

DIOSNA Processing plants for laboratory and production



Tablet Coater HDC 5 - 600

Film Coating and Sugar Coating.



Technology at the highest stage.



The DIOSNA HDC Horizontal Drum Coater is a perfect complement to your tablet production for both laboratory and full production. Quality in every detail: from ease of maintenance to superior fit and finish and highly optimized process control, the DIOSNA HDC stands out as a leader in coating technology.

The flexible concept of the series HDC 5 to HDC 600 covers various applications and stands for convincing coating results.

The possibility to use different drum sizes with one machine assures highest possible flexibility for the user.



DIOSNA HDC Horizontal Drum Coater

- increases the efficiency of the coating process
- universally suitable for all kinds of tablets and coatings
- simple product handling
- space saving "through-the-wall" installation
- optimal accessibility through completely hinged front door
- fully automatic cleaning



HDC 200

Short process times, optimum coating

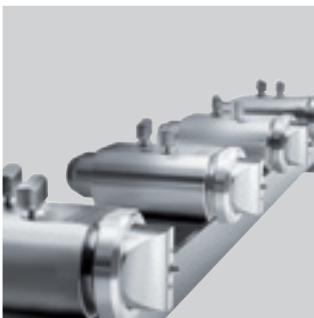
Individual and comfortable.



Big hinged front door.



Simple operation due to horizontal removal of spraying device and lid.



Turbulence-free coating with the novel ABC Anti-Bearding-Cap.

The DIOSNA HDC allows versatile applications with precise coating results. Sugar coating, hydrous coating or even coating with organic solutions – no challenge for the HDC. The HDC's high efficiency design also allows the use of more critical coating processes like functional coatings or humidity-sensitive cores.

Ergonomic design: The spraying arm and front door can be easily swivelled. This design guarantees wide front accessibility to all functionally relevant parts as well as simple changing of the drums.

The perforated drum presents ideal conditions for any kind of tablets and coatings. The special drum surface finish and tablet “flow” system in the HDC assure gentle processes for sensitive products.

As the machine can be operated with different drum sizes it covers a wide batch range. Any machine size is deliverable with exchangeable drums of different sizes.

The Anti-Bearding-Cap technology (ABC-Technology) reduces turbulences in the area of the air cap and of the nozzle mouth considerably. The ABC system increases efficiency while reducing the chance of obstructed nozzles and errant coating deposits. Better coatings and less wash-up time.

During the process the nozzles are automatically cleaned by a cleaning needle system. A hygienic spraying arm made of titanium with inside supply lines is included in the basic design. Thus there are no hoses and couplings in the process chamber.

HDC. The safe way to first class film coating

Advantages of the HDC at a glance.



Laboratory version of the HDC Horizontal Drum Coater.

- Suitable for all kinds of tablets and coating media
- Highest flexibility due to different drum sizes and adjustable nozzle height system
- Simple operation for removal of spraying device and lid
- Gentle film coating and sugar coating with ABC-technology
- Reduction of thermal and mechanical loads
- Space saving "through-the-wall" installation
- Reduced cleaning time and coating application efficiency

HDC Laboratory Version

DIOSNA offers a laboratory version for mobile operation of the HDC technology. All components are integrated in the machine frame. A large touch panel operates the laboratory version easily and intuitively.



HDC. High-quality coatings - precise and efficient

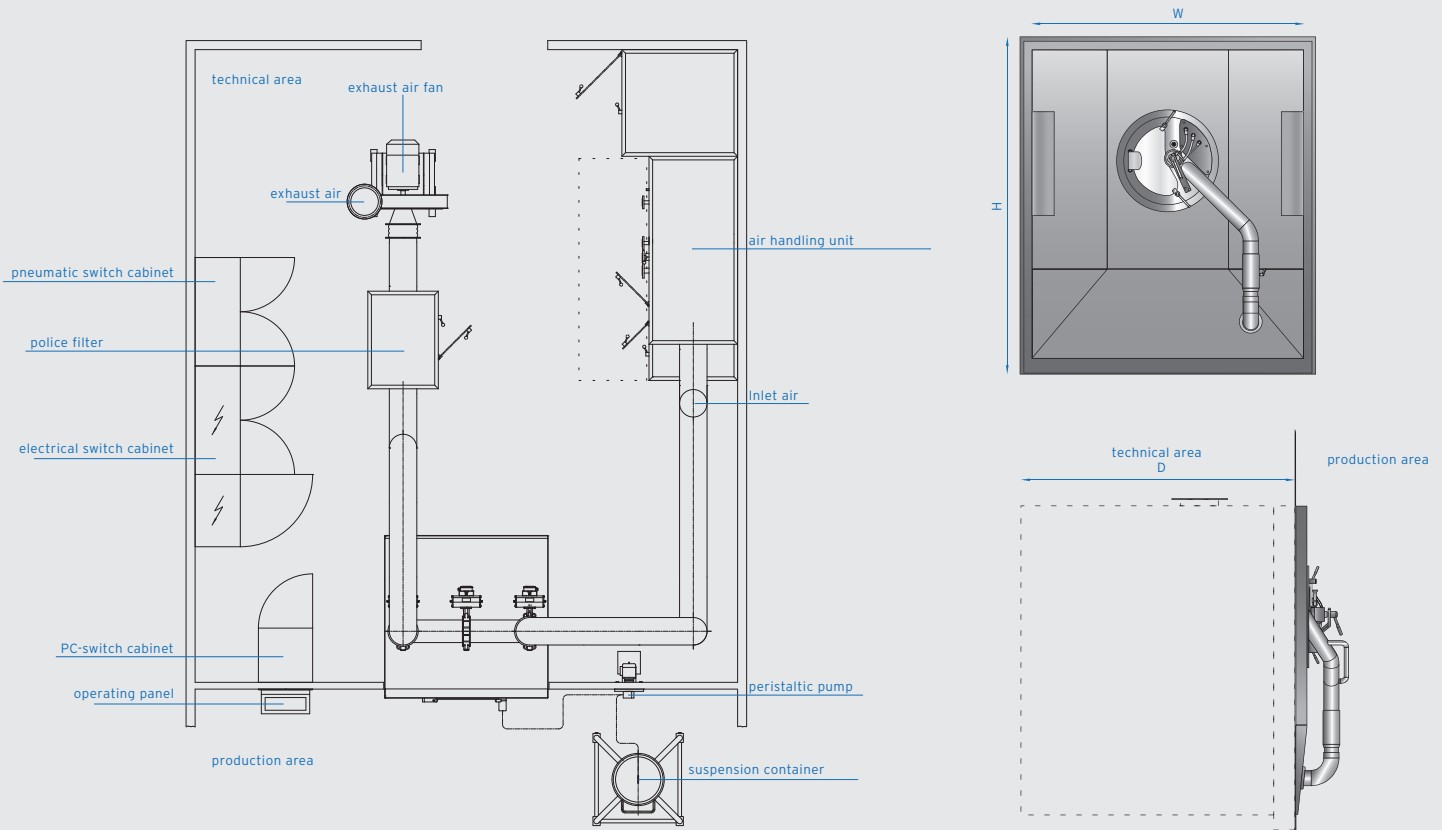
Coating processes offer good possibilities for PAT-technologies to control and record the process. For example we have deployed a NIR spectroscopy system with excellent results.

With the help of reflection probes we can measure the growth of the layer thickness of the coatings online and document it in the batch record.



"Through-the-wall" Installation

Technical Data and Dimensions



Parameter	HDC 5	HDC 50	HDC 100	HDC 125	HDC 200	HDC 350	HDC 400	HDC 600
Dimensions (WxDxH) (mm)	1900 x 850 x 190	1250 x 1250 x 1950	1650 x 1500 x 2100	1650 x 1500 x 2100	1800 x 1800 x 2100	2000 x 2000 x 2400	2100 x 2200 x 2400	2350 x 2500 x 2400
Batch size nominal (approx. kg)	4	40	80	100	160	280	320	480
Batch size min (standard) (approx. kg)	3	24	50	60	100	170	200	290
Batch size min (extended) ¹ (approx. kg)	2	5	10	20	50	-	-	-
Batch size max (approx. kg)	4	56	90	110	180	290	350	500
Air volume stream (m³)	200	1200	2300	2300	3500	5000	5000	7000
Steam consumption max. (kg/h)	8	49	98	98	146	210	210	293
Electrical power (kW)	6	7	17	17	28	44	46	58
Spraying rate max. (g/min)	30	220	450	450	670	970	970	1350

¹depends on used interchangeable bowl.

Data are valid for the basic plant. We reserve the right to change technical data, design and specifications.



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