PRODUCTION GEAR EXTRUDER 40

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TECHNICAL SPECIFICATIONS

A COMPONENT OF THE CALEVA HIGH DENSITY GEAR EXTRUSION SYSTEM

THE CALEVA PRODUCTION HIGH DENSITY GEAR EXTRUDER 40

Caleva pilot and production scale high density, low heat, gear Extruder 40

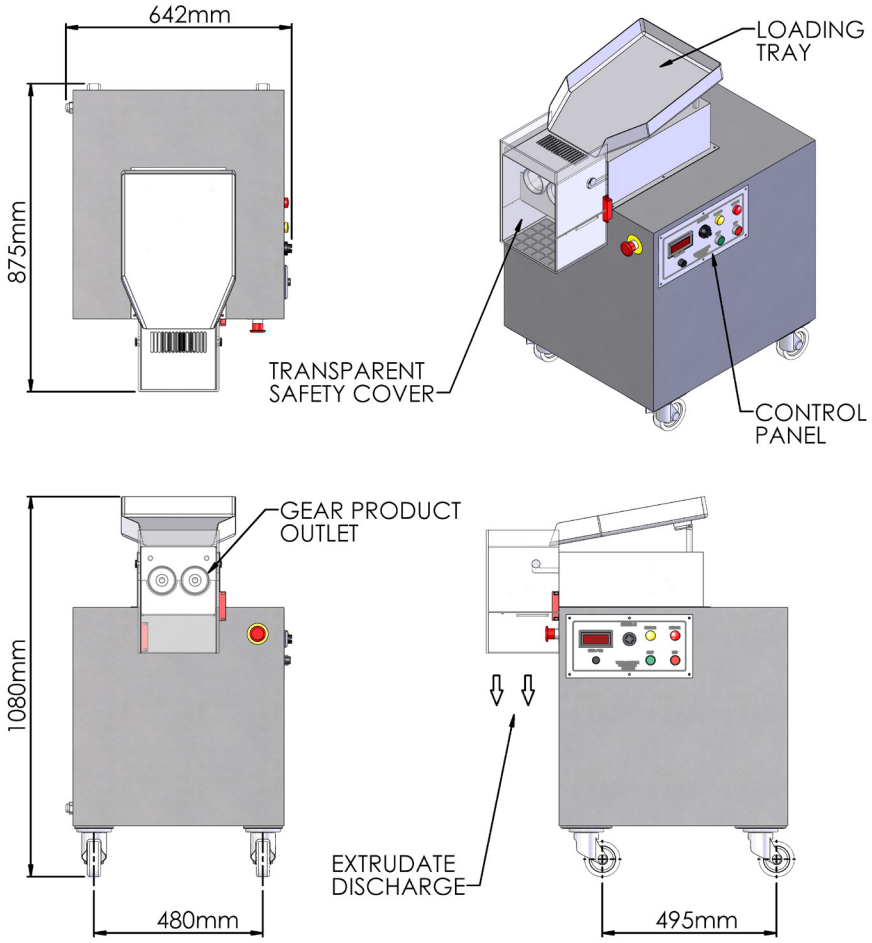
Output range	Approximately 1 kg per minute or ~60 kg per hour (product dependant) High density extrudate
Suitability	R&D, pilot scale and full production
Mechanical information	
Size	Approximately 860 mm 600 mm x 980 mm
Weight	Approximately 150 Kg
Cabinet	Brushed type 304 stainless steel
Product Contact	316 stainless steel, polycarbonate, FDA food approved plastics
Extrusion gears	Internal diameter 75 mm internal diameter Standard 1 mm Ø x 4 mm deep holes Hole diameters from 0.5 mm to 2.0 mm diameter are available
Rotation speed	50 to 150 rpm
Product feed	Manual from loading tray
Product output	Extrudate falls from the screen into a container (not supplied)
Discharge height	~650 mm
Electrical information	
Motor power	2.2 kW AC motor
Electrical supply	400VAC 50Hz or 460VAC 60 Hz 3 phase
Control panel	Side panel mounted controls comprising stop, start, power connected indicator, motor running indicator, and a variable speed control with a digital display of rotation speed.
Other features	
Extrusion pressure	Rated as “high” with hole diameter:depth ratio of 1:4
Heat generation	Rated as “low” in line with the gear extruder principle
Safety	Fully safety interlocked
CE marking	As standard, IQ/OQ available if required

Gear Extruder 40 product entry port with safety covers removed

Gear Extruder 40 product delivery port with safety covers removed

CALEVA
GEAR EXTRUDER 40

General arrangement diagram
Weight approximately 150 kg



TALK TO US

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SPHERONIZER 500

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TECHNICAL SPECIFICATIONS

A COMPONENT OF THE CALEVA HIGH DENSITY GEAR EXTRUSION SYSTEM

THE CALEVA PRODUCTION AND PILOT SCALE SPHERONIZER 500

Caleva production Spheronizer 500

Capacity guide	100 kg per hour
Batch sizes	2 kg to 8 kg

Mechanical information

Size	Approximately 1257w x 1275h x 660d mm
Weight	Approximately 320 Kg
Cabinet	Brushed Type 304 stainless steel
Product Contact	316 stainless steel and polycarbonate
Standard disc	One 3mm cross hatch pattern spheronizer disc supplied as standard with other disc patterns available
Product feed	Manual
Product discharge	Manual / Automatic (operator selectable) "Air blast technology" to assist in the cleaning of the discharge door, particularly useful for continuous operation
Discharge height	857 mm

Electrical information

Motor power	4.0 kW AC motor
Electrical supply	380-460 VAC, 50-60 Hz, 3 ph, 5.5 A
Controls	Mounted on machine front panel
Information panel	- Rotational speed (RPM) - Run time remaining (Seconds)

Other features

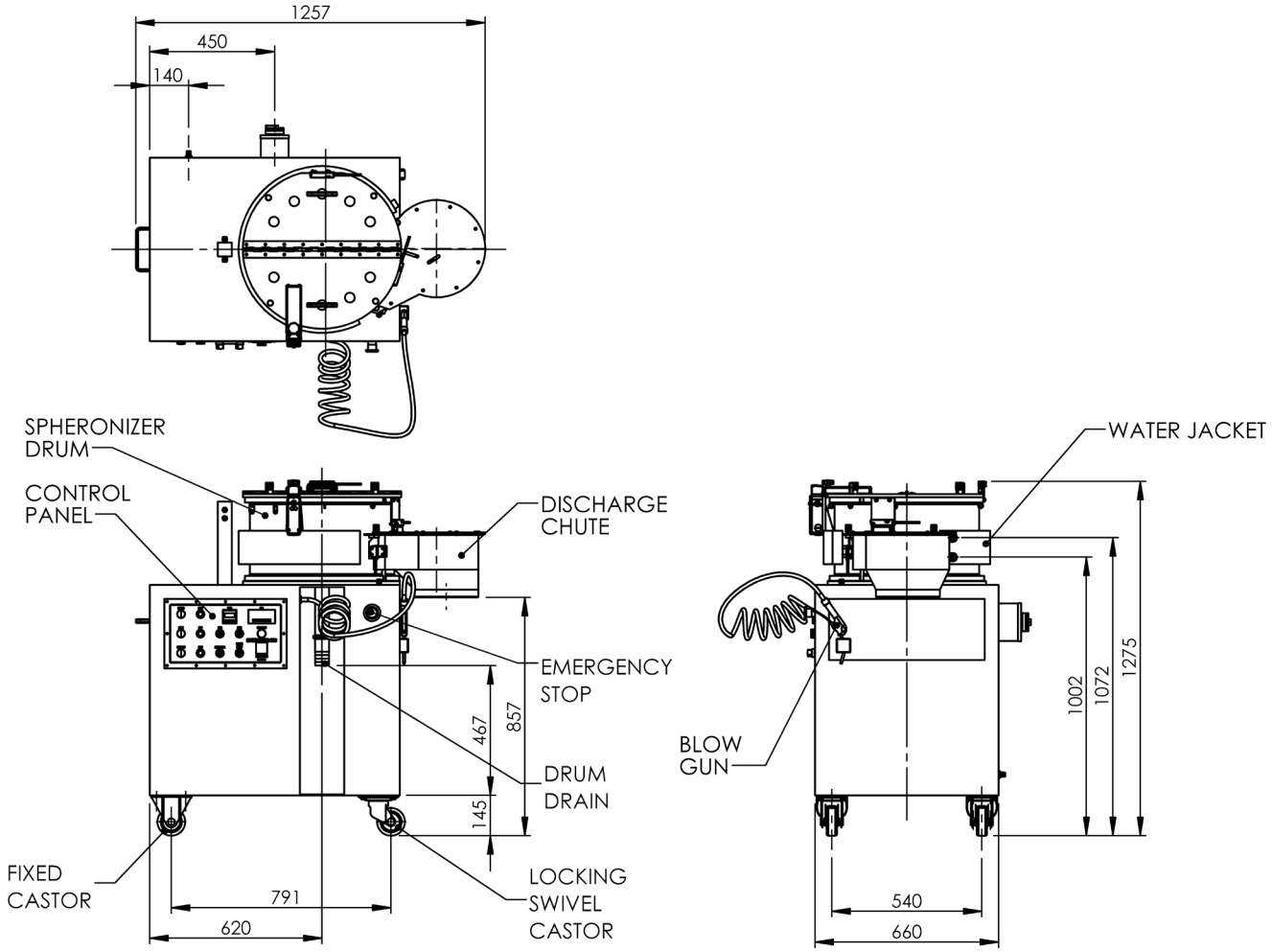
Disc pattern	3x3 mm cross hatch (options available)
Disc removal	Manual with provided tool
Safety	Fully safety interlocked
Discharge	Fully automatic pneumatic door
Water Jacket	As standard for heating or cooling product
Automatic timer	As standard and operator controlled
Air blast cleaner	As standard and unique to Caleva
CE marking	As standard with IQ/OQ available
Fines air	As standard to reduce dust losses
Discharge chute	Round design with angular discharge

"Clean without stopping" spheronizer air blast system

Production spheronizer disc removal system

CALEVA
SPHERONIZER 500

General arrangement diagram
Weight approximately 320 kg



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