

Variable Density Extrusion^(TM) for the laboratory (VDE)^(TM)

Control extrudate density with either radial or axial extrusion dies

Laboratory extruders can generally offer different extrusion hole diameters but only the Caleva Variable Density Extruder (VDE) can offer both variable hole diameters and variable hole depths in both axial and radial extrusion.

Extrusion hole diameters from 0.2mm to 2.0mm and hole depths from 0.5mm deep to 6mm deep on radial extrusion and 8mm on axial extrusion. Optimal length to diameter ratio can be selected to produce the ideal density extrusions to suit your application.

This unique ability of the VDE to offer all combinations allows the quick and easy evaluation at controllable and variable extrudate density for all your formulations.

There is nothing else available that gives this flexibility and ease of use in a single piece of equipment.

Reduce patient dosing frequency by increasing product density.

Ensure your laboratory extrusion
is optimized: Call **+44 (0) 1258 47 11 22** today!



The VDE from Caleva, for the development of pellets by Extrusion and Spheronization. The best, most flexible and most productive laboratory extruder available.

Extrusion rates up to 27kg/hr* on a radial screen and 20kg/hr* on an axial screen

EXTRUSION TYPES

- Radial and axial extrusion in a single bench-top unit.
- Flexibility according to the requirements of the formulation.

BROAD RANGE OF HOLE DIAMETERS AND DEPTHS AVAILABLE

- Hole diameters between 0.2 and 2.0mm.
- Hole depths between 0.5mm and 8mm. (Not all combinations are possible in all configurations).
- *Ability to control the density of the extrudate produced.*

EXTRUDATE QUALITY

- Comparative trials have shown significant yield benefits.
- Trials with similar competitive equipment produced a higher usable yield with a higher density result.

EASE OF USE/SAFETY

- Fully tool-less assembly and disassembly for cleaning.
- All product contact components are manufactured in 316 stainless steel, FDA approved polymers.
- Fully safety interlocked.
- Operating parameters are manual and directly controlled by the user.

JACKETED SCREW CASING AS STANDARD

- Product can be heated or cooled as required.

REQUIREMENTS

Standard laboratory electricity supply required.

Caleva Process Solutions is a British company which designs, manufactures and supplies equipment for development and production for the pharmaceutical and allied industries.



The only bench-top extruder with variable die hole diameter ***and depth*** with both radial and axial extrusion.



*Figures for comparison only. Production rate will depend on the machine configuration and the product being configuration and the product being extruded.