

PERFORATED PAN FOR TABLET COATING P SERIES



CIMA[®]
Industries Inc.
Pharmaceutical Equipment



PERFORATED PAN FOR TABLET COATING / P SERIES



P Series perforated pan for tablet coating is a flexible and reliable machine providing high efficiency in the field of automatic coating equipment. The machine is also suitable for containment installations, reducing operator exposure in case of highly active potent ingredients (HAPI) processing.



MIXING CAPABILITY AND FLEXIBILITY

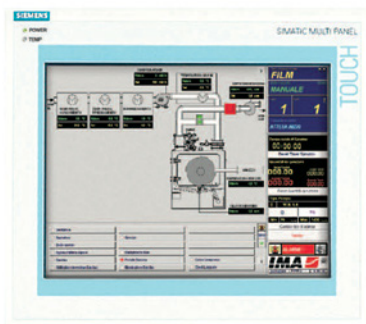
The shape of the pan combined with the mixing baffles positioning on the central sector of the drum ensure a perfect and uniform mixing of the cores. The mixing capability is maintained in case of minimum or maximum quantity of product, allowing a wide range of batches to be processed in the same machine (from 25% to 110% of the pan capacity). Position and dimensions of the outlet air duct are designed so that to guarantee a good and uniform drying of the product, thus saving energy.

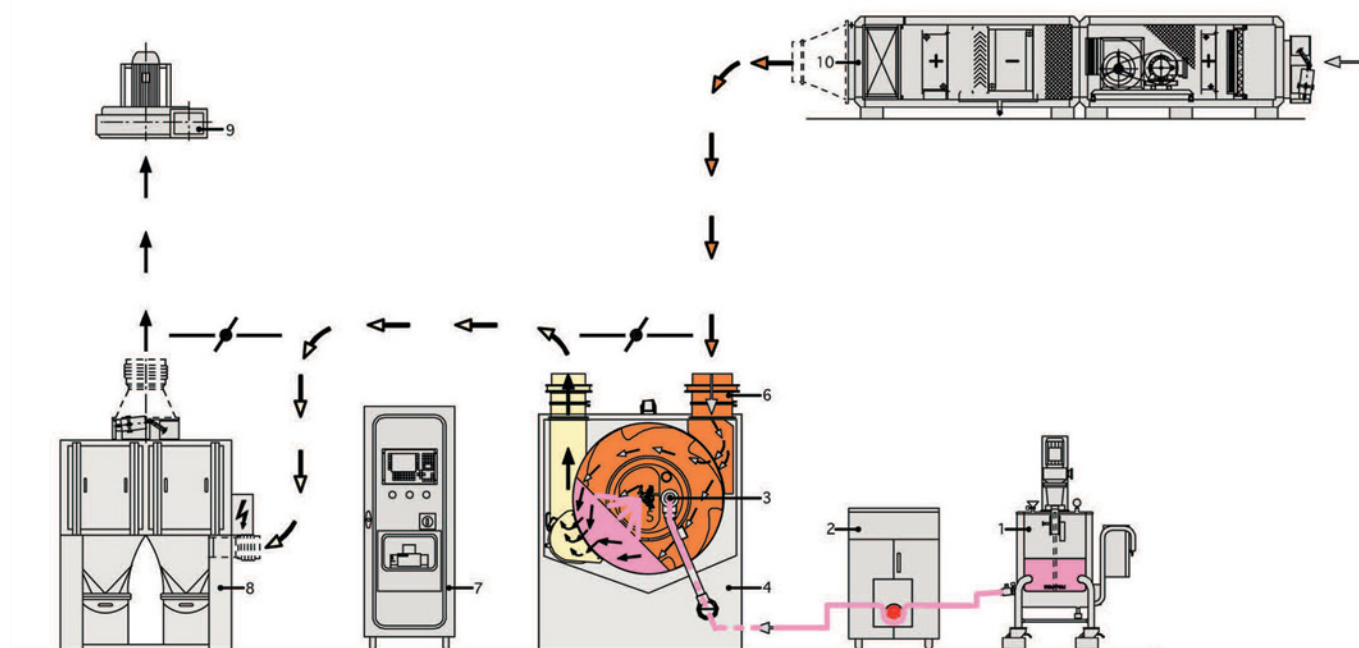
AUTOMATIC PRODUCT LOAD AND DISCHARGE

The machine can be fitted with automatic product loading and discharge. On a standard pan, product discharge is achieved through a discharge tube connected to the pan by a fast fixing system. On the spiralled pan a triple spiral present in the front surface of the pan allow product unloading by simply reversing the rotation of the pan; coated tablets are discharged through the unloading port in the front door without need to open the front door and to fit any additional device. Both systems have no dead zone and guarantee 100% product discharge to the bin.

OPERATOR INTERFACE AND EQUIPMENT MANAGEMENT

According to customers requirements, three different systems can be fitted: BT, TO and COMAUT. All of them feature the use of a PLC connected to an operator terminal board (BT basic or TO advanced version), which gives a constant operator guide and keeps continuous control over every significant process parameter in both numerical and graphic formats.



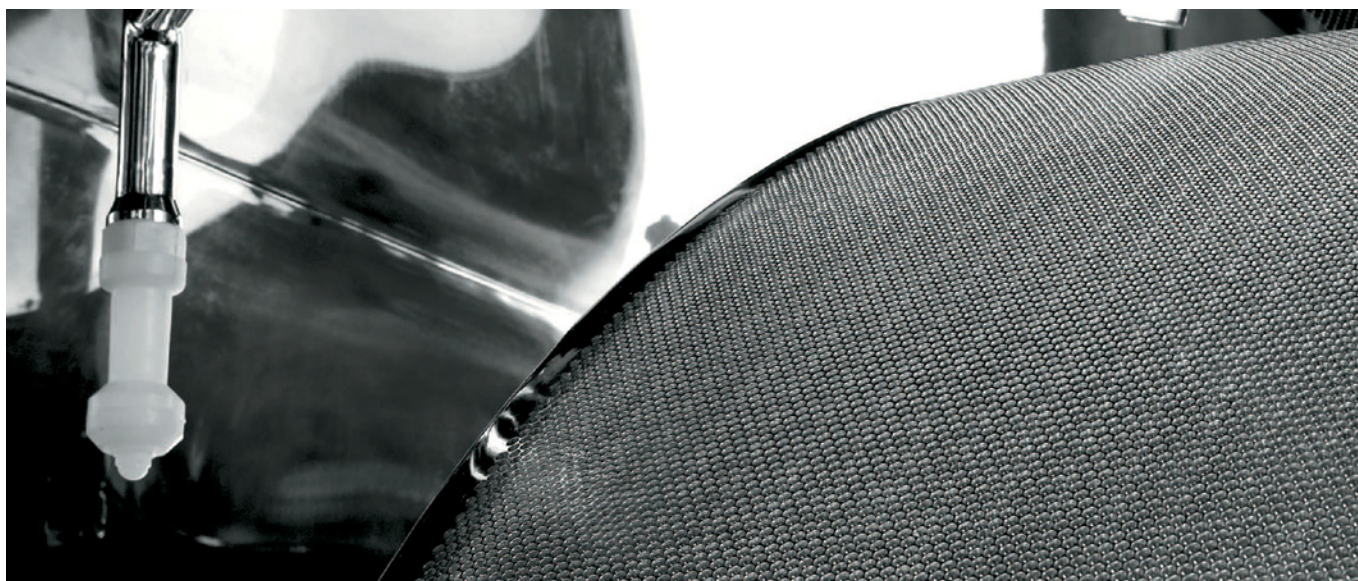


- | | |
|---------------------------------------|----------------------------|
| 1. Product storage tank with agitator | 6. Inlet air handling unit |
| 2. Dosing pump | 7. Control system |
| 3. Spray gun support sliding arm | 8. Dust collector |
| 4. Perforated pan | 9. Aspirating fan |
| 5. Spray guns | 10. Air treatment unit |

Model	PLAB	P200	P500	P800
Minimum/maximum capacity (liters)	10(3-10) 30(8-30) 70(18-70)	60-250	140-550	240-900
Pan diameter (mm)	765 (for 10L dum) 865 (for 30L dum) 965 (for 70L dum)	1330	1680	1980
Pan mouth diameter (mm)	474	590	590	730
Pan motor power (kw)	1.5	4	5.5	7.5
Process air delivery (m ³ /h)	1100	3500	6000	8000
Closed size (mm) (LxWxH)	1250x1798x2532	1878x2474x2642	1807x2330x2674	2550x2700x3195
Opened size (mm) (LxWxH)	1250x3105x2532	1878x4375x2642	4832x5513x2674	5450x4340x3195

Environment requirements. Temperature 5-40 °C , relative humidity: 70% (maximum), Altitude: 2000 m (maximum)

PERFORATED PAN FOR TABLET COATING / P SERIES



INSPECTION

The doors placed on the front and side of the pan allow the machine to be fully accessible for inspection.



ISOLATION

All parts of the machine in contact with the product are completely isolated. All openings are fitted with inflatable seals and the entire coating process can be achieved without contamination of the external environment.



CLEANING

The machine is equipped with a completely automatic Clean In Place system validated in collaboration with the University of Parma (Italy). Cleaning nozzles and spray balls covers all machine areas to be cleaned and are always in position so that a cleaning cycle can start immediately after the process without any need to install additional devices. Water discharge is carried out by means of a valve placed on the bottom part of the pan.

PERFORATED PAN FOR TABLET COATING / P SERIES LAB



P Lab is a perforated pan for laboratory applications and small production batches.

Thanks to its interchangeable drums (three drums available). It is possible to work a wide range of capacities:

3-10 liters	0.5-2 liters	1.5-5 liters
8-30 liters	1.5-5 liters	3-10 liters
18-70 liters	3-10 liters	8-30 liters

INSPECTION

Once opened the doors fitted on each side of the pan, the machine is fully accessible and can be easily and quickly inspected.



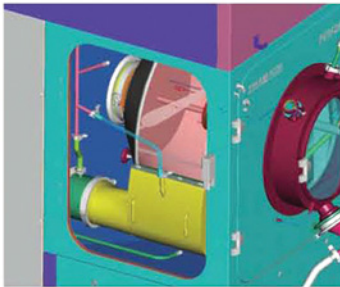
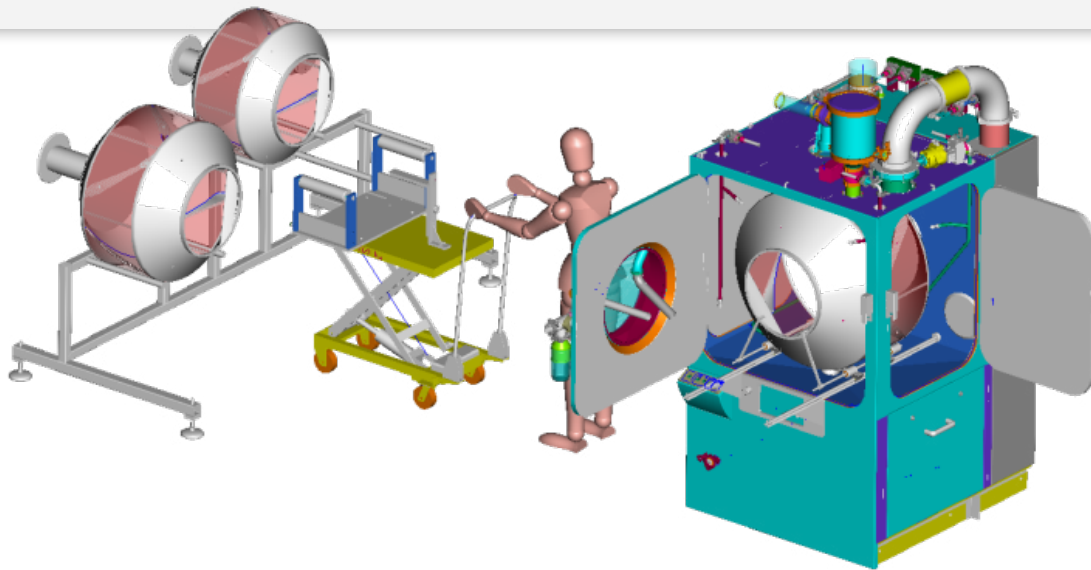
AIR HANDLING UNIT

The unique stainless steel pipe aluminum fin heat exchanger, with high heating efficiency, fast temperature raising, can equip with pre-filter, HEPA filter three-stage filtration & dehumidification by cooling water.



DUST COLLECTOR WITH PNEUMATIC BACKWASHING SYSTEM

Special filtering bags made of Dura-life (Polyester), in antistatic version, and backwashing system by compressed air, ensure the good dust collect effect.

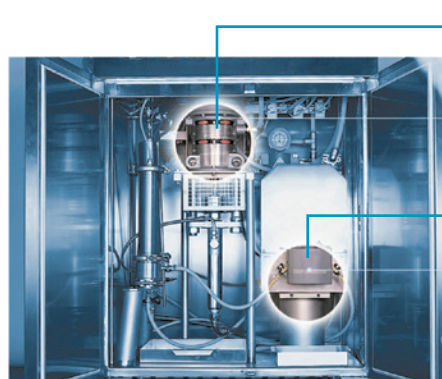
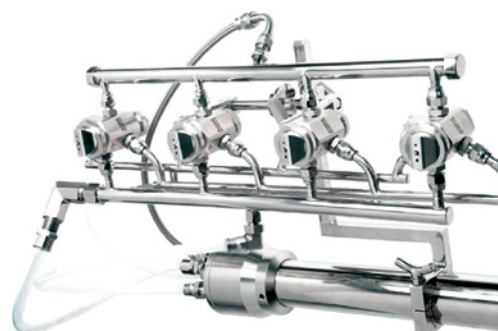


P LAB

P Lab Laboratory Coating Machine uses the same high technology as the production type perforated coating machine on the purpose of fitting into producing different types of products after having a maximum flexibility and scaling up easily. The high automation of the machine is more easy to operate and maintain. Thanks to a smart shape, lab coating machine can connect with a public facility easily and quickly. It can not just considered as a laboratory machine, but also can use as a small batches production type coating machine which thanks to the interchangeable drum design (three types of drum: 10L, 30L, 70L) and the processing capacity range can be wide range from 3L to 70L.

SPRAY GUNS

P SERIES PERFORATED PAN FOR TABLET COATING spray guns feature an Anti-Bearding-Cap (ABC) system avoiding guns clogging while the machine is working. Both sugar and film spray guns can be easily fitted on the sliding support arm and are positioned and adjusted during the process from the outside by using the relevant device. The sliding arm can be removed from the front door of the pan. Allowing guns changing, calibration/adjustment and fast and safe cleaning.



→ **SUGAR**

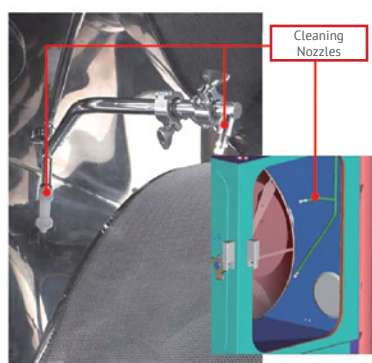
→ **FILM**

The sugar system (airless) features a pneumatic high pressure piston type pump with spray gun and recirculation system.

The film system (air) is fitted with either peristaltic or volumetric piston, low pressure type pump (depending on the viscosity of the product to be handled) and is complete with in-line product pressure control and air spray guns.

DOSING UNIT

The spray system is the result of blending some highly advanced technologies and has been designed to ensure easy maintenance, simple inspection operations and quick changeover from one product to another. It includes two spray units (air and airless) complete with the relevant surge chambers to guarantee constant flow rate, and is housed in a soundproof stainless steel cabinet, which can be opened from four sides to fully comply the GMP requirements.



CLEANING

Perforated Pan can be fitted with a completely automatic Cleaning In Place system. The machine is equipped with cleaning nozzles and spray balls that cover all machine areas to be cleaned.



CIMA[®]
Industries Inc.
Pharmaceutical Equipment



PANAMÁ

World Trade Center. 1er Piso, Área Comercial.
Calle 53 Marbella. Apartado 0832-00155 WTC
Panamá, República de Panamá.
Tel. +507-205-1915
Fax. +507-205-1802

ARGENTINA

Fragata Trinidad 1539
Ciudad Autónoma de Buenos Aires
CP 1440. República Argentina.
Tel. + 54 11 4686 3868

SHANGHAI

Office 301, Building 12, Lane 2328 Chun Sheng
Minhang District C.P. 201100
Shanghai, People's Republic of China.
Tel. +86-21-54993845
Fax. +86-21-54992467

CIUDAD DE MÉXICO, MÉXICO.

Pafnuncio Padilla 26 Piso 3, Despacho 329
Ciudad Satélite, Naucalpan de Juárez,
Estado de México. C.P. 53100
Tel. +52-55-2455-5901

GUADALAJARA, MÉXICO

Av. Doctor Roberto Michel 1156
Col. San Carlos. Guadalajara,
Jalisco, México. C.P. 44460
Tel. +52-33-4777-6000

GUATEMALA

2da Calle D-8-11 zona 16
Col. Lourdes Cp. 01016 Ciudad de Guatemala,
Guatemala Centro.
Tel. +502-5966-0585

COLOMBIA

Calle 100 # 8ª-55 Torre C
Oficina 1005. Bogotá, Colombia.
Tel : +57-1-6567381

BRASIL

Gessy Lever, 869
Lenheiro, Valinhos 13.272-000
São Paulo, Brasil.
Tel: +55-19-3295-8362

PERÚ

Madrid #245,
Departamento #501, Miraflores,
Lima-Perú.
Tel. + 51 952197438

VENEZUELA

Av. Principal de Macaracuay
Multicentro Macaracuay
Piso 9, Ofic. 906 Municipio Sucre
Caracas, Venezuela. CP 1070
Tel: +58 212-2560401

ECUADOR

Calle los Senderos No. C 9
Las Cascadas
Pichincha, Quito Ecuador.

CHILE

Alcántara 200 piso 6
Las Condes
Santiago de Chile, Chile.

COSTA RICA

Itskatzú, Suite 203, 2do Piso.
Escazú, San José, Costa Rica.

USA

256 Airport Road
Fall River,
MA 02720, USA.

EGIPTO

11Emad El Din Calle
Egipto.



SHANDONG SMA PHARMATECH CO., LTD

165 Huabei Road, High & New technology Development Zone, Zibo City, Shandong Providence, China.
Postcode: 255086 Tel. (+86) 533 3813925/3813011 Fax. (+86) 533 3813012/3813002
www.sd-sma.com