

Design & Manufacture

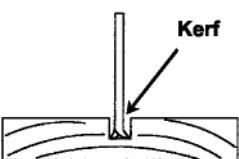
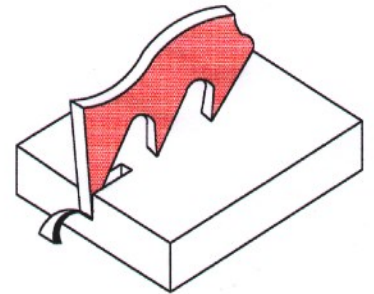
Homework 12

SHAPING WOOD

Wasting is the term given to any of the cutting processes that produce waste material.

Sawing Hand-held saw blades are made from Tool Steel alloyed with Vanadium and Molybdenum, to give toughness and long lasting sharpness.

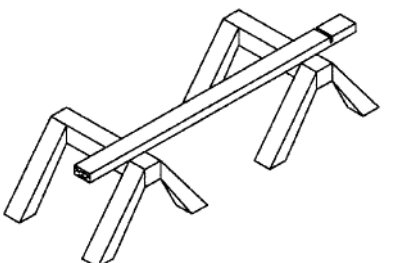
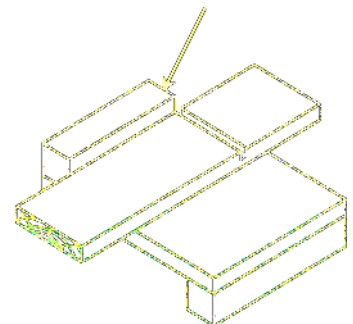
The saw cutting action - each tooth cuts a little deeper as the saw moves forward.



Each tooth of the saw is alternately bent to the right and the left of centre. This is to stop the blade from jamming in the cut. The width of the cut is called the kerf.

Wood must be well supported when being sawn.

When sawing small pieces of wood use a **bench hook** (also known as a sawing board). The bench hook should be held in the bench vice to stop it moving and the wood is held in place by hand.



When sawing long pieces of wood, use a pair of **trestles** (also known as sawing horses). The wood can be held by G-clamps.

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Questions

Explain the term 'kerf' with the use of a diagram.

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How would you support a small piece of wood while you are cutting across it ? answer with the use of a diagram

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Show how you would support a long length of wood for sawing with the use of a diagram

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