

CRYSTAL POWDERDOSE

Gravimetric solid dispensing in a compact and flexible benchtop solution



CHEMSPEED IS TAKING THEIR SOLID DOSING TECHNOLOGY TO NEW LEVELS OF FLEXIBILITY AND COMPACTNESS

CRYSTAL POWDERDOSE is a fully automated and compact benchtop solution which allows to optimize and speed up the sample preparation process, it provides maximum flexibility in handling multiple solids, with accurate dosing directly in well plates and various size vials.

Increase efficiency

Automate repetitive and time-consuming tasks, provide walk away time

Enhance traceability

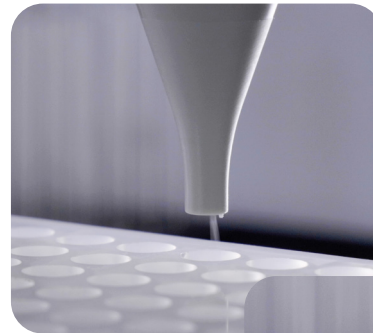
Easy-to-use software for consistent and ensure traceability, 21 CFR part 11 compliant software

Gradient and incremental value

Making it quick and easy for DoE using the clear and intuitive GUI to assist

Faster dosing cycle

Dosing directly into your labware, which drastically reduces the dosing cycle time



EASY-TO-USE SOFTWARE - NEXT GENERATION TOUCH USER INTERFACE

CRYSTAL software supports fully unattended sample preparation. It enables quick execution, monitoring and automated logging of data. The native ArkSuite integration allows data, inventory, product and run management. Web and mobile access is available for remote configuration and system status.

Easy to use GUI

Export the data in various formats

Real time dispensing data

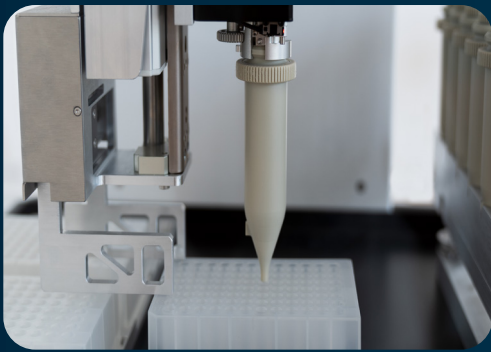


Intuitive programming

Connect to 3rd party software

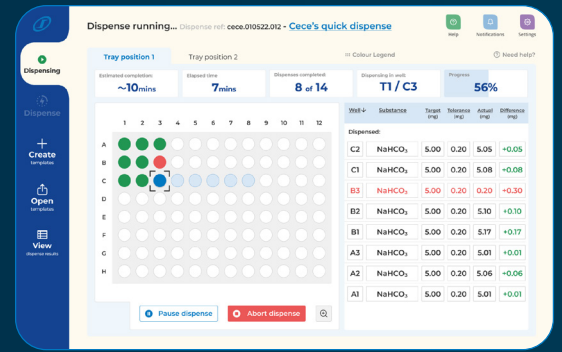
Multi-language

The most compact and fully automated benchtop solution with a footprint of 45 x 45 cm!



Direct gravimetric fine dispensing unit for solids and powders

End users load solids
press go and walk away!



Dispense overview

DISPENSING CHARACTERISTICS

Compound type	Solids and powders
Powder distribution	one-to-one; many-to-one many-to-many
Technology	Direct gravimetric fine dispensing unit for solids and powders
Balance resolution	10 µg
Dispensing range	mg to 20 g
Dispensing container	20 mL
Available wellplates	6 (2x3), 12 (3x4), 24 (4x6), 48 (6x8), 96 (8x12)

DISPENSING EXAMPLES

Description	Target amount (mg)	Average dispense amount (mg)	StdDev (mg)	Average dispense time (s)
Aerosil	1.0	1.0	0.1	41
	10.0	10.3	0.1	42
	20.0	20.6	0.1	69
	100.0	100.2	0.2	310
Dibasic Calcium Phosphate	1.0	1.0	0.1	19
	10.0	10.4	0.4	27
	20.0	20.2	0.3	32
	100.0	99.9	0.1	63

SELECTION OF OPTIONAL FEATURES

The CRYSTAL POWDERDOSE can be equipped with additional unit operations to increase capabilities:

- Automated opening / closing for e.g. autonomous lab solutions
- Ionizer to reduce static charge
- Camera module for remote viewing of the system



At Chemspeed Technologies AG, our mission is to enable the innovation and sustainability of tomorrow through gamification, augmented reality, digitization, automation and robotics. As a global market leader, our solutions accelerate future developments such as novel medicines and materials, for example, batteries, photovoltaics and cosmetics, in a wide range of chemical research fields and quality control. With over 20 years of experience and a global footprint, we continuously grow and look for you to be part of this success story.

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