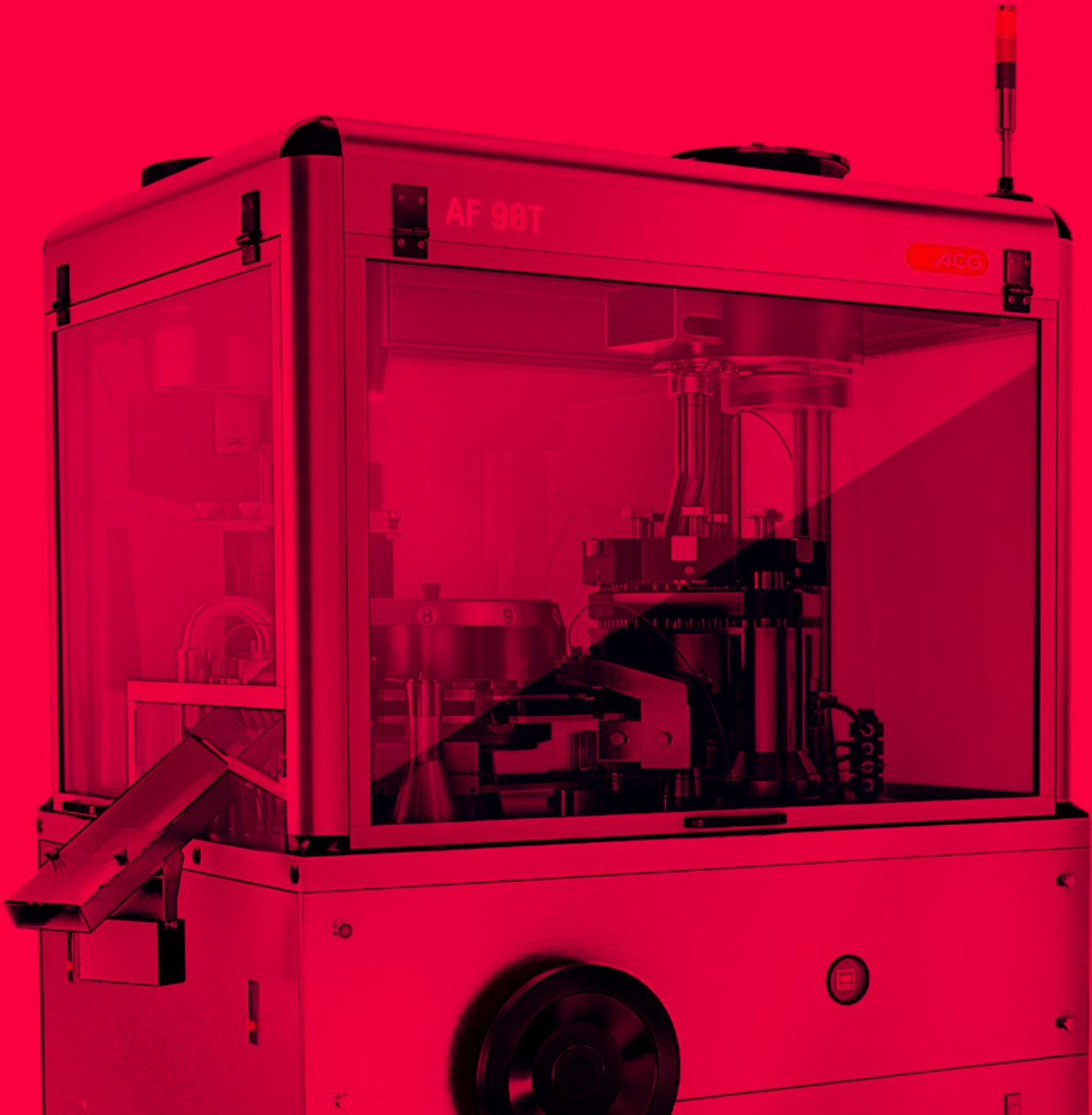




Make it better.

MACHINERY

# Encapsulation



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# AF series

With 2,227 successful installations (and counting) across the world, ACG's AF (automatic filling) series is a versatile high-speed option with a reputation for robustness over longer production runs. Fulfilling all GMP requirements, our AF machines support operations at hundreds of US FDA, EMA, MHRA, WHO and TGA-approved factories and have handled over 3,000 different formulations.

**Applications**  
Fills pellets, tablets, micro-tablets, capsules, soft gels, and their combinations in capsules



Find this information on our website:  
Machinery > Encapsulation > Solid fill > AF series

| Features                                                                                                   | Benefits                                                                                                                                                         |
|------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| High capsule-filling accuracy thanks to a precise slug-dosing principle                                    | Provides a better yield of high-quality capsules within optimal weight-variation limits, while reducing powder wastage                                           |
| Partial filling capability (up to 25 mg) for capsule sizes 000 to 5                                        | Allows filling of capsule-based dry-powder inhalation (cDPI) formulations with minimum excipients, as well as filling of low-dose API with or without excipients |
| Quick and easy mechanical changeover                                                                       | Increases productivity with minimum downtime                                                                                                                     |
| Capable of filling powders, pellets, tablets, micro-tablets, capsules, soft gels, and combinations thereof | Diverse filling options expand opportunities to a wider range of capsule products                                                                                |
| Can be integrated with ACCURA – online 100% capsule checkweighers                                          | Allows capsule filling and weight-checking in one pass                                                                                                           |

| Technical specifications |              |                       |
|--------------------------|--------------|-----------------------|
| Model                    | Capsule size | Maximum speed         |
| AF 40T                   | 000 – 5      | 40,000 capsules / hr  |
| AF 90T                   | 000 – 5      | 90,000 capsules / hr  |
| AF 150T                  | 000 – 5      | 150,000 capsules / hr |
| AF 200T                  | 000 – 5      | 200,000 capsules / hr |

# AF 25T

For pilot-scale batches, you want a machine that’s not only small and versatile, but also gives you capsules of dependably accurate fill weight. ACG’s AF 25T is that very machine. Compact and fully automatic, it’s perfect for small batches, and offers multiple capsule-filling options for excellent quality output.

**Applications**  
Fills pellets, tablets, micro-tablets, capsules, soft gels, and their combinations in capsules



Find this information on our website:  
Machinery > Encapsulation > Solid fill > AF series

| Features                                                                                                 | Benefits                                                                                                                                                         |
|----------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Precise slug-dosing principle                                                                            | Provides a better yield of high-quality capsules within optimal weight-variation limits, while reducing powder wastage                                           |
| Partial filling capability (up to 25 mg) for capsule sizes 000 to 5                                      | Allows filling of capsule-based dry powder inhalation (cDPI) formulations with minimum excipients, as well as filling of low-dose API with or without excipients |
| Swift and simple capsule size and product changeover                                                     | Minimal downtime means enhanced productivity                                                                                                                     |
| Capable of filling powders, pellets, tablets, micro-tablets, capsules, soft gels, and their combinations | Diverse filling options allow you to work on a wide range of capsule products                                                                                    |

| Technical specifications |                      |
|--------------------------|----------------------|
| Stations                 | 8                    |
| Capsule size             | 000 – 5              |
| Maximum speed            | 25,000 capsules / hr |

# ZRO series

ZRO is a patented ACG technology, developed with a singular objective – to ensure higher yields during capsule filling. With cutting-edge design, ZRO machines simplify the filling of capsules with powders that are difficult to tamp or compact, and reduce powder waste. They also increase yield significantly, and enhance overall equipment effectiveness (OEE).

**Applications**  
Fills pellets, tablets, micro-tablets, capsules, soft gels, and their combinations in capsules



Find this information on our website:  
Machinery > Encapsulation > Solid fill > ZRO series

| Features                                                                                                   | Benefits                                                                                                                                                                                    |
|------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Patented ZRO technology based on Zero Relative Motion (ZRM), in the powder-filling station                 | Achieves excellent capsule yield thanks to far less powder wastage<br><br>It can handle sticky, fluffy, hygroscopic, and heat-sensitive powders – and those with a high percentage of fines |
| Partial filling capability (as low as 25 mg) for capsule sizes 000 to 5                                    | Facilitates capsule filling of low-dose APIs, such as inhalation formulations                                                                                                               |
| Simple mechanical changeover in under an hour                                                              | Maximum productivity with minimum downtime                                                                                                                                                  |
| Capable of filling powders, pellets, tablets, micro-tablets, capsules, soft gels, and combinations thereof | Fully adaptable to creating a wide range of capsule products                                                                                                                                |
| Can be integrated with ACCURA – ACG’s 100% capsule checkweigher                                            | Guarantees accurately weighed capsules                                                                                                                                                      |

| Technical specifications |              |                       |
|--------------------------|--------------|-----------------------|
| Model                    | Capsule size | Maximum speed         |
| ZRO 90T                  | 000 – 5      | 90,000 capsules / hr  |
| ZRO 200T                 | 000 – 5      | 200,000 capsules / hr |



SA 9

Manual capsule-filling of pilot-scale batches can be daunting and cumbersome, while investing in automatic filling machinery might not seem economically viable. That's when you turn to SA 9 – ACG's semi-automatic capsule-filling machine. Developed with a degree of automation, SA 9 ensures a high fill-weight accuracy and high yields. And you can operate it easily and safely with minimal intervention or maintenance.

Applications

Fills capsules with powders and pellets



Find this information on our website:  
Machinery > Encapsulation > Solid fill > SA 9

Features

|                                                      |                                                 |
|------------------------------------------------------|-------------------------------------------------|
| Automatic loading station                            | No need for continuous monitoring               |
| Automatic filling station                            | Reduces operator workload                       |
| Capable of filling capsules with powders and pellets | Facilitates working on a wide range of products |

Benefits

Technical specifications

|               |                      |                      |                      |
|---------------|----------------------|----------------------|----------------------|
| Capsule size  | 00                   | 0                    | 1 – 5                |
| Maximum speed | 21,600 capsules / hr | 25,200 capsules / hr | 28,800 capsules / hr |

# SECUREFILL series

The SECUREFILL series is our high-level containment capsule-filling machine range. It's designed for filling capsules with highly potent drugs, and complies with occupational exposure band (OEB) up to level 4. Built with operator safety in mind, these machines are equipped for filling capsules with oncological, hormonal, biopharmaceutical, antiviral formulations, and other formulations containing highly potent active pharmaceutical ingredients (HPAPIs).

**Applications**  
Containment filling of pellets, tablets, micro-tablets, capsules, soft gels, and their combinations in capsules



Find this information on our website:  
Machinery > Encapsulation > Solid fill > SECUREFILL series

| Features                                                                                                                                                                                               | Benefits                                                                                                    |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------|
| Constructed as a monoblock SS316L structure featuring HEPA filters, a rapid transfer port (RTP), and glove ports, all maintained under negative pressure to ensure contained handling of drug products | Ensures complete containment, thereby avoiding operator contact within OEL range 1 – 10 µg / m³             |
| Provision for contained charging and discharging                                                                                                                                                       | Integrated containment for upstream and downstream processes                                                |
| Wet-in-place system to ensure wetting of all suspended particles in the pharma zone                                                                                                                    | Protects the operator and the operational environment from formulation residues – and enables easy cleaning |
| Certified for highly potent and cytotoxic formulations requiring OEB up to level 4                                                                                                                     | Supports the production of life-saving drugs that contain HPAPIs, such as oncology products                 |
| Can be integrated with check-weighers, metal detectors, capsule sorters, and de-dusters under containment conditions                                                                                   | Ensures safe production of high-quality capsules                                                            |

### Technical specifications

| Model          | Capsule size | Maximum speed        | OEL            |
|----------------|--------------|----------------------|----------------|
| SECUREFILL 6T  | 00 – 5       | 6,000 capsules / hr  | 1 – 10 µg / m³ |
| SECUREFILL 12T | 00 – 5       | 12,000 capsules / hr | 1 – 10 µg / m³ |
| SECUREFILL 25T | 00 – 5       | 25,000 capsules / hr | 1 – 10 µg / m³ |
| SECUREFILL 40T | 00 – 5       | 40,000 capsules / hr | 1 – 10 µg / m³ |

LIQUID FILLING

FLUIDOCAP F70

This fully automatic machine is designed for easy liquid-filling of two-piece hard capsules such as ACGcaps™ GL or ACGcaps™ HL. With output options ranging from 20,000 to 70,000 capsules per hour, you can use the machines not only for free-flowing liquids, but also pastes, suspensions, thixotropics and hot-melts.

Fluidocap F70 works best with medium to large batches.

**Applications**  
Fills liquid and pellets, tablets, micro-tablets, capsules, soft gels and their combinations in liquid



Find this information on our website:  
Machinery > Encapsulation > Liquid fill > FLUIDOCAP F70

| Features                                                                                                            | Benefits                                                                        |
|---------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------|
| Equipped with ‘no-capsule-no-fill’ sensors                                                                          | Significantly less waste                                                        |
| Can handle fluid formulations across a wide range of viscosities                                                    | Far easier filling of capsules with pastes, hot melts and thixotropic solutions |
| Capable of filling liquid and pellets, tablets, micro-tablets, capsules, soft gels and their combinations in liquid | The versatility to create a wider range of capsule products                     |
| A built-in nitrogen / inert gas purging system                                                                      | Supports the filling of oxygen-sensitive formulations                           |

| Technical specifications |                      |
|--------------------------|----------------------|
| Capsule size             | 00 – 4               |
| Maximum speed            | 55,000 capsules / hr |



LIQUID FILLING

# FLUIDOCAP 1000

If you're looking to fill hard capsules with liquid, FLUIDOCAP 1000 is the ideal R&D or pilot-scale machine. It's semi-automatic, and integrates filling, closing and band-sealing processes in one compact and robust package. It can process a wide variety of capsules, from sizes 00 to 4, in gelatin and vegetarian variants.

**Applications**  
Capsule filling with liquid, hot melts and pastes, and band sealing



Find this information on our website:  
Machinery > Encapsulation > Liquid fill > FLUIDOCAP 1000

| Features                                                                         | Benefits                                                                                  |
|----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|
| A single, small-footprint machine that integrates filling and sealing operations | Optimal use of space                                                                      |
| Can handle fluid formulations across a wide range of viscosities                 | Easy, reliable filling of capsules with pastes, hot melts and thixotropic solutions       |
| Capable of band-sealing and drying filled capsules                               | Ensures integrity of the dosage form, provides brand distinction, and enhances shelf life |

| Technical specifications |                     |
|--------------------------|---------------------|
| Output                   | 00 – 4              |
| Maximum speed            | 1,000 capsules / hr |

BAND SEALING

# PROSEAL 70

PROSEAL 70 is a capsule band sealing machine ideal for sealing two-piece hard capsules filled with liquids of varying viscosities, along with pellets, tablets, capsules and combinations thereof. PROSEAL 70 can be integrated with FLUIDOCAP, offering a seamless liquid-filling and band-sealing solution.

**Applications**  
Capsule band sealing



Find this information on our website:  
Machinery > Encapsulation > Band sealing > PROSEAL 70

| Features                                                                        | Benefits                                                                                      |
|---------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|
| Monocoque chassis design                                                        | Provides stability with reduced susceptibility to setting disturbances                        |
| Three-drum loading and orientation system                                       | Smooth and efficient capsule loading                                                          |
| Provision for manual and automatic gelatin bath replenishment                   | Flexibility in operation                                                                      |
| Option of automatic viscosity control and gelatin recycling system              | Better in-process control – ensures the required viscosity<br><br>Prevents wastage of gelatin |
| Improved drying through two blowers – one for suction and another for discharge | Effective airflow management to help drying of capsule seals                                  |

Technical specifications

|        |                      |
|--------|----------------------|
| Output | 70,000 capsules / hr |
|--------|----------------------|

# Empty capsule sorter (ECS 100)

ECS 100 is designed for the automatic sorting of empty capsules, loose caps and loose bodies from filled capsules produced in the automatic encapsulation machine.



Find this information on our website:  
Machinery > Encapsulation > Encapsulation ancillary > ECS 100

| Features                                                           | Benefits                                               |
|--------------------------------------------------------------------|--------------------------------------------------------|
| Removes all empty capsules and checks for loose caps or loose body | Ensures only filled capsules proceed                   |
| Compact dimensions                                                 | Can easily be accommodated in the capsule-filling line |
| Simple sorting mechanism                                           | Easy operation and maintenance                         |

| Technical specifications |                             |
|--------------------------|-----------------------------|
| Output                   | Up to 200,000 capsules / hr |

# Mini capsule sorter (MCS)

Sorting capsules manually can be slow, tiring, and inconsistent. The mini capsule sorter automates the process, ensuring only perfectly shaped capsules make it into the batch. It efficiently removes diametrically distorted capsules, loose caps, and excess powder – saving time while improving product quality.



Find this information on our website:  
Machinery > Encapsulation > Encapsulation ancillary > ECS 100

| Features                                | Benefits                                                                                                           |
|-----------------------------------------|--------------------------------------------------------------------------------------------------------------------|
| Small footprint occupying minimum space | Can be easily integrated with an automatic capsule-filling machine                                                 |
| Consumes low power                      | Cost-effective                                                                                                     |
| Sorts capsules of sizes 000 to 5        | Eliminates diametrically defective filled capsules regardless of their sizes, ensuring no lost time in changeovers |

| Technical specifications |               |               |
|--------------------------|---------------|---------------|
|                          | MCS 100       | MCS 200+      |
| Output (capsules/h)      | Up to 110,000 | Up to 200,000 |

# Checkweigher (CW 10)

CW 10 is a fully automatic online sample checkweigher designed for statistical weight control of filled capsules. CW 10 provides you with timely reports on weight variation within the batch.



Find this information on our website:  
Machinery > Encapsulation > Encapsulation ancillary > CW 10

| Features                                                                                | Benefits                                                            |
|-----------------------------------------------------------------------------------------|---------------------------------------------------------------------|
| Fully automatic operation for sample collection, weighing and reporting                 | No manual intervention required                                     |
| Format-free design                                                                      | Online sample checkweighing of capsules of any formulation and dose |
| Weighing with an accuracy of + / -1 mg                                                  | Reliable results                                                    |
| Sampling can be done on a 'time-interval' basis or 'number of strokes / interval' basis | Flexibility in sampling                                             |

Technical specifications

|        |                         |
|--------|-------------------------|
| Output | Up to 10 capsules / min |
|--------|-------------------------|



# De-dusting and polishing machine (DP)

DP is a horizontal de-dusting and polishing system that uses the rotating brush concept to continuously remove excessive powder from the surface of capsule shells. It can be integrated with encapsulation machines.



Find this information on our website:  
Machinery > Encapsulation > Encapsulation ancillary > DP

| Features                                           | Benefits                                                                                           |
|----------------------------------------------------|----------------------------------------------------------------------------------------------------|
| A polishing chamber with a spiral brush            | Ensures effective dedusting of capsules                                                            |
| Provided with an air displacement unit             | Ensures complete removal of dust from the capsule shell surface and prevents it from settling back |
| All product contact parts are food-grade-certified | Ensures safe handling of the product during operation                                              |

| Technical specifications |                             |                             |
|--------------------------|-----------------------------|-----------------------------|
|                          | DP 100                      | DP 200                      |
| Output                   | Up to 100,000 capsules / hr | Up to 200,000 capsules / hr |

# Filled capsule elevator (FCE)

FCE is used for transferring filled capsules between various processes – for example, from sorting to checkweighing.



Find this information on our website:  
Machinery > Encapsulation > Encapsulation ancillary > FCE

| Features                                     | Benefits                                                            |
|----------------------------------------------|---------------------------------------------------------------------|
| Transfers filled capsules using blower units | Transfers filled capsules without any manual intervention           |
| Conveys capsules of all sizes (000 to 5)     | Does not require different format parts for different capsule sizes |
| Automates the transfer of filled capsules    | Supports conformance to cGMP norms                                  |

| Technical specifications |                             |
|--------------------------|-----------------------------|
| Output                   | Up to 250,000 capsules / hr |

# Metal detector (MD)

MD detects minute particles of metal – ferrous, non-ferrous, and stainless steel – in tablets and filled capsules. The equipment is interfaced with the encapsulation and tablet compression machine, and separates tablets and capsules containing metal traces.



Find this information on our website:  
Machinery > Encapsulation > Encapsulation ancillary > MD

| Features                                                                           | Benefits                                                                                                                 |
|------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------|
| 100% online detection                                                              | Ensures the highest quality levels by rejecting tablets and capsules containing metal traces                             |
| High sensitivity to all metals, including non-magnetic stainless steel             | Guarantees against any kind of metallic contamination                                                                    |
| All contact parts are manufactured with SS316 or FDA-certified food-grade material | Ensures no metal residues are introduced into the capsules from the detector itself, so it's easy to validate the system |

| Technical specifications      |                       |         |
|-------------------------------|-----------------------|---------|
| Output                        | 270,000 capsules / hr |         |
| Detectable particle diameters | Ferrous               | 0.15 mm |
|                               | Non-ferrous           | 0.2 mm  |
|                               | Stainless steel       | 0.3 mm  |

# Sorter elevator (SE)

Connecting the SE to the automatic encapsulation machine's empty capsule hopper means defective empty capsules can be diametrically sorted out at the start. This helps prevent stoppage during the filling process.



Find this information on our website:  
Machinery > Encapsulation > Encapsulation ancillary > SE

| Features                                                                           | Benefits                                                                                        |
|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|
| Output of up to 220,000 capsules per hour (depending on the encapsulation machine) | The high speed of the sorter allows it to stay ahead of the encapsulation machine's consumption |
| Small footprint line machine                                                       | Saves space                                                                                     |
| Integrates with ACG's encapsulation machines to automate capsule loading           | Enables complete automation, for smooth operation                                               |

| Technical specifications |                             |                             |
|--------------------------|-----------------------------|-----------------------------|
|                          | SE 100                      | SE 200                      |
| Output                   | Up to 100,000 capsules / hr | Up to 220,000 capsules / hr |

# Product conveying system (PCS)

PCS automatically transfers powder / pellets to the hopper, and can easily be synchronised with the capsule-filling machine. Using the vacuum, it transfers the formulation to be filled in the capsules without segregation. PCS is constructed with stainless steel and other food-grade materials to ensure product safety.



Find this information on our website:  
Machinery > Encapsulation > Encapsulation ancillary > PCS

| Features                                       | Benefits                                                                               |
|------------------------------------------------|----------------------------------------------------------------------------------------|
| Transfer capacity of up to 400 litres per hour | Ensures a quick and constant supply of powder / pellets to the capsule-filling machine |
| Blower separated from the filling room         | Suitable for a silent operation area                                                   |
| No spillage / dusting during transfer          | Fully automated and cGMP-compliant                                                     |
| An additional filter bag fitted inside         | Ensures a safe working environment                                                     |

| Technical specifications |                  |
|--------------------------|------------------|
| Output                   | Up to 400 l / hr |

SPECIAL ATTACHMENTS

# CODE series

Enabling many innovations in the pharmaceutical industry, ACG's customised oral dosage encapsulation (CODE) series comprises custom-made attachments for special encapsulation needs. Retrofittable to encapsulation machines developed and manufactured by ACG, the CODE series enables the filling of capsules with a wide range of combinations – such as granules, pellets, powders, mini- and micro-tablets, capsules and soft gels.

Applications

**Solid filling**  
Powder, pellets, tablets, micro-tablets, capsules and combinations thereof

**Liquid filling**  
Liquids and pellets, tablets, micro-tablets, capsules, and their combinations in liquid and soft gels.



Find this information on our website:  
Machinery > Special Attachments > Encapsulation > CODE Series

Possibilities of filling capsules with different combinations using CODE

| Encapsulation machines | Fill type |                                              |        |
|------------------------|-----------|----------------------------------------------|--------|
|                        | Powder    | Tablets / pellets / micro-tablets / capsules | Liquid |
| AF series              | ✓         | ✓                                            | ✗      |
| FLUIDOCAP F70          | ✗         | ✓                                            | ✓      |
| SECUREFILL series      | ✓         | ✓                                            | ✗      |
| ZRO series             | ✓         | ✓                                            | ✗      |
| SA9                    | ✓         | ✓                                            | ✗      |

| Features                                                                                               | Benefits                                                                                                                            |
|--------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------|
| Adept at filling capsules with powders, tablets, capsules, pellets, liquids – and combinations thereof | Achieve highly versatile dosage forms<br><br>Option to combine more than one drug substance and release profile in a single capsule |
| Combinations of up to four different product types                                                     | Create innovative drug products that can facilitate patients' compliance with treatment regimes                                     |
| Retrofittable to all encapsulation machines across R&D, pilot and production scales                    | Enhances the versatility of the encapsulation machine without additional investment                                                 |
| Fully customisable to product weight and dimensions                                                    | Every attachment is suited to the needs of the application as required                                                              |
| Vision-based inspection systems                                                                        | For improved-quality capsules with higher accuracy in weight                                                                        |
| Minimal change parts required                                                                          | Higher value for money on investment, and cost-effective in the long term                                                           |



# Aftermarket. Not afterthought.

At ACG, we understand that when you get a new piece of factory equipment, you're buying far more than a machine; you're also investing in a relationship that will last its lifetime.

That's why we take our aftermarket service so seriously.

Whether you need advice or training, are preparing to make your factories 'smarter', or simply need a machine fixed fast, know that ACG will always go above and beyond to offer excellent service and value. As far as we're concerned, we're in this together – for life.



# Let's talk.

Get in touch to find out more about our range of products and services. If you have specific equipment needs, we can even collaborate on delivering a purpose-made solution. We look forward to chatting.

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