



caleva

PRODUCT INFORMATION SHEET

PRODUCTION

CALEVA

# 150 KG PER HOUR PELLET PRODUCTION SYSTEM

A flexible Extrusion and Spheronization system for production

## PRODUCT INFORMATION



## THE CALEVA VARIABLE DENSITY 150 KG/HOUR PELLET SYSTEM

- Caleva offers you the best and most modern, cost effective extrusion and spheronization system for pellet production up to about 150 kg per hour.
- A uniquely designed production scale Twin Screw Extruder (VD-TSE70) offering **Variable Density** output to enhance your flexibility.

## DESCRIPTION

An easy to clean extrusion and spheronization system comprising the Caleva Spheronizer 700 and the Caleva VD-TSE 70 Extruder that offers improved design, fast turn-around for continuous production.

This system could be the smart answer for your manufacture of pellets (beads and spheroids).

The 150 kg/hour system is designed to be used in a range of industries such as pharmaceutical, catalyst manufacture, petrochemicals, food and ceramics.

For some industries an alternative type of extruder might be more suitable if the product requires hot melt extrusion.

With the Caleva Variable Density Twin Screw Extruder (VD-TSE-70) we offer you the opportunity to test your materials.



This compact and efficient Variable Density Extruder has processed up to 200 kg of extrudate per hour. The VD-TSE70 is robustly designed to be suitable for use with other "industrial" materials from the catalyst, petrochemical and other related industries.

Paired with the industry standard Caleva Spheronizer 700 the new Caleva Variable Density Twin Screw Extruder (VD-TSE 70) offer an extruder and spheronizer combination for production of up to 150 kg per hour of small pellets.

## 150 KG PER HOUR EXTRUDER AND SPHERONIZER PRODUCTION SYSTEM

### THE 150 KG/HR SYSTEM FOR YOUR PRODUCTION

- Rapid dismantling, cleaning and re-assembly leading to a higher rate of productive work.
- You can work smarter by avoiding long down time for cleaning.
- Highly integrated systems often require more cleaning. This system is simpler and smarter.
- Variable density extrudate offers more options for your production parameters to be right for your product.

### CALEVA SUPPORT

- Talk to us, the inventors of Spheronization .
- A faster start can lead you to better business.

### SAFETY AND VALIDATION

- Fully compliant to EU standards and CE marked for your protection because safety is important for all of your team.
- Full documentation packages including IQ/OQ are available.

### VARIABLE DENSITY-TWIN SCREW EXTRUDER 70

- Throughput of up to 200 kg/hr.
- Interchangeable dies with variable hole diameter and depth are available.
- Drilled screen holes for consistent extrudate.
- Ideal for production with.
  - Digital display of extrudate temperature.
  - Digital display of machine load and rotation speed.
  - “Triple compression” design on axial extrusion (unique to Caleva on axial extruders)



Modern extrusion technology with an axial die configuration supporting a wide range of die diameter and depths offering triple compression in a Variable Density Extruder.



Hole diameters and depth combinations to be suitable for your requirements..

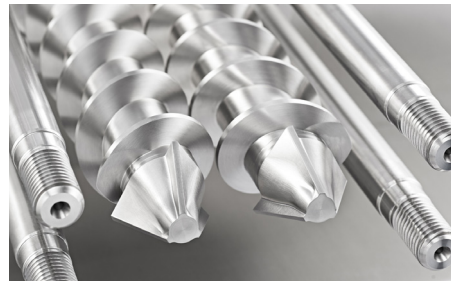
## 150 KG PER HOUR EXTRUDER AND SPHERONIZER PRODUCTION SYSTEM

Improved extrusion technology with the caleva cone system (compared to dome systems). Consistent dies holes and pressing cam to screen distances. Minimal flexing during operation. Triple compression extrusion using Caleva cone dies.



Extruder screw system detail showing the triple compression system for the axial die configuration

Extruder screw system detail showing the triple compression system for the cone die configuration



### SPHERONIZER 700

- Loads from 2 kg to 15kg with a water jacketed bowl.
- Integrated run timer with automatic discharge, motor power readout, product temperature display.
- Fines air connections.
- Variable disc patterns available.

### HOW DO YOU PLAN TO USE IT?

- ✓ Spheronizer loads from 2 kg, to a throughput of about 150 kg per hour.
- ✓ Rapid turnaround for re-use.
- ✓ Commercial production.
- ✓ Variable Density production on a commercial scale.

### TALK TO US

Please call us without obligation

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Certificate Number: 1503