

# FRANCISCO CEREZO VALVERDE

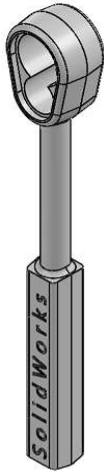
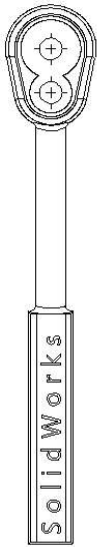
## SOLIDWORKS PORTFOLIO

I am a 3D CAD designer with a strong focus on precision, functionality, and clean aesthetics. This portfolio showcases a selection of my design work, highlighting my skills in 3D modeling, technical detailing, and problem-solving across different projects and applications.

### Index:

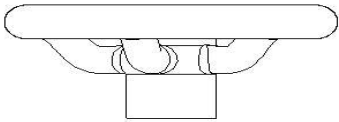
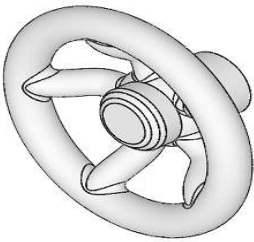
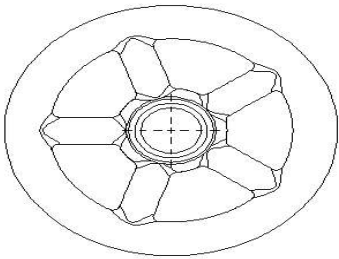
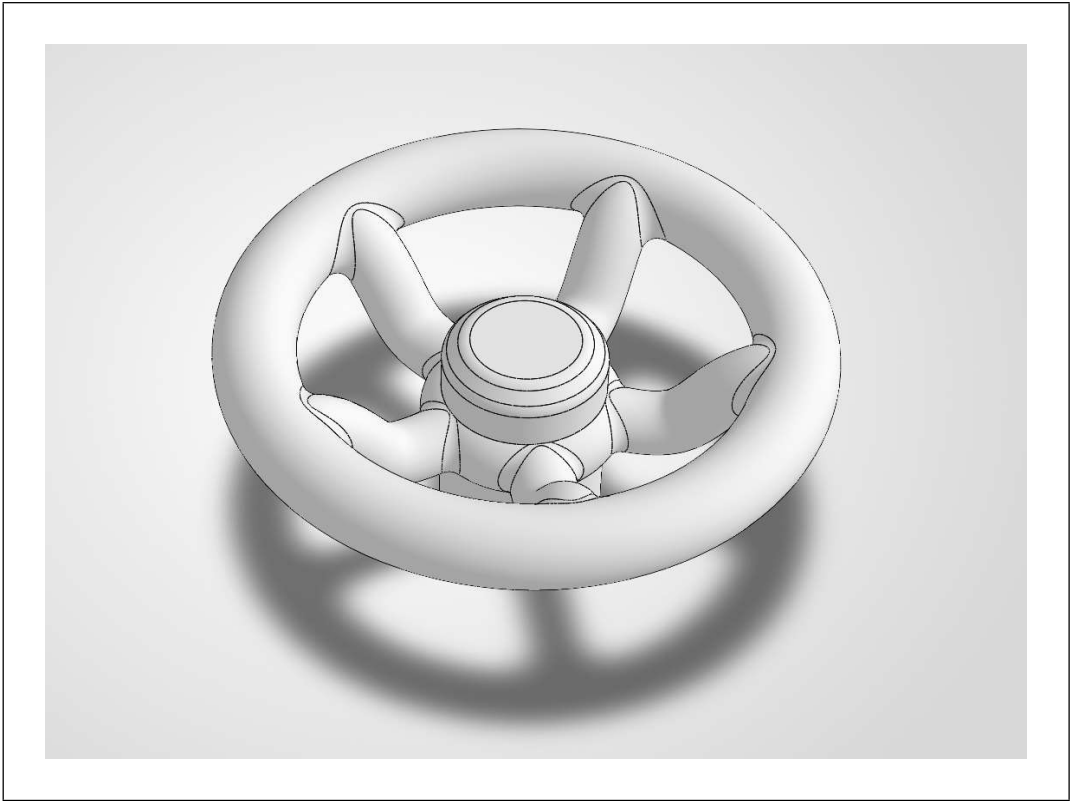
1. Ratchet
2. Hand wheel
3. Assembly from given parts
4. Bluetooth headgear assembly from given and modified parts
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6. Electronics component fan
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11. Assembly from designed parts
12. Wheel from 2D .dxf/.dwg to 3D Model
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RATCHET



|  |  |                             |           |      |        |
|--|--|-----------------------------|-----------|------|--------|
|  |  | UNLESS OTHERWISE SPECIFIED: | NAME      | DATE | TITLE: |
|  |  | DIMENSIONS ARE IN INCHES    | DRAWN     |      |        |
|  |  | TOLERANCES:                 | CHECKED   |      |        |
|  |  | FRACTIONAL: 1               | ENG APPR: |      |        |
|  |  | ANGULAR: EACH 1             |           |      |        |
|  |  | TWO PLACE DECIMAL 1         |           |      |        |

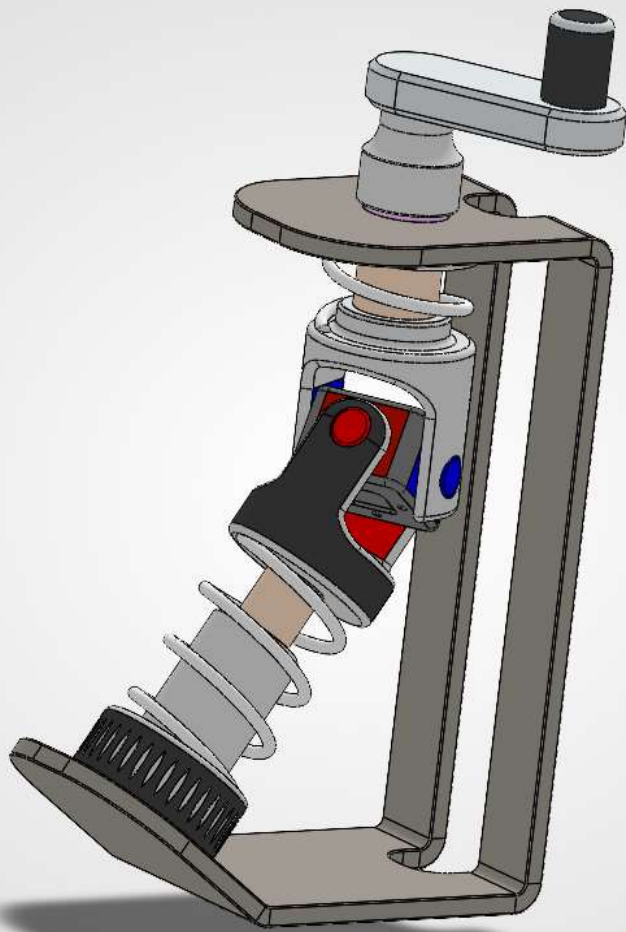
HANDWHEEL



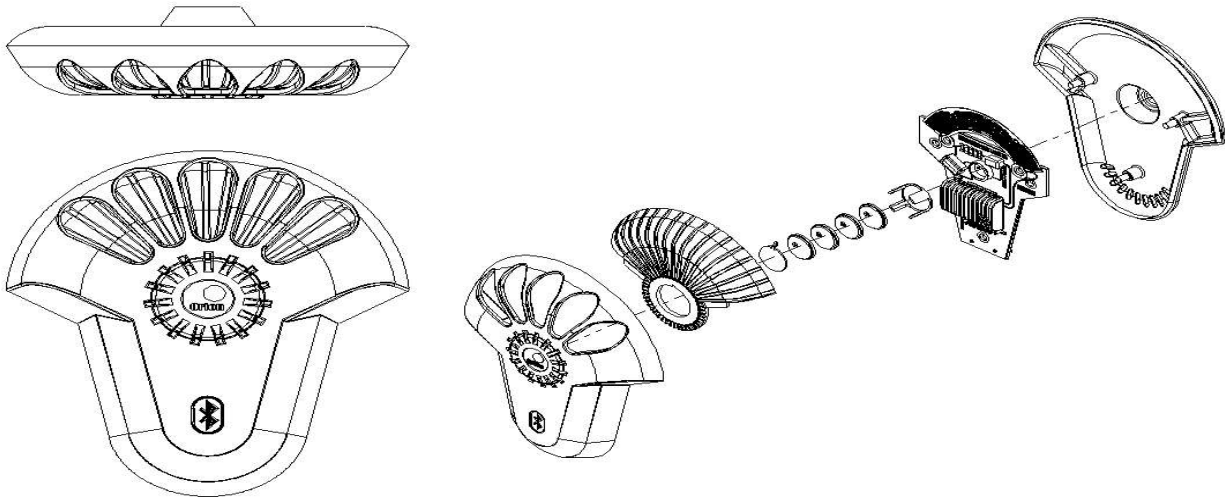
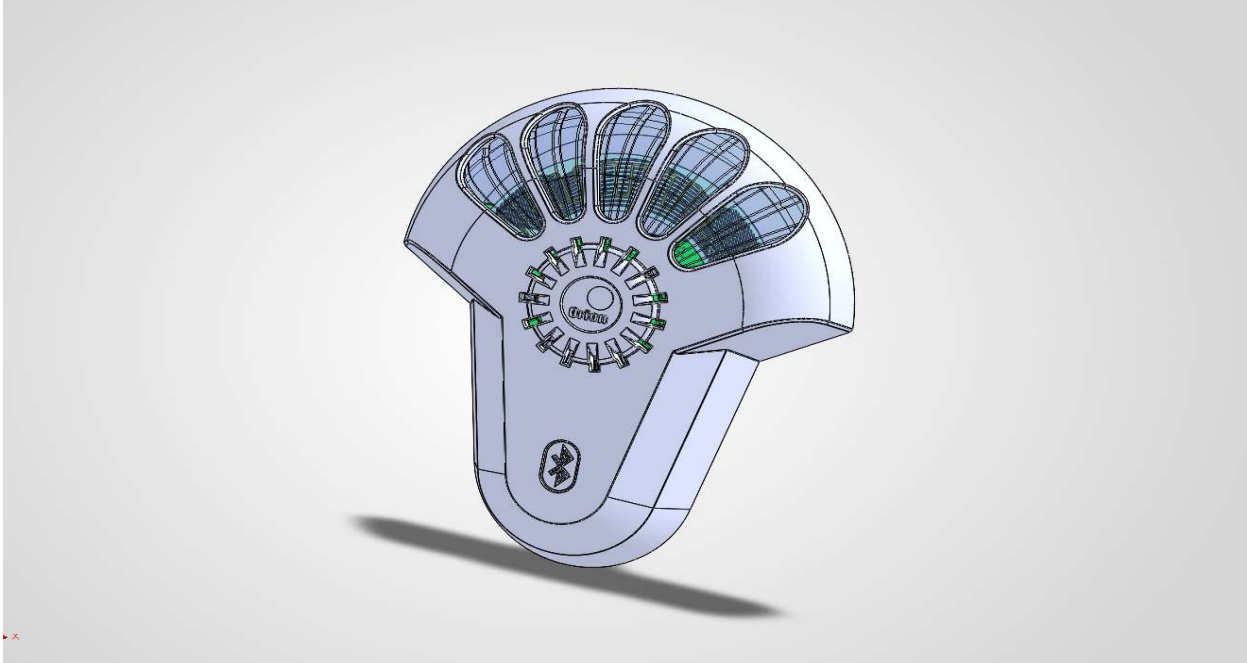
PROPRIETARY AND CONFIDENTIAL  
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|             |  |                                      |  |                      |      |   |
|-------------|--|--------------------------------------|--|----------------------|------|---|
|             |  | UNLESS OTHERWISE SPECIFIED:          |  | NAME                 | DATE | TITLE:                                  |
|             |  | DIMENSIONS ARE IN INCHES             |  | DRAWN                |      |   |
|             |  | TOLERANCES:                          |  | CHECKED              |      |   |
|             |  | FRACTIONAL: $\pm$                    |  | ENG APPR.            |      |   |
|             |  | ANGULAR: BACH $\pm$ BEND $\pm$       |  | MFG APPR.            |      |   |
|             |  | TWO PLACE DECIMAL $\pm$              |  | Q.A.                 |      | SIZE DWG. NO. REV<br><b>A handwheel</b> |
|             |  | THREE PLACE DECIMAL $\pm$            |  | COMMENTS:            |      |   |
|             |  | INTERPRET GEOMETRIC TOLERANCING PER: |  |                      |      |   |
|             |  | MATERIAL                             |  |                      |      | SCALE: 1:5 WEIGHT: SHEET 1 OF 1         |
| NEXT ASSY   |  | USED ON                              |  | FINISH               |      |   |
| APPLICATION |  |                                      |  | DO NOT SCALE DRAWING |      |   |

## ASSEMBLY FROM GIVEN PARTS



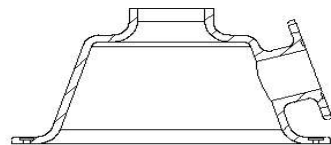
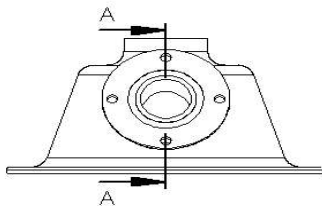
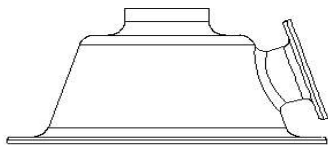
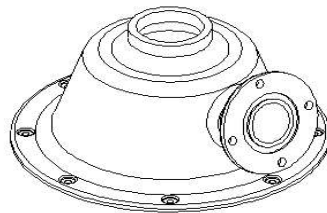
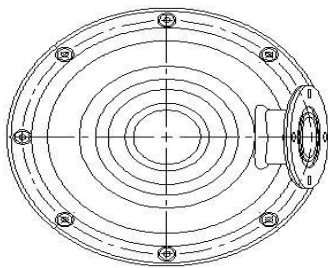
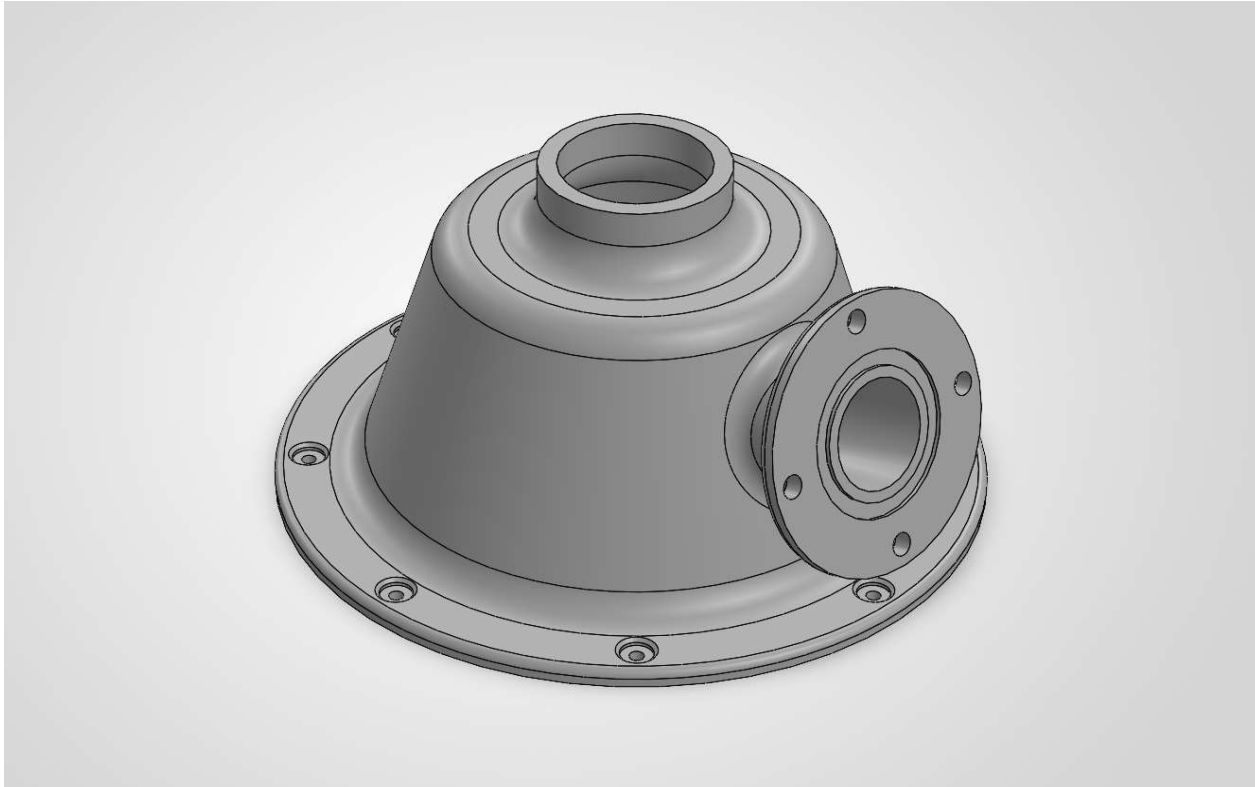
BLUETOOTH HEADGEAR ASSEMBLY FROM GIVEN AND MODIFIED



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|           |         |                             |                      |           |      |                                 |  |
|-----------|---------|-----------------------------|----------------------|-----------|------|---------------------------------|--|
|           |         | UNLESS OTHERWISE SPECIFIED: |                      | NAME      | DATE |                                 |  |
| NEXT ASSY | USED ON | APPLICATION                 | DO NOT SCALE DRAWING | DRAWN     |      | TITLE:                          |  |
|           |         |                             |                      | CHECKED   |      |                                 |  |
|           |         |                             |                      | ENG APPR. |      |                                 |  |
|           |         |                             |                      | MFG APPR. |      |                                 |  |
|           |         |                             |                      | G.A.      |      |                                 |  |
|           |         |                             |                      | COMMENTS: |      | SIZE DWG. NO. REV               |  |
|           |         |                             |                      |           |      | A Assem2                        |  |
|           |         |                             |                      |           |      | SCALE: 1:5 WEIGHT: SHEET 1 OF 1 |  |

PART 5

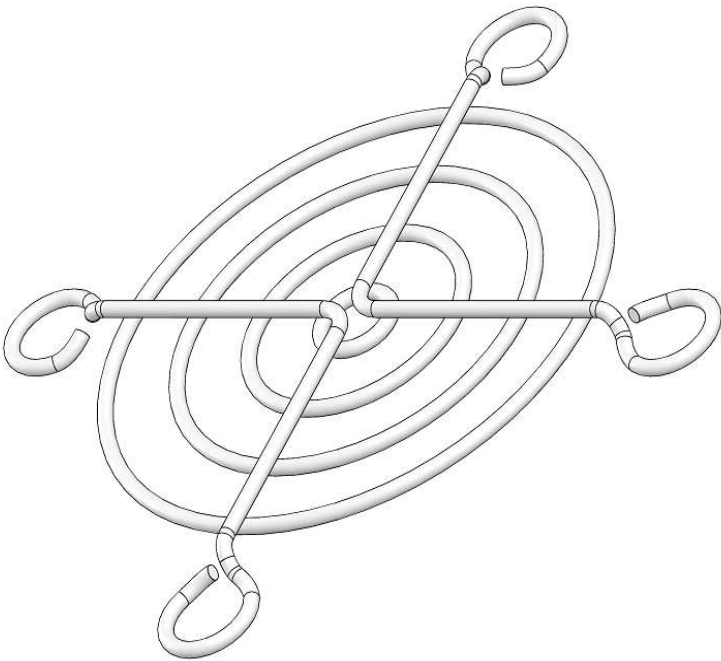


SECTION A-A

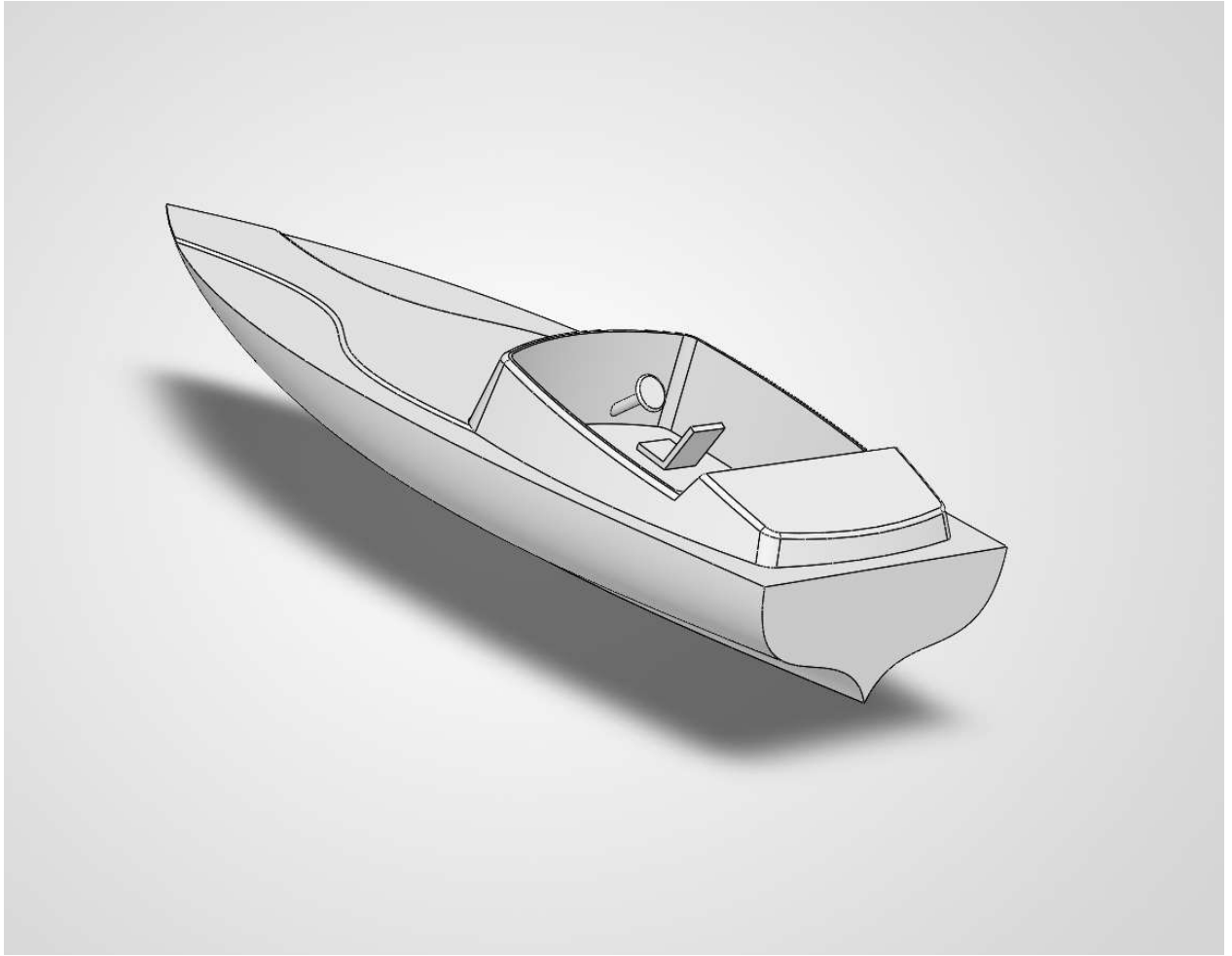
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|  |  | UNLESS OTHERWISE SPECIFIED: |  | NAME      | DATE |        |
|  |  | DIMENSIONS ARE IN INCHES    |  | DRAWN     |      |        |
|  |  | TOLERANCES:                 |  | CHECKED   |      | TITLE: |
|  |  | FRACTIONAL 1                |  | ENG APPR. |      |        |
|  |  | ANGULAR: MACH 1 BEND 1      |  | MFG APPR. |      |        |
|  |  | TWO PLACE DECIMAL 2         |  |           |      |        |
|  |  | THREE PLACE DECIMAL 1       |  |           |      |        |
|  |  | INTERPRET GEOMETRIC         |  |           |      |        |
|  |  | TOLERANCING PER:            |  |           |      |        |
|  |  | .....                       |  | COMMENTS: |      |        |

ELECTONICS COMPONENT FAN

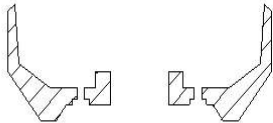


# BOAT

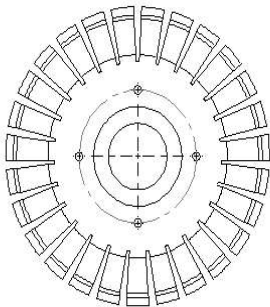
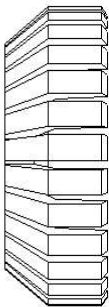
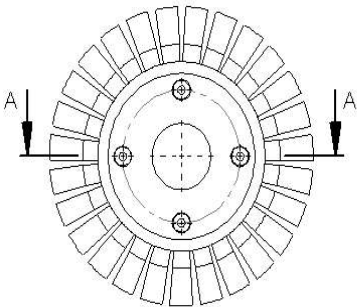




TURBINE FILTER

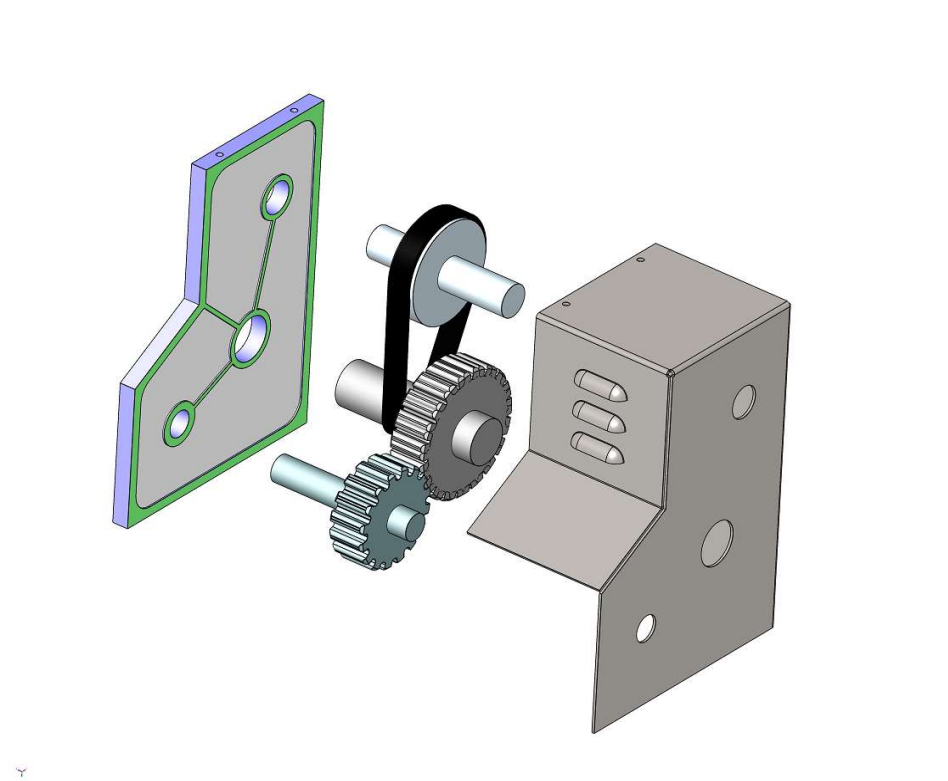
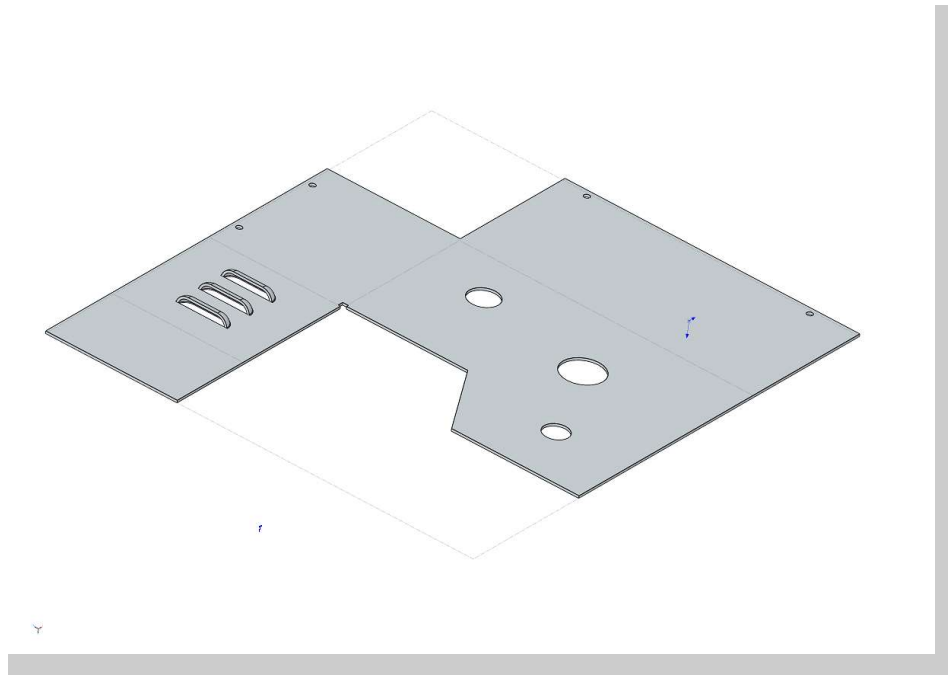


SECTION A-A

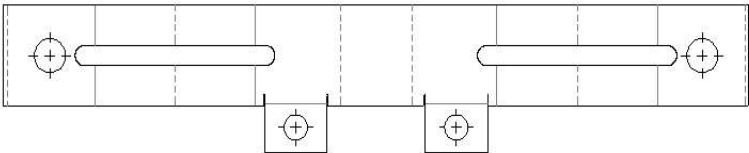
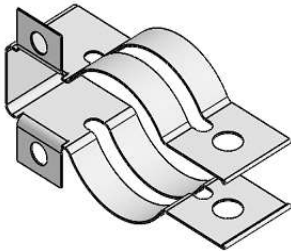
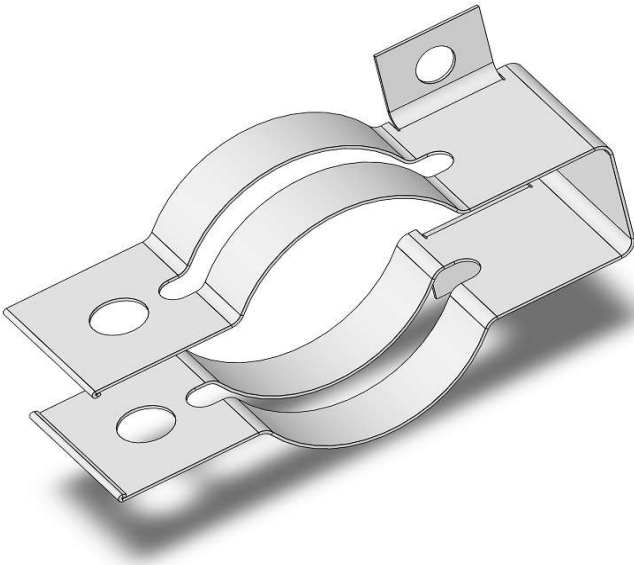


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|  |  | UNLESS OTHERWISE SPECIFIED: | NAME      | DATE |        |
|  |  | DIMENSIONS ARE IN INCHES    | DRAWN     |      |        |
|  |  | TOLERANCES:                 | CHECKED   |      | TITLE: |
|  |  | FEACTIOIAL: 1               | ENG APPR. |      |        |
|  |  | ANGULAR: MACH 1 BEND 1      |           |      |        |
|  |  | TWO PLACE DECIMAL 1         |           |      |        |

## METAL SHEET COVER

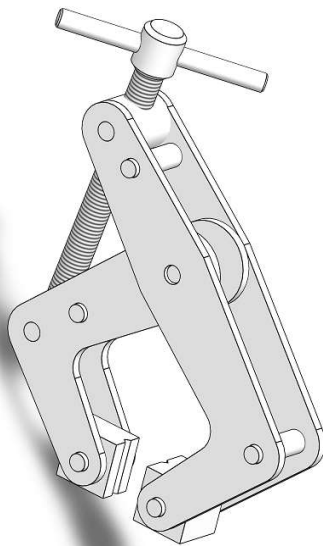


METAL SHEET PART

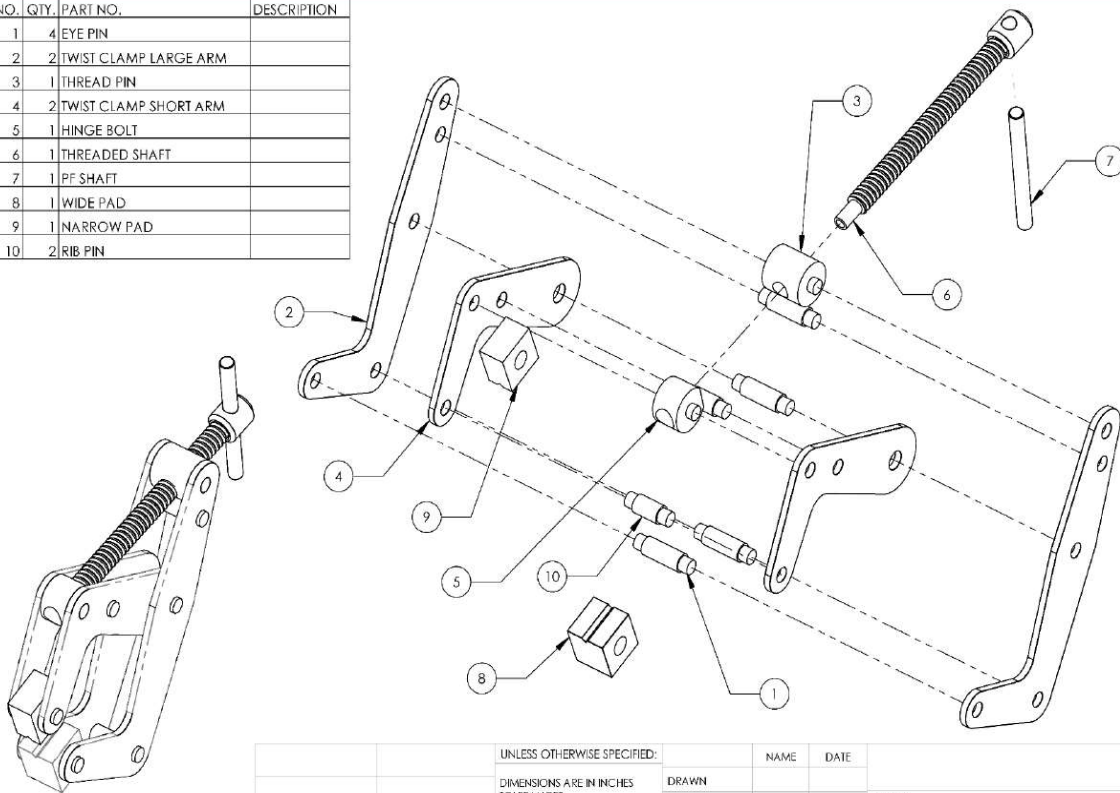


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|  |  | TOLERANCES:                    | CHECKED   |      |      |        |
|  |  | FRACTIONAL: $\pm$              | ENG APPR. |      |      |        |
|  |  | ANGULAR: MACH $\pm$ BEND $\pm$ |           |      |      |        |
|  |  | TWO PLACE DECIMAL $\pm$        |           |      |      |        |

ASSEMBLY FROM DESIGNED PARTS

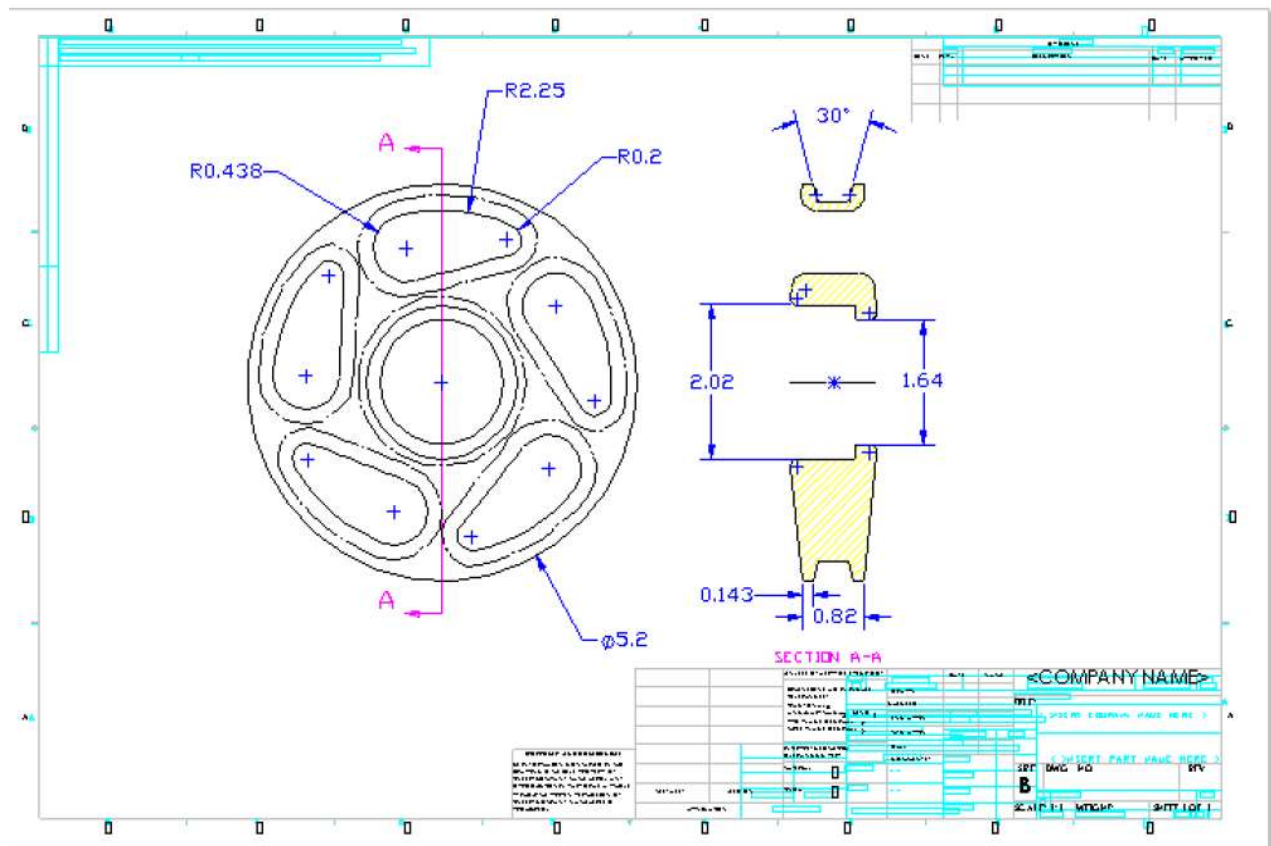
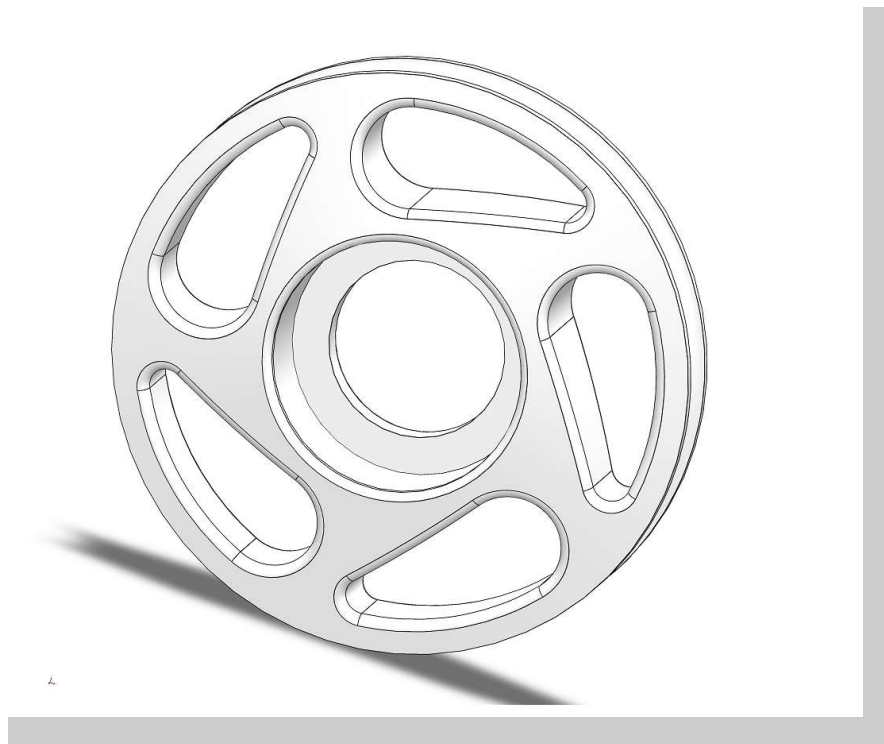


| ITEM NO. | QTY. | PART NO.              | DESCRIPTION |
|----------|------|-----------------------|-------------|
| 1        | 4    | EYE PIN               |             |
| 2        | 2    | TWIST CLAMP LARGE ARM |             |
| 3        | 1    | THREAD PIN            |             |
| 4        | 2    | TWIST CLAMP SHORT ARM |             |
| 5        | 1    | HINGE BOLT            |             |
| 6        | 1    | THREADED SHAFT        |             |
| 7        | 1    | PF SHAFT              |             |
| 8        | 1    | WIDE PAD              |             |
| 9        | 1    | NARROW PAD            |             |
| 10       | 2    | RIB PIN               |             |

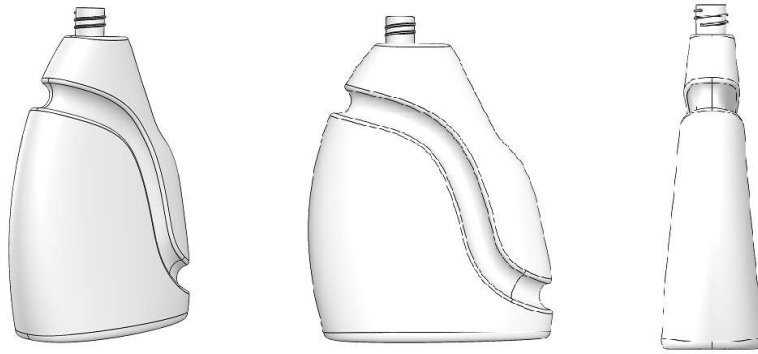


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|--|--|-----------------------------|---------|------|------|--------|
|  |  | UNLESS OTHERWISE SPECIFIED: |         | NAME | DATE |        |
|  |  | DIMENSIONS ARE IN INCHES    | DRAWN   |      |      |        |
|  |  | TOLERANCES:                 | CHECKED |      |      | TITLE: |
|  |  | FRACTIONAL ±                |         |      |      |        |

## WHEEL FROM 2D DXF/DWG TO 3D MODEL



## CURVED SURFACES BOTTLE WITH HELIX AT TOP



## ICEBOX CHILLER

