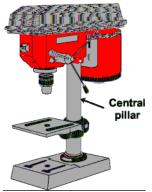
Design & Manufacture

Homework 23

Power tool drilling

Pillar drill

This drill is so named because the main parts can be made to slide up and down the central pillar. It is suitable for all the bits shown on this page.

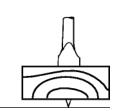


Flatbit

This bit is only suitable for use in power tools. It is useful for larger holes from 8mm to 25mm diameter. It is made from HSS.

Hole saw

This is only suitable for use in power tools. It cuts very large holes from 20mm to 80mm diameter. The saw and guide bit are made from HSS.



Note: When using a flatbit or hole saw, only cut the hole until the point of the flatbit, or the guide bit of the hole saw, break through the other side. Then turn the wood over and using the break-through hole as a guide, cut the second half of the hole. This method will stop the wood from splitting.

Questions

1. Why is a pillar drill so called?
2. When would you use a flatbit instead of a jobber bit?
3. When using a hole saw, how would you prevent the wood from splitting?
4. Which bit would you choose to use if you had to drill a 35mm hole and why?