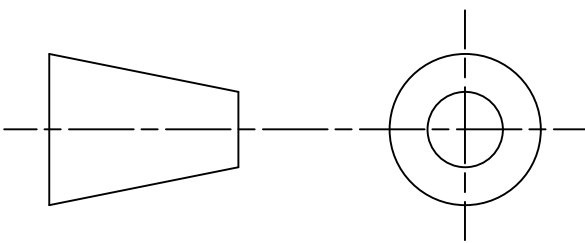
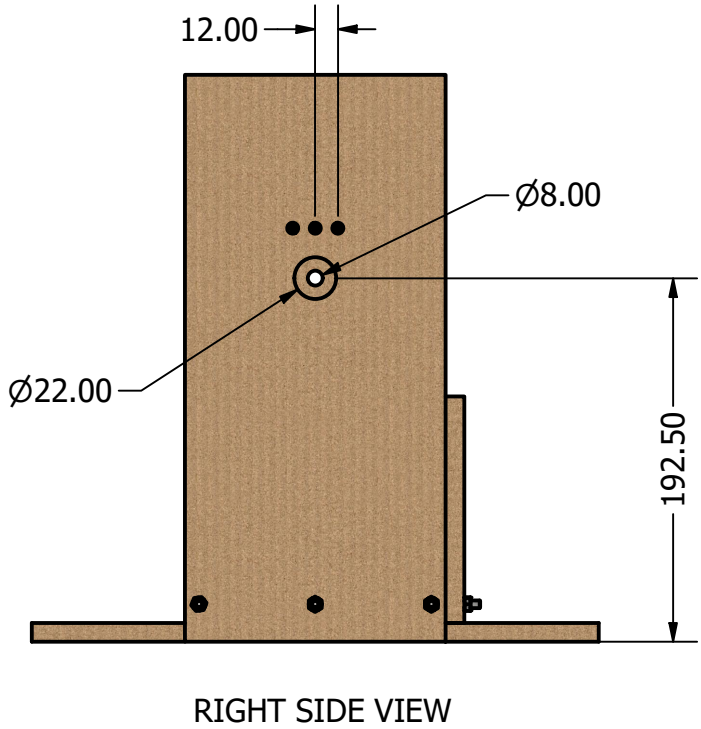
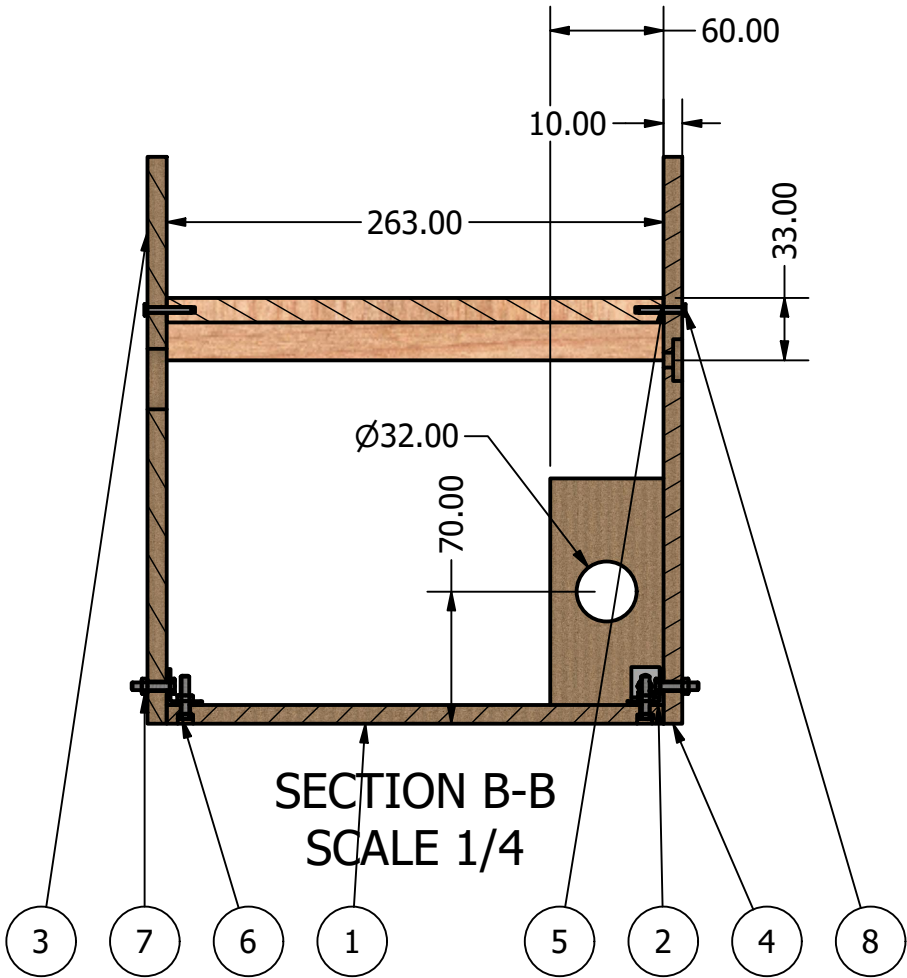
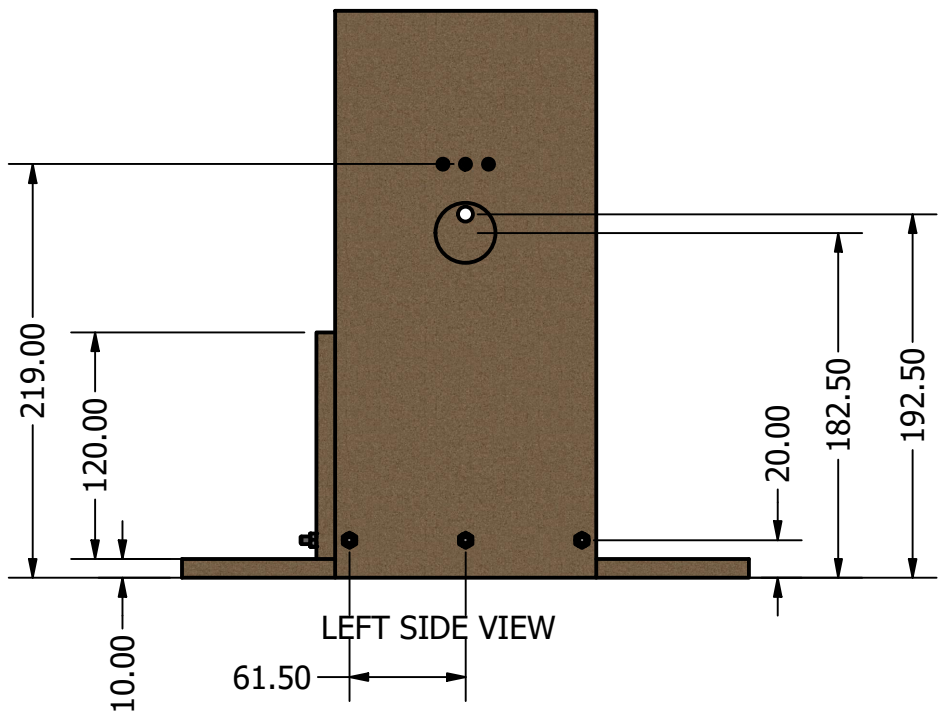
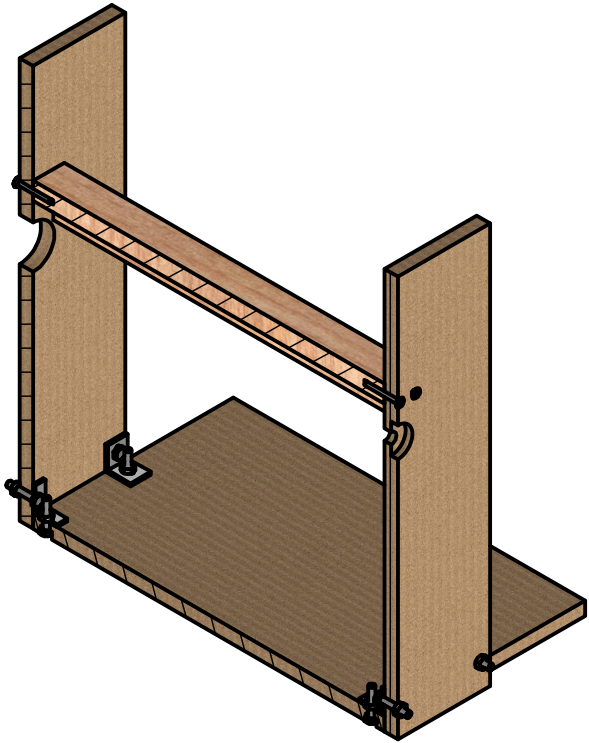
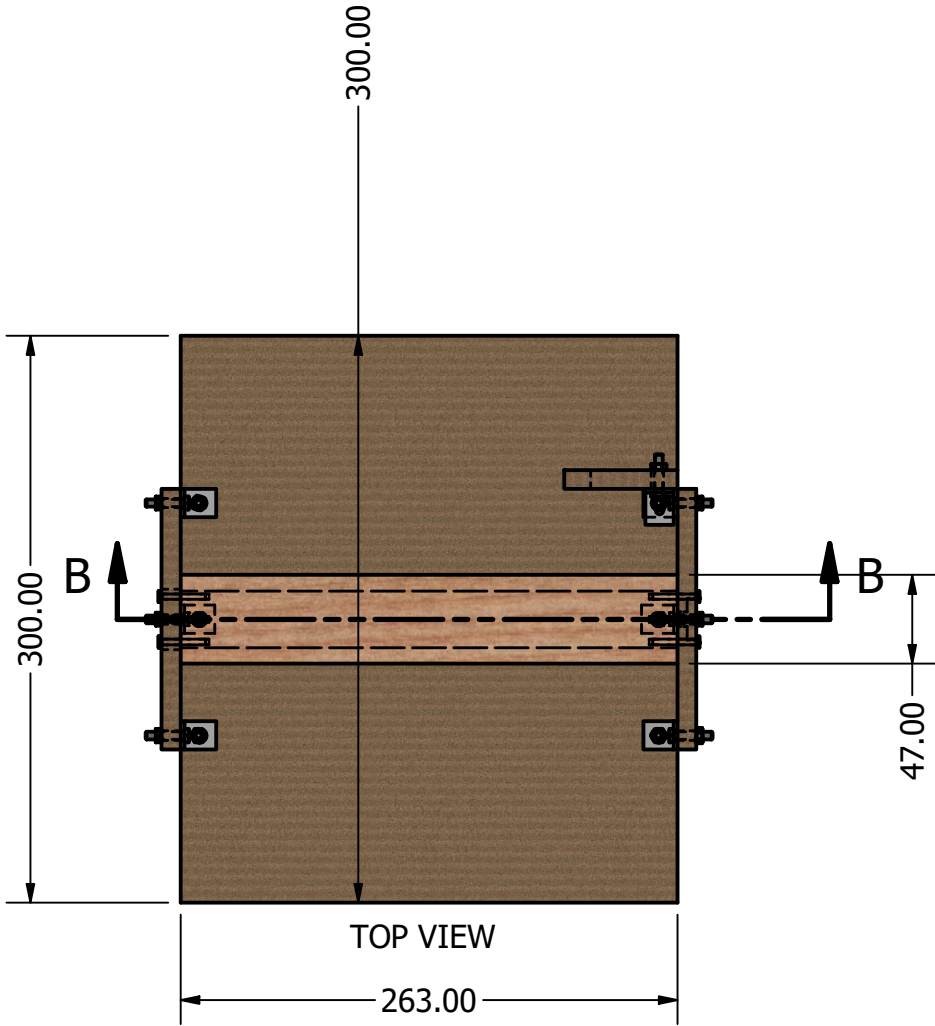
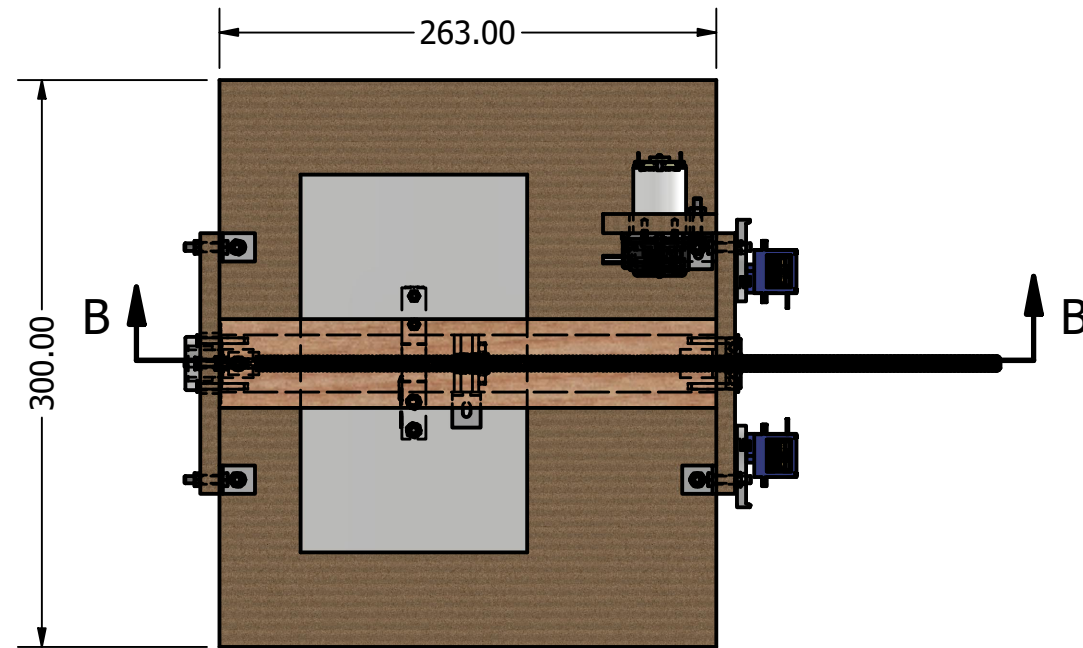
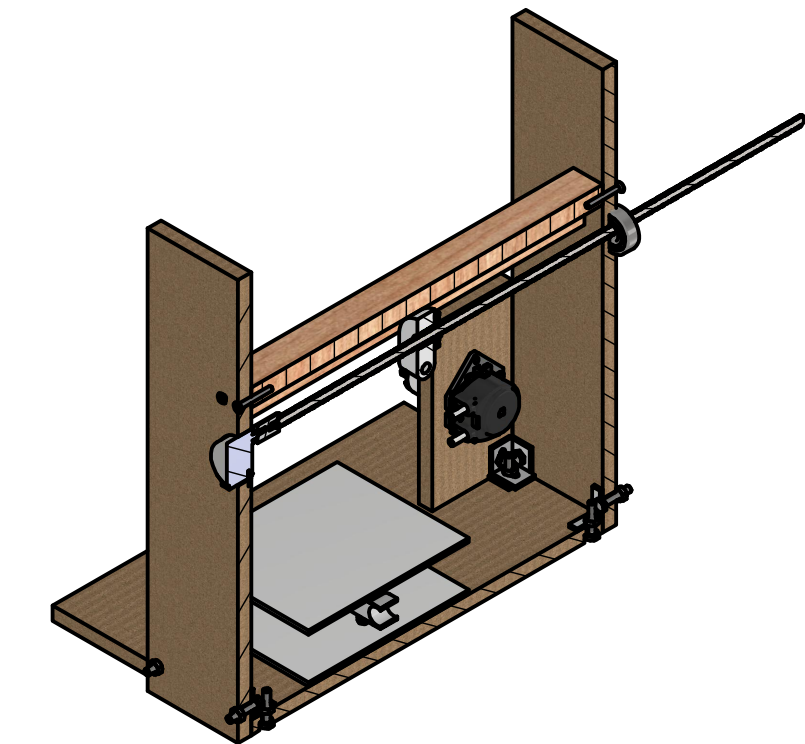


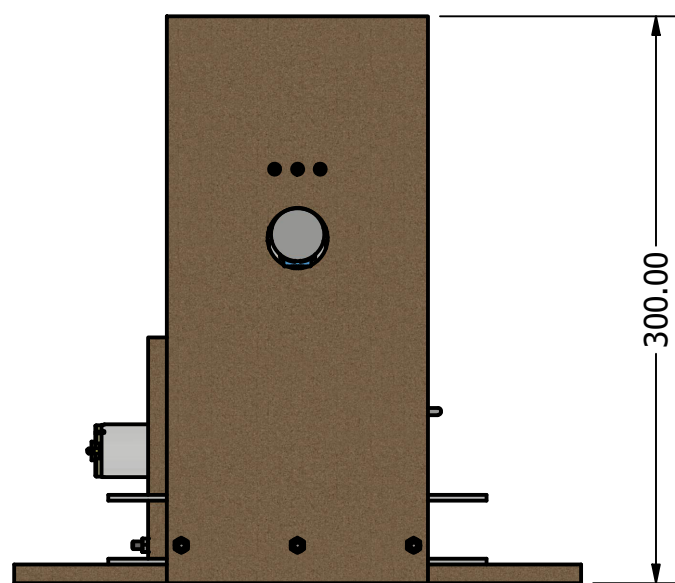
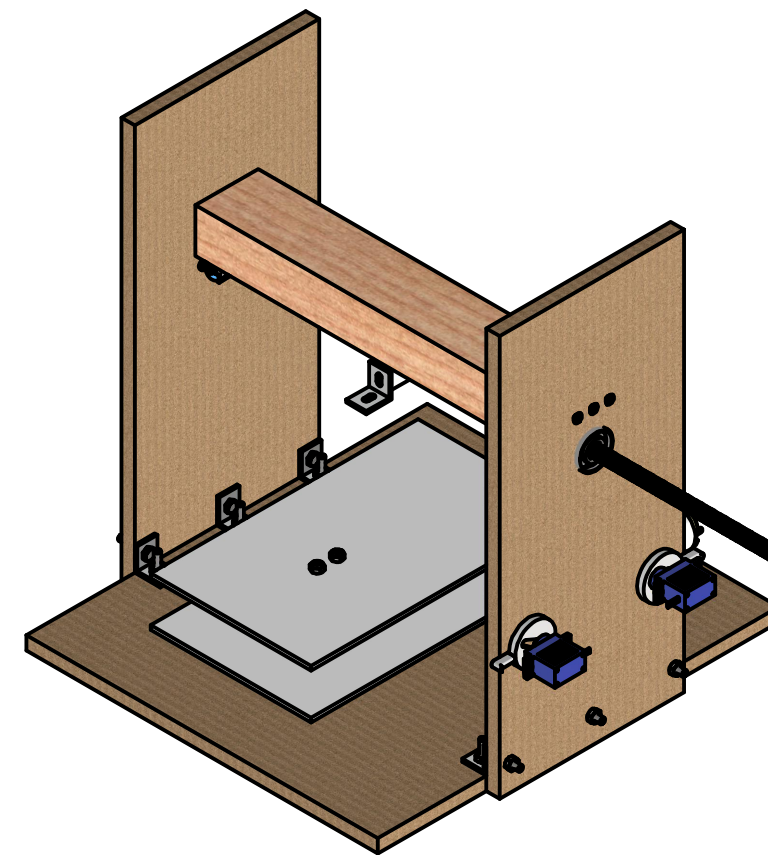
| PARTS LIST | | | | | |
|------------|-----|---------------------|---|-------------------------------|--|
| ITEM | QTY | PART NUMBER | DESCRIPTION | MATERIAL | |
| 1 | 1 | Base | MDF board with 4mm through holes and 8mm counter holes to mount other parts | MDF Medium Density Fiberboard | |
| 2 | 6 | lclamps | clamps to fix the frame | Aluminum 6061 | |
| 3 | 1 | motor mount board | MDF board used to mount motor and driver | MDF Medium Density Fiberboard | |
| 4 | 1 | Bearing mount board | MDF board used to mount the bearing and pinch valves | MDF Medium Density Fiberboard | |
| 5 | 1 | Rail | Brich wood block machined to guide the spouts along the lead screw | Wood (Birch) | |
| 6 | 13 | ISO 4017 - M4 x 20 | Hexagon head screws-Product grade A and B | Stainless Steel, 440C | |
| 7 | 13 | AS 1112 - M4 Type 5 | ISO metric hexagon nuts, including thin nuts, slotted nuts and castle nuts | Steel, Mild | |
| 8 | 6 | SM 3x25 | Socket Head Countersunk Screw | Steel, Mild | |
| 9 | 1 | pump mount | the peristaltic pump is mounted on this MDF board | MDF Medium Density Fiberboard | |
| 10 | 1 | lclamps | Lclamps are used to mount the MDF boards and fix them | Aluminum 6061 | |



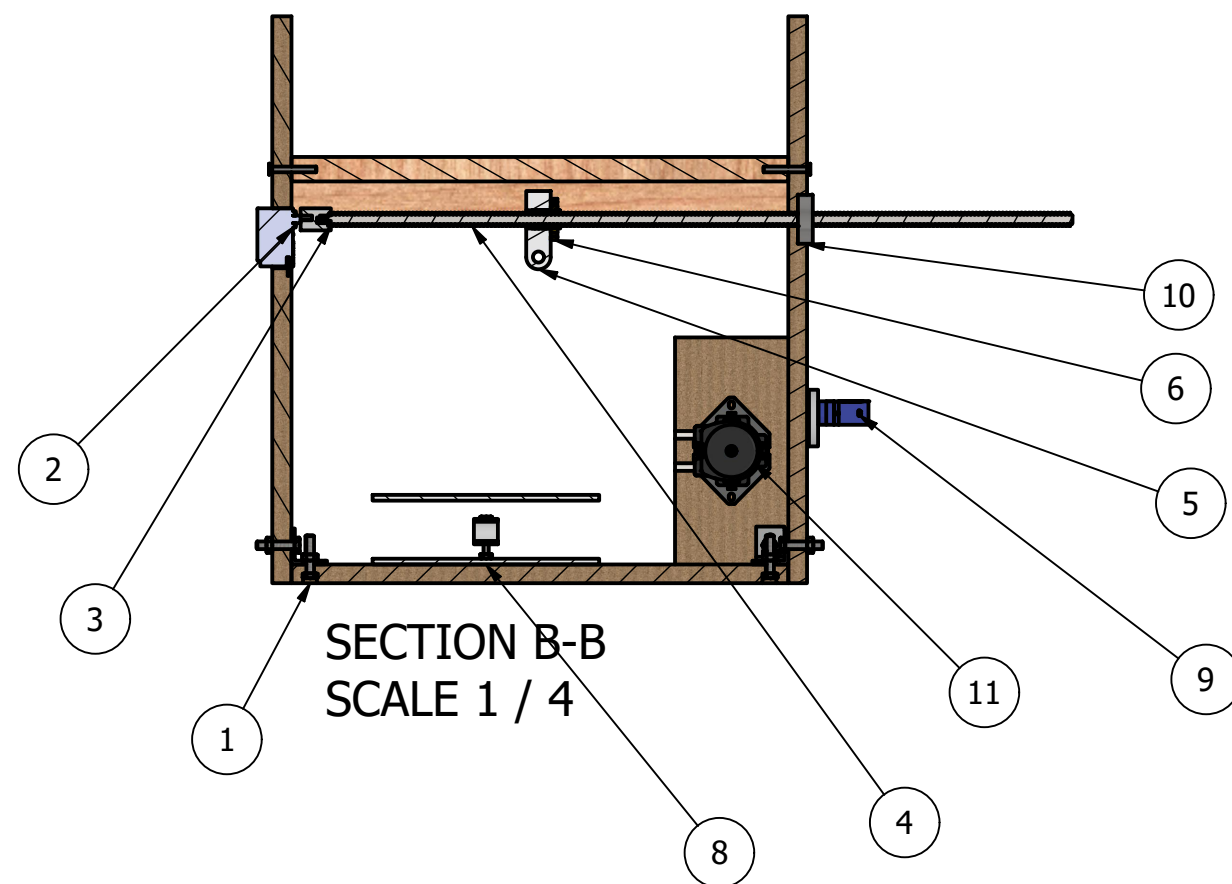
| | | | | |
|---------------------|------------|--|--------|--------------|
| DRAWN Amit Saraf | 10/29/2024 | Washing Machine Bors 2.0 TW-LAM-009 | | |
| SCALE 1/4 | 1/4 | | | |
| QA | | MECHANICAL FRAME | | |
| MFG | | | | |
| APPROVED | | | | |
| | | SIZE A2 | DWG NO | REV |
| | | SCALE 1/4 | | SHEET 1 OF 1 |



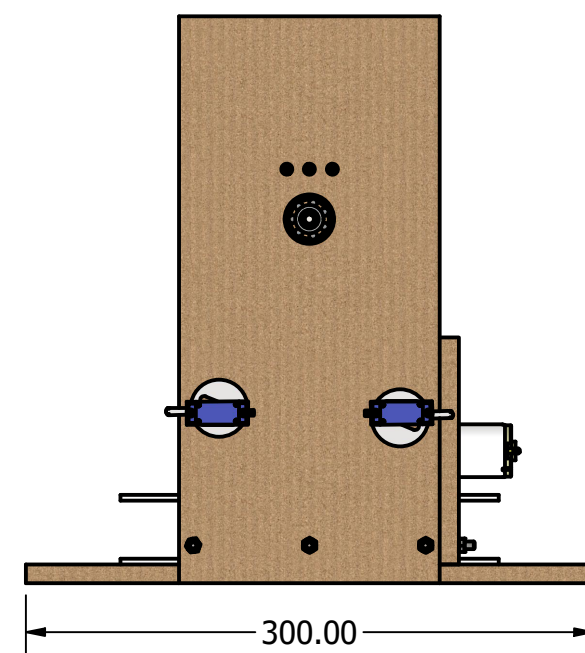
TOP VIEW



LEFT SIDE VIEW

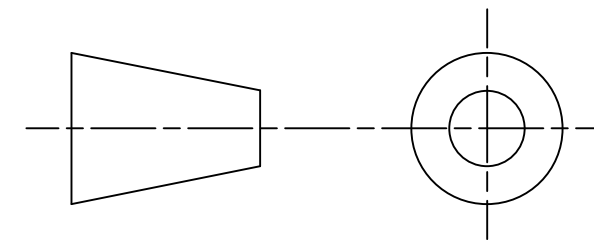


SECTION B-B
SCALE 1 / 4



RIGHT SIDE VIEW

| PARTS LIST | | | | |
|------------|-----|-------------------------------------|---|-----------------|
| ITEM | QTY | PART NUMBER | DESCRIPTION | MATERIAL |
| 1 | 1 | Mechanical frame subassembly | MDF and wood components fixed to make the frame | |
| 2 | 1 | 28BYJ-48_Stepper | Unipolar Stepper motor | Electronics |
| 3 | 1 | Coupler | Aluminium coupler between motor and lead screw | Aluminium 6061 |
| 4 | 1 | Trapezoidal lead screw tr8x8-4 | 8mm dia lead screw for linear actuation | Stainless steel |
| 5 | 1 | pipe mount | 3D ABS printed mount for spout | ABS Plastic |
| 6 | 1 | LeadScrew Nut 8mm x 2mmPitch | Lead screw nut used to mount the spout and linear actuation along lead screw | Brass |
| 7 | 1 | BS 3692 - M4 | Precision hexagon nuts | Steel, Mild |
| 8 | 1 | 1Kg Load cell | Load cell to measure the weight of the cups | Electronics |
| 9 | 2 | pinch valves | Valves to close differnt coloured liquids | Electronics |
| 10 | 1 | BS 292: Part 1 - 7000 - 10 x 26 x 8 | Rolling bearings: ball bearings cylindrical and spherical roller bearings- Specification for dimensions of ball bearings, cylindrical and spherical roller bearings | Steel, Mild |
| 11 | 1 | Adafruit peristaltic pump assembly | peristaltic pump is used to pump the liquids to the spout | Electronics |
| 12 | 1 | lclamp | L clamp is put on the spout to point into the cup | Aluminum 6061 |



| | | | | |
|---------------|------------|--|--------------------------|-----|
| DRAWN Amit | 28/10/2024 | Washing Machine Bros 2.0 TW-LAM-009 | | |
| SCALE QA | 1/4 | TITLE | | |
| MFG | | LIQUID DISPENSER ASSEMBLY | | |
| APPROVED | | | | |
| | | SIZE A2 | DWG NO Final assembly | REV |
| | | SCALE 1/4 | SHEET 1 OF 1 | |