

### 3.7 Manufacturing processes for batch production

#### Jigs.

A jig is a work holding device that is made specifically to suit a single component or a device to help when making identical components. The component is held firmly in the exact position required.

#### Patterns

A pattern is used to mark out or make a number of identical components.

Process	Advantages	Disadvantages
Jig	Very useful when making many identical components or products Much quicker than marking out lots of identical items	Must be set up and aligned correctly, or all the holes or joints will be cut in the wrong places Can take some time to set up
Pattern	Can be reused to make a batch of products	Can take a long time to make a pattern Highly skilled workers are required to make patterns