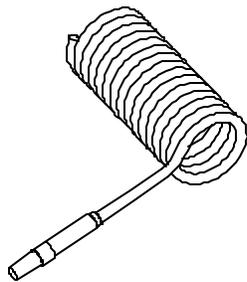


APPLICATIONS - OTHERS

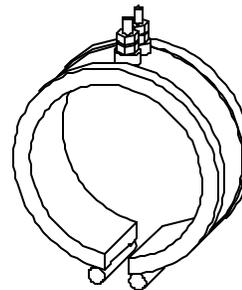
BLOW MOLDING : vertical heated barrel/screw assembly extrudes a "parison" (plastic tube) that is squeezed between the halves of a mold. Then air is shot inside the parison to blow the material against the walls of the mold. **Heaters, thermocouples** and **controllers** are similar to the ones used on injection molding machines. This is the preferred process for production of plastic bottles.

INJECTION BLOW MOLDING : first, small size "preforms" are injection molded, then they are oven heated and finally "blown-up" to the final shape. Typical example of application for that process is the mass production of "2 litre soft drink bottles".

Coil Heater

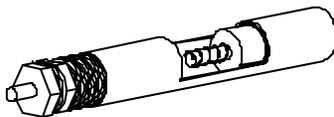


Band Heater

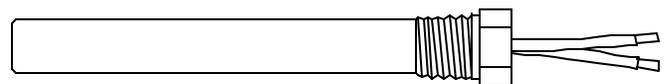


COMPRESSION MOLDING : combined action of temperature and pressure is used to mold thermoset parts. Molds or press platens are heated by **cartridge heaters** or **tubular heaters** and can be insulated with **Haysite insulating boards** .

Tubular Heater



Cartridge Heater



ROTATIONAL MOLDING : plastic material in either liquid or powder form is poured inside a pre-heated mold that is tumbled so the resin melts and spreads over the inside wall of the mold. Depending on complexity of the part/mold, it is possible to improve heat transfer at the pre-heating stage by using **Isobars** inside some mold inserts. Pre-heating station is generally gas fired or electric oven.

THERMO-FORMING : a plastic sheet is pre-heated then laid over a female mold where gravity allows the soft plastic material to "fill" the cavities. Pre-heating can be achieved by an array of **radiant tubular heaters** or **ceramic infrared heaters** . Thermal control is usually performed by **timers** , but **infrared temperature sensors** can be used with **temperature controllers** .

VACUUM-FORMING : similar to thermo-forming but vacuum assisted.

Other processes as **Stretch Blow Molding, Transfer Molding, Die Casting, Laminating and Pultrusion** would also require such products as thermocouples, heaters, controllers and accessories, all available from **ACROLAB** .