Ircon® System Solutions – *Plastic*

PET Bottle Production

Customer
PET container mfrs

SIC code
3085

Customer Needs

PET (Polyethylene Terephthalate) bottles are plastic soft drink, wine, and beer bottles. PET starts as small plastic chips, which are melted down and sent to the preform. They are shaped in the preform, then are heated with an IR lamp and blown into final shape in the mold. The instruments measure the temperature at the exit of the preform.

Typical pre-heaters may have 8 to 20 bottle lines. The preform has to be at the right temperature to ensure proper thickness of the skin and conformity to the shape of the mold.

These manufacturing lines are high production, high quality, and low profit margin. The customer has to achieve maximum output to be profitable. Because of this reason temperature control is an important part of the process.

Features/Benefits to address

Product

- Javelin (7.9µ range) for low cost customers.
- Response is much quicker then contact sensors such as thermocouples and RTDs.
- Sell Ircon as a full line supplier with line scanning.

Application

- Less scrap plastic
- Increases in production speed and quantity

Who to talk to?

1. Quality Control
2. Process Engineering
3. Operator in charge of molding machine

What to take?

1. Javelin demo kit and related literature
2. Javelin demo kit and related literature

Application

Preforms being heated before being molded

Bottles coming out of the molds

Names of customer

There are PET bottle manufacturers located all over the world. Search under “stretch blow molding” which is the technical name for the process. Also look for machinery manufacturers who cater to the plastics industry.

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