

TWINLAB 10 EXTRUDER

Twin Screw 10mm

Article 100 40 300 - Stainless Pharma Grade

1 BARREL AND SCREWS

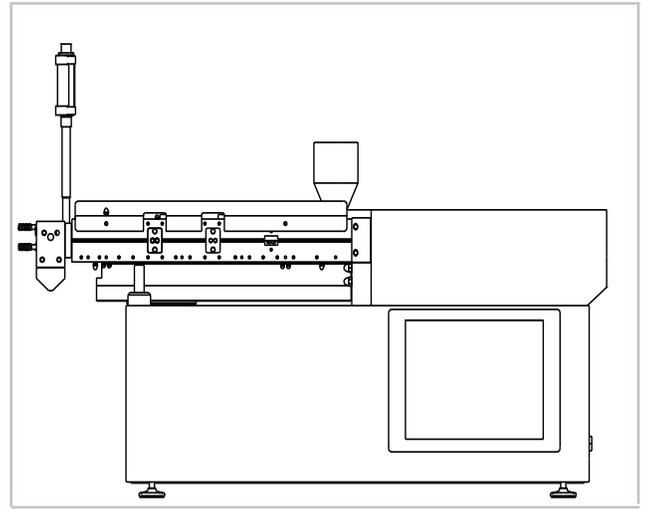
Diameter 10 mm Length/diameter ratio 40:1
Hardened and polished Stainless Steel (cGMP option)
Easy cleaning barrel including 2 liners
Cooled tangential feed port
Screw Speed rpm 300

2 PROFILE

Co-rotating, intermeshing, self-wiping
Segmented Screws
General purpose 2-stage configuration (modifiable)

3 BARREL HEATING

Electric band heaters 0 to 300°C (Barrel 500 W)
Type J thermocouples
3Term PID control with Fuzzy logic / Solid state switching
Other temperature ranges available



4 DIE

Delivered with Single/Multiple -hole strand die
Alternatives: tube dies, filament, co extrusion, crosshead die, cast film

5 DIE HEATING

Electric cartridge heaters (Die 300 W)
Type J thermocouples
3Term PID control with Fuzzy logic / Solid state switching
Other temperature ranges available

6 PRESSURE CONTROL

Fitted with bursting disc for over pressure protection
Pressure indication system option at extra cost

6 OPERATOR CONTROLS

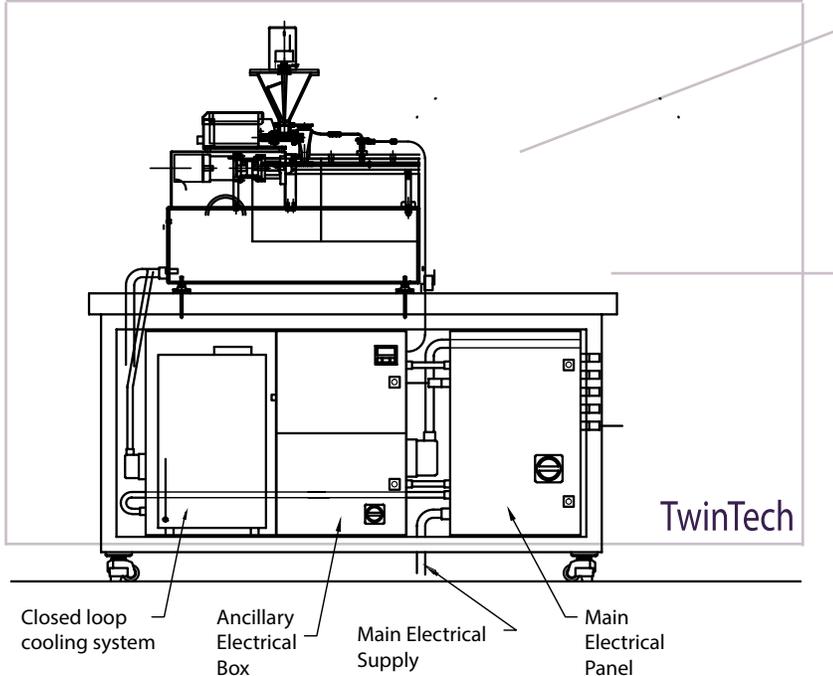
Full color Touchscreen HMI Omron NB 8/12
Data logging included Data logging included
Speed of the Single Screw Volumetric feeder
Speed of the Twin Screw Main Powder feeder* (option)
Speed of the Extruder screws
Torque of the Extruder screws
Temperature of the heating zones in the extruder
Temperature of the die
Pressure at the die
Data trends screen and exports (.Csv)

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TECHNICAL PARTICULAR FEATURES



SURFACES

Polished Stainless Steel
Contact surfaces 0.8 micron Ra
Stainless steel AISI 316 L (1.4404)
Polished surface
Barrel & screws AISI 420 (1.4122)

TORQUE LIMITER

A torque-limiting coupling is fitted as a standard torque protector (Autoguard)

VARIOUS DRIVE MOTORS

Various drives and powers are available to cope with particular requirements

OPERATOR CONTROLS

Emergency Stop
Extruder Start/Stop
Screw Speed control
Feeders control
Temperature Controllers
Torque indication
Pressure indication

HMI Controls (Omron NB 8 / 12)
Remote diagnostic & control of extruder via internet and TeamViewer,

Data logging (custom design possible)
Real Time Trend Screens

AVAILABLE OPTIONS

- : Various die sizes / Screw profiles
- : High Temperature - PEEK
- : Co-Extrusion die and full line
- : PVC profile / Quick release die
- : Full tubing and pelletising lines
- : Chiller and Bench
- : Contact us for other options.

APPLICATIONS

- : Academics
- : Pharmaceutical industry
- : Biotech

EXTRUSION TWINSCREW MOULDING SINGLE SCREW PRESSES POLYMERS FILM DIE LABORATORY
BLOW MOULDING PRESSES DIES TOMORROW FEEDERS AND SIDE FEEDER ROLL MILLS FIBERS SCREWS
INJECTION MOULDING EXTRUSION HOPPER GMP PLASTICS CUTTER PELLETISER CONVEYOR
R&S ASSISTANCE DEVELOPMENT HIGH TEMPERATURE CALENDAR BLOWN FILM BESPOKE MACHINEY