

LABORATORY INSTRUMENTATION & PROCESS SYSTEMS

Hot Melt Extruder

Processes drug and polymer blends into a solid dispersion for solubility enhancement.

DESCRIPTION

Melts a drug and polymer blend and forces it through a die under controlled temperature and screw speed, producing a solid dispersion in which the active is molecularly dispersed in the carrier. It is the principal solvent-free route to improving the dissolution rate of poorly soluble actives.

APPLICATIONS

Solubility enhancement of poorly soluble compounds, taste masking, sustained-release matrices, film and implant manufacture.

METHOD & COMPLIANCE REFERENCE

A continuous manufacturing process; development and control approached under ICH Q8 and Q11.

SUPPLIED AND SUPPORTED IN BANGLADESH

- Import, customs, delivery, site preparation and installation.
- IQ/OQ qualification, scheduled calibration and validation support.
- Genuine spare parts, consumables and operator training in Dhaka.

Specifications, capacities and model options vary by configuration and are confirmed with each quotation. This sheet is generated from our product catalogue; the full manufacturer datasheet is available on request.