MK Diamond MK-100 Tile Saw

<table>
<thead>
<tr>
<th>Description</th>
<th>Tile Saw – Model: MK-100</th>
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<tbody>
<tr>
<td>Size / Horse power</td>
<td>10” Blade / 1.5 HP / 3400 PRM</td>
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<tr>
<td>Power source</td>
<td>115 volt through power cord</td>
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<tr>
<td>Uses</td>
<td>Cutting tile, stone, masonry, and lapidary products of various size</td>
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</tbody>
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Safety Precautions

**Hazards**
- Amputation/Abrasions
- Electrical shock
- Entanglement of hair, jewelry, or clothing
- Flying debris (potential eye damage)

**Training**
- Shop Safety Fundamentals
- Site Specific Training

**Protective Equipment**
- Safety Glasses AND Safety Shield
- Hearing protection
- Avoid loose fitting clothing
- Tie back long hair

**Operation**

**Startup**
1. Put on PPE listed above
2. Inspect the tool for damage or obstructions to operation
3. Ensure the “ON/OFF” Switch is in the OFF position
4. Verify the movable cutting table moves freely
5. Inspect the diamond blade for damage. Verify the blade is correct for the material being cut
6. Inspect the pump assembly for damage. Ensure the cord is free of cracks or cuts
7. Turn “ON” the saw by moving the toggle switch to the “ON” position
8. Allow the blade to reach full speed before beginning cut
9. Slowly feed material into blade, avoid putting excessive force on the blade
10. Keep hands clear of saw blade

**Shutdown**
1. Turn “OFF” the saw by moving the toggle switch to the “OFF” position
2. Allow the blade to come to a complete stop on its own
3. Remove work piece from table top

Note: Toggle switch can be locked in the “OFF” position by placing a 3/16” padlock through the toggle switch lock hole

**Setting the Cut Depth**
1. **Disconnect tool from power supply**
2. Loosen the cutting head knob and move cutting head down
3. Set cutting depth approximately 1/4” to 1/2” below the surface of the movable cutting table
4. Tighten the adjusting knob
**Changing Blade – Performed by Authorized Personnel Only**

1. **Disconnect tool from power supply**
2. Locate the shaft lock push button, on the underside of the cutting head
3. Remove retaining nut and outer flange, depress and hold the shaft lock hold button and loosen nut
4. Remove the diamond blade
5. Install the new diamond blade onto blade shaft, install outer flange and retaining nut
6. Verify the blade is seated on the blade shaft and the direction of rotation is correct
7. Depress and hold the shaft lock button and tighten the retaining nut

**Cutting Straight Edges**

1. Loosen the adjustable cutting guide retaining thumbscrew
2. Position the adjustable cutting guide to desired cut length indicated inside the diamond and tighten thumbscrew
3. Place the tile against the ruler/stop and cutting guide. Turn the saw “ON”
4. Verify proper cooling flow on both sides of the blade
5. Perform the cut. Turn the saw “OFF” when work is complete

**Cutting Diagonal Cuts**

1. Position the dual 45° flat angle guide and tighten the retaining thumbscrew
2. Position the material against the flat angle guide and the ruler/stop. Turn the saw “ON”
3. Verify proper cooling flow on both sides of the blade
4. Perform the cut. Turn the saw “OFF” when work is complete

**Maintenance**

<table>
<thead>
<tr>
<th>Storage</th>
<th>Science 1 – Room 0006</th>
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<tbody>
<tr>
<td>Care</td>
<td>• Clean off saw after you are done using. Always use a sharp blade.</td>
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<tr>
<td></td>
<td>• Lubricate the Guide Bar and Roller Wheel Assembly daily with WD-40</td>
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<tr>
<td>Accessories</td>
<td>• Adjustable Cutting Guide</td>
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<tr>
<td></td>
<td>• Blade Nut Wrench</td>
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