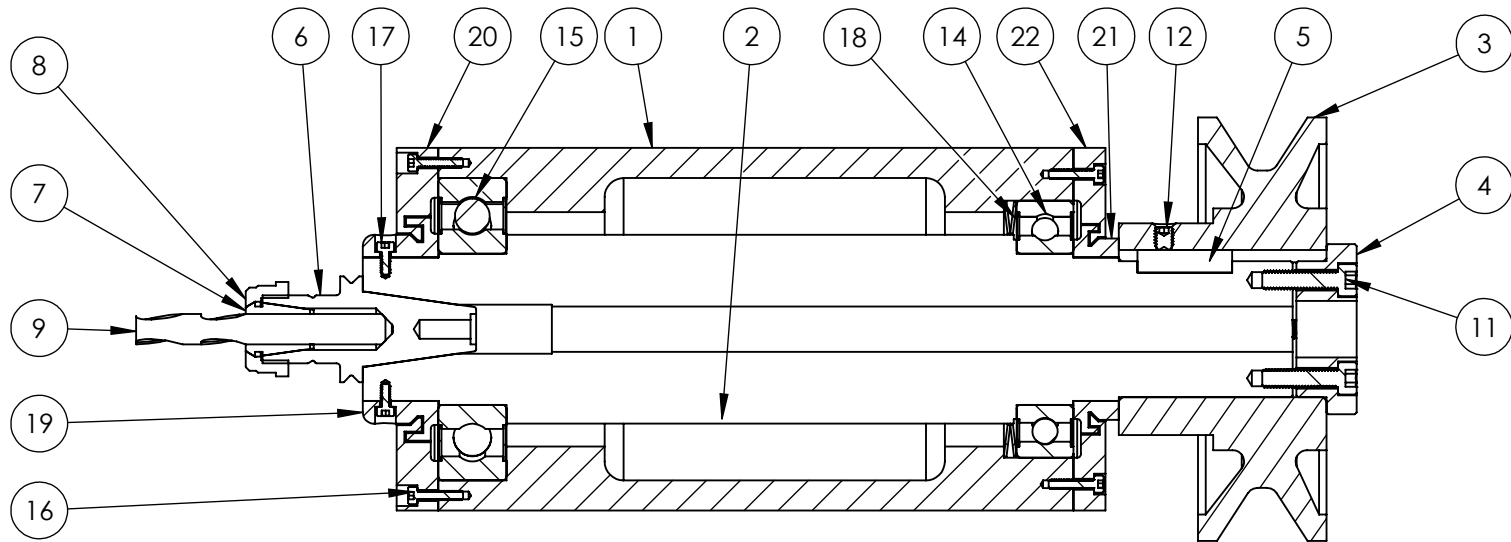
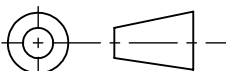


| ITEM NO. | PART NUMBER | DESCRIPTION                              | QTY. |
|----------|-------------|--|------|
| 1        | PR2-001     | Housing                                  | 1    |
| 2        | PR2-002     | Shaft                                    | 1    |
| 3        | PR2-003     | Pulley                                   | 1    |
| 4        | PR2-004     | Pulley cover                             | 1    |
| 5        | PR2-005     | Rounded machine key (McMaster Carr)      | 1    |
| 6        | PR2-005     | Tool holder                              | 1    |
| 7        | PR2-006     | Collet                                   | 1    |
| 8        | PR2-007     | Clamp nut                                | 1    |
| 9        | PR2-008     | End mill                                 | 1    |
| 10       | PR2-009     | Driving block                            | 2    |
| 11       | PR2-021     | M5x0.8 Stainless Steel Socket Head Screw | 4    |

| ITEM NO. | PART NUMBER  | DESCRIPTION                                 | QTY. |
|----------|--------------|---|------|
| 12       | PR2-022      | Alloy Steel Cup-Point Set Screw             | 1    |
| 13       | PR2-023      | M2.5x0.45 Stainless Steel Socket Head Screw | 2    |
| 14       | 6008ZZ       | Deep-groove ball bearing B                  | 1    |
| 15       | 6208ZZ       | Deep-groove ball bearing A                  | 1    |
| 16       | 91292A016    | 18-8 Stainless Steel Socket Head Screw      | 8    |
| 17       | 91292A010    | 18-8 Stainless Steel Socket Head Screw      | 2    |
| 18       | 94065K162    | Belleville Disc Springs                     | 2    |
| 19       | Inside Seal  | Inner labyrinth seal for bearing A          | 1    |
| 20       | Outside Seal | Outer labyrinth seal for bearing A          | 1    |
| 21       | B_Inside     | Inner labyrinth seal for bearing B          | 1    |
| 22       | B_Outside    | Outer labyrinth seal for bearing B          | 1    |

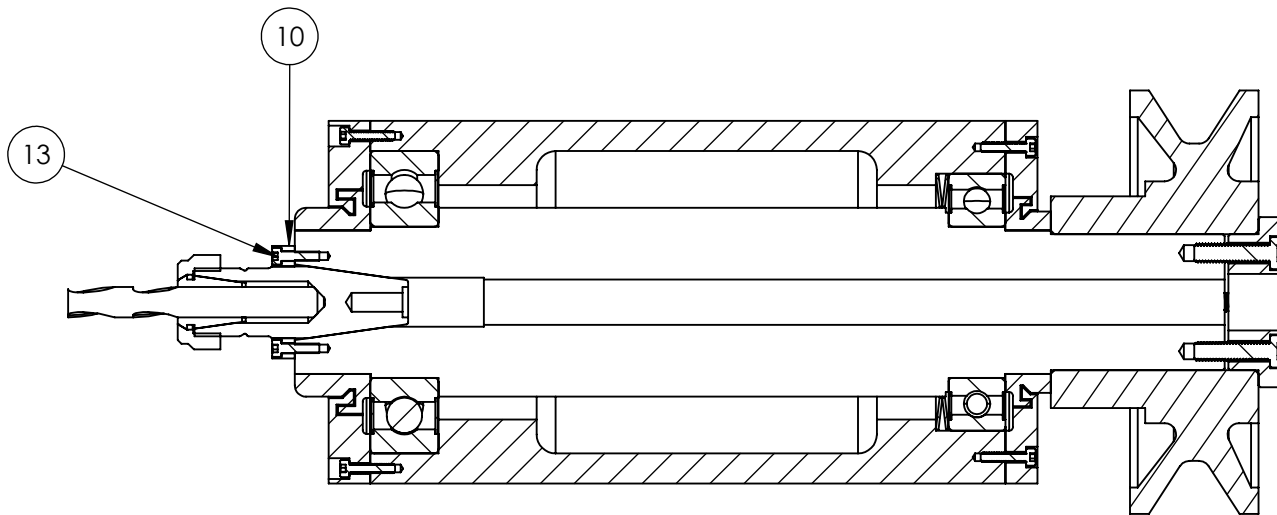


CROSS SECTION - FRONT  
SCALE 1 : 2

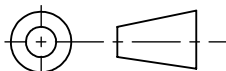
|   |  |         |  |
|---|--|---------|--|
| ALL DIMENSIONS ARE<br>IN MILLIMETERS UNLESS<br>OTHERWISE SPECIFIED<br><br>LINEAR TOLERANCE ± 0.15<br>ANGULAR TOLERANCE ± 0.1° | Approved by  |         | University of<br>Waterloo<br><b>MTE322</b> |
|   | Created by<br>Alexander Jones                      |         |  |
|   | DATE: 2022-12-02                                   |         |  |
| DO NOT SCALE PRINT  | Description<br>Table top spindle ass'y, base model |         |  |
| THIRD ANGLE PROJECTION<br>               | SIZE<br>Letter                                     | PART NO | REV  |
|   | SCALE: 1:2   | WEIGHT: | SHEET 1 / 2                                |

| ITEM NO. | PART NUMBER | DESCRIPTION                              | QTY. |
|----------|-------------|--|------|
| 1        | PR2-001     | Housing                                  | 1    |
| 2        | PR2-002     | Shaft                                    | 1    |
| 3        | PR2-003     | Pulley                                   | 1    |
| 4        | PR2-004     | Pulley cover                             | 1    |
| 5        | PR2-005     | Rounded machine key (McMaster Carr)      | 1    |
| 6        | PR2-005     | Tool holder                              | 1    |
| 7        | PR2-006     | Collet                                   | 1    |
| 8        | PR2-007     | Clamp nut                                | 1    |
| 9        | PR2-008     | End mill                                 | 1    |
| 10       | PR2-009     | Driving block                            | 2    |
| 11       | PR2-021     | M5x0.8 Stainless Steel Socket Head Screw | 4    |

| ITEM NO. | PART NUMBER  | DESCRIPTION                                 | QTY. |
|----------|--------------|---|------|
| 12       | PR2-022      | Alloy Steel Cup-Point Set Screw             | 1    |
| 13       | PR2-023      | M2.5x0.45 Stainless Steel Socket Head Screw | 2    |
| 14       | 6008ZZ       | Deep-groove ball bearing B                  | 1    |
| 15       | 6208ZZ       | Deep-groove ball bearing A                  | 1    |
| 16       | 91292A016    | 18-8 Stainless Steel Socket Head Screw      | 8    |
| 17       | 91292A010    | 18-8 Stainless Steel Socket Head Screw      | 2    |
| 18       | 94065K162    | Belleville Disc Springs                     | 2    |
| 19       | Inside Seal  | Inner labyrinth seal for bearing A          | 1    |
| 20       | Outside Seal | Outer labyrinth seal for bearing A          | 1    |
| 21       | B_Inside     | Inner labyrinth seal for bearing B          | 1    |
| 22       | B_Outside    | Outer labyrinth seal for bearing B          | 1    |



CROSS SECTION - TOP  
SCALE 1 : 2

|   |  |         |  |
|---|--|---------|--|
| ALL DIMENSIONS ARE<br>IN MILLIMETERS UNLESS<br>OTHERWISE SPECIFIED<br><br>LINEAR TOLERANCE ± 0.15<br>ANGULAR TOLERANCE ± 0.1° | Approved by  |         | University of<br>Waterloo<br><b>MTE322</b> |
|   | Created by<br>Alexander Jones                      |         |  |
|   | DATE: 2022-12-02                                   |         |  |
| DO NOT SCALE PRINT  | Description<br>Table top spindle ass'y, base model |         |  |
| THIRD ANGLE PROJECTION<br>               | SIZE<br>Letter                                     | PART NO | REV  |
|   | SCALE: 1:2   | WEIGHT: | SHEET 2 / 2                                |