**Ellis 18 1/2” Drill Press**

<table>
<thead>
<tr>
<th>Description</th>
<th>Drill Press – Model 9500</th>
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</thead>
<tbody>
<tr>
<td>Size / Horse power</td>
<td>18 1/2” / 1.5 HP / 0 – 1200 RPM</td>
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<tr>
<td>Power source</td>
<td>120 volt through power cord</td>
</tr>
<tr>
<td>Uses</td>
<td>Drilling/Boring holes into various material (metal, wood, plexiglas, plastic)</td>
</tr>
</tbody>
</table>

### Safety Precautions

#### Hazards
- Flying debris (potential eye damage)
- Electrical shock
- Abrasions
- Entanglement of hair or clothing

#### Training
- Shop Safety Fundamentals
- Site Specific Training

#### Protective Equipment
- Safety glasses
- Hearing protection
- Avoid loose fitting clothing
- Tie back long hair

### Operation

#### Startup
1. Put on PPE listed above
2. Ensure work area is clean and free of obstacles
3. Make necessary adjustments for safe operation
4. Inspect the tool for damage or obstructions to operation
5. Place material so that it is resting against the left side of the column to prevent material from spinning or securely fasten material to the table
6. Make sure the drill chuck is tightened down on the drill bit and the chuck key has been removed
7. Set the speed dial to zero
8. Set the toggle switch to the “Forward” position
9. Switch the power switch to the “ON” position, the green light will turn on
10. Turn speed dial to required speed
11. Keep hands clear of drill bits

#### Shutdown
1. Turn the Speed Dial to zero
2. Switch “OFF” the drill press by moving the power switch to the “OFF” position
3. Allow the chuck to come to a complete stop on its own
4. Remove work piece from table top
Table Adjustments

**Raise and Lower:**
1. Loosen the table clamp handle
2. Using the elevation handle, raise or lower the table to the desired height
3. Tighten the table clamp handle

**Rotate Table:**
1. Loosen the table clamp handle
2. Rotate the table in either direction to desired position
3. Tighten the table clamp handle

**Depth Stop Adjustment**
1. Stop the spindle rotation. Loosen the locking handle on the depth scale hub
2. Lower the drill end to the desired drill depth by turning the turn style
3. Turn the dial counterclockwise as you face the end of the turn style hub
4. Lock the locking clamp when the dial comes to a stop

**Changing Spindle Speeds**
1. Spindle speeds are controlled by the variable speed control box
2. Forward and reverse rotation for the spindle is selected on the control box panel

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**Maintenance**

<table>
<thead>
<tr>
<th>Storage</th>
<th>Hoover Hall – Room 1260</th>
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</thead>
<tbody>
<tr>
<td>Care</td>
<td>• Clean off drill press after you are done using&lt;br&gt;• Periodically apply a light film of oil to the quill and column. This will reduce wear, prevent rust, and assure ease of operation&lt;br&gt;• Check that bolts are tight and electrical cords are in good condition</td>
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</tbody>
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