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Air Loading System

GMATM
Polyurethane Processing Machinery



CERT NO.: 2004-1-0737
ISO 9001: 2008

AIR LOADING SYSTEM

Air Loading System assist in lowering the density and increases the flow ability of materials. This is achieved by adding inert gas into the chemical streams prior to flowing it through the mixing head and injection into the mould. The dispersion of insoluble gases in the form of bubbles assist in forming a fine cell structure while using lesser materials yet maintaining the same characteristics of finished parts.

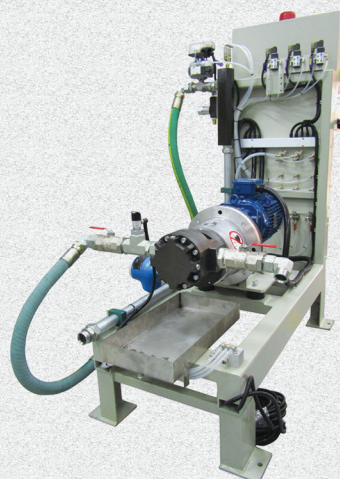
The charging and detection device introduces, samples, calculates and displays the concentration of insoluble gases in Polyol.

Benefits of the System:

- High accuracy
- Low maintenance
- Eliminates operator exposure to chemicals
- Self contained unit can be utilized in Rim or RRIM application
- No escape of entrained gas to atmosphere during measurement
- Air loading capacity: < 25%

The system focused on achieving:

- Optimum bubble size that is represented by finished part can be as small as requested
- Best location of the spargers which allow many tiny bubbles to be inserted into the polyol, results in using lesser material while maintaining the density
- Optimum size spargers to allow rapid nucleation



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