



Laboratory Twin screw Extruders (For Food & Plastic materials)

MALIK'S MEGA series Twin screw Extruders are useful for Research work, trial, testing and small production in Food & Plastic processing units.

Construction involves co-rotating twin screws and barrel which are segmented for easy changing of geometries to suit processing task.

The assembly of screws on central shafts consists of various elements comprising feed screws, conveying, kneading/mixing, venting, cooling and pumping elements. Screws are self wiping for minimum material hold.

Water/steam/flavor injection ports are provided for use, if necessary. Metering pump for liquid addition into extruder optional extra.

Barrel heads are jacketed and cold water can be circulated for water cooling.

Electric barrel heating is standard. Temperature is controlled automatically through PID panel.

Melt Pressure Transducer for indicating the extrusion pressure is provided as standard.

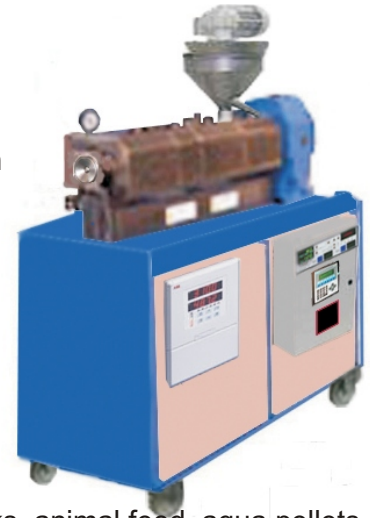
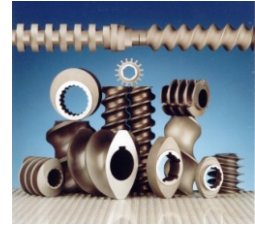
Various die orifices made as per requirement.

Rotary motorized cutter at die face can be supplied on demand.

Variable main motor speed through frequency control panel.

Feed hopper is supplied with volumetric screw feeder or vibrating tray for feed control.

Data Logger is supplied as optional extra.



Applications: pre-cooked cereals, gelatinisation of starch, extruding fruit bar, snacks, animal feed, aqua pellets, as former, e.g pasta, TVP from soybeans, testing raw-materials, establishing process conditions, compounding/ mixing of polymers (plastic pellets), various shapes like tubing, profile for small production, etc.

Technical Specifications:

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|-----------------------------|---|
| 1) Model no. | : MEGA-25. |
| 2) Nominal screw dia. | : 25mm (1") |
| 3) Approx. Flight depth | : 4mm |
| 4) Centre spacing of screws | : 21.3mm |
| 5) L/D Ratio | : 20:1 up to 30:1 max. |
| 6) Max. Screw speed | : 450 RPM |
| 7) Max. Process temperature | : 300 C |
| 8) Main Drive AC | : 7.5 Kw (10 hp) |
| 9) Torque in screw shafts | : 2 * 95 Nm |
| 10) Max. Output/hr | : 25 Kg/hr depends on type of Material, etc. |
| 11) Max. Melt pressure | : 250 bar |
| 12) Screw Rotation | : Co-rotation |
| 13) Diehead centre | : 1000mm |
| 14) Approx. Length | : 1750mm |
| 15) Approx. Weight | : 650 Kg |

Note: Right to modify specification reserved

Manufacturers:

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