

Blow Moulding of Parisons

Pulsed DC System

Problem

As molten plastic parisons drop towards an open tool, high static charges cause the following problems:

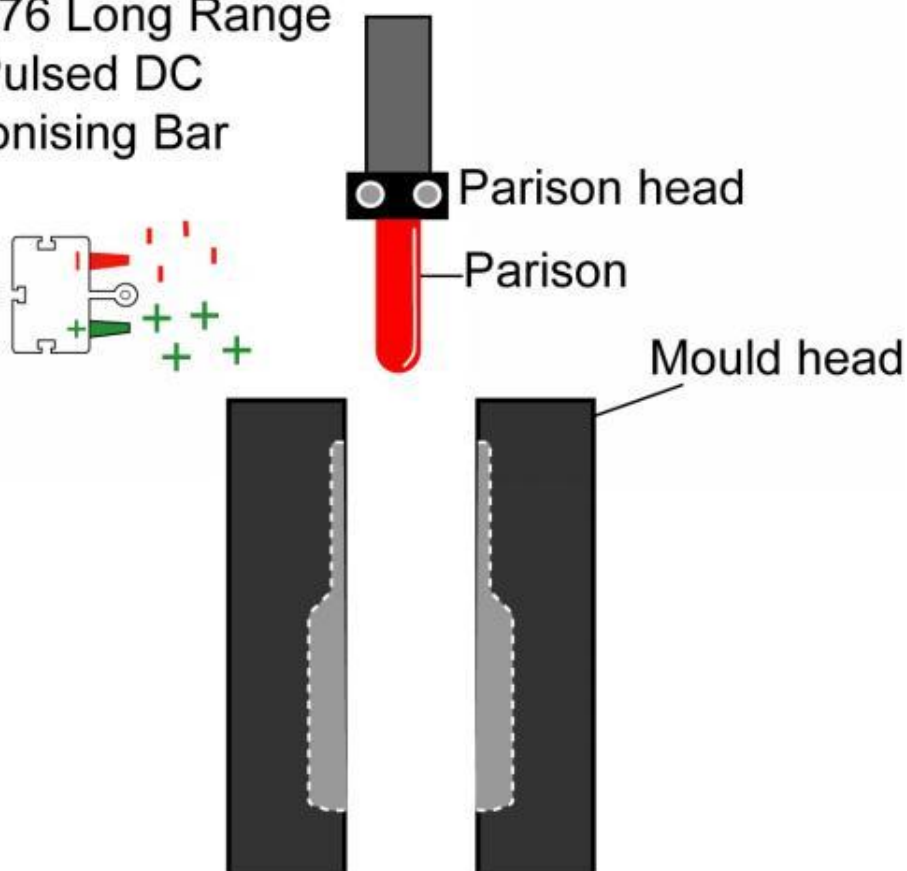
1. Where there is more than one parison per tool, charges are always of the same polarity. This causes the parisons to repel each other. This often results in a failed delivery into the tool and quality failures due to stress lines in the finished moulding.
2. With a single parison similar problems can occur when the lone parison is attracted to one of the many metal machine parts.

Solution

The Meech Pulsed DC ionisation system delivers widespread long range ionisation without the requirement for an air delivery system. The spread of ions from this system ensures total neutralisation from the parison extrusion head to the top of the mould tool. This is ideal for very thin gauge parisons which are prone to being prematurely cooled or misdirected by the slightest of air flows. Larger applications may require more than one bar. The Pulsed DC controller is capable of powering up to four bars simultaneously.

Fig.

976 Long Range Pulsed DC Ionising Bar



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