

Granulation



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Granulation

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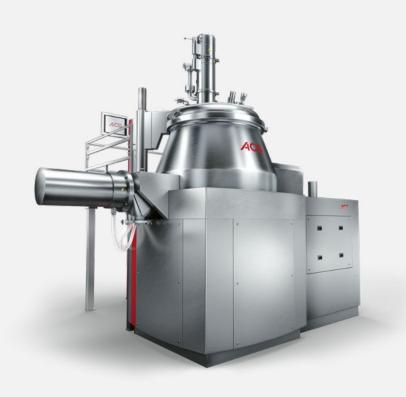
HIGH SHEAR MIXERS HSM X•ONE series

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 system is equipped with the ACG X•ONE command process control system and features the unique MOST™ safety concept.

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 Maximum Operator Safety Technology (MOST™) 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

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

^{*} Is dependent on the bulk density.

HSM 2000 X•ONE

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 system is equipped with the ACG X•ONE command process control system and features the unique MOST™ safety concept.

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 Significant utility conservation due to the use of a single chopper
A 12-bar pressure shock-resistant system featuring the Maximum Operator Safety Technology (MOST™) 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 washing Ensures minimal contents remain in the bowl after discharging which means better 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

Working volume*	Min	600 I
working volume	Мах	1,600 l

^{*} Is dependent on the bulk density.

QUEST HSM II

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

ApplicationsWet granulation



Features	Benefits
12-bar pressure shock-resistant system featuring the Maximum Operator Safety Technology (MOST™) concept approved by ATEX and certified by FSA	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

	Bowl size	21	5	10 I
Working volume*	Min	0.6 l	1.5	31
Working volume*	Max	1.2	31	61

^{*} Is dependent on the bulk density.

QUEST HSM III

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

ApplicationsWet granulation



Features	Benefits
A 12-bar pressure shock-resistant system featuring the Maximum Operator Safety Technology (MOST™) 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

	Bowl size	15 l	30 I	65 I
Working volume*	Min	4.5	91	19.5 l
Working volume*	Max	91	181	39

^{*} Is dependent on the bulk density.

HIGH SHEAR MIXERS HSM series

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

Model	Working volume*	
	Min	45 l
HSM 150	Max	120
HSM 300	Min	90 I
H2M 200	Max	240
HSM 400	Min	120
	Max	320
HSM 600	Min	180 l
	Max	480 I
HSM 800	Min	240
	Max	640 I
HSM 1200	Min	360
	Max	960 I

^{*} Is dependent on the bulk density.

HSM 2000

The HSM 2000 is designed for large production batches. You can integrate it with your granulation train, or use it as a standalone unit.

ApplicationsWet 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

		Top-spray granulation
Working volume*	Min	600 I
	Max	1,600 l

^{*} Is dependent on the bulk density.

FLUID BEDS FBE X.ONE series

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 Maximum Operator Safety Technology (MOST™) 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

Model	Working volume*	
FBE 125 X•ONE	Min	33
	Max	168 l
FBE 250 X•ONE	Min	75 I
FBE 250 A*ONE	Max	368 I
FBE 500 X•ONE	Min	135 l
FBE 300 A*ONE	Мах	608 I
FBE 800 X•ONE	Min	220
	Max	888 I
FBE 1300 X•ONE	Min	345 l
	Мах	1,344 l
FBE 1800 X•ONE	Min	525 l
	Max	1,956 l

^{*} Is dependent on the bulk density.

FLUID BEDS FBE series

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 the event of pressure-shock
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

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

^{*} Is dependent on the bulk density.

FLUID BED COMBOS FBC X.ONE series

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 Maximum Operator Safety Technology (MOST™) concept approved by the FSA and compliant with ATEX	No mechanical deformation caused in case of a pressure-shock event	
(Directive 2014/34/EU)	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	

Model	Working volume*	Top-spray granulation	Wurster coating
	Min	33	91
FBC 125 X•ONE	Max	168 l	80 I
FBC 250 X•ONE	Min	75	23
PBC 250 A*ONE	Max	368 I	170 l
FBC 500 X•ONE	Min	135 l	40 l
	Max	608 I	365 I
FBC 800 X•ONE	Min	220	85 l
	Max	888 I	590 I
FBC 1300 X•ONE	Min	345 I	130
	Max	1344	835 I
	Min	525 l	180 l
FBC 1800 X•ONE	Max	1,956 l	1,185 l

^{*} Is dependent on the bulk density.



QUEST FB II X•ONE

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 Maximum Operator Safety Technology (MOST™) 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 operators' safety and ease of use
Slide-in/slide-out process inserts	Easy charging and discharging
Four process inserts	Handle varied batch sizes and multiple applications (drying, granulation, Wurster coating and rotor granulation) with greater operational flexibility

		Top-spray granulation			
	Bowl size	31	61	9	12 l
Working	Min	0.6	1.2	1.8	2.4
Working volume*	Max	31	61	91	12 l

		Wurster coating		
	Bowl size	31	61	91
Working	Min	0.6	1.2	1.8
Working volume*	Max	21	41	81

^{*} Is dependent on the bulk density.

QUEST FB III X•ONE

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. QUEST FB III X•ONE also provides multiple applications, including drying, top-spray, tangential-spray and rotor granulation and Wurster coating.

Applications

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



Features	Benefits
A 12-bar pressure shock resistant system featuring the Maximum Operator Safety Technology (MOST™) 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-flanged 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	Reduced maintenance downtime and operational costs 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

		Top-spray granulation	Wurster coating
Working volume*	Min	12	51
	Max	55 I	25 l

^{*} Is dependent on the bulk density.

FLUID BED COMBOS FBC series

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 the event of pressure shock
The 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

Model	Working volume*	Top-spray granulation	Wurster coating
EDE 4056	Min	28.5	7
FBE 125C	Max	160 l	80 I
FBE 250C	Min	70	23
PBE 250C	Max	344	170 l
FBE 500C	Min	130	40 l
	Max	600 I	365 l
FBE 800C	Min	225 l	85 l
	Max	896 I	590 I
FBE 1300C	Min	335 I	130
FBE 1300C	Max	1,288	835 I
FBE 1800C	Min	525 l	180 l
	Max	1,388	900 I

^{*} Is dependent on the bulk density.



Reduces machine height and enhances mobility

GPCG 1.1

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



Technical specifications

Hinged filter-housing

		Top-spray granulation	Wurster coating	RGPCG
Working volume*	Min	1.4	0.5	1.5 l
	Max	4.7	2.4	41

^{*} Is dependent on the bulk density.

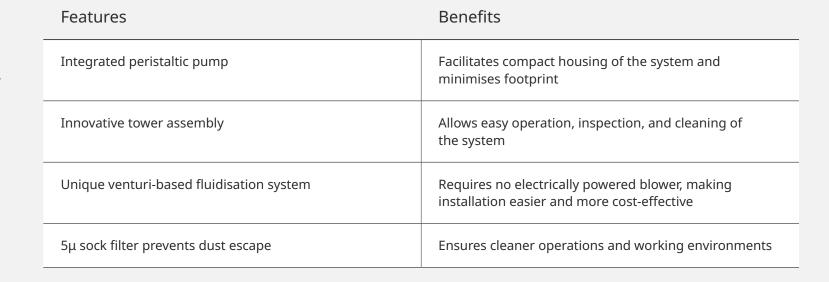


MINIQUEST F

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



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

^{*} Is dependent on the bulk density.

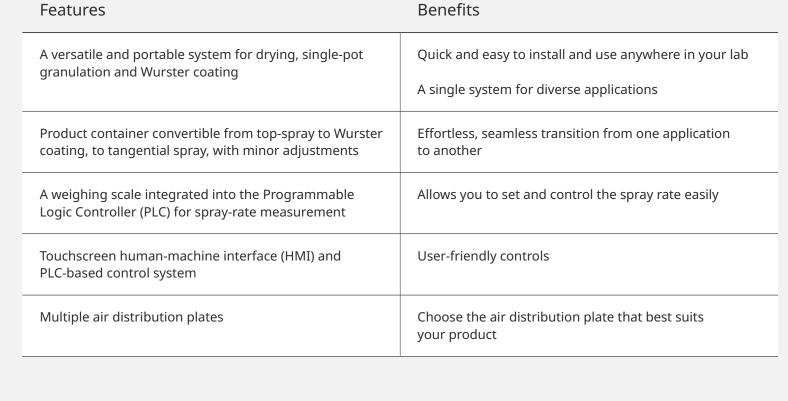


QUEST FB

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



		Top-spray granulation	Wurster coating
Working volume*	Min	0.9	0.3
	Max	31	1.5

^{*} Is dependent on the bulk density.



INTEGRATED GRANULATION LINE

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

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 literally a shining example of how collaboration and applied insight can ensure less waste and downtime, while improving product consistency and quality... all in one highly advanced and ergonomic user experience.



Features	Benefits
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A 12-bar pressure shock-resistant system featuring the Maximum Operator Safety Technology (MOST™) 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	GT X•ONE 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

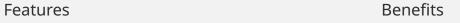
SPECIAL ATTACHMENTS

R series (rotor attachments)

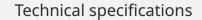
The R series rotor insert is the latest innovation in ACG's fluid-bed machines. Combining different processes into a single container facilitates a wide range of applications, including pelletisation, dry-powder layering, rotor granulation/suspension coating, and spherical granulation. Ultimately, this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



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



		GPCG 1.1	R II	R125	R250	R500
Working volume Max	Min	1.5	21	15 l	30 I	45 I
	Max	41	61	50 I	100 l	150 l





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