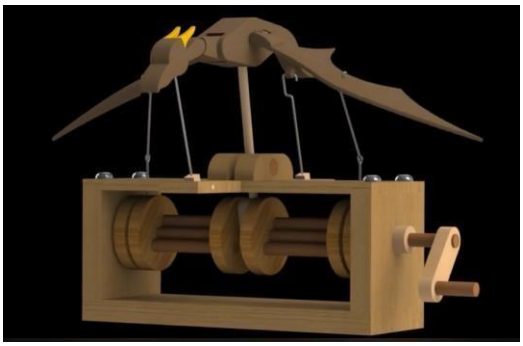
TA201 Project Report (Flying Dragon)



Group No: 4 (Friday)

Course Instructor: Dr. Nilesh Badwe

Lab-In-Charge: Mr. Anil Kumar Verma

Tutor: Dr. Nilesh Badwe

Group Members:

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ACKNOWLEDGEMENT

We express our sincere gratitude to the out Lab In-Charge: Mr. Anil Kumar Verma whose help, stimulating suggestions and encouragement helped us every time. His dedication, keen interest and above all, his overwhelming attitude have played a significant role.

We would also like to extend our gratitude to Prof. Nilesh Badwe for providing us all the knowledge required for the project.

We would also like to express our gratitude towards our Course Incharge Mr. I.P.Singh , whose guidance, encouragement, suggestions and constructive criticism have contributed immensely towards our project.

The support of all the staff members at the TA201 Lab is highly appreciated and elementary towards completing our project. Lastly, we would like to thank every member of our group who has worked hard to make this project successful.

Motivation:

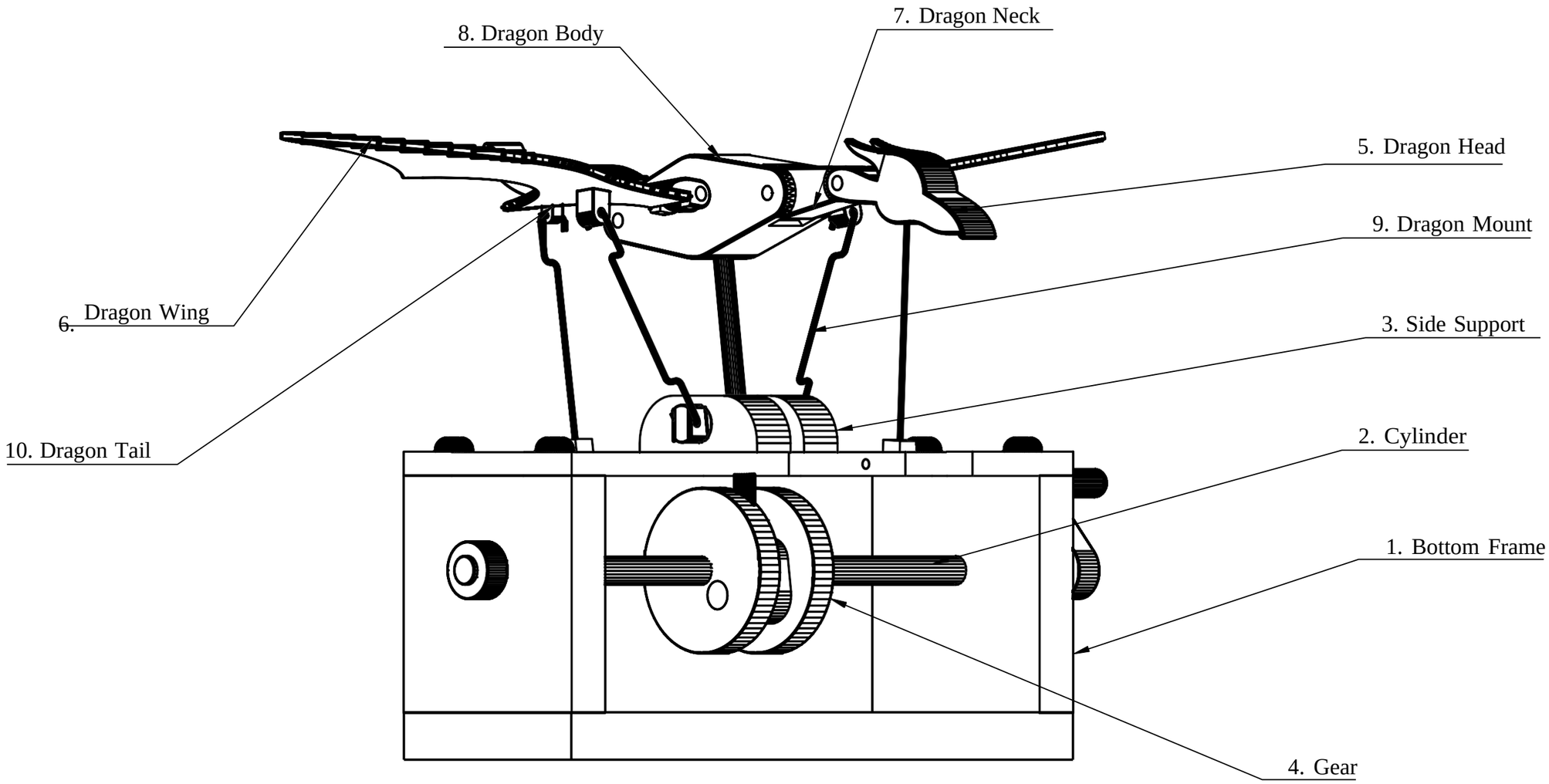
The motivation behind our project is the fiery and powerful creatures from the popular TV series "House of the Dragon" and "Game of Thrones".

These dragons have captured the hearts of millions of viewers and have left us in awe with their mesmerizing presence and intimidating power. We were inspired to bring these mythical creatures to life by creating a model of a dragon.

Our project aims to showcase the intricate details of these creatures and pay homage to their depiction in the series. The model will allow fans to experience the true essence of a dragon in their hands, and be transported to the fantastical world of Westeros. Our project is a tribute to the captivating dragons from the series and we hope to bring joy and excitement to those who appreciate their beauty and power.

MATERIALS AND PART LIST

PART NO.	NAME	MATERIAL REQUIRED	QUANTITY	PROCESS USED
1.	Bottom Frame	Cast Iron, GI Sheet	1	Welding , Brazing , Sheet Metal Formation
2.	Bottom Mechanism	Galvanised Iron, MS Rods	As Needed	Cutting, sheet metal working, object fabrication
3.	Side Support	MS Sheet	2	Sheet metal formation
4.	Gear	Cast Iron	2	Casting
5.	Dragon Head	MS Sheet	1	Object fabrication
6.	Dragon Wing	MS Sheet	2	Sheet metal working, object fabrication
7.	Dragon Neck	MS Sheet	1	Object Fabrication
8.	Dragon Body	Galvanised Iron Sheet, MS Steel	1	Sheet Metal Formation, Welding, Brazing
9.	Dragon Mount	MS steel , Cast Iron	As Needed	Brazing , Object Fabrication
10.	Dragon Tail	MS Steel	1	Object Fabrication, Welding, Sheet Metal



ISOMETRIC VIEW

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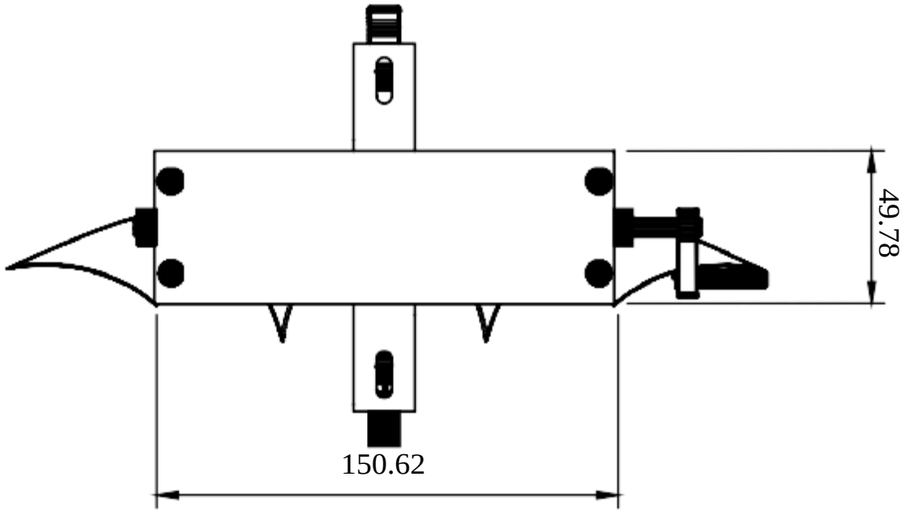
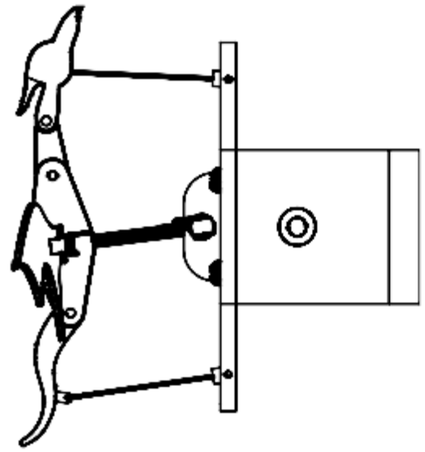
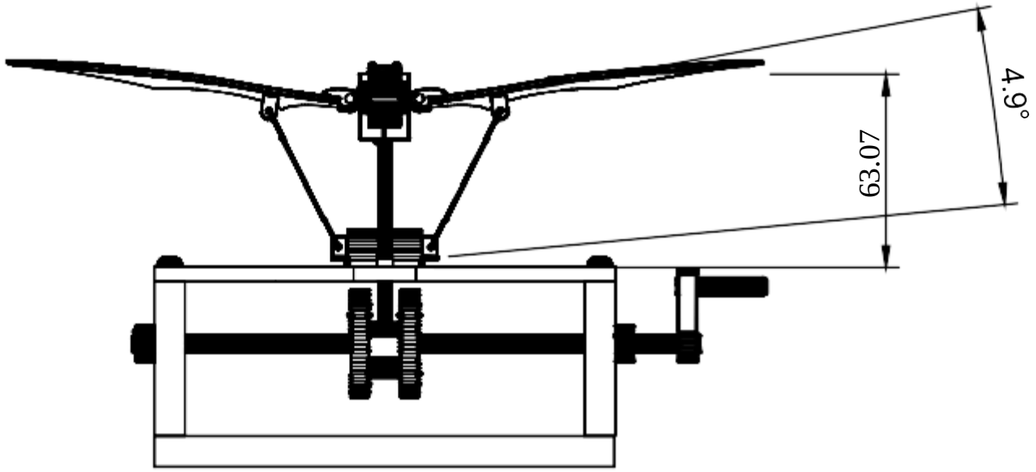
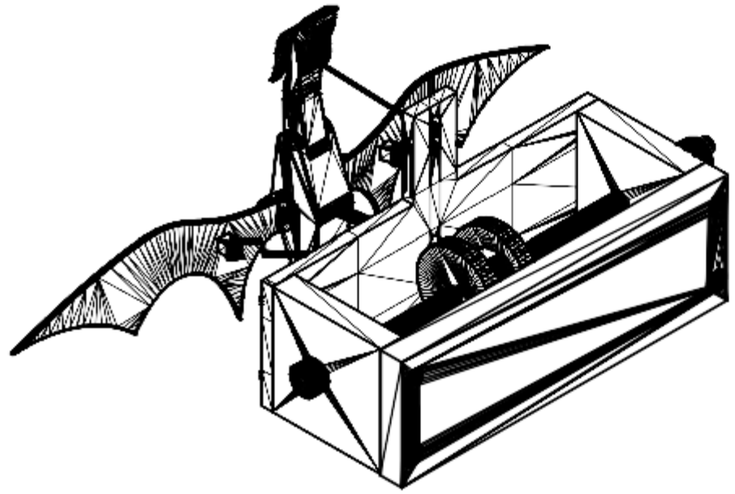
Orthographic of the Model









Material Used: MS Steel, Galvanised Iron Sheet, cast iron
Processes Involved: Welding, Sheet metal working

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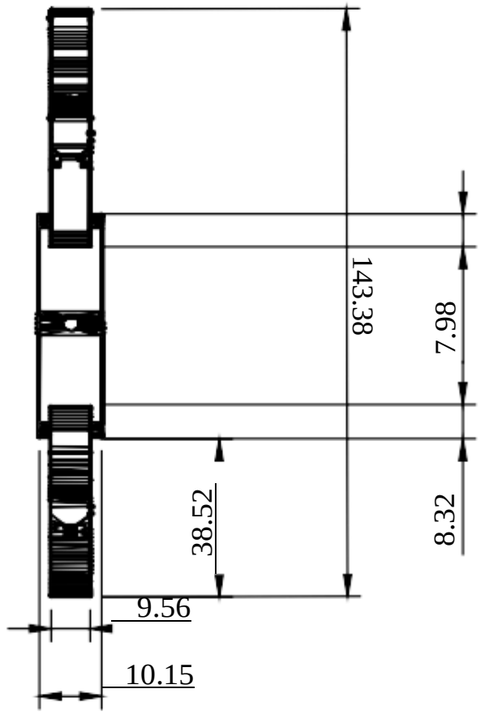
Dragon Complete Body



Material Used: MS steel,
Galvanised iron sheet
Processes involved: Object fabrication, Welding, Sheet metal

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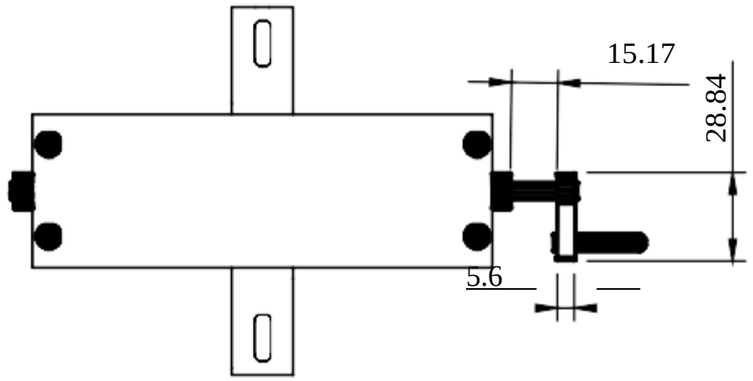
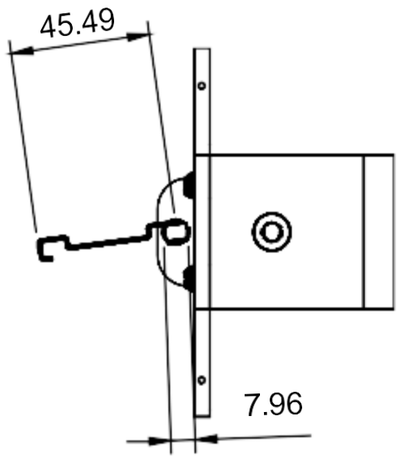
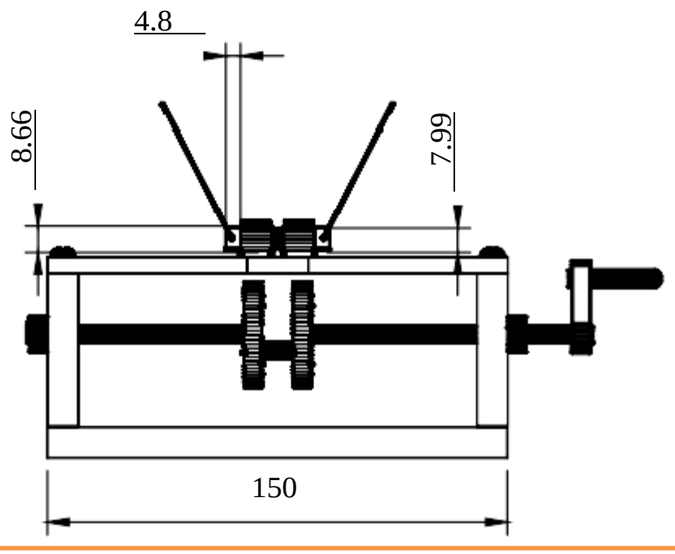
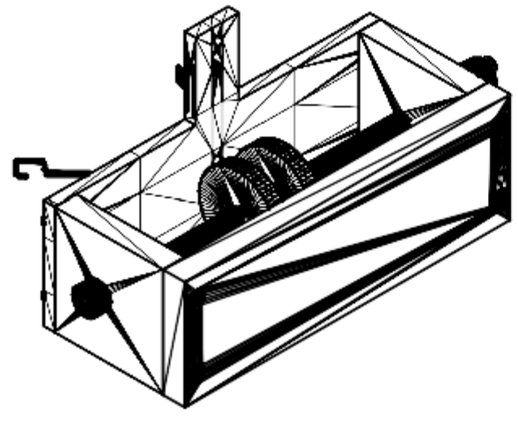
Total Bottom Setup









Material Used: Cast Iron , MS steel, Galvanised iron sheet
Processes Involved: Object fabrication, Sheet metal, Brazing, Welding

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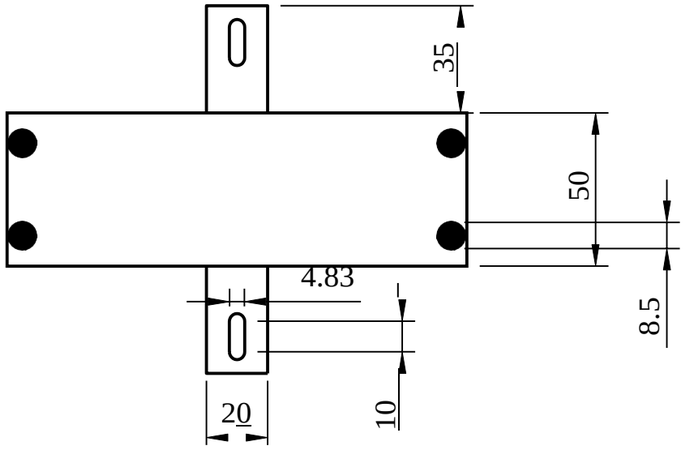
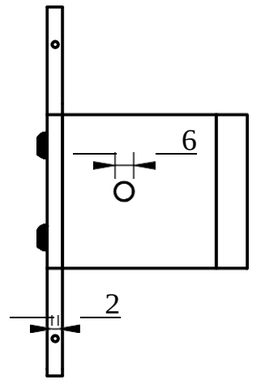
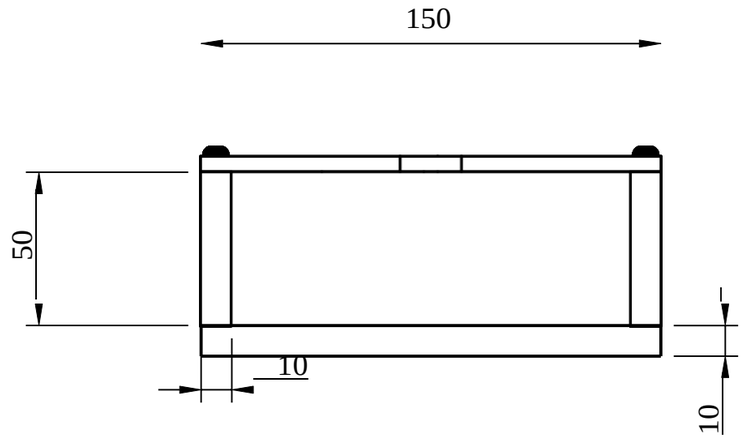
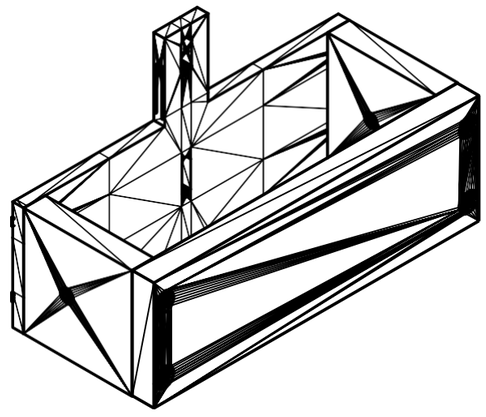
1. Bottom Frame









Material Used : Cast Iron, GI Sheet
Processes Involved : Welding , Brazing , Sheet Metal Formation

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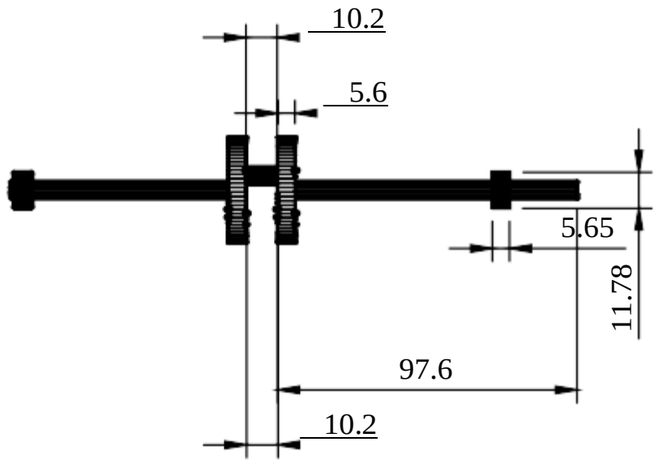
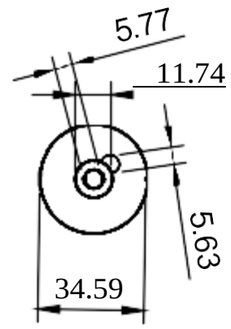
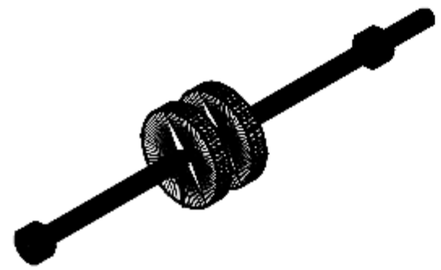
2. Bottom Mechanism







Material Used: Galvanized Iron , MS Rods
Processes Involved: Cutting, sheet metal working, object fabrication

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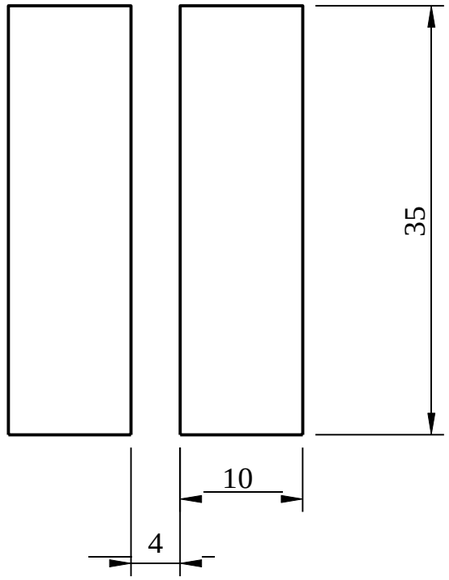
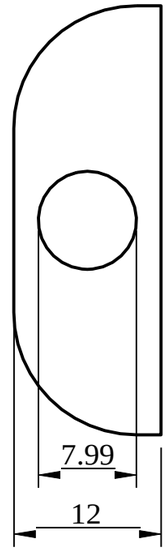
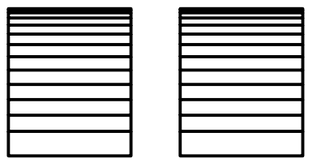
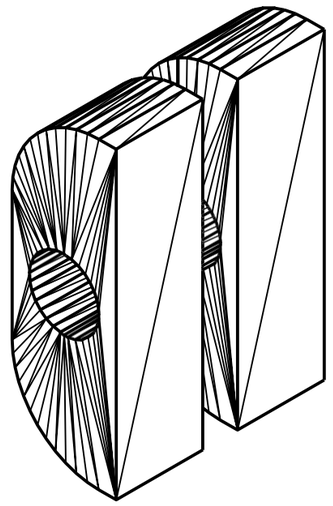
3. Side Support









Material Used : MS Sheet

Processes Involved: Sheet metal formation

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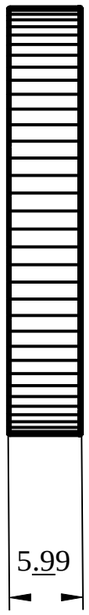
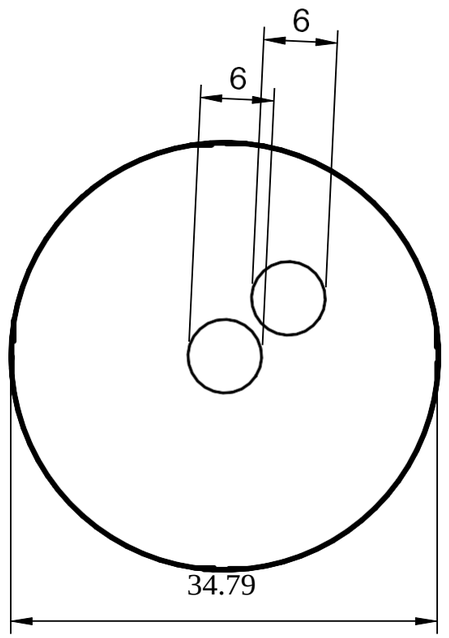
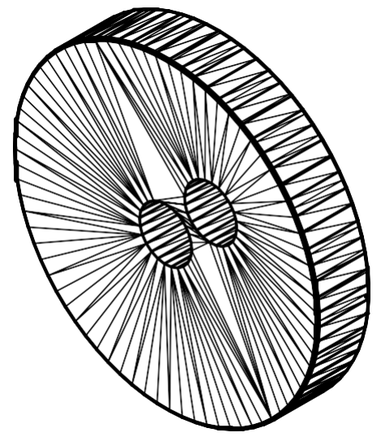
4. Gear







Material Used : Cast Iron
Process involved : Casting

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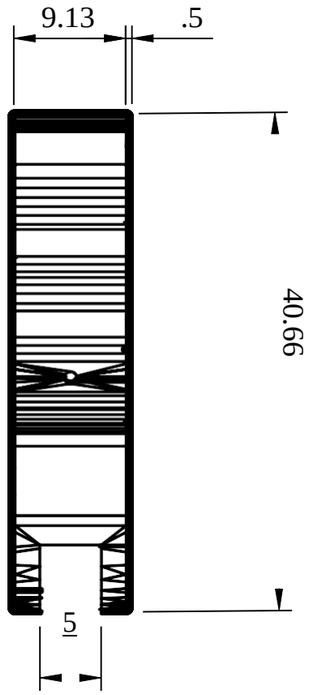
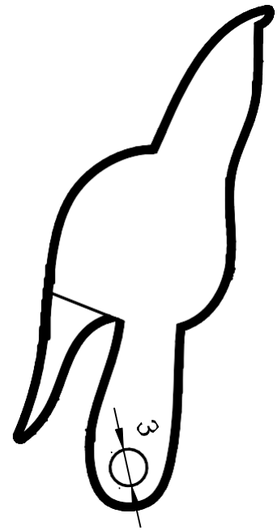
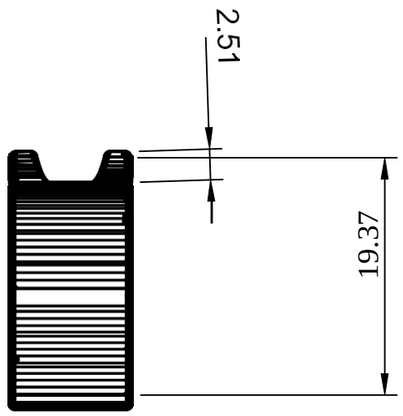
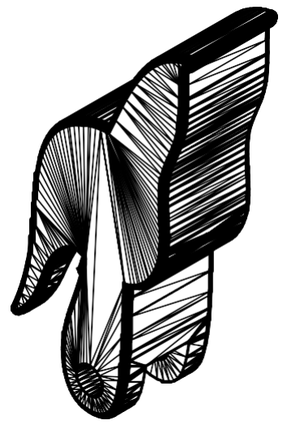


5. Dragon Head







Material Used : MS Sheet
Processes Involved : Object fabrication

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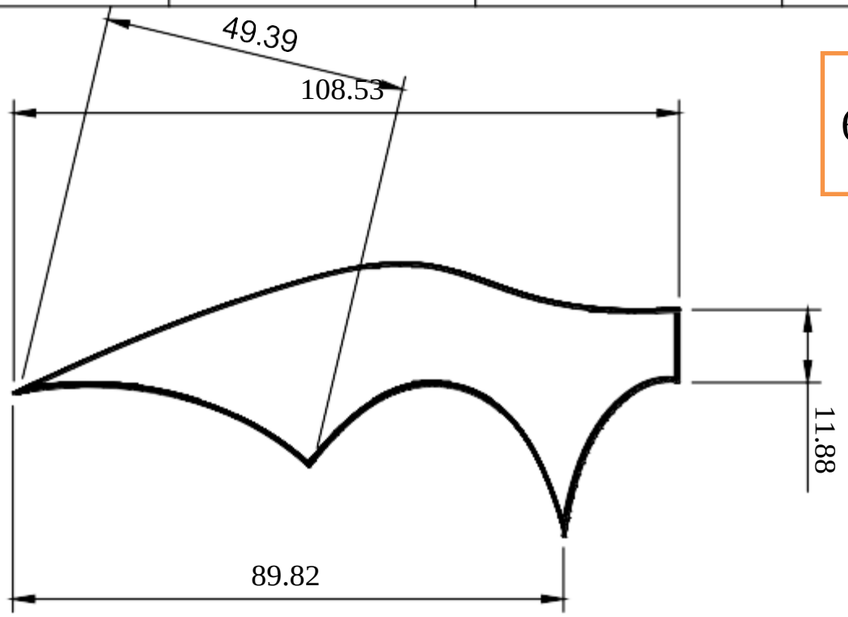
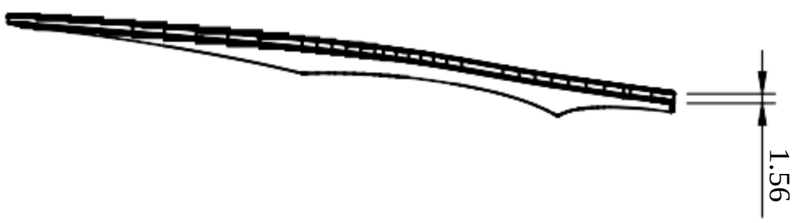
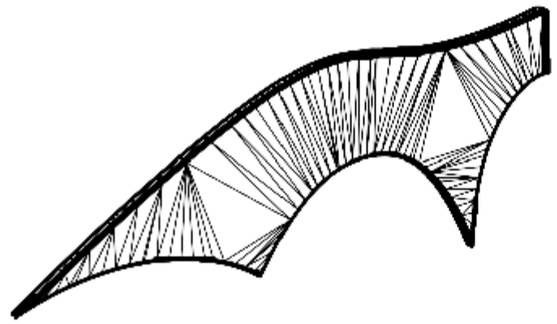
6. Dragon Wing







Material Used : MS Sheet
Processes Involved : Object fabrication, Sheet Metal Formation

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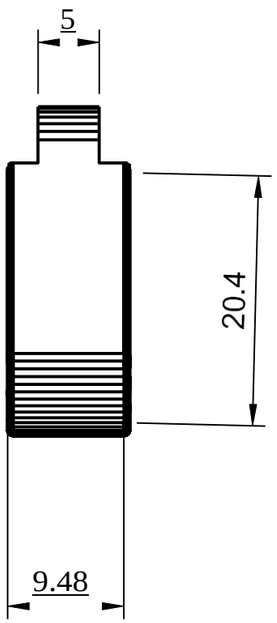
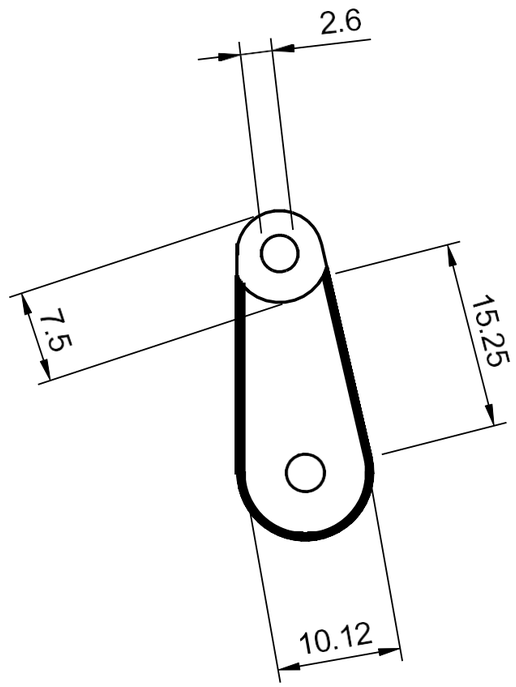
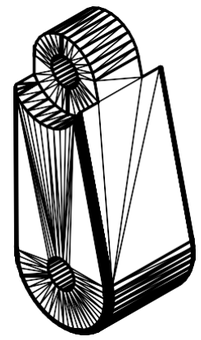
7. Dragon Neck







Material Used : MS Sheet

Processes Involved: object fabrication

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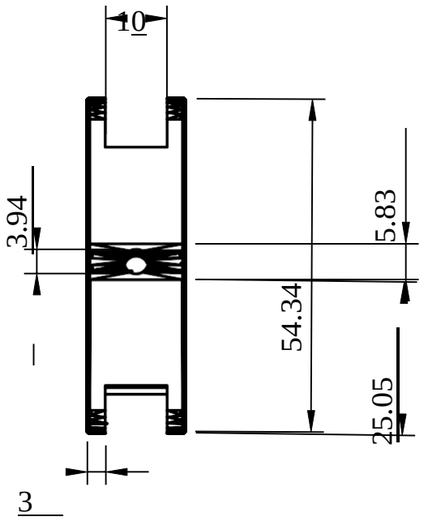
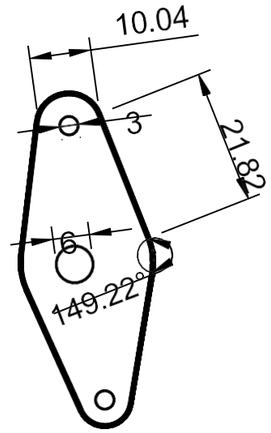
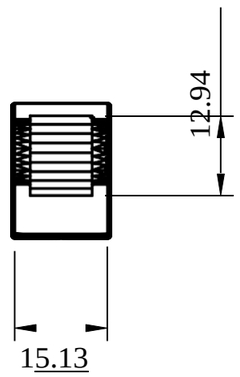
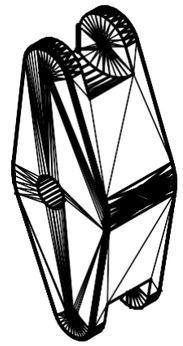
8 . Dragon body









Material Used : Galvanised Iron Sheet, MS Steel
Processes Involved : Sheet Metal Formation, Welding, Brazing

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		Deeksha Rawat 02/02/23	
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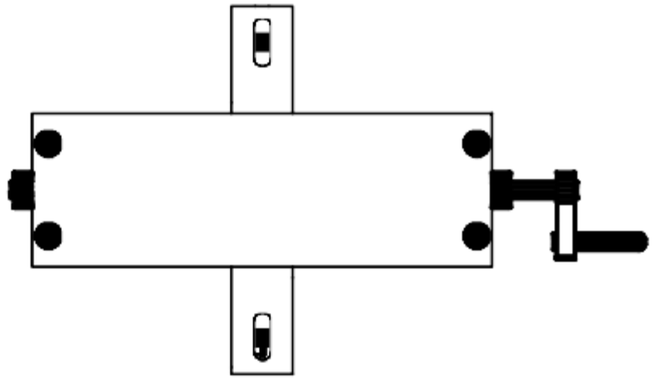
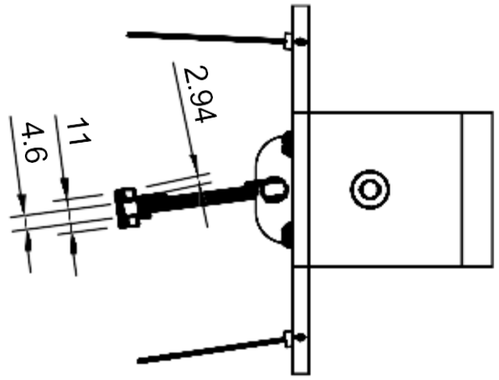
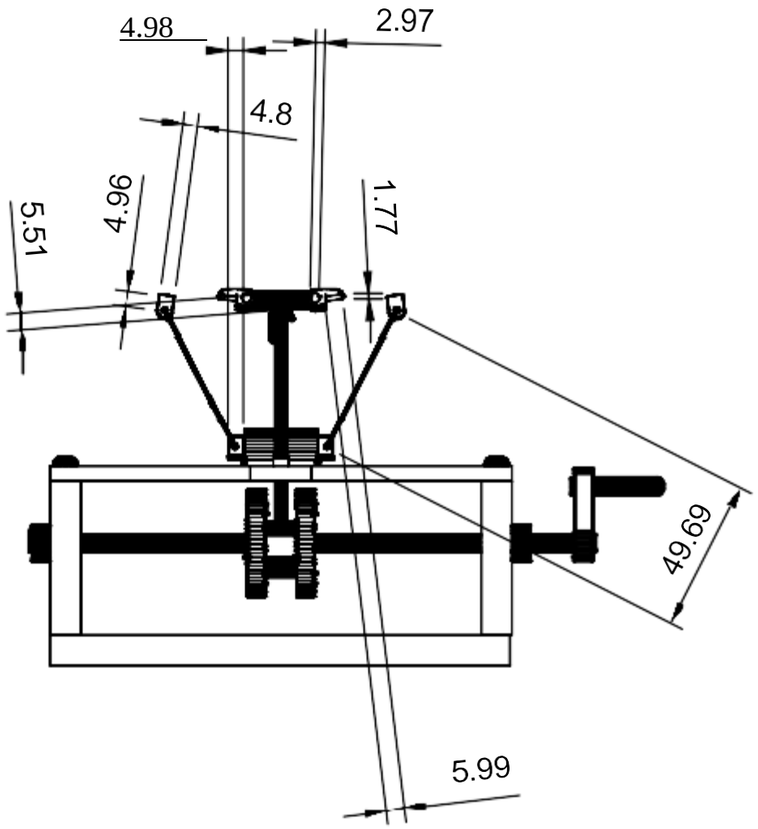
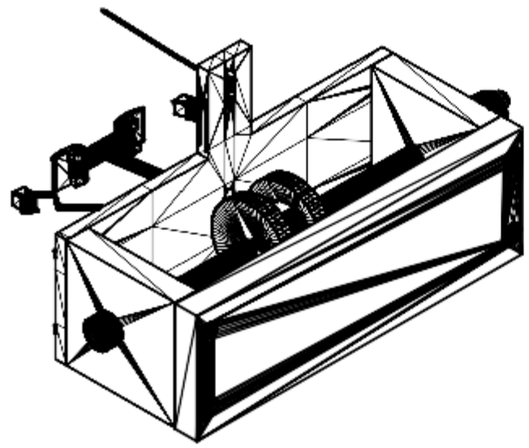
9. Dragon Mount









Material Used : MS steel, Cast Iron
Processes Involved: Brazing, Object fabrication

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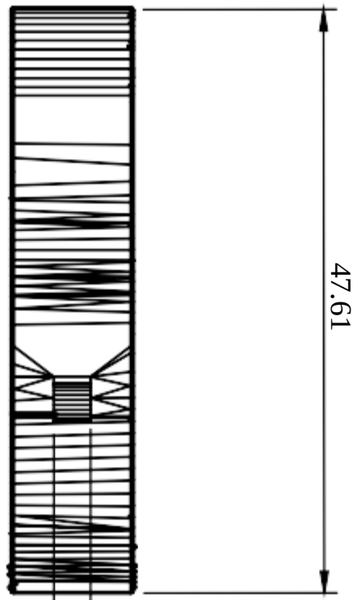
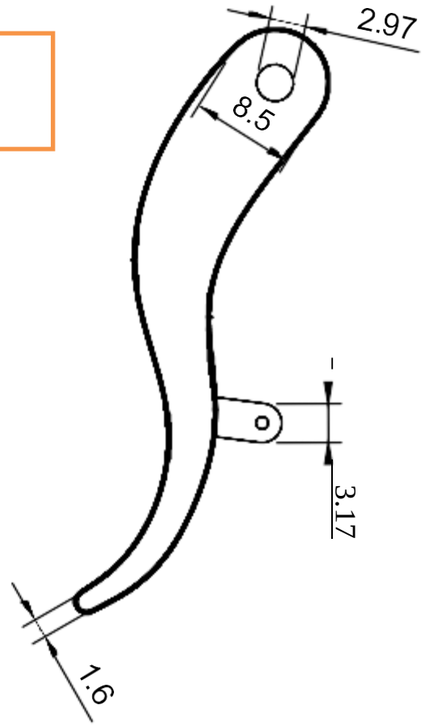
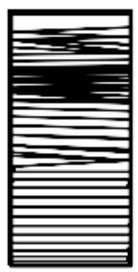
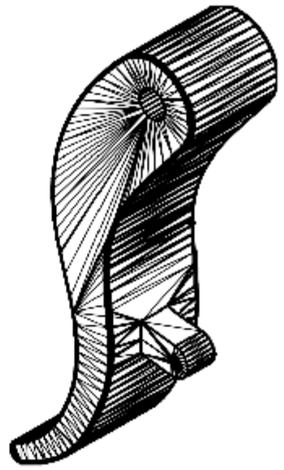
10. Dragon Tail









Material Used : MS Sheet
Processes Involved : Sheet metal formation, Object fabrication, Welding

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WORK DISTRIBUTION

Group Member	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6
Harsh Methwani						
Divyanshu Singh						
Praveen Naik						
Deeksha Rawat						
Deekshansh Vardhan						
Chetanya Bhan						
Harsh Agrawal						
Dishant Sharma						