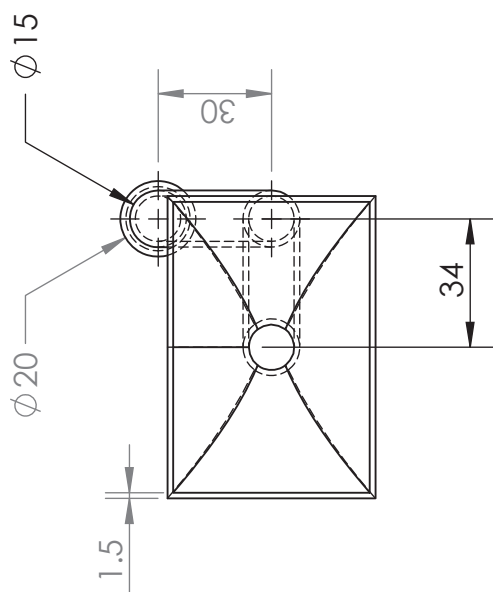


ALL DIMENSIONS ARE IN MM

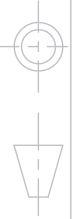


ANGLE OF PROJECTION



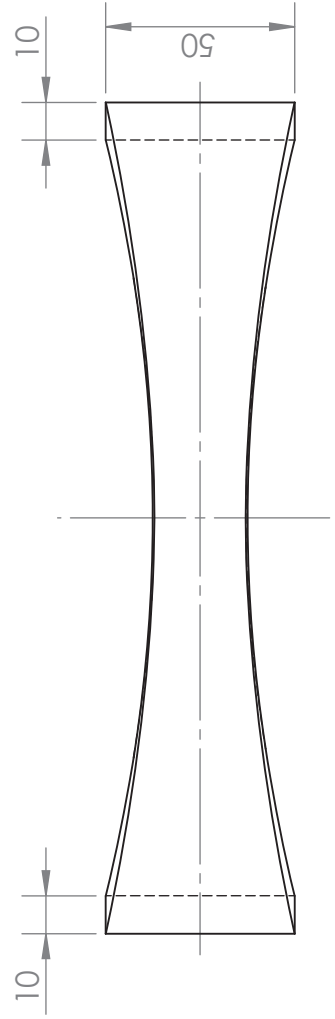
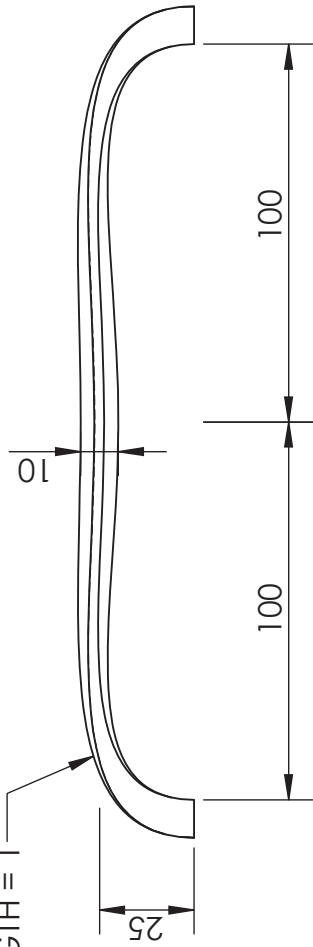
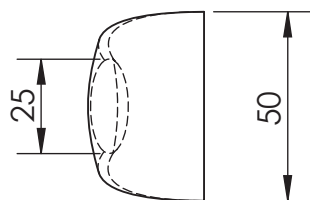


ANGLE OF PROJECTION



ALL DIMENSIONS ARE IN MM

TANGENT TO PROFILE  
LENGTH = 1

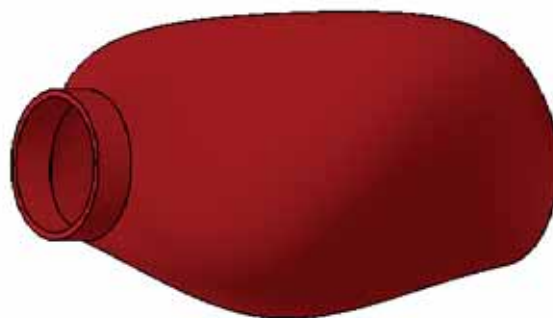
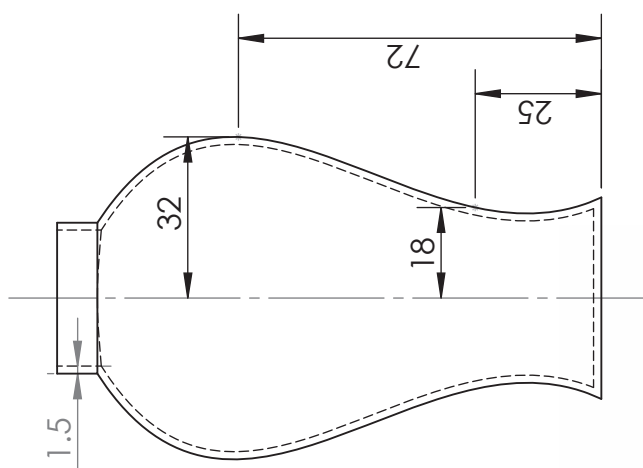
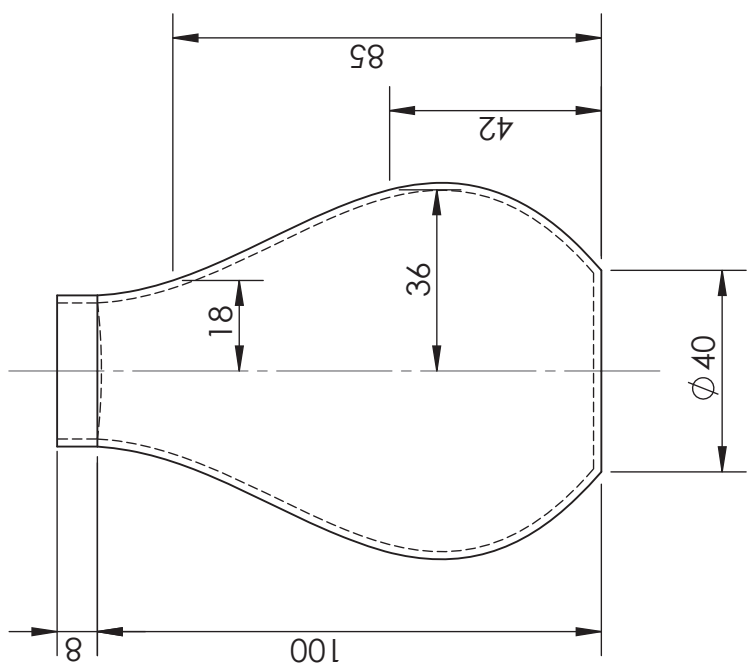


ANGLE OF PROJECTION

ALL DIMENSIONS  
ARE IN MM

EX:

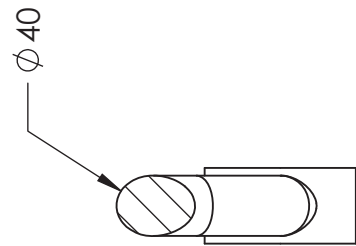
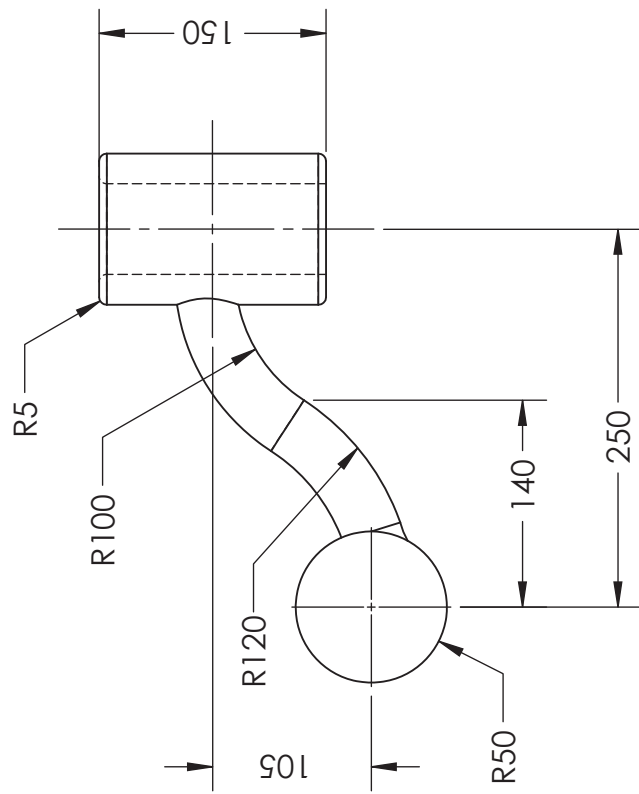
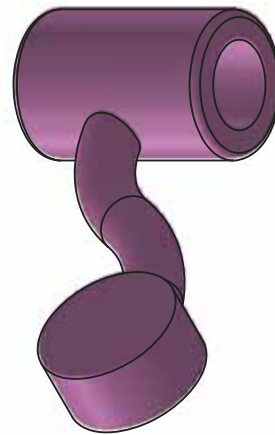
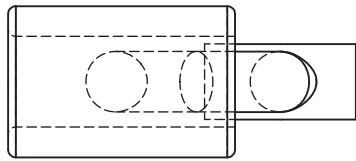




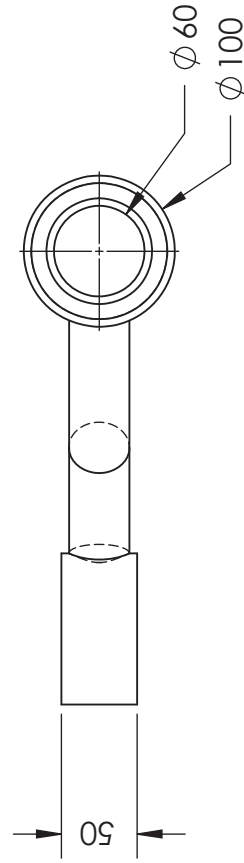
ANGLE OF PROJECTION

ALL DIMENSIONS ARE IN MM

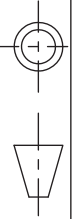
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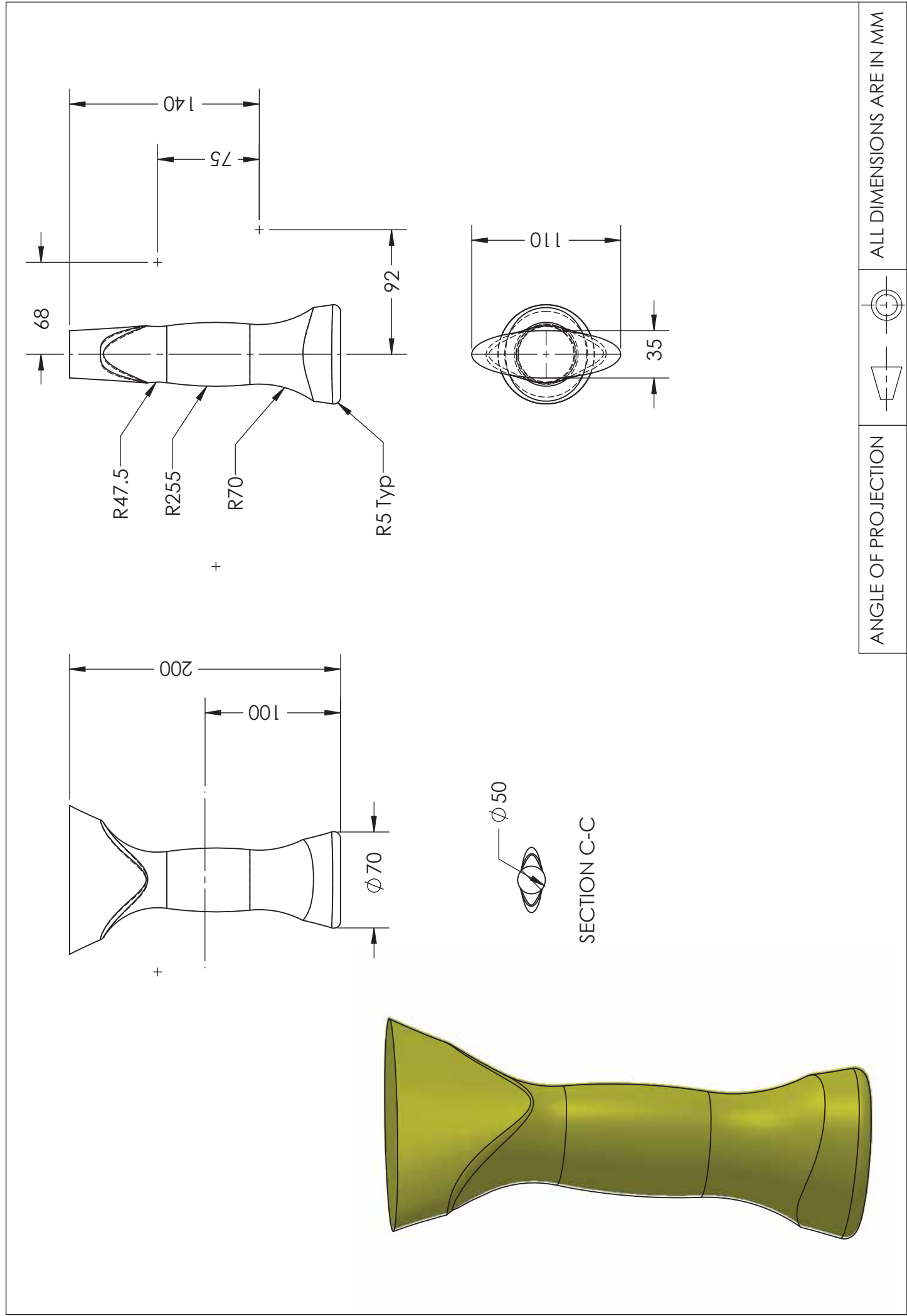
SECTION

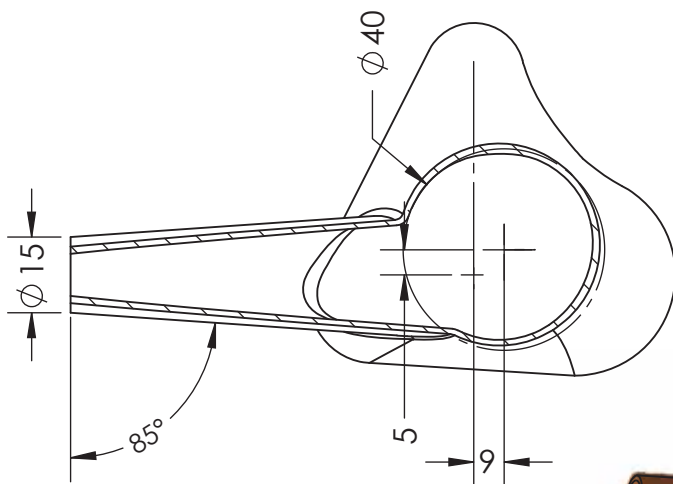
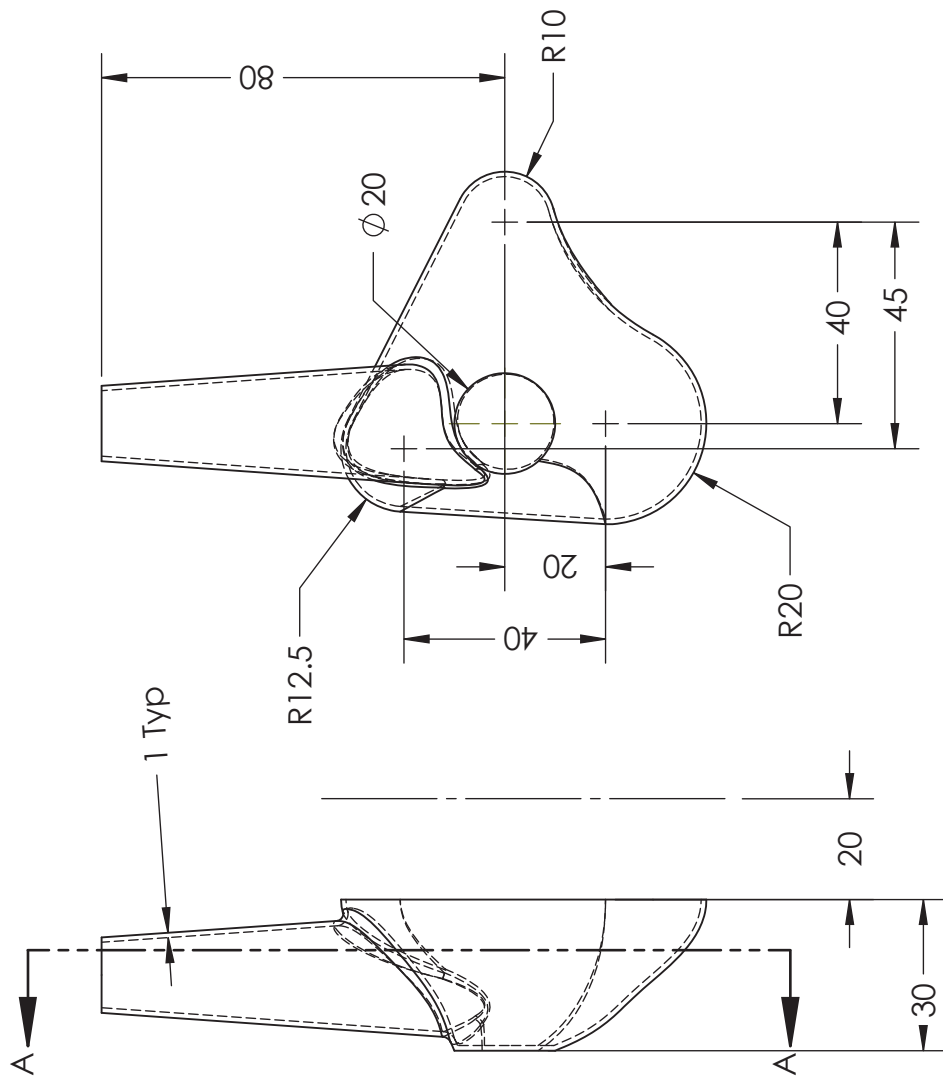


ANGLE OF PROJECTION

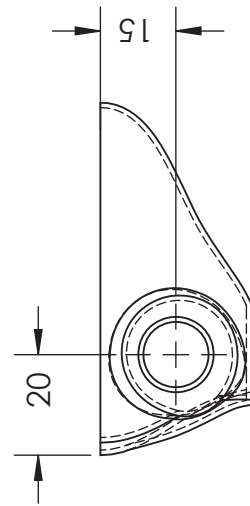
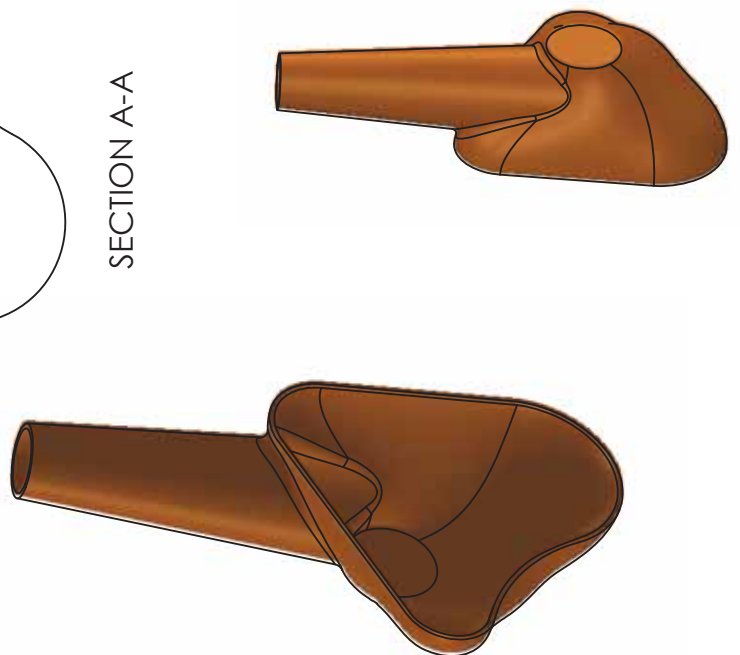


ALL DIMENSIONS ARE IN MM





SECTION A-A

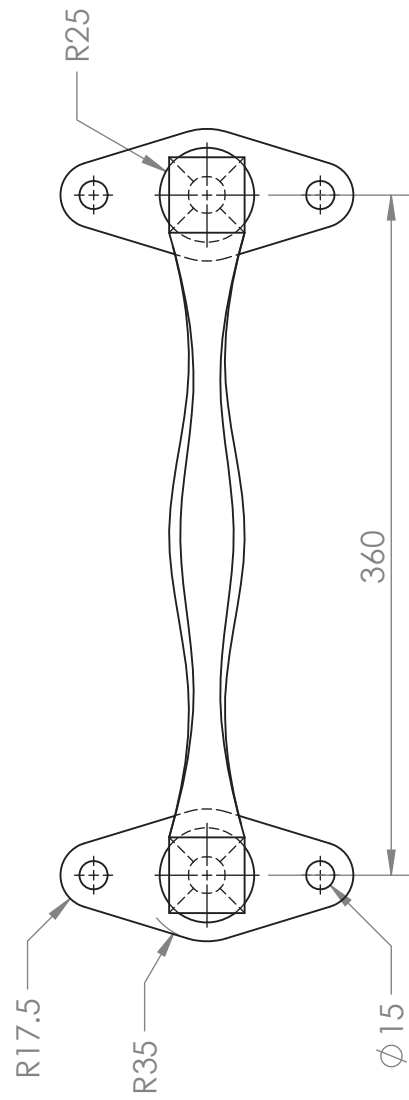
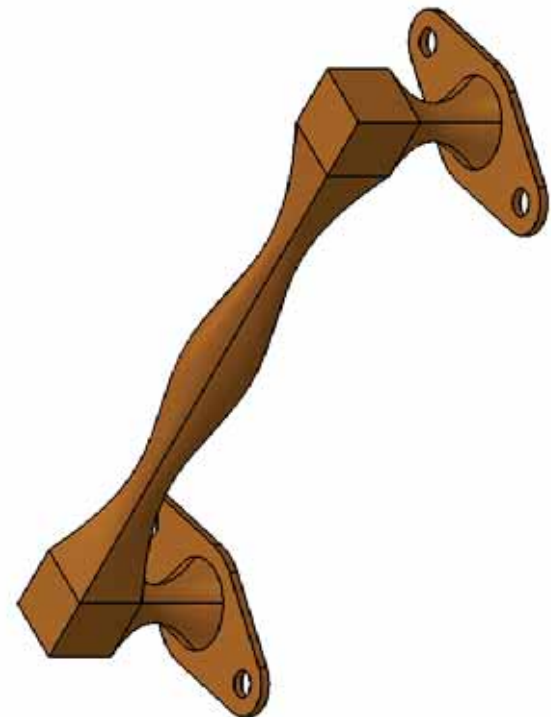
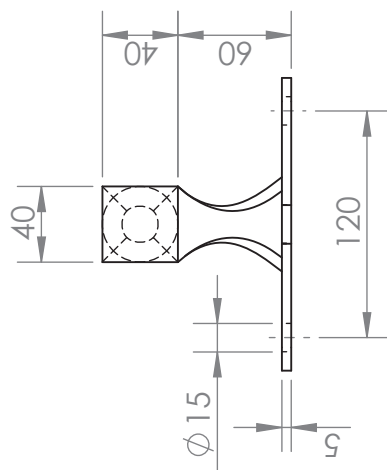
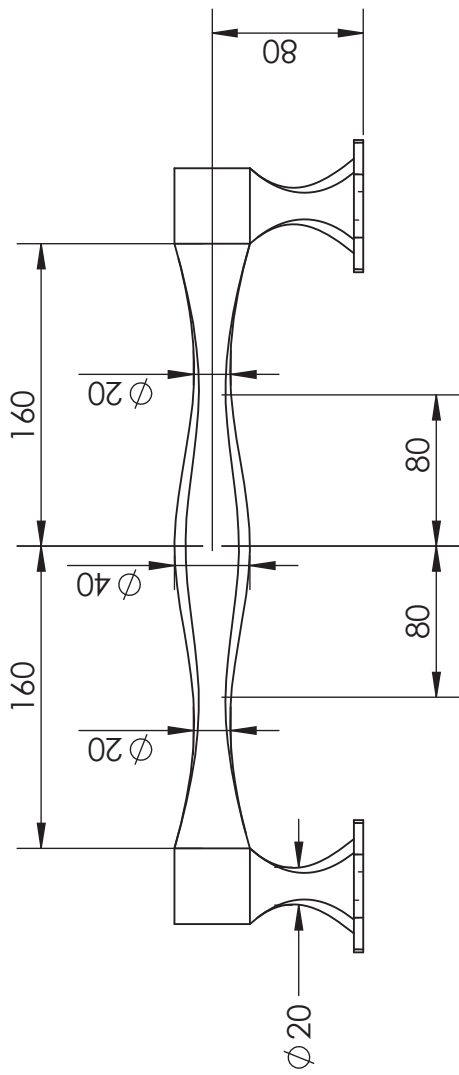


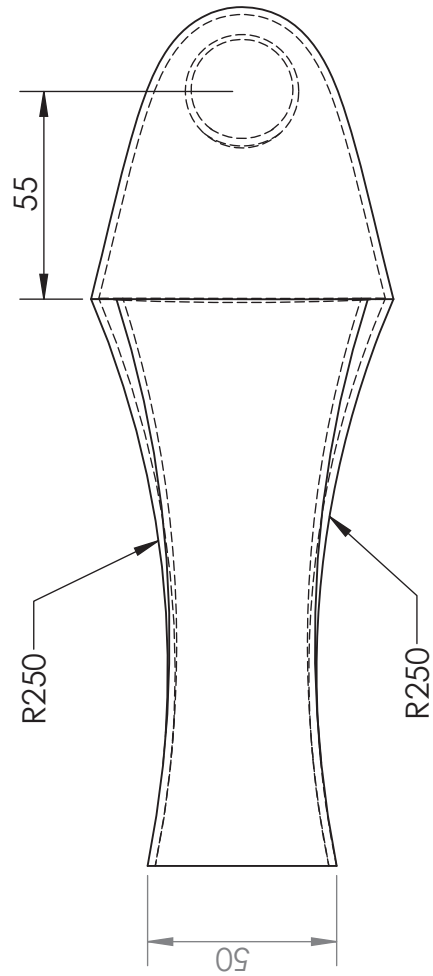
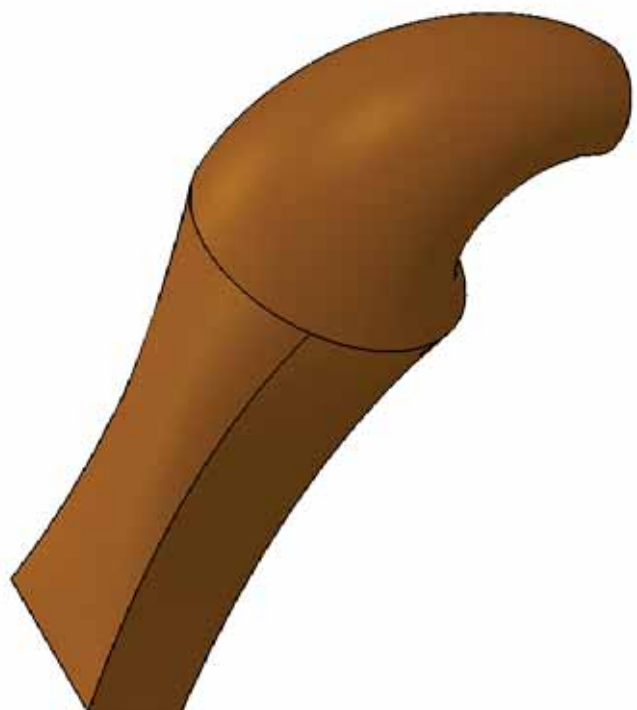
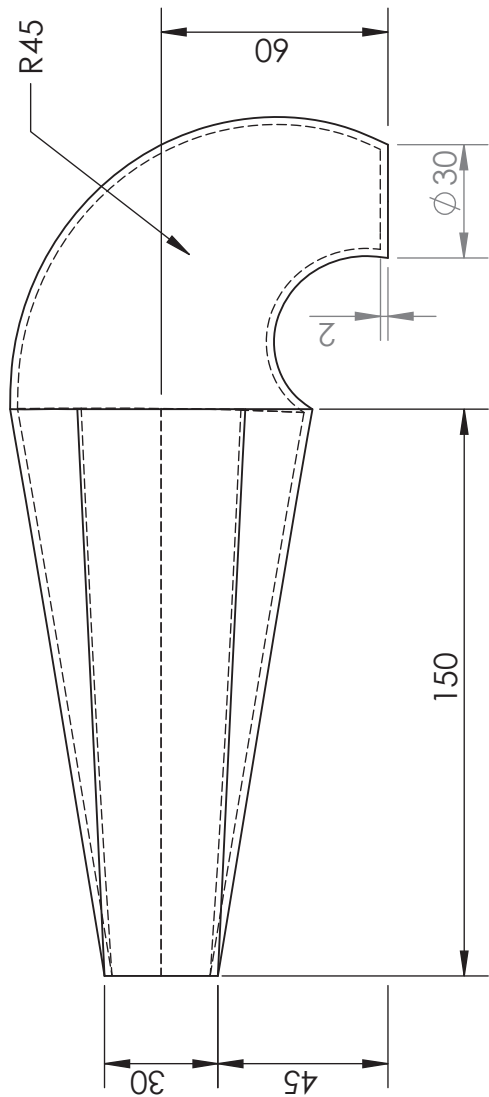
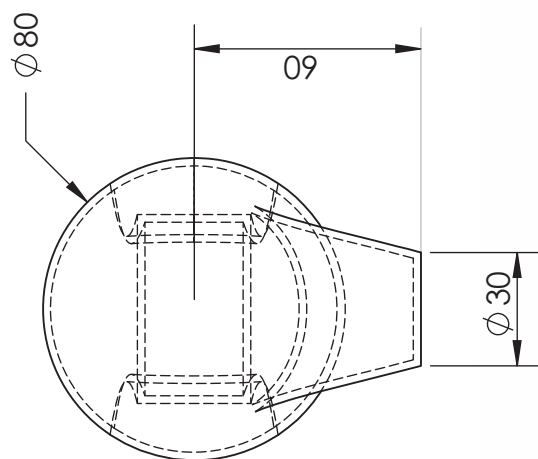
Use Loft tool

ANGLE OF PROJECTION

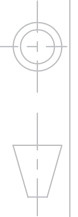


ALL DIMENSIONS ARE IN MM



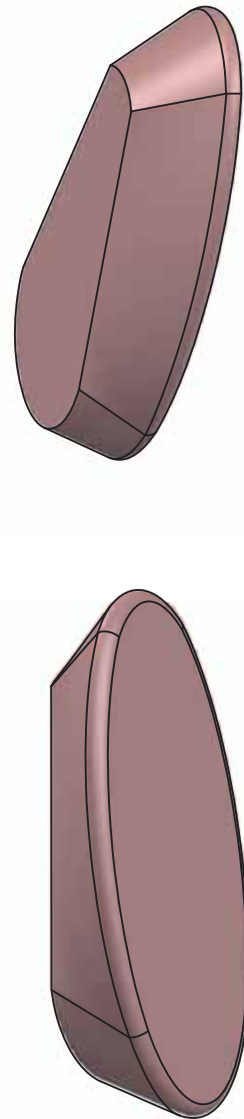
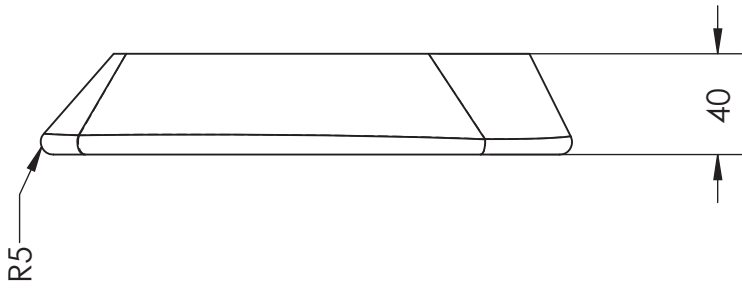
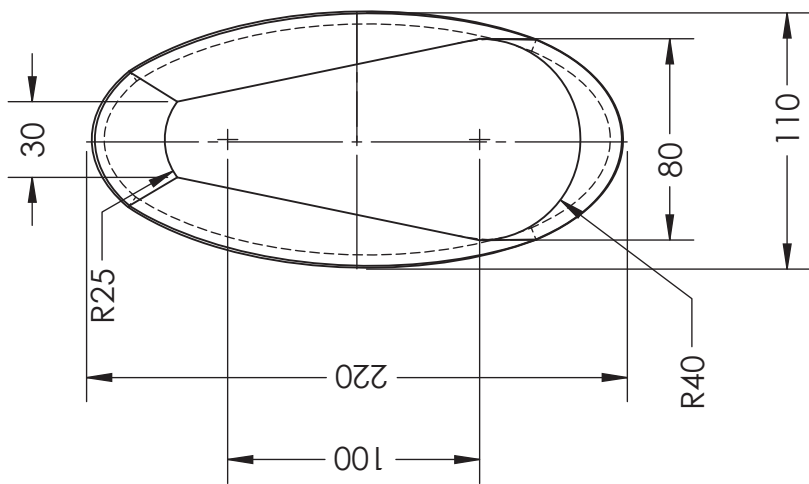


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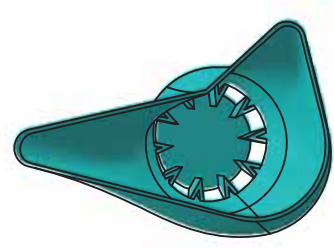
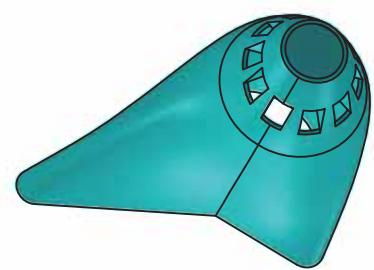
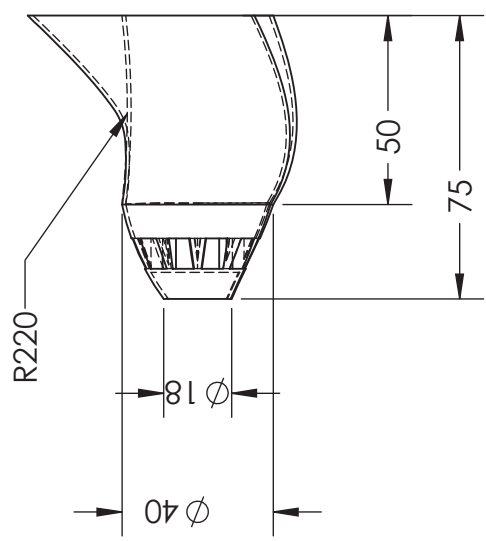
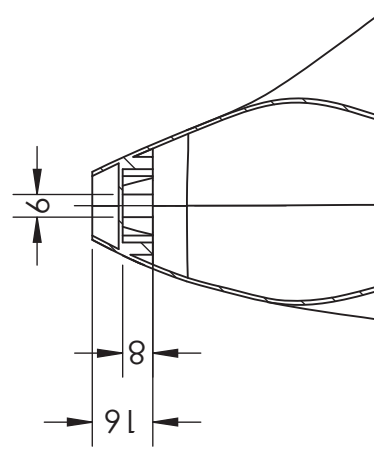
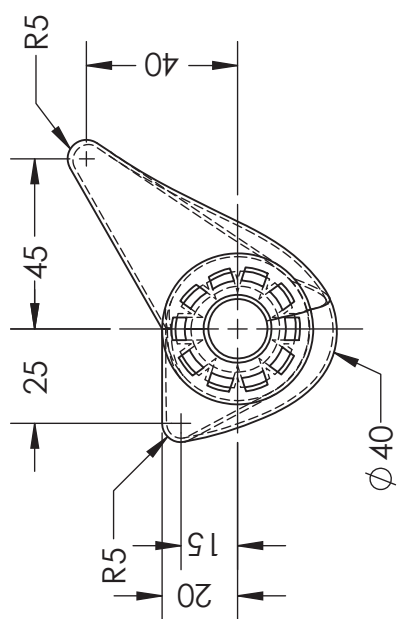




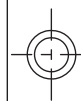
ANGLE OF PROJECTION



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Wishing you all  
The Very Best.