

PET container production

1. Application

PET - Polyethylene-terephthalate - has quickly proven itself to be the perfect material for beverage container production. Both easy to colour and recycle, it is lightweight, food-safe and can be formed into virtually any shape using compressed air.

2. Role of compressed air technology

Blow-moulding machines for PET container production consume large volumes of compressed air. The conveying air needs to be supplied at a pressure between 7 to 10 bar(g), whilst the actual blowing air is supplied via a 'booster' and needs to be at a pressure of at least 36 to 43 bar(g).

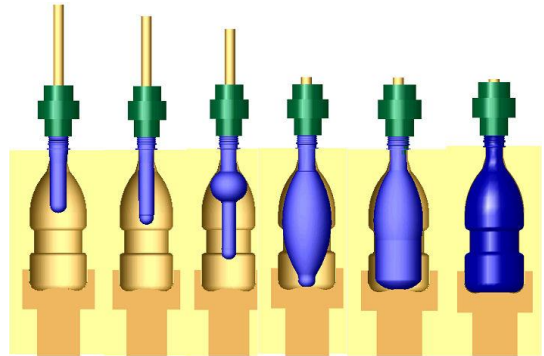
The blowing air must also be of food-grade quality.

3. Compressed air technology

In PET compressed air systems, a rotary screw compressor delivers conveying air and also provides the first stage for the 'booster' which delivers the blowing air.

4. Energy efficiency

Application-tailored PET compressed air systems can achieve significant savings compared with conventional systems. The example given shows savings of 900 Euros per eight-hour shift.



Examples provided by VDMA and Agoria member companies