

Name: _____

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Drill Press 1

Tools, Toolholding, and workholding for the Drill Press
Read Section 4, Unit 2

Define the following Terms

1. Angle Plate

2. Body Clearance

3. Chisel edge

4. Dead Center

5. Drill Body

6. Drill Chuck

7. Drill Drift

8. Drill Point

9. Drill Point Gage

10. Flutes

11. Heel

12. Helix Angle

13. Lip Clearance

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14. Lips

15. Margin

16. Morse Taper

17. Morse Taper Extension

18. Morse Taper Sleeve

19. Pilot

20. Pin Vise Chuck

21. Shank

22. T-nut

23. V-block

24. Web

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Answer the following questions

25. What are the two main materials used to make holemaking cutting tools?
26. What two types of shanks are commonly found on twist drills?
27. Name three functions of the flutes on a twist drill.
28. Name two types of flute styles for machine reamers.
29. How might an interruption such as a keyway influence the selection of a reamer?
30. What is the major difference between counterboring and spotfacing?
31. What must be used to secure a workpiece to an angle plat?
32. What devices are used to elevate a workpiece to prevent drilling into the machine table or vise bed?
33. If 50 parts measuring 1" X 1" X 3" each needed a hole drilled in a side, which workholding device would be best? Explain.
34. Which would be the best workholding device for holding a ½" X 8" X 8" flat plate for drilling a hole in its edge?
35. Which would be the best workholding device for holding a 1" diameter X 6" long shaft so that a cross hole for a grease fitting could be drilled?
36. Which would be the best workholding device for holding a ¾" X 12" X 14" flat plate for drilling a series of holes through the large surface of the plate?