



Make it better.

Tablet coating



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Tablet coating

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COATERS

SMARTCOATER series

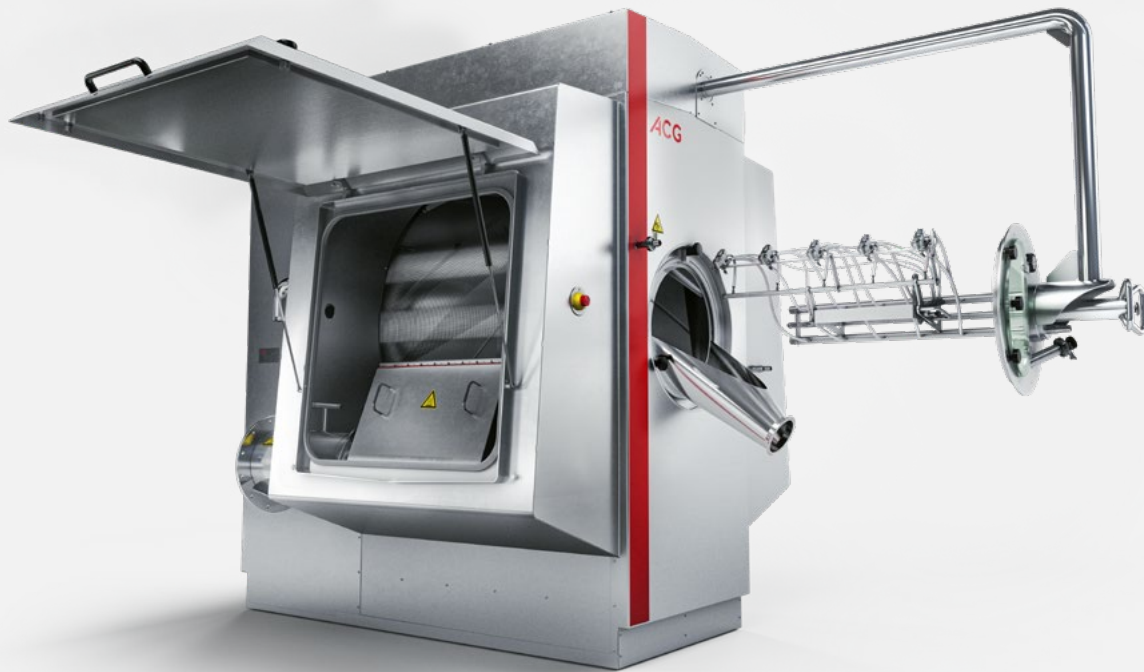
SMARTCOATER X•ONE series

Find this information on our website:
Machinery > Tablet coating > SMARTCOATER X•ONE series

Backed by more than 60 years of ACG engineering expertise, the SMARTCOATER X•ONE incorporates everything you need to ensure swift and economical processes – and uphold consistently high standards. As part of our new X•ONE series, and the next-level upgrade of ACG’s premium tablet-coating system, it makes tablet coating extraordinarily fast and fully reassuring, with increased process speed, efficiency and usability.

Applications

Film coating, seal coating, sugar coating and drug coating of tablets, micro-tablet coating and pellet coating



Features

Benefits

Unique coating system that includes baffles, spray arms and drum	Flexibility to work with 10-100% batch occupancy
High-performing spray-arm design with full external control via infinity handle	Accurate bed coverage for the entire batch size, and can be positioned to match all product requirements Avoids delays caused by in-process intervention
ACG’s X•ONE 2.0 Spray Nozzle – developed in partnership with Düsen-Schlick GmbH, Germany, with Anti-Bearding Cap – now offer a weight reduction of 50%	No product build-up, so far easier to clean and maintain Easier handling
Modular, automated and integrated design for tablet charging and discharging, with built-in discharge baffles	Dust-free, closed-door charging and 100% tablet discharge
Advanced wash-in-place (WIP) technology featuring the optimum number and arrangement of nozzles	Complete wetting of dead spots for faster, safer and efficient washing of all parts – including hard-to-reach corners
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

Technical specifications

Model	Working volume	Tablet coating	Micro-tablet coating	Pellet coating
SMARTCOATER X•ONE 175	Min	18l*	53l	88l
	Max	175l	140l	140l
SMARTCOATER X•ONE 250	Min	25l*	75l	125l
	Max	250l	200l	200l
SMARTCOATER X•ONE 350	Min	35l*	105l	175l
	Max	350l	280l	280l
SMARTCOATER X•ONE 500	Min	50l*	150l	250l
	Max	500l	400l	400l
SMARTCOATER X•ONE 700	Min	70l*	210l	350l
	Max	700l	560l	560l
SMARTCOATER X•ONE 1000	Min	100l*	400l	500l
	Max	1,000l	800l	800l
SMARTCOATER X•ONE 1400	Min	140l*	560l	700l
	Max	1,400l	1,120l	1,120l

*For select formulations only.

SMARTCOATER 2000 X•ONE

Find this information on our website:
Machinery > Tablet coating > SMARTCOATER X•ONE series

The SMARTCOATER 2000 X•ONE is not only our highest-capacity coater yet – it’s also our most productive and flexible. It features a larger drum fitted with universal mixing baffles, so there’s no need for changeover when between 30 and 100% capacity. A simplified and ergonomic inbuilt manifold for washing is provided in the machine.

Applications

Film coating, seal coating, sugar coating and drug coating of tablets, micro-tablet coating and pellet coating



Features

Benefits

A shallower coating drum designed to hold XL batch sizes	Faster coating, while minimising the chances of crushing tablets
High-performing spray arm with three directional settings	Positional settings for all product requirements Accurate bed coverage, thanks to adjustable nozzle and intermediate angle adjustment
Improved door design	Smaller footprint and enhanced ergonomics
ACG's X•ONE 2.0 Spray Nozzle – developed in partnership with Düsen-Schlick GmbH, Germany, with Anti-Bearding Cap – now offer a weight reduction of 50%	No product build-up, so it's far easier to clean and maintain Easier handling
Modular, automated and integrated design for tablet charging and with built-in discharge baffles	Dust-free, closed-door charging and 100% tablet discharge Virtually effortless discharge right up to the last tablet
Advanced wash-in-place (WIP) technology featuring the optimum number and arrangement of nozzles	Complete wetting of dead spots for faster, safer and efficient washing of all parts – including hard-to-reach corners
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

Technical specifications

Working volume	Min	600l
	Max	2,000l

COATERS
QUEST series

MINIQUEST T

Find this information on our website:
Machinery > Tablet coating > QUEST series

Designed especially for R&D and pilot scale batches, our QUEST series helps you generate tangible data, so you can establish process parameters quickly and accurately, and be confident scaling up your batches.

A tabletop tablet coating machine for future-ready pharmacists, MINIQUEST T is a direct result of ACG's pledge to bridge the gap between academia and industry expectations. This much-needed plug-and-play equipment gives students a hands-on contextual experience of coating machines, and requires minimal training.

Applications

Tablet coating



Features

Benefits

Separate venturi blowers for inlet and exhaust air	Helps to maintain negative pressure in the system, controlling differential pressure (DP) precisely across the drum
Integrated peristaltic pump	Ensures compact housing for optimised footprint
Needle-free Schlick nozzle	Ease of handling and excellent process results Easy scalability
User-friendly control system	Simple and intuitive to operate

Technical specifications

Working volume	Min	0.2l
	Max	0.7l

QUEST TC

Find this information on our website:
Machinery > Tablet coating > QUEST series

Designed especially for R&D and pilot scale batches, our QUEST series helps you generate tangible data, so you can establish process parameters quickly and accurately, and be confident scaling up your batches. This tabletop coating machine features a perforated drum

design and comes with three interchangeable drums. Its smart design and exclusive Schlick nozzle ensure reliably excellent process results. QUEST TC can be used for batch sizes as small as 200g, so it's perfect for R&D and feasibility studies.

Applications

Tablet coating,
minitablet coating

Features

Benefits

Three interchangeable drums – 0.8l, 1.6l and 2.5l	Process a wide range of batch sizes with the same equipment
Minitablet coating capability	Process tablets as small as 2mm in diameter the same equipment
Adjustable 'gun-to-bed' distance and angle	Flexibility to cover maximum area across the tablet bed irrespective of batch size Coating solutions (aqueous or solvent-based) with varying drying times can be used Ensures efficient coating
Smart design enables easy access	Faster and safer in-line handling and cleaning during the coating process
A weighing scale integrated with the Programmable Logic Controller (PLC)	Simplified spray-rate measurement
Touchscreen human-machine interface (HMI) and PLC-based control system	Intuitive, user-friendly controls



Technical specifications

	Drum sizes	0.8l	1.6l	2.5l
Working volume	Min	0.45l	0.9l	1.4l
	Max	0.8l	1.6l	2.5l

QUEST TC III

Find this information on our website:
Machinery > Tablet coating > QUEST series

Designed especially for R&D and pilot scale batches, our QUEST series helps you generate tangible data, so you can establish process parameters quickly and accurately, and be confident scaling up your batches.

An R&D-to-pilot-scale machine to support easy scale-up, QUEST TC III features a perforated-drum tablet-coating system with four interchangeable drums for different batch-processing needs. Designed at our Design Centre in Mülheim, Germany, the machine deftly handles a wide variety of coating applications and batch sizes.

Applications

Tablet coating,
minitablet coating

Features

Benefits

Interchangeable and fully perforated drums (2, 9, 24 and 56l) with optimised horizontal airflow	Well-defined spray and drying zones inside the coating drum ensure less coating residue in the drum, process chamber and ductwork
Split design X•ONE nozzle developed exclusively with Düsen-Schlick GmbH, Germany	Separate dock and nozzle mean less re-alignment
Wash-in-place (WIP) system with built-in washing nozzles	Makes it far easier to wash the system
ACG's exclusive X•ONE Command Process Control system with large interface screen	Compliant with GAMP 5 and 21 CFR Part 11, this advanced technology allows intuitive and secure monitoring and control, better interface

Technical specifications

	Drum sizes	2l	9l	24l	56l
Working volume	Min	1.2l	5l	13.5l	31.5l
	Max	2l	9l	24l	56l



CONTAINMENT COATERS
SECURECOAT series

SECURECOAT series

Find this information on our website:
Machinery > Tablet coating > Containment tablet coating > SECURECOAT series

The SECURECOAT series includes containment tablet coaters designed with operator safety front of mind, for use with highly potent active pharmaceutical ingredients (HPAPIs) that require occupational exposure band (OEB) 4 compliance.

Applications

Containment film coating, seal coating, sugar coating and drug coating of tablets, and micro-tablet and pellet coating

Features

Benefits

Contained product charging and discharging system, using bins and split valves	Complete containment of the product, ensuring operator safety
Vacuum-based sampling mechanism	Contained sampling throughout operation
Uniquely designed baffles	Matches the mixing and coating efficiency of SMARTCOATER X•ONE baffles. Easy to clean
Strategically positioned washing nozzles for hard-to-access areas, with a wash-in-place (WIP) rack	Far simpler washing
ACG's exclusive X•ONE command and control system	Compliant with ATEX, GAMP 5 and 21 CFR Part 11, this advanced technology allows intuitive, secure monitoring and control of the system



Technical specifications

Model	Working volume	Tablet coating	Micro-tablet coating	Pellet coating
SECURECOAT 125	Min	38l	38l	63l
	Max	125l	100l	100l
SECURECOAT 175	Min	53l	53l	88l
	Max	175l	140l	140l
SECURECOAT 250	Min	75l	75l	125l
	Max	250l	200l	200l
SECURECOAT 350	Min	105l	105l	175l
	Max	350l	280l	280l

SECURECOAT TC III

Find this information on our website:
Machinery > Tablet coating > Containment tablet coating > SECURECOAT series

The SECURECOAT series includes containment tablet coaters designed with operator safety front of mind, for use with highly potent active pharmaceutical ingredients (HPAPIs) that require occupational exposure band (OEB) 4 compliance.

The SECURECOAT TC III is a small-scale containment machine ideal for coating tablets containing oncological, cytotoxic, biopharmaceutical, hormonal, and other high-potency drugs.

Applications

Containment film coating, seal coating, sugar coating and drug coating of tablets, and micro-tablet and pellet coating



Features

Contained product charging and discharging system, using bins and split valves	Complete containment of the product, ensuring operator safety
Vacuum-based sampling mechanism	Contained sampling throughout operation
Uniquely designed baffles	Matches the mixing and coating efficiency of SMARTCOATER X•ONE baffles. Easy to clean
Strategically positioned washing nozzles for hard-to-access areas, with a wash-in-place (WIP) rack	Far simpler washing
ACG's exclusive X•ONE command and control system	Compliant with ATEX, GAMP 5 and 21 CFR Part 11, this advanced technology allows intuitive, secure monitoring and control of the system

Technical specifications

	Drum sizes	9l	24l	56l
Working volume	Min	5l	13.5l	31.5l
	Max	9l	24l	56l



Make it better.

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