



# Encapsulation

## Product Data







# Encapsulation Product Data

## Contents

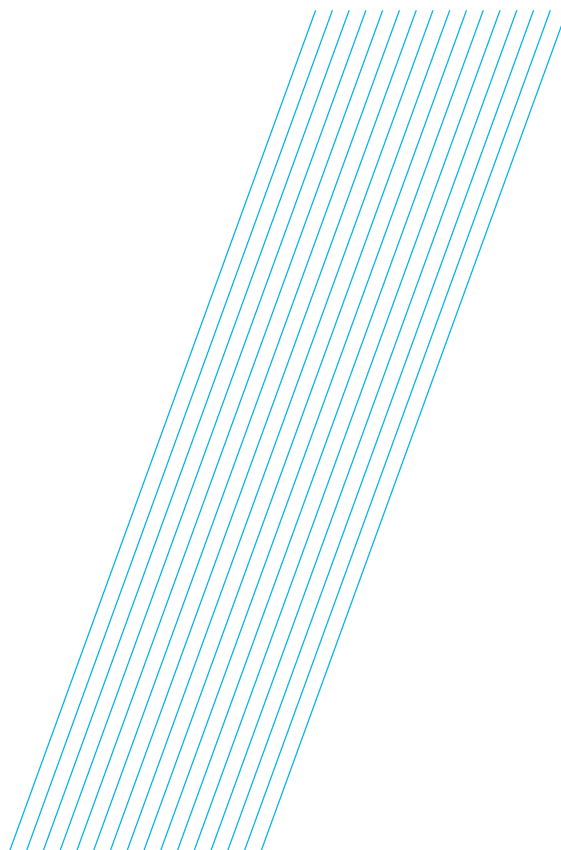
---

BETA**CAP** 24 / 48

DELTA**CAP** 72 / 210

SIGMA**CAP** 270

---



# BETACAP24/48

## Automatic Capsule Fillers

Despite a small footprint, the BETACAP range of encapsulation machines deliver much fast production speeds and capacities. They have all been constructed to the highest cGMP standards.

The BETACAP48 is able to fill pellets (up to 36,000 capsules per hour) and powder (up to 48,000 capsules per hour) – using the optional attachment – all with a very high degree of accuracy.

Manufactured to the highest standards and compliant with current GMP and CE standards, BETACAP is compact and is manufactured to a very high standard of construction.

Its transmission system is steady and reliable, and helps keep operating noise to a minimum – a real benefit in small production areas.

### PLC Control

BETACAP machines all feature a fully automatic control system together with user-friendly touch screen HMI, making them easy to operate. They use an industrial PLC and all CE standard components to control the entire machine.

### Operator Access

Two large top-hinged doors swing up and open for complete access to all areas of the compression zone allowing easy cleaning and maintenance.



BETACAP includes many standard features increasing performance and reliability, these features include:

- Easy to maintain and operate
- Industrial PLC controls with colour TFT HMI display
- Dosage precision with dynamic adjustments
- Un-opened capsule rejection
- Easy capsule size change
- Powder and pellet dosing stations
- cGMP compliant
- CE marked



Technical Specification	BETACAP 24	BETACAP48
Capsule output (Pellet max):	18,000/hr	36,000/hr
Capsule output (Powder max):	24,000/hr	48,000/hr
Capsule sizes:	00#, 0#, 1#, 2#, 3#, 4#, 5#	00#, 0#, 1#, 2#, 3#, 4#, 5#
Electrical		
Main drive motor:	380V, 50Hz, 3pH, 5.5 kW	
Vacuum pump:	BECKER Oil Free KVT 3.80	
Speed control:	Inverter	
Working Environment		
Ambient temperature:	18°-24°C	
Relative humidity:	45%-55% RH	
Working noise:	<70dB	
Dimensions		
Footprint:	800 x 970 mm	
Overall height:	1870 mm (including hopper lifting)	
Weight:	850 kg	

# DELTA**CAP** 72 / 210

## Automatic Capsule Fillers



The DELTA**CAP** series of encapsulation machines deliver faster production speeds and capacities.

The DELTA**CAP**210 is able to fill pellets (up to 136,000 capsules per hour) and powder (up to 210,000 capsules per hour) – using the optional attachment – all with a very high degree of accuracy.

Manufactured to the highest standards and compliant with current GMP and CE standards, DELTA**CAP** machines feature a cantilever-type touch screen control panel, allowing accurate dosage adjustments.

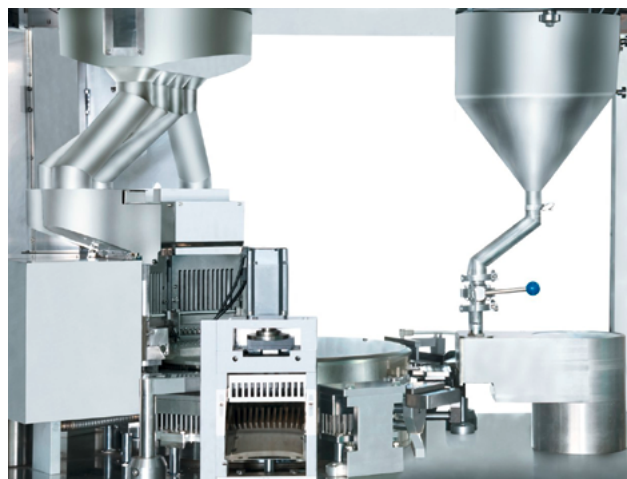
### **PLC Control**

DELTA**CAP** machines feature a fully automatic control system together with user-friendly touch screen HMI, making them easy to operate. They use an industrial PLC and all CE standard components to control the entire machine.

The pellet filling device is controlled by the upper and lower moving plates, with very high precision. It can be used for different pellet volumes.

**DELTA**CAP** includes many standard features, increasing performance and reliability:**

- 10" colour TFT HMI touch screen with real-time operator data
- Industrial PLC controls
- Low power consumption
- Excellent cost performance ratio
- PLC controlled automatic lubrication system
- Flexible machine setup
- Empty capsule rejection
- Multiple access doors for ease of cleaning and operation
- Batch counters and control
- Control of ancillary items, dedusters etc.



Technical Specifications	DELTA <b>CAP</b> 72	DELTA <b>CAP</b> 210
Capsule output (Pellet max):	56,000/hr	136,000/hr
Capsule output (Powder max):	72,000/hr	210,000/hr
Capsule sizes:	00#, 0#, 1#, 2#, 3#, 4#, 5#	00#, 0#, 1#, 2#, 3#, 4#, 5#
<b>Electrical</b>		
Main drive motor:	380V, 50Hz, 3pH, 7 kW	380V, 50Hz, 3pH, 7.5 kW
Vacuum pump:	BECKER Oil Free KVT 3.80	
Speed control:	Inverter	
<b>Working Environment</b>		
Ambient temperature:	18°-24°C	
Relative humidity:	45%-55% RH	
Working noise:	<78dB	
<b>Dimensions</b>		
Footprint:	1410 x 1144 mm	
Overall height:	2000 mm	
Weight:	1700 kg	1850 kg



# SIGMA**CAP**270

## Automatic Capsule Filler



SIGMA**CAP** is the top level in the AVE Technologies encapsulating series. It has an 8 station capsule turntable suitable for high capacity production of multiple types of products.

It has a highly reliable and robust transmission system. It is able to fill pellets (up to 205,000 capsules per hour) and powder (up to 270,000 capsules per hour) – using the optional attachment – all with a very high degree of accuracy.

There is a separate control panel fixed on a cantilever arm, ensuring safety for the operator and sanitary production.

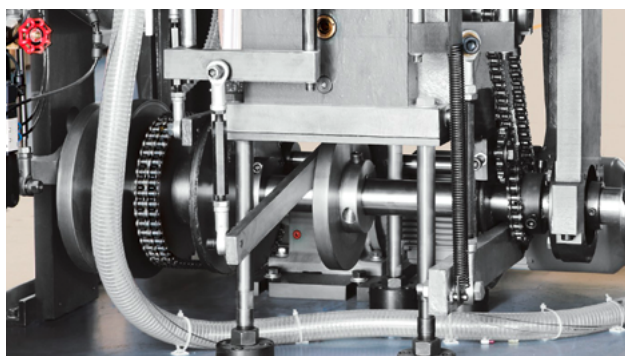
SIGMA**CAP** has a narrow depth footprint, and safety doors that open on all sides to allow unmatched operator access and convenient cleaning.

With low noise operation, the ability to handle a variety of product types, along with high speed production makes SIGMA**CAP** the perfect solution to meet all your capsule production needs



**SIGMA<sup>CAP</sup> includes many standard features, increasing performance and reliability:**

- 10" colour TFT HMI cantilever touch screen with real-time operator data
- Industrial PLC controls
- Low power consumption
- High capacity, saves labour costs
- PLC controlled automatic lubrication system
- Flexible machine setup
- Empty capsule rejection
- Multiple access doors for ease of cleaning and operation
- Batch counters and control
- Control of ancillary items, dedusters etc.



#### Technical Specification

Capsule output (Pellet max):	205,000/hr
Capsule output (Powder max):	270,000/hr
Capsule sizes:	00#, 0#, 1#, 2#, 3#, 4#, 5#

#### Electrical

Main drive motor:	380V, 50Hz, 3pH, 8.3 kW
Vacuum pump:	BECKER Oil Free KVT 3.140
Speed control:	Inverter

#### Working Environment

Ambient temperature:	18°-24°C
Relative humidity:	45%-55% RH
Working noise:	<75dB

#### Dimensions

Footprint:	1500 x 900 mm
Overall height:	2000 mm
Weight:	1900 kg



# ANCILLARY EQUIPMENT

---

## Capsule Polisher

The AVE Capsule Polisher is designed to clean and polish filled capsules through vacuum, rotary brushing and dust extraction

It can handle a wide range of capsule sizes and throughputs. It comprises an all stainless steel (316L) housing with GMP approved contact parts.

Dismantling and removal of the cleaning brush is quick and simple for ease of cleaning. Fitted with an empty capsule sorter which removes unfilled shell prior to the inlet of the polisher.

The product inlet and outlet positions can be adjusted to suit the capsule discharge height. Mounted on a stand with anti-vibration mounts.



## Powder Loader

Automatic powder transfer system designed to automatically load and maintain the powder level in the product hopper of tablet presses and capsule filling machines.





---

**AVE Technologies also offer:**

Tablet Compression Solutions

SoftGel Systems

Coating Systems

Cartoning Systems

Counting Line Systems

Blister Packing Solutions

Jelly & Gummy Production Solutions

Granulation Systems

All images are for illustrative purposes.  
Specifications are subject to regular  
updating. Please contact AVE Technologies  
for latest product details.

**AVE Technologies Ltd.**  
**T:** +44(0)1342 458 248 **E:** [info@avetechnologies.co.uk](mailto:info@avetechnologies.co.uk)  
[www.avetechnologies.co.uk](http://www.avetechnologies.co.uk)

