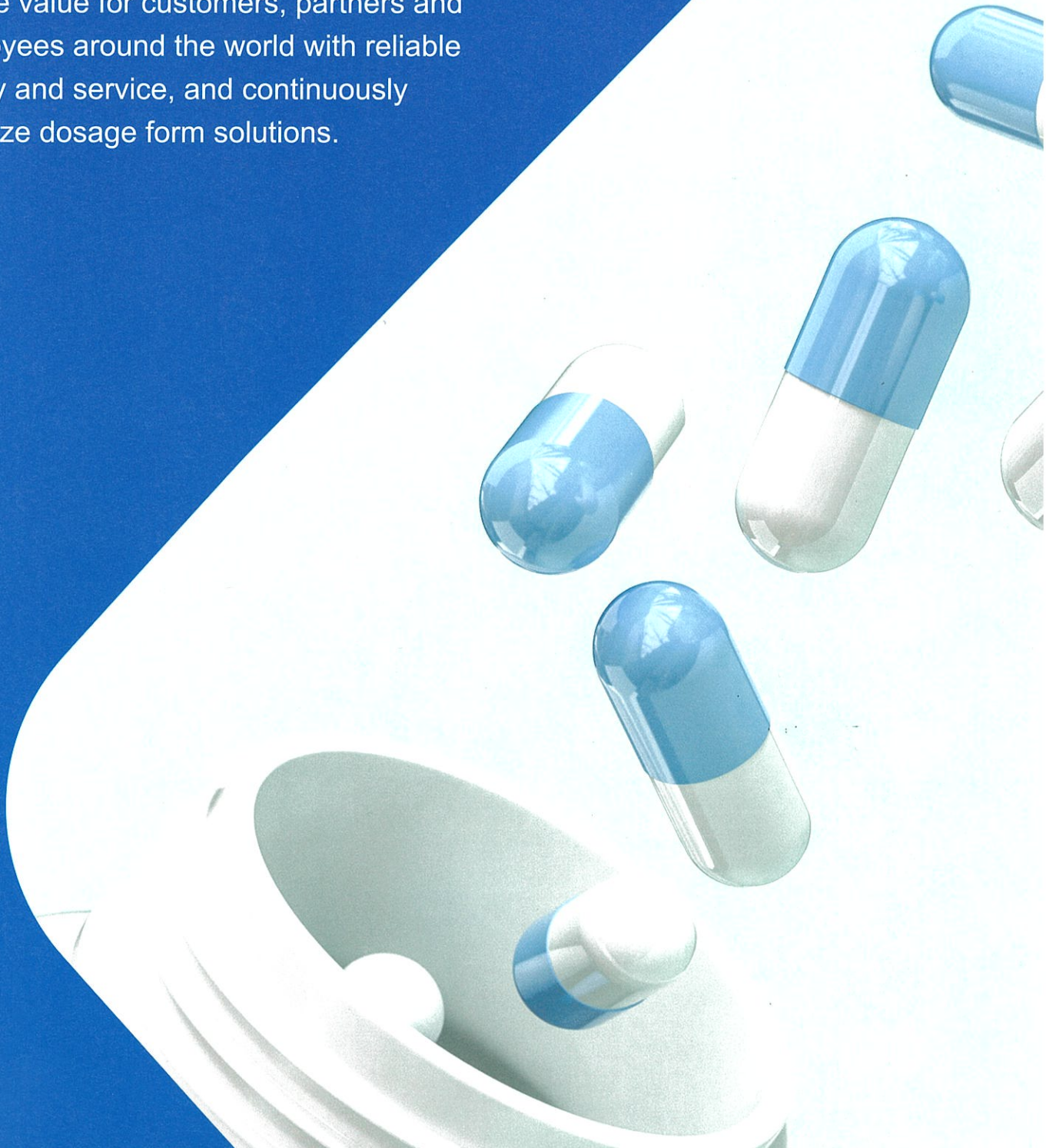


[*Glorious health for all*]
[*Successful life for all*]

GS Capsule

Create value for customers, partners and employees around the world with reliable quality and service, and continuously optimize dosage form solutions.



GS Capsule

GS Capsule was established in 1983 with over forty years of capsule industry expertise in our world class manufacturing facilities. GS Capsules is a premier global empty hard capsule manufacturer producing Gelatin, HPMC, Pullulan and Enteric Coated capsules. We offer 13 different capsule sizes ranging from 000# to 5, elongated versions, clinical trial applications and a wide range of customized color options. Currently, GS Capsule is the largest empty capsule manufacturer in China with 48+ billion capsule production capacity.

In December 2021, Advent International successfully acquired GS Capsule where Advent International is one of the largest and most experienced global private equity firms. Established in 1984, Advent has invested \$70 billion in over 405 private equity investments across 42 countries and deeply committed to the GS Capsule organization.

In order to meet the customer demands of different ethnic and religious culture, we have been validated through NSF international, British BRC and assigned with a DMF registration number by the US FDA. GS Capsule has also obtained ISO9001, ISO14001 and ISO45001, Halal and Kosher certifications to meet our client's needs.

Our diversified customer base includes companies that make dietary supplements, branded, generic and specialty pharmaceuticals, over-the-counter medicines, and biotech products. GS Capsule products are marketed throughout China and exported globally throughout North America, Europe, Asia and other countries abroad.

The GS Capsule vision is something we all own. It powers our mission, drives delivery of our strategy and helps make GS Capsule a place where people can thrive. Our vision of Glorious health for all, Successful life for all is the foundations for how, collectively we will deliver for our clients, shareholders and GS Capsule members.

Create value for customers, partners and employees around the world with reliable quality and service, and continuously optimize dosage form solutions. Our mission sets out the commitments GS Capsule and our people make to grow together – so we can deliver on our ambition the right way, bring our vision to life and make GS Capsule an exciting and inspiring place to work.

GS Capsule In Numbers

1000+	Clients
96	Automatic production lines
40	Years History
48	Billion Capacity
99.9%	In house test rate
NO.1	Certificate of CNAS in capsule industry



Our advanced capsule solutions



Complete supreme-quality
products and services portfolio



Capsule customizations
to meet your drug delivery requirements



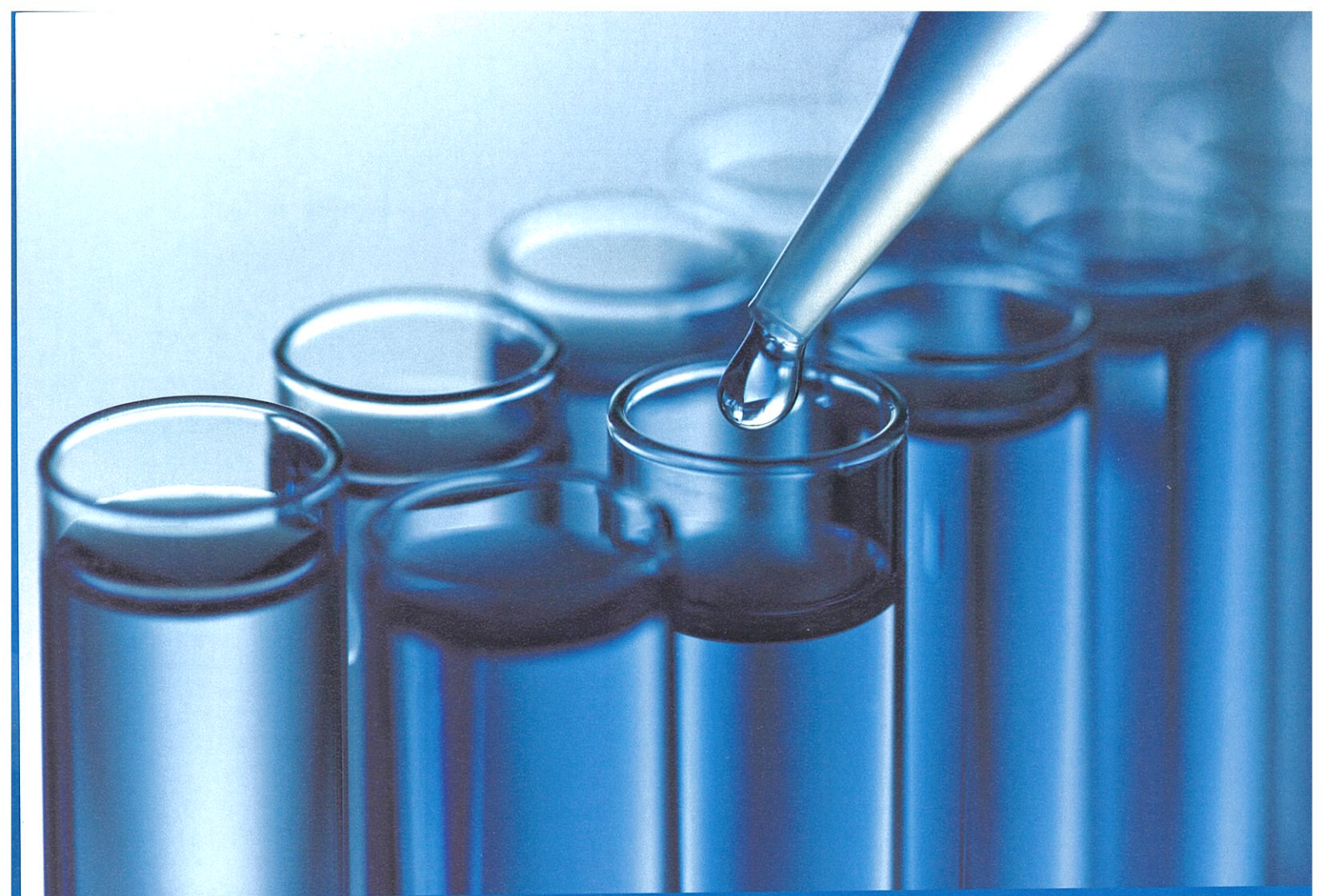
Capsule support services
that complement your development journey

At GS Capsule, our core values and global footprint allow us to offer unparalleled R&D and technical support services backed by world-class manufacturing and logistics infrastructure.

For more than four decades, we have been elevating the standards for supreme-quality capsules to help eliminate defects and minimize disruptions in manufacturing processes.

Establish the global network centered in China satisfy business demands of the world through substantial supply system. GS Capsule establishes the whole process from design to delivery not only in China but also all over the world and can provide the supply system and network of quality empty hard capsule.





Discover the alternatives

Our advanced, supreme-quality portfolio of
delivery and formulation solutions

GS Capsule

To meet the varied requirements of product dosage specifications of fill weight

and volume, and patient convenience. GS Capsule offers 13 different sizes in the capsules. These include the standard sizes between #00 to #5 plus special sizes

like #000, and many extended length options and a wide range of customized color options.

Our wide capsule portfolio developed to meet functionality demands across a multitude of practical applications

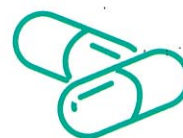
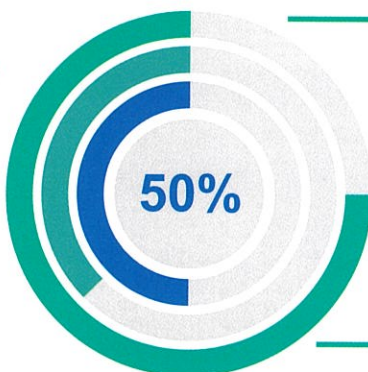
Whether you are in the research or commercial stage of your drug development pipeline, our extensive array of GS capsules open the door to your next breakthrough health product.

Our capsules are available in the a variety of conformations to meet you drug application needs:

By route of delivery
(oral, vaginal)

By release profiles
(immediate, delayed)

By drug development
milestones



Capsules are the globally preferred dosage form

Nearly 50% of consumers prefer capsules

Our advanced, supreme-quality portfolio of delivery and formulation solutions

GS Capsule

An optimized portfolio to accelerate your product development

Accelerate the research and development process of your nutritional supplement products. With more than 40 years of dosage form expertise, we have helped our customers configure a wide range of capsule solutions to meet many common applications and patient needs.

Oral release applications (immediate and modified release)



Engineered for immediate release

Gelatin polymer capsules

- Full range sizes
- Color match services
- Halal Certification Available
- Widely used in pharmaceuticals and dietary supplements



Plant-based capsule engineered for immediate release

HPMC polymer capsules

- Low Moisture Content
- Vegan and Natural
- Perfect option for moisture sensitive ingredients
- Machinability 99.9%



Capsules ideal for oxygen sensitive formulations - immediate release

Pullulan capsules plant-based

- Vegan and Natural
- Crystal Appearance
- Cross-Linking Reaction Free
- Low Oxygen permeability, extend shelf life



Ideal for enteric formulations without the need for external coating

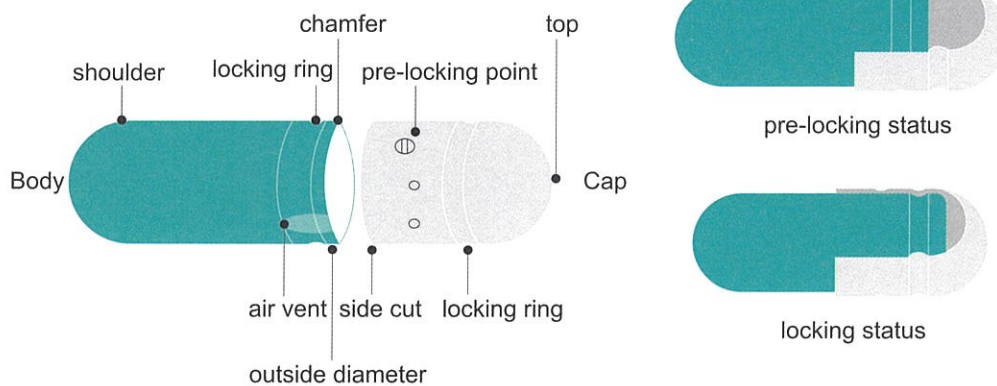
Enteric Gelatin capsules for enteric drug delivery

- Dissolve only in intestine juice
- Fully automatic production environment, superior microbe control
- Easier and more convenient way to develop a modified-release product

Capsule sizes

To meet the varied requirements of product dosage specifications of fill weight and volume, and patient convenience, GS Capsule offers 13 different sizes in the capsules. These include the standard sizes between #00 to #5 plus special sizes like #000, and many extended length options.

Specification & Dimension



Type	Cap mm	Body mm	Thickness mm	Grain Weight Difference mg
000#	13.1±0.4	22.0±0.4	0.115±0.020	±10
00#el	12.8±0.4	22.1±0.4	0.115±0.020	±9
00#	11.8±0.4	20.2±0.4	0.105±0.020	±9
A#	14.4±0.4	14.8±0.4	0.105±0.020	±8
B#	11.0±0.4	11.3±0.4	0.105±0.020	±8
0#el	11.8±0.4	20.2±0.4	0.105±0.020	±8
0#	10.9±0.4	18.6±0.4	0.100±0.020	±8
1#el	9.9±0.4	17.5±0.4	0.100±0.020	±7
1#	9.8±0.4	16.5±0.4	0.100±0.020	±7
2#	9.0±0.4	15.3±0.4	0.095±0.020	±6
3#	8.1±0.4	13.6±0.4	0.090±0.020	±6
4#	7.2±0.4	12.2±0.4	0.090±0.020	±5
5#	6.4±0.4	9.2±0.4	0.090±0.020	±4

***The locking length of the filled capsule is only applicable when the locking ring is in the normal locking position. It must be emphasized that the capsule lock and length after filling may vary slightly depending on the characteristics of the content and the parameter settings of the filling machine.

VALUE-ADDED SERVICES



Custom-built capsules

There isn't one universal capsule for all applications

From a broad range of polymers to capsule designs to unique dosage delivery technologies, we offer a nearly boundless combination of customizations to address the encapsulation and delivery requirements of your next breakthrough dose.



Capsule polymers

High-quality sourced polymers designed to meet drug formulation needs and patient-centric needs



Capsule designs

Capsule designs that improve manufacturing productivity and end product performance



Capsule personalization

From custom colors and printing to custom specifications, we leverage our expertise to meet your specific requirements



Filling options

Our capsules are suitable for a large number of drug delivery systems to meet an array of filling options to maximize your product's potential

Capsule polymers

The foundation of your capsule

From gelatin, HPMC, to Pullulan, GS Capsule offer a range of polymers to fit the characteristics of your drug formulations and regulatory requirements.

Premium gelatin polymers

Our most used polymer

Sourced specifically to meet stringent pharmaceutical standards and can be used in powder or liquid-filling options

Ideal for:

- Drug development
- Clinical trial
- Stability testing
- Commercial use

	Key value	Oxygen-sensitive Protection	Available in multiple sizes	Release profile Route of Administration	Widely around the world
Bovine/ Porcine	Standard gelatin blend helps achieve supply continuity	✓	✓	Immediate and enteric Oral	✓
Bovine	Solution for markets where religious certifications are required - i.e., Halal	✓	✓	Immediate and enteric Oral	✓
Porcine	BSE-averse market innovation	✓	✓	Immediate and enteric Oral	✓





Plant-based polymers meet patient needs

Uniquely developed to meet expanding API requirements and growing trend of patient centric dosage forms

Available in a broad capsule size selection, these polymers can be used in powder or liquid-filling options.

Product	Key value	Release profile Route of administration
HPMC	<ul style="list-style-type: none"> Low Moisture Content Vegan and Natural Perfect option for moisture sensitive ingredients Machinability 99.9% 	Immediate and enteric Oral
Pullulan	<ul style="list-style-type: none"> Vegan and Natural Crystal Appearance Cross-Linking Reaction Free Low Oxygen permeability, extend shelf life 	Immediate Oral



Capsule customizations to meet your drug delivery requirements

Capsule personalization

Customize your capsule to offer a unique and memorable experience

These highly coveted capsule personalization services also allow you to add customized specifications across weigh sorting, moisture content, microbiological and release testing to meet your specific product requirements.



Color

Our capsules are available in a nearly unlimited array of color differentiate your product.



Print

Visually maximize your dosage form identity with customizable printing across a wide selection of printing inks.



Capsule size

Available in sizes 000 - size 5, along with elongated options in select sizes.



Specifications and formulations

Customizable formulations and specifications across weight sorting, moisture, microbiological testing and more, to meet your product requirements.
Targeted applicable specifications to meet regional requirements.



Customized Printing of Capsules

Wide range of options to enhance Brand Security & Differentiation

Enhances brand visibility

- Customized printing of graphic, logo or text on capsules
Provides effective protection against counterfeiting
- Intricate and secured printing technology
Eliminates the need for any capital investment
- One-stop solution from customized designing to supply of pre-printed capsules
Unique way to achieve effective brand differentiation
Intricate way to prevent counterfeiting of capsules

Leverage our proprietary and broad manufacturing technologies to customize capsules to meet your specific requirements

Titanium dioxide free formulations are available

The European Food Safety Authority E171 prohibits the use of titanium dioxide as a food additive
 France has extended the ban
 Even if the "glory" of the titanium dioxide in the capsule is gone
 You still have the options to choose colors
 We now offer titanium dioxide free formulations



Filling options

Maximize drug formulation functionality and help solve formulation challenges
 From solid-filled capsules, including powder, pellets and granules, to liquid and semi-solid dose delivery systems, our innovative capsule designs suitable for a variety of filling options for your active ingredient.

Solid filled capsules

Powder

Pellets

Granules

Pellets and powder

Powder and tablets

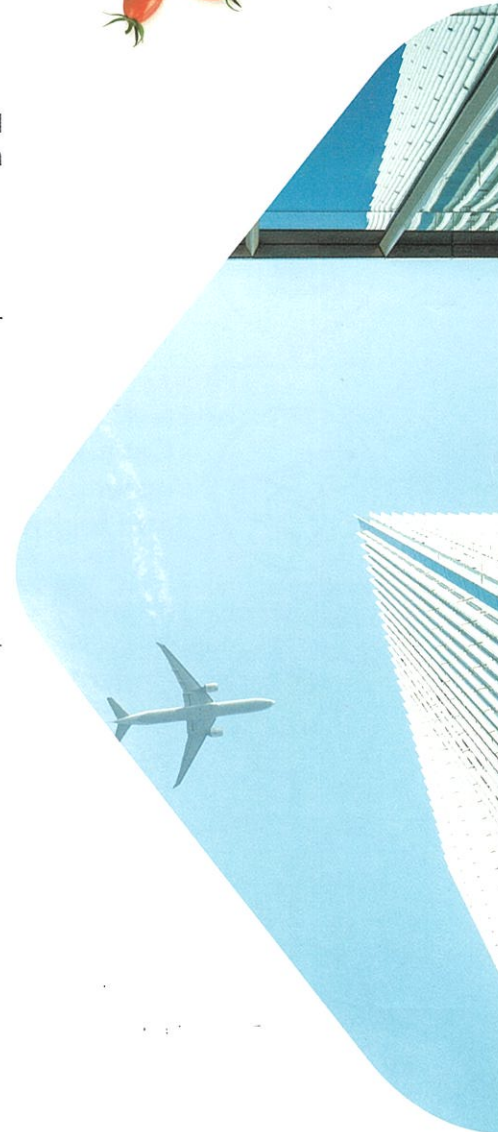
Tablets



Capsule - enrobed

tablets**

Tablet enrobing



Maximize your product's performance

Product support services that complement your development journey
Supporting you through the process

Product support services to complement your pre- and post- product development

We offer a variety of services to support your product life cycle from experimentation to development, production to end market delivery.



R&D sampling and accessibility services

From in-stock programs to a full range of R&D samples, our capsule access services expedite your product development, giving you order priority and size flexibility to focus on your product launch.



Packaging, shipping, and inventory logistics

Select from an array of capsule container sizes to provide fast-access to your cGMP facility, expedite your shipping. And optimize your warehouse space with our inventory management services.



Capsules filling optimization, training, and technical support

Our capsule filling quality by design services help match your filling equipment to the ideal capsule design, meeting your product formulation specifications and optimizing productivity. Our technical service engineers provide basic and advanced training and tools to help your team install your capsule-filling machinery, with 24/7 emergency technical support available.



Professional consulting services (application services)

Supplement your own internal resources and expertise with our experts-from manufacturing to formulation optimization, to regulatory and beyond



Technical Services

We believe that our responsibility does not end with the supply of right quality capsules. We go an extra mile in partnering with our customers to ensure that they achieve maximum productivity with our capsules on the filling machines. Leveraging our group level expertise in manufacturing of capsule-filling machines and engineering knowledge, our technical service team proactively helps customers in maximizing their yield. We also support them by overcoming the challenges associated with the capsule-filling process on the shop floor.

Dedicated to your success



Partnering beyond the capsule

Helping you unlock innovation

GS capsule application services experts will listen, understand and provide a customizable solution to help you meet your pipeline development challenges.

Formulation Compatibility Support

Supported by our strong R&D capabilities and expert resources, we work closely with the customers' product development teams on aspects related to compatibility between the formulation and the capsule. This helps customers ensure selection of the right capsule at the development. We also work with customers on innovative customization of capsules to suit the formulation requirement and give them a competitive edge in the market.

Regulatory Support

With our rich global experience and exposure to all key markets, we are aligned with the regulatory requirements of both developed and emerging markets, laying emphasis on cross-country compliances.

We have a dedicated regulatory team that ensures process and product compliances for meeting the regulatory requirements of different markets. We work closely with our customers to actively support them on all documentary requirements for exporting products to the regulated markets of Europe and the USA.

Our services will help you:

Develop your unique fill formulation

Identify the optimum dosage form for your API delivery

Optimize manufacturing process to improve operation productivity

Access tailored educational resources -including hands on laboratory training to strengthening your team's knowledge

**GS Capsule dosage and delivery innovations
Launch with GS Capsule application services**



[*Glorious health for all*]
[*Successful life for all*]

GS Capsule

Create value for customers, partners and employees around the world with reliable quality and service, and continuously optimize dosage form solutions.

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