

Explain **Blow moulding** with neat sketch ? or Explain Blow moulding process in **Thermo plastic moulding** ?

Blow moulding

Types : 1. Injection blow moulding 2. Extrusion blow moulding 3. Multi large blow moulding.

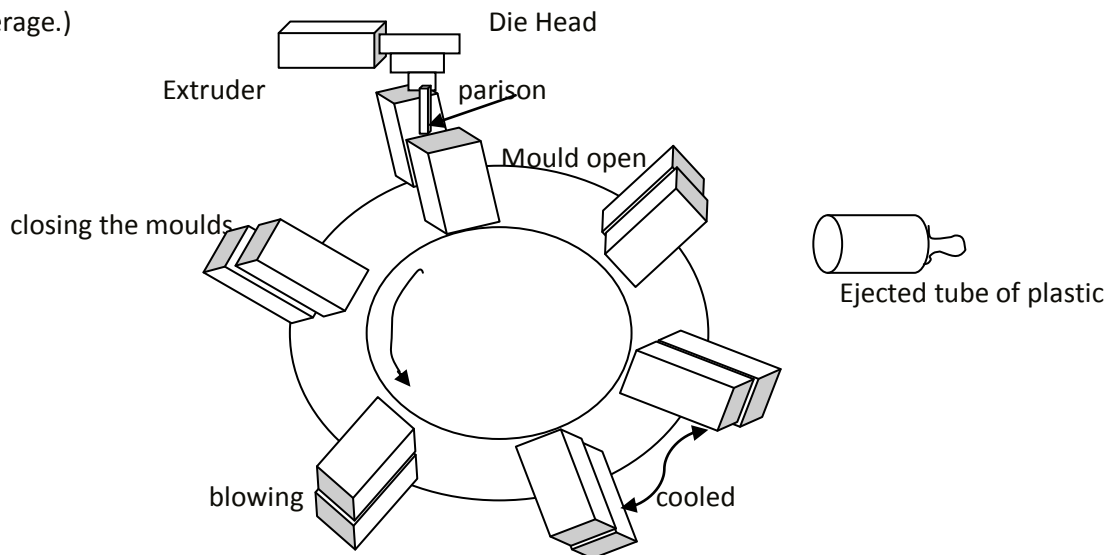
Principle of working

Parison = Hot extruded tube of Plastic

- Parison is placed between two parts of open moulds.
- Pressurised air 0.7 to 10 kg/cm^2 used to force tube against walls of the mould.
- Two valves of the mould move towards each other to close the mould over the tube.

Injection Blow moulding

In multi layer blow moulding- multilayer structures are used.(example – plastic package of food and beverage.)



Multi layer blow moulding sketch from page 5.18 figure 5.3 to be drawn here

Working

- Bottom end of parison is sealed.
- Compressed air is used to blow – the molten plastic in to the mould.
- Tube gets pinched off . Then welded at the bottom by closing the moulds.
- Pressure air forces the tube against wall of the moulds.
- Components is cooled. Mould is opened and the component is ejected.
- Simple manual operation is used. Complicated automated operations also there.

Applications

1. To make plastic Bottle and Toys.
2. To make hollow containers
3. Multilayer blow moulding type used in Food packing industries, Cosmetics and pharmaceutical industries.