



caleva

PRODUCT INFORMATION

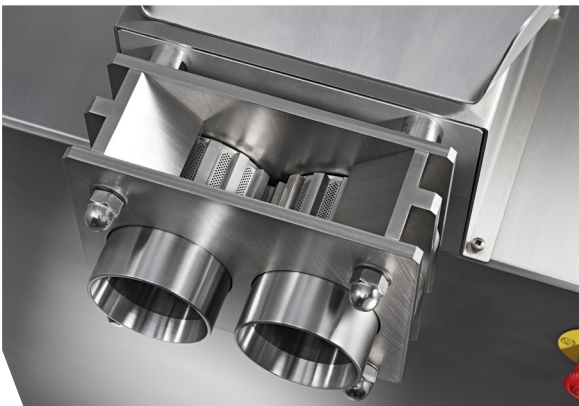
PRODUCTION

CALEVA

# GEAR EXTRUSION HIGH DENSITY PELLET SYSTEM

High density extrusion with minimum heat generation

## PRODUCT INFORMATION



## DO YOU NEED TO MAKE HIGHER DENSITY EXTRUDATE OR PELLETS WITH A MINIMUM OF HEAT GENERATION?

- ✓ You can do this with screw extruders but this generally will generate unwanted heat
- ✓ With gear extruders you can use higher pressures and minimize the generation of unwanted heat

## DESCRIPTION

The Caleva high density Gear Extrusion and Spheronization system is a small scale production kit with an output between about 40 to 60 kg per hour linked with a Caleva Spheronizer 500. The Caleva Gear Extruder 40 is a cost effective gear extruder ideal for many industrial and pharmaceutical applications where a dense, high quality, extrudate is required.

Gear extruders have significant and real advantages when high density extrudate is required with products that can be sensitive to heat. The principle of operation is different to other extruders. The product is allowed to fall between two rotating gears. The base of the gear tooth has holes so that the product is pushed through the base of each gear into the hollow centre and falls out of the front of the gear.

This process is the type of extrusion that generates the least possible amount of heat during the extrusion process. If you need a high density Extrudate and your product is sensitive to heat then talk to us and discover if a gear extruder is the right choice for you.

## CALEVA SPHERONIZER (MARUMIZER) 500:

- Loads from 2 to 8 kg

## CALEVA EXTRUDER 40

- Throughput of up to 64 kg per hour has been achieved with standard products and a 1x4 mm die hole size

## HIGH DENSITY GEAR EXTRUDER SYSTEM

- ✓ The Caleva Gear Extruder 40 paired with the Caleva Spheronizer 500 to make up the **Caleva High Density (Minimum Heat) Pellet System**

### GEAR EXTRUDER 40

- Gear ("Long-Die") extruder
- High pressure
- Low heat generation
- Ideal for medium scale production



### SPHERONIZER 500

- Water jacketed bowl
- Run timer with automatic discharge
- Fines air system included
- Variable disc patterns available
- Operator speed control
- Discharge door with "air blast" assistance



### CALEVA SUPPORT AND RELIABILITY

- You will have support from the inventors of spheronization
- A faster start can mean more business for you
- Uncomplicated control system to keep your production going

### SMALL FOOTPRINT

- Separate units that you can store easily when not in use
- Will pass through a standard (800mm) door
- Use your available space efficiently

## HIGH DENSITY GEAR EXTRUDER SYSTEM

### SAFETY

- Fully compliant to EU standards
- Safety you can be sure of for all your team
- Full documentation packages including IQ and OQ available

### WHEN WOULD YOU SELECT A GEAR EXTRUDER?

- ✓ If you want higher compression than a screen extruder will give you
- ✓ If you need less heat generation than a screw extruder will generate
- ✓ A gear extruder could be your best option if you need higher extrusion pressures and your product is sensitive to heat
- ✓ Talk to us to receive more information

### THE CALEVA HIGHER DENSITY KIT

- ✓ Is best for any manufacturer who needs to produce higher quality, higher density pellets whilst generating the minimum possible amount of heat



### TALK TO US

Please call us without obligation

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Cert No. 1503  
ISO 9001