ACG

Make it better.

MACHINERY

Granulation

Contents

HSM X•ONE series

Find this information on our website:
Machinery > Granulation > High shear mixers > HSM X•ONE series

An advanced series of high-shear mixer granulators that ensure faster processing and narrow particle-size distribution, while achieving content uniformity in the dry mix. The series is equipped with the ACG X•ONE command process control system and features the unique MOST™ (Maximum Operator Safety Technology).

Applications
Wet granulation, mixing

Features	Benefits
Unique product-bowl geometry	Facilitates uniform mixing by maintaining a roping flow regime, and faster process stabilisation due to linear scalability features – ensuring optimum mixing efficiency
Available with a Z-shaped impeller and multi-blade chopper	Superior centrifugal force means significantly fewer dead zones and achieves uniform binder distribution for higher yield and optimal particle-size distribution
A 12-bar pressure shock-resistant system featuring the MOST™ (Maximum Operator Safety Technology) concept approved by FSA in Germany and compliant with ATEX (Directive 2014 / 34 / EU)	No mechanical deformation caused in case of a pressure-shock event Production can be resumed in the shortest possible time A far safer working environment, thanks to a non-vented, fully contained design
Multiple systems for charging, discharging and wash-in-place (WIP)	Efficient product handling and easy cleaning, which means higher yield
ACG's exclusive X•ONE command process control system	Compliant with ATEX (Directive 2014 / 34 / EU), GAMP 5 and 21 CFR Part 11, this advanced technology allows intuitive, secure monitoring and control of the system

Technical specifications

Model	Working volume*	
HSM 150 X•ONE	**Min**	45 l
	Max	120 l
HSM 300 X•ONE	**Min**	90 l
	Max	240 l
HSM 400 X•ONE	**Min**	120 l
	Max	320 l
HSM 600 X•ONE	**Min**	180 l
	Max	480 l
HSM 800 X•ONE	**Min**	240 l
	Max	640 l
HSM 1200 X•ONE	**Min**	360 l
	Max	960 l

* Dependent on bulk density

HSM 2000 X•ONE

Find this information on our website:
Machinery > Granulation > High shear mixers > HSM X•ONE series

The HSM 2000 X•ONE is designed for large production batches and can be integrated fully into a granulation train or used as a standalone unit.

Applications
Wet granulation, mixing

Features	Benefits
Unique product bowl geometry	Facilitates uniform mixing by maintaining a roping flow regime, and faster process stabilisation due to linear scalability features – ensuring optimum mixing efficiency
Available with a Z-shaped impeller and multi-blade chopper	Superior centrifugal force means significantly fewer dead zones and achieves uniform binder distribution for higher yield and optimal particle-size distribution
A 12-bar pressure shock-resistant system featuring the MOST™ (Maximum Operator Safety Technology) concept approved by FSA in Germany and compliant with ATEX (Directive 2014 / 34 / EU)	No mechanical deformation caused in case of a pressure-shock event Production can be resumed in the shortest possible time A far safer working environment, thanks to a non-vented, fully contained design
Multiple systems for charging, discharging and wash-in-place (WIP)	Efficient product handling and easy cleaning, which means higher yield
ACG's exclusive X•ONE command process control system	Compliant with ATEX (Directive 2014 / 34 / EU), GAMP 5 and 21 CFR Part 11, this advanced technology allows intuitive, secure monitoring and control of the system

Technical specifications

Working volume*	**Min**	600 l
	Max	1,600 l

* Dependent on bulk density

QUEST HSM II

Find this information on our website:
Machinery > Granulation > High shear mixers > HSM X•ONE series

QUEST HSM II supports innovation at R&D level, and is designed to help ensure cGMP compliance.

Applications
Wet granulation

Features	Benefits
A 12-bar pressure shock-resistant system featuring the MOST™ (Maximum Operator Safety Technology) concept approved by FSA in Germany and compliant with ATEX (Directive 2014 / 34 / EU)	No mechanical deformation caused in case of a pressure-shock event Production can be resumed in the shortest possible time A far safer working environment, thanks to a non-vented, fully contained design
Available with Z-shaped impeller blades	Optimum flow of material in and out of the shear zone, by providing superior centrifugal force to the material in less process time
Standalone mobile plug-and-play system	Use wherever it's needed in the lab – quickly and easily
Laser-cut multi-blade straight chopper	Breaks down lumps formed during granule formation, avoids 'dead zones', and achieves uniform binder distribution
Interchangeable bowls (2 l, 5 l, and 10 l)	Allows fully flexible batch sizes

Technical specifications

	Bowl size	**2 l**	**5 l**	**10 l**
Working volume*	**Min**	0.6 l	1.5 l	3 l
	Max	1.2 l	3 l	6 l

* Dependent on bulk density

QUEST HSM III

Find this information on our website:
Machinery > Granulation > High shear mixers > HSM X•ONE series

QUEST HSM III enables greater innovation at R&D level, and is designed to help with cGMP compliance.

Applications
Wet granulation

Features	Benefits
A 12-bar pressure shock-resistant system featuring the MOST™ (Maximum Operator Safety Technology) concept approved by FSA in Germany and compliant with ATEX (Directive 2014 / 34 / EU)	No mechanical deformation caused in case of a pressure-shock event Production can be resumed in the shortest possible time A far safer working environment, thanks to a non-vented, fully contained design
ACG's exclusive X•ONE command process control system	Compliant with ATEX, GAMP 5 and 21 CFR Part 11, this advanced technology allows intuitive, secure monitoring and control
Available with Z-shaped impeller blades	Optimum flow of material in and out of the shear zone, by providing superior centrifugal force to the material in less process time
Standalone mobile plug-and-play system	Use wherever it's needed in the lab, quickly and easily
Laser-cut multi-blade straight chopper	Breaks down lumps formed during granule formation, avoids 'dead zones', and achieves uniform binder distribution
Interchangeable bowls (15 l, 30 l, and 65 l)	Allows fully flexible batch sizes

Technical specifications

	Bowl size	**15 l**	**30 l**	**65 l**
Working volume*	**Min**	4.5 l	9 l	19.5 l
	Max	9 l	18 l	39 l

* Dependent on bulk density

HSM series

Find this information on our website:
Machinery > Granulation > High shear mixers > HSM series

An integral part of the granulation train, ACG's High-Shear Mixer (HSM) is packed with innovative features and sets new standards of performance and adaptability in conventional processing equipment. Its advanced mixer / granulator technology guarantees efficient mixing, and ensures a high-quality end product.

With experience in handling over 1,000 formulations, our ACG Lab experts can help you with all aspects of process technology (including development, transfer, scale-up and optimisation) to achieve full efficiency and productivity.

Applications
Wet granulation, mixing

Features	Benefits
Ergonomic design of product bowl, with perfectly positioned access platform	Provides easy access to the machine and facilitates GMP compliance
Available with a Z-shaped impeller and multi-blade chopper	Superior centrifugal force avoids dead zones and achieves uniform binder distribution – thereby ensuring higher yield and optimal particle-size distribution
Multiple systems for charging and discharging, with a highly efficient vent air filtration system for wash-in-place (WIP)	Quick, dust-free transfer of raw materials, and easy washing
Integrated cleaning nozzles for product bowl and discharge	Makes cleaning much simpler

Technical specifications

Model	**Working volume***	
HSM 150	**Min**	45 l
	Max	120 l
HSM 300	**Min**	90 l
	Max	240 l
HSM 400	**Min**	120 l
	Max	320 l
HSM 600	**Min**	180 l
	Max	480 l
HSM 800	**Min**	240 l
	Max	640 l
HSM 1200	**Min**	360 l
	Max	960 l

* Dependent on bulk density

FBE X•ONE series

Find this information on our website:
Machinery > Granulation > Fluid beds > FBE X•ONE series

The FBE X•ONE series is our most advanced range of fluid-bed systems. Developed at our Design Centre in Mülheim, Germany, it sets a new benchmark for performance, handling and operational safety. Offering excellent top-spray granulation and drying, it has already optimised the processing of over 1,800 formulations.

Applications
Top-spray granulation, wet-mass drying, hot-melt granulation

Features	Benefits
A 12-bar pressure-shock-resistant system, featuring the MOST™ (Maximum Operator Safety Technology) concept approved by FSA Germany, and compliant with ATEX (Directive 2014 / 34 / EU)	No mechanical deformation caused in case of a pressure-shock event Production can be resumed in the shortest possible time Far safer for the environment, thanks to a non-vented, fully contained design
Unique C-flanges	Prevents the transfer of explosion pressure beyond the machine
X•ONE inflatable seals	Safety at low pressure (as low as 4.5 bar)
QASV (Quick Action Stop Valves)	Ensures explosion is contained within 20 milliseconds of detection
ACG's exclusive X•ONE command process control system	Compliant with ATEX (Directive 2014 / 34 / EU), GAMP 5 and 21 CFR Part 11, this advanced technology allows intuitive, secure monitoring and control
Customised charging, discharging and wash-in-place (WIP) systems – available in standalone and granulation-train configurations	Makes processing of granules highly efficient, ensures safety, and reduces changeover times

Technical specifications

Model	Working volume*	
FBE 125 X•ONE	**Min**	33 l
	Max	168 l
FBE 250 X•ONE	**Min**	75 l
	Max	368 l
FBE 500 X•ONE	**Min**	135 l
	Max	608 l
FBE 800 X•ONE	**Min**	220 l
	Max	888 l
FBE 1300 X•ONE	**Min**	345 l
	Max	1,344 l
FBE 1800 X•ONE	**Min**	525 l
	Max	1,956 l

* Dependent on bulk density

FBE series

Find this information on our website:
Machinery > Granulation > Fluid beds > FBE series

The FBE series is our highly acclaimed range of fluid-bed machines, and is synonymous with excellent performance. Featuring technologies for drying and top-spray granulation, it's a proven set-up for pharmaceutical and nutraceutical production.

Applications
Top-spray granulation, wet-mass drying, hot-melt granulation

Features	Benefits
Precisely calculated and practically tested vent	Ensures operator and equipment safety in case of a pressure-shock event
A state-of-the-art filter bag shaking system	Covers the largest possible filtration area and consumes far less compressed air compared with blowback filter systems It's also easier to handle and achieves better cleaning
Customised charging, discharging and wash-in-place (WIP) systems available in standalone and granulation-train configurations	Quick and easy formulation processing
21 CFR part 11-compliant PC control system	A regulatory-compliant, audit-friendly system

Technical specifications

Model	**Working volume***	
FBE 125	**Min**	28.5 l
	Max	160 l
FBE 250	**Min**	70 l
	Max	344 l
FBE 500	**Min**	130 l
	Max	600 l
FBE 800	**Min**	225 l
	Max	896 l
FBE 1300	**Min**	335 l
	Max	1,288 l

* Dependent on bulk density

FBC X•ONE series

Find this information on our website:
Machinery > Granulation > Fluid bed combos > FBC X•ONE series

Supreme safety with ultimate versatility – that's what you get with the FBC X•ONE series developed at our Design Centre in Mülheim, Germany. While you can use it for diverse applications, including drying, top-spray granulation and Wurster coating, its cutting-edge design and features don't compromise process or operator safety. In short, you get the very best outcomes and unbeatable protection.

Applications
Top-spray granulation, wet-mass drying, hot-melt granulation, tangential spray granulation, Wurster coating

Features	Benefits
The 12-bar pressure shock-resistant system features the MOST™ (Maximum Operator Safety Technology) concept approved by the FSA and compliant with ATEX (Directive 2014 / 34 / EU)	No mechanical deformation caused in case of a pressure-shock event Production can be resumed in the shortest possible time Far safer for the environment, thanks to a non-vented, fully contained design
Unique C-flanges	Prevents the transfer of explosion pressure beyond the machine
X•ONE inflatable seals	Safety at low pressure (as low as 4.5 bar)
QASV (Quick Action Stop Valves)	Ensures explosion is contained within 20 milliseconds of detection
Customised charging, discharging and wash-in-place (WIP) systems available in standalone and granulation-train configurations	Makes processing of granules and pellets highly efficient, while ensuring safety and achieving faster changeovers
ACG's exclusive X•ONE command process control system	Compliant with ATEX (Directive 2014 / 34 / EU), GAMP 5 and 21 CFR Part 11, this advanced technology allows intuitive, secure monitoring and control
Patented nozzles developed with Düsen-Schlick GmbH, Germany exclusively for ACG	Enhanced productivity, and simplified operation and cleaning

Technical specifications

Model	Working volume*	Top-spray granulation	Wurster coating
FBC 125 X•ONE	**Min**	33 l	9 l
	Max	168 l	80 l
FBC 250 X•ONE	**Min**	75 l	23 l
	Max	368 l	170 l
FBC 500 X•ONE	**Min**	135 l	40 l
	Max	608 l	365 l
FBC 800 X•ONE	**Min**	220 l	85 l
	Max	888 l	590 l
FBC 1300 X•ONE	**Min**	345 l	130 l
	Max	1344 l	835 l
FBC 1800 X•ONE	**Min**	525 l	180 l
	Max	1,956 l	1,185 l

* Dependent on bulk density

QUEST FB II X•ONE

Find this information on our website:
Machinery > Granulation > Fluid bed combos > FBC X•ONE series

Combining great design with ergonomics, QUEST FB II X•ONE is a safe, versatile lab machine with multiple applications. Its capability and performance across drying, granulation, Wurster coating and rotor granulation cover the full range of R&D-scale studies.

Applications
Drying, wet granulation, Wurster coating and rotor granulation

Features	Benefits
12-bar pressure shock resistant system featuring the MOST™ (Maximum Operator Safety Technology) concept approved by ATEX and certified by FSA	No mechanical deformation caused in case of a pressure-shock event Far safer for the environment, thanks to a non-vented, fully contained design
Swivel filter housing	A versatile and portable system for drying, single-pot granulation and Wurster coating Quick and easy to install and use anywhere in your lab A single system for diverse applications
Unique filter change system	Reduces dust emissions to a minimum, and ensures operator safety and ease of use
Slide-in / slide-out process inserts	Easy charging and discharging
Four process inserts	Handles varied batch sizes and multiple applications (drying, granulation, Wurster coating and rotor granulation) with greater operational flexibility

Technical specifications

		Top-spray granulation			
	Bowl size	**3 l**	**6 l**	**9 l**	**12 l**
Working volume*	Min	0.6 l	1.2 l	1.8 l	2.4 l
	Max	3 l	6 l	9 l	12 l

		Wurster coating		
	Bowl size	**3 l**	**6 l**	**9 l**
Working volume*	Min	0.6 l	1.2 l	1.8 l
	Max	2 l	4 l	8 l

* Dependent on bulk density

QUEST FB III X•ONE

Find this information on our website:
Machinery > Granulation > Fluid bed combos > FBC X•ONE series

A strong foundation for scale-up and design of experiments (DoE) studies, our QUEST FB III X•ONE is a versatile, intermediate-scale fluid-bed system featuring all aspects of typical commercial-scale equipment.

This means you can establish process parameters quickly and accurately, and be confident scaling up your batches.

Applications
Drying, wet granulation, Wurster coating, top-spray, tangential-spray and rotor granulation

Features	Benefits
A 12-bar pressure shock resistant system featuring the MOST™ (Maximum Operator Safety Technology) concept approved by ATEX and certified by FSA	No mechanical deformation caused in case of a pressure-shock event Far safer for the environment, thanks to a non-vented, fully contained design
Unique C-flange X•ONE inflatable seals	12-bar-rated inflatable seals feature machined C-flanges that ensure safety at pressures as low as 4.5 bar Lower operating costs and significantly longer lifespan
State-of-the-art twin-filter bag-shaking system	Most efficient way of removing sticky materials, which prevents filter choking, thereby improving overall filter performance Enhances yield significantly while maintaining lower compressed air consumption
ACG's exclusive X•ONE command process control system	Compliant with ATEX, GAMP 5 and 21 CFR Part 11, this advanced technology allows intuitive, secure monitoring and control
Fully integrated multi-function column	Reduces cleaning and changeover time The smart open-profile column has removable covers for swift and simple access to integrated peripherals, while a linear drive makes raising and lowering the exhaust air filter far easier The control panel and keyboard are adjustable to operator preference

Technical specifications

		Top-spray granulation	Wurster coating
Working volume*	**Min**	12 l	5 l
	Max	55 l	25 l

* Dependent on bulk density

FBC series

Find this information on our website:
Machinery > Granulation > Fluid bed combos > FBC series

Our versatile FBC expands your process efficiency exponentially. With your need for flexible operations in mind, we designed our combo series to feature top-spray and Wurster coating technology in one innovative machine. It's a proven boost for the pharmaceutical and nutraceutical industries.

Applications
Top-spray granulation, wet-mass drying, hot-melt granulation, tangential spray granulation, Wurster coating

Features	Benefits
Precisely calculated and tested vent	Ensures operator and equipment safety in case of a pressure-shock event
A state-of-the-art twin-chamber filter bag shaking system	Helps achieve continuous fluidisation via the largest possible filtration area. Meanwhile, it consumes far less compressed air compared with blowback filter systems. It's also easier to handle and achieves better cleaning results
Product container with multiple air-distribution plates	Choose the air distribution that best suits your product
Customised charging, discharging and wash-in-place (WIP) systems available in standalone and granulation-train configurations	Efficient formulation processing and easy washing

Technical specifications

Model	Working volume*	Top-spray granulation	Wurster coating
FBE 125C	**Min**	28.5 l	7 l
	Max	160 l	80 l
FBE 250C	**Min**	70 l	23 l
	Max	344 l	170 l
FBE 500C	**Min**	130 l	40 l
	Max	600 l	365 l
FBE 800C	**Min**	225 l	85 l
	Max	896 l	590 l
FBE 1300C	**Min**	335 l	130 l
	Max	1,288 l	835 l

* Dependent on bulk density

GPCG 1.1

Find this information on our website:
Machinery > Granulation > Fluid bed combos > FBC series

One of the workhorses in its performance class for feasibility and scale-up studies, the remarkably versatile GPCG 1.1 has all the features of a production-scale machine. Its capabilities include drying, granulation, particle/pellet coating, dry-powder layering, spray agglomeration and hot-melt coating – plus granulation and tangential coating.

Applications
Top-spray granulation, wet-mass drying, hot-melt granulation, tangential spray granulation, Wurster coating

Features	Benefits
A mobile plug-and-play, standalone system with an optional integrated air-handling unit	Highly portable and user-friendly for quick switching across diverse applications
Filter bags with a shaking mechanism	Faster and more effective cleaning and handling
Multiple and interchangeable air-distribution plates	Select and install the plate that best suits your product, quickly and easily
Hinged filter-housing	Reduces machine height and enhances mobility

Technical specifications

		Top-spray granulation	Wurster coating	RGPCG
Working volume*	**Min**	1.4 l	0.5 l	1.5 l
	Max	4.7 l	2.4 l	4 l

* Dependent on bulk density

MINIQUEST F

Find this information on our website:
Machinery > Granulation > Fluid bed combos > FBC series

This unique tabletop granulation system is designed specifically for academic settings, and can handle batch sizes as small as 50 g. Featuring a nozzle from Düsen-Schlick GmbH, Germany, this versatile multitasking system is ideal for drying, granulation and Wurster coating.

Applications
Top-spray granulation, wet-mass drying, hot-melt granulation, tangential spray granulation, Wurster coating

Features	Benefits
Integrated peristaltic pump	Facilitates compact housing of the system and minimises footprint
Innovative tower assembly	Allows easy operation, inspection, and cleaning of the system
Unique venturi-based fluidisation system	Requires no electrically powered blower, making installation easier and more cost-effective
5 µ sock filter prevents dust escape	Ensures cleaner operations and working environments

Technical specifications

		Top-spray granulation	Wurster coating
Working volume*	**Min**	225 ml	40 ml
	Max	750 ml	200 ml

* Dependent on bulk density

QUEST FB

Find this information on our website:
Machinery > Granulation > Fluid bed combos > FBC series

QUEST FB is a highly versatile ‘plug and play’ fluid-bed unit for lab-scale feasibility studies, featuring a single retrofittable container for top-spray and Wurster coating applications. Its ease of use and adaptability make it ideal for R&D scientists.

Applications
Top-spray granulation, wet-mass drying, hot-melt granulation, tangential spray granulation, Wurster coating

Features	Benefits
A versatile and portable system for drying, single-pot granulation and Wurster coating	Quick and easy to install and use anywhere in your lab A single system for diverse applications
Product container convertible from top-spray to Wurster coating, to tangential spray, with minor adjustments	Effortless, seamless transition from one application to another
A weighing scale integrated into the Programmable Logic Controller (PLC) for spray-rate measurement	Allows you to set and control the spray rate easily
Touchscreen human-machine interface (HMI) and PLC-based control system	User-friendly controls
Multiple air distribution plates	Choose the air distribution plate that best suits your product

Technical specifications

		Top-spray granulation	Wurster coating
Working volume*	**Min**	0.9 l	0.3 l
	Max	3 l	1.5 l

* Dependent on bulk density

INTEGRATED GRANULATION LINE

GT series

Find this information on our website:
Machinery > Granulation > Granulation trains > GT series

ACG's integrated granulation train (GT series) combines an advanced high-shear mixer (HSM) and fluid-bed (FBE / FBC) system designed in Germany. It takes manufacturing efficiency to the next level, and allows safe single-handed operation. So it not only achieves a highly efficient, dust-free wet granulation process, but also provides a cost-effective closed-loop design.

Features	Benefits
Contained product-handling supported by a vacuum charging system	Ensures closed-loop product transfer for safe and smooth material flow Ensures minimum product leftover Granule sizing is far easier, with mill equipment integrated into the system
Compact machine footprint	Reduces floorspace requirements by around 50%
Through-the-wall construction	Allows clear separation between processing and technical areas, ensuring easier maintenance, cleaning, operation and GMP compliance
Multiple systems for charging, discharging and wash-in-place (WIP)	Efficient processing of formulation and easy washing Vastly reduces dust generation and product exposure, and reduces manual intervention significantly, thereby making GMP compliance far easier
A wide variety of combination options for HSM and FBE / FBC	Easily customisable to a wide range of product and process requirements

INTEGRATED GRANULATION LINE

GT X•ONE series

Find this information on our website:
Machinery > Granulation > Granulation trains > GT X•ONE series

The GT X•ONE series is ACG's answer to the long-standing call for greater efficiency and reassurance throughout the granulation line. Combining the best of our high-shear mixer (HSM X•ONE) and fluid-bed equipment (FBE X•ONE / FBC X•ONE), GT X•ONE makes granulation more adaptable and seamless – and enhances ease of use, safety and output.

Designed at our Design Centre in Mülheim, Germany, it's a shining example of how collaboration and applied insights can ensure reduced waste and downtime, while improving product consistency and quality. All this comes together in a highly advanced and ergonomically-informed user experience.

Features	Benefits
A 12-bar pressure shock-resistant system featuring the MOST™ (Maximum Operator Safety Technology) concept approved by FSA in Germany and compliant with ATEX (Directive 2014 / 34 / EU)	No mechanical deformation caused in case of a pressure-shock event Production can be resumed in the shortest possible time A far safer working environment, thanks to a non-vented, fully contained design
Unique C-flanges, X•ONE inflatable seals, and Quick Action Stop Valves (QASV)	Our unique seals have a longer lifespan due to significantly reduced operating pressures Ensures safety at pressures as low as 4.5 bar
Compact machine footprint	Reduces floorspace requirements by around 50%
Through-the-wall construction	Allows clear separation between processing and technical areas, ensuring easier maintenance, cleaning, operation and GMP compliance
Enclosed product handling, such as gravity charging or vacuum charging systems, that can be customised to suit user requirements	Ensures closed-loop product-transfer with safe and smooth material flow, and thereby reduces product leftovers For example, a vacuum charging system provides closed-loop material transfer, and so vastly reduces dust generation and product exposure – and reduces the need for manual intervention, which makes it GMP compliant
Superior wash-in-place (WIP) capability	Eliminates dead spots and deals effortlessly with crevices, sharp surfaces and difficult-to-access points Ensures easy washing and quick changeover
ACG's exclusive X•ONE command process and control system	Compliant with ATEX (Directive 2014 / 34 / EU), GAMP 5 and 21 CFR Part 11, this advanced technology Allows intuitive, secure monitoring and control of the system

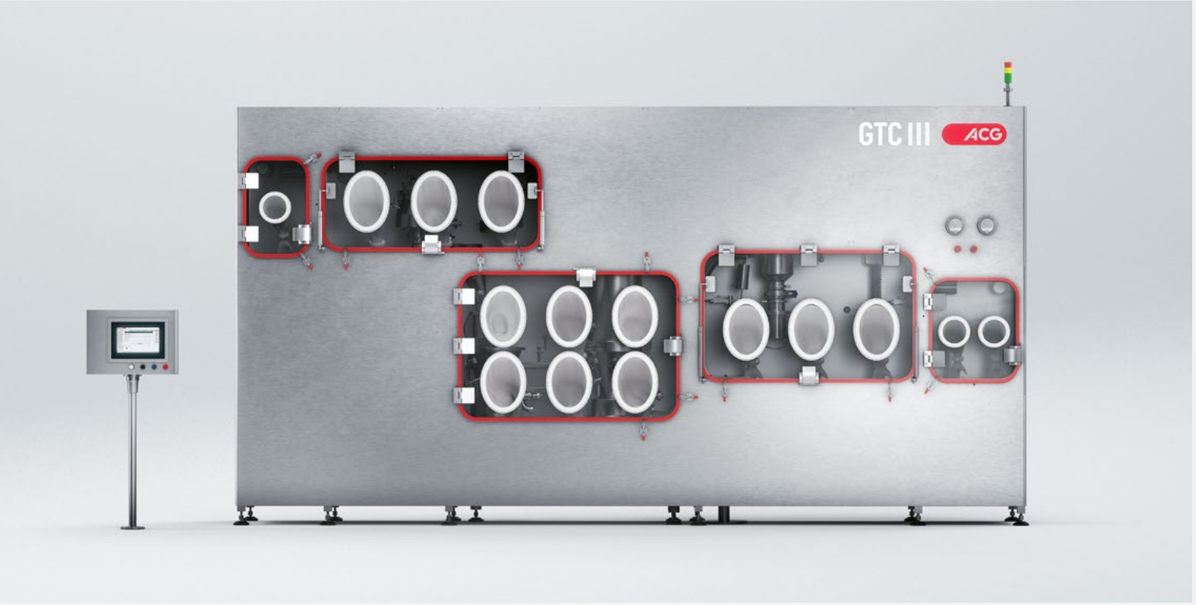
INTEGRATED GRANULATION LINE

GTC III

Find this information on our website:
Machinery > Granulation > Granulation trains > GTC III

The GTC III is an integrated granulation line that facilitates a seamless and efficient production flow of the entire granulation process. With OEB 5 compliance, GTC III is designed to prioritise containment and operator safety, optimising productivity, and ensuring quality, all while upholding stringent standards for product integrity and environmental protection.

It is especially suitable for the granulation of oncological, hormonal, biopharmaceutical, antiviral and other such HPAPIs (highly potent active pharmaceutical ingredients).



Features	Benefits
A complete granulation line with OEB 5 compliance	Performs granulation to blending, ensuring the highest safety standards even for HPAPIs
Provisions for rapid transfer port, active transfer port and contained poly bag transfer	Facilitates charging of material in isolator without compromising integrity
A wide range of capacities (0.6 to 6 l)	Offers flexibility in batch sizes, tailored to your specific needs
Integrated wet and dry mills	Contained particle sizing of wet and dry granules creates a seamless processing experience, boosting safety, efficiency and productivity
Multiple glove ports	Ensures 100% accessibility and operator safety, promoting a secure and comfortable working environment
Flexibility to integrate the weighing scale inside the isolator	Easy online interface-based monitoring of binder solution spray rate Streamlines your processes, enhancing accuracy and convenience
IPC-based control system with complete 21 CFR part 11 compliance	Ensures regulatory adherence and operational efficiency with audit trails, user management, recipe management, and batch reports
Strategically placed washing nozzles, along with handheld options	Provides thorough and efficient cleaning saving time and effort Ensures operator safety
Optimised footprint	Maximises your available space, optimizing your facility layout and saving costs

R series (rotor attachments)

Find this information on our website:
Machinery > Granulation > Special attachments > R series

The R series rotor insert is the latest innovation in ACG's fluid-bed machines. Combining different processes into a single container facilitates a wide range of applications, including pelletisation, dry-powder layering, rotor granulation / suspension coating, and spherical granulation.

Ultimately, this ensures perfect-shaped pellets and high-density granules with narrow particle-size distribution. All this is backed by extensive process and optimisation support from our experts, who have collective experience and expertise in handling over 1,000 formulations.

Applications
Spheronisation / pelletisation, powder layering, and solution and suspension coating

Features	Benefits
Plug-and-play versatility, with interchangeable inserts retrofittable to existing fluid-bed machines	Access to cutting-edge technology without additional investment
Highly accurate powder dosing system for a wide range of applications	Precise process control for drug layering and powder coating applications
Rotor discs for the full range of applications	Enables spheronisation and drug layering
Integrates easily with a wide variety of powder feeders	Offers flexibility and is suitable for multiple applications

Technical specifications

		GPCG 1.1	R II	R125	R250	R500
Working volume	**Min**	1.5 l	2 l	15 l	30 l	45 l
	Max	4 l	6 l	50 l	100 l	150 l

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.

Email us
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