

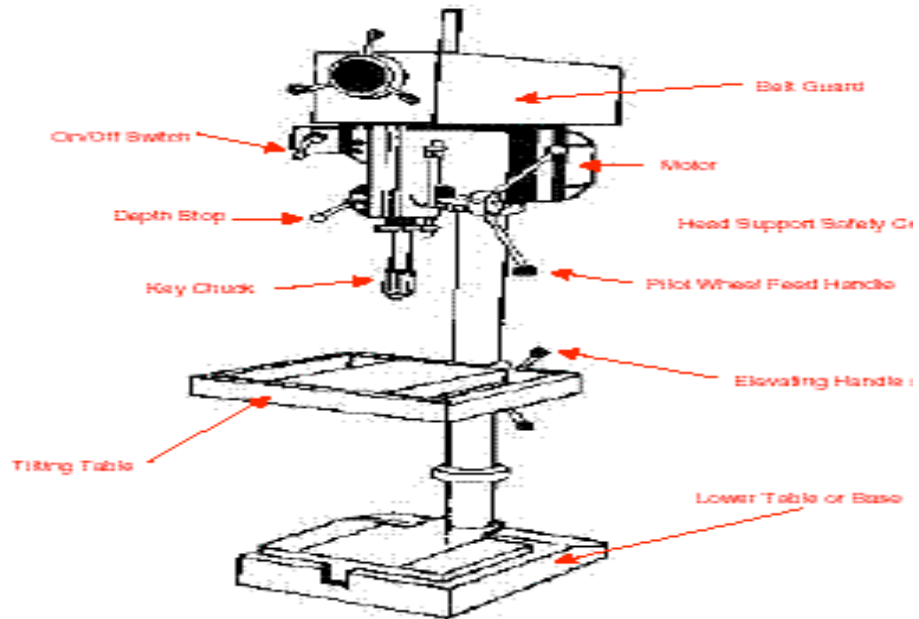
## ***Drill Press Notes***

### **Requirements:**

Proper eye protection must be worn—operate only with instructor's permission and after proper instructions have been received.

1. Always use a piece of scrap wood and set the table or stop to keep from drilling into the tabletop.
2. Use a clamp or vise grips to secure/fasten your wood to the table.
3. Make sure that your scrap wood, good wood, and any clamp you are using are the **ONLY** objects on the table. Other objects can get caught in the machine and cause injuries.
4. Use a "V-block" clamp for CO<sub>2</sub> cars or round or irregular-shaped stock.
5. Select the right size and type of bit. Wood bits for wood, metal bits for metal.
6. Use a center punch for a guide whenever possible. Always use a center punch when drilling into metal or hard woods.
7. Do not panic if the bit gets stuck in the wood. Turn the machine off. When it has completely stopped, remove the bit from your wood.
8. Select the correct drilling speed. For metal or hard woods and large drill bits you should use a slower speed.
9. Always remove the chips from the table after the machine is turned off and is no longer moving.  
Use a table brush, never your hands.
10. As with any machine, if it is not working properly you should always turn it off, unplug it, and tell a teacher.

## Drill Press Parts



## **Drill Press Written Test**

Use the correct heading and write the answers on your own paper. Use the BEST answer to complete the following:

1. You ( **Should**    **Should not**) use a piece of scrap wood and a clamp or vise grip when using this machine.
- 2/3. Objects other than your wood and clamps ( **Should**    **Should not**) be removed from the table top because they can \_\_\_\_\_.
4. Use a ( **C-Block**    **V-Block**) to clamp down C02 cars and irregular stock.
5. The type of bit you select for drilling ( **Is**    **Is not**) important.
6. You ( **Should**    **Should not**) use a center punch when drilling into metal or hard woods.
7. You should use a ( **Faster**    **Slower**) drill speed when drilling into metals, hard wood, and with larger drill bits.
- 8/9. ( **Do**    **Do not**) **panic** if the bit gets stuck in the wood. You should: \_\_\_\_\_
10. You should remove chips from the table with your ( **Hand**    **Table broom**).
11. As with any machine, if it is NOT working properly you should: \_\_\_\_\_

List five safety procedures you should do before you operate this machine:

12. \_\_\_\_\_
13. \_\_\_\_\_
14. \_\_\_\_\_
15. \_\_\_\_\_
16. \_\_\_\_\_

## ***Drill Press Hands-On Test***

Name: \_\_\_\_\_ Date: \_\_\_\_\_

Subject: \_\_\_\_\_ Per: \_\_\_\_\_

1. What does it do?

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2. Why is it useful?

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3. Can the student identify this machine (point to it)? ( **Yes**  **No**)

4. Identify the following parts:

- |   |   |  |
|---|---|--|
| <input type="checkbox"/> On/off switch      | <input type="checkbox"/> Head support safety collar | <input type="checkbox"/> Column          |
| <input type="checkbox"/> Tilting table knob | <input type="checkbox"/> Motor                      | <input type="checkbox"/> Tilt angle lock |
| <input type="checkbox"/> Base               | <input type="checkbox"/> Belt guard                 |  |
| <input type="checkbox"/> Key chuck          | <input type="checkbox"/> Depth stop                 |  |
| <input type="checkbox"/> Pilot wheel feed   | <input type="checkbox"/> Table-locking clamp        |  |

5. Safety procedures followed before using the machine:

- |  |   |
|--|---|
| <input type="checkbox"/> Shirt tucked in | <input type="checkbox"/> Z87 safety glasses                     |
| <input type="checkbox"/> Hair secured    | <input type="checkbox"/> Checks kick back zone                  |
| <input type="checkbox"/> Remove jewelry  | <input type="checkbox"/> Gets help from/helps partner as needed |

6. Procedures for operating machine (teacher designate):

- Depth stop—makes sure that it is set to avoid drilling into the tabletop.
- Scrap wood—uses to avoid drilling into the tabletop.
- Left hand—holds the wood flat or it's clamped down.
- Right hand—guides the wheel feed (or vice versa).
- Feet—facing the machine.
- Key chuck—tightens down the chuck key in at least two places (*righty tighty/lefty loosy*).
- Eyes—watching to see where the bit is going and making sure that the body goes nowhere near it.

7. Makes two safe and successful operations:

- |    |                                     |                                    |
|----|-------------------------------------|------------------------------------|
| a) | <input type="checkbox"/> <b>Yes</b> | <input type="checkbox"/> <b>No</b> |
| b) | <input type="checkbox"/> <b>Yes</b> | <input type="checkbox"/> <b>No</b> |

8. Makes sure that the machine has been shut down properly, that the area is clean, and puts tools away.  **Yes**  **No**