

- **Low profit margins.** A firm that produces products that have a low profit margin needs to produce and sell in large volumes to be profitable. This is more applicable to mass and flow production methods of production (make links to Topic 5.2) such as computer chip manufacturing, where very little profit is made on each chip, but hundreds of millions are made and sold.
- **High fixed costs.** Fixed costs do not increase or decrease with the quantity of product produced (rent, loan repayments, manager's salaries, etc.). **The higher the capacity utilisation, the lower the average fixed costs of the firm will be.** Average fixed costs are calculated by dividing the total fixed costs by the quantity produced.
- **A high break-even level of output.** A firm that needs to produce and sell a lot of product before they are able to break-even, will look to have a high capacity utilisation rate. The higher the capacity utilisation, the sooner break-even is achieved and profits follow (make links to Topic 3.3).

There are potential drawbacks to operating at a very high capacity utilisation for a long period of time:

- Staff may feel under pressure due to the workload and this could raise stress levels. Operations managers cannot afford to make any production scheduling mistakes, as there is no slack time to make up for lost output.
- Regular customers who wish to increase their orders will have to be turned away or kept waiting for long periods. This could encourage them to use other suppliers with the danger that they might be lost as long-term clients.
- Machinery will be working flat out and there may be insufficient time for maintenance and preventative repairs and this could lead to increased unreliability in the future.

So many firms attempt to maintain a very high level of capacity utilisation, but to keep some spare capacity for unforeseen eventualities. However, **high capacity utilisation is not a substitute for growth.** Most organisations seek growth and increasing demand for the products they are marketing. Taking on extra orders for products will require a firm to raise its productive capacity – expand its scale of production.