

TRICO-Ram

The Three Components Batch Extrusion Process



TRICO-Ram

Features:

- Three independently speed controlled pistons extrude fluids within a speed range from 0.00005 – 40 mm/sec.
- 200 ml reservoirs in all three barrels provide sample volume for batch extrusion processes
- Due to independent piston drive control, different product levels in all three barrels can be maintained
- Extrusion process is monitored and controlled by three extrusion pressure transducers, three fluid temperature sensors and applied triple piston force control up to 40 kN
- Temperature control between 30°C – 250°C
- Design approved to clean room condition according to class A

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Why using a Ram Extruder instead of continuous working screw extruder?

A Ram Extruder uses the platform of a capillary rheometer, a well proven testing instrument in the polymer industry.

- High precision temperature control guaranties stable condition within the reservoir
- The heating process in the reservoir is very gentle, compared to undefined mixing in a continuous extruder which might lead to unwanted shear heating.
- The linear speed driven ram guaranties a constant and stable diameter of the extrudate, which can not be reached with the pulsating flow in a screw driven extruder
- The batch process of a ram extruder guaranties minimum off spec material
- For high cost products, quantities can be reduced to less than 100 ml per extrusions cycle

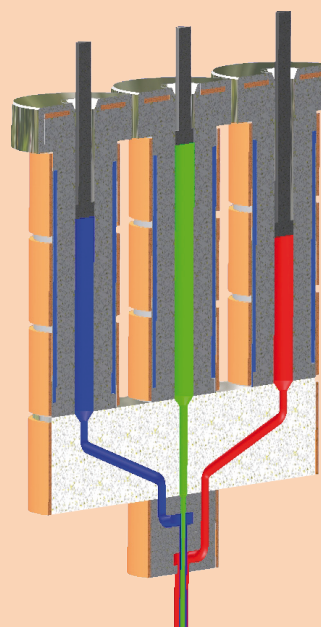


Photo (left) and schematic (right) of the TRICO-Ram Tripple Barrel System.

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