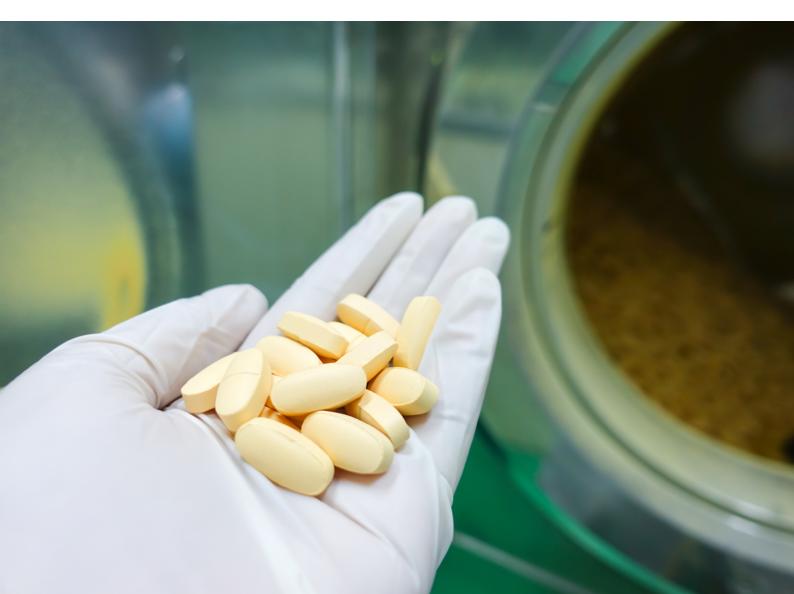


Coating Systems Product Data





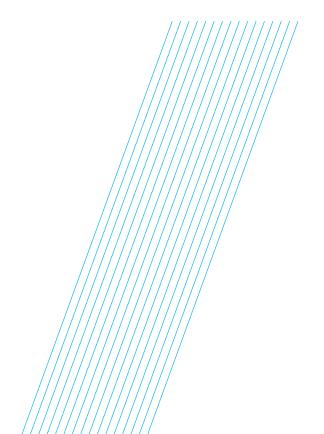


Coating Systems Product Data

Contents

R&D / PILOT SCALE

ALPHA COTA	5	10	20		
PRODUCTION	SCALE				
NOVACOTA	75	75C	150	150C	
SIGMACOTA	350	350C	750	750C	





ALPHA**COTA** 5/10/20

Automatic Tablet Coating System



Coating Range Features:

- Siemens S7 Industrial PLC control
- Siemens HMI operator touch screen
- Complete display and control of the coating process
- Data acquisition, downloading and print functions
- Unique 'streamline' guide plate (agitator) design
- Spray systems with self-cleaning
- CIP with PLC controlled washing cycles

AVE offer a complete range of fully automated Tablet Coating Systems including perforated, side-vented, and non-perforated drums from 1-750kg capacity.

Built to comply with cGMP guidelines and CE standards the range combines modern tablet coating technology with high quality construction; designed for easy cleaning with optional **Clean in Place (CIP)** system.

The Clean in Place System (CIP) facility is for the automated cleaning of the internal surfaces, the system includes a hygienic pump, spray balls and solution tank.

- Control via HMI / PLC with recipe wash phases
- All contact parts in stainless steel
- Washing cycle can be tailored to user requirements

PLC control

The control system is a Siemens Simatic S7 series PLC with Siemens HMI, the system has 3 levels of passwords divided into operator and engineer level for operation and process management, data setting and modification. The interlocks and alarms are designed within the control system with records of historic data, alarms etc. which can be output to a data printer.

An optional data acquisition package is available with additional software functionality, allowing the system to be validated to FDA CFR21 Part 11 (optional)

The HMI interface allows easy input for the operator, allowing display and control of the coating process, such as pan pressure, inlet and exhaust temperature and air velocity along with clean in place (if included).

Pan construction

- Stainless steel, assembled onto a stainless steel sub frame
- Full penetration welds, ground smooth
- Silicone doors seals
- Large glass opening front access door
- Swing out spray arm
- Direct chain drive, variable speed inverter controlled via HMI
- Drum lamp
- Unique 'streamline' guide plate (agitator) design
- Drum discharge system

Technical Specificat	tion		
	ALPHA COTA 5	ALPHA COTA 10	ALPHA COTA 20
Production Capacity	1, 3, 5kg	3, 5, 10kg	10 - 20kg
Pan Diameter	300mm	380mm	700mm
	380mm	480mm	
	480mm	610mm	
Pan Speed	6 to 30 rpm	6 to 30 rpm	2 to 20 rpm
Spray Guns	1pc	1pc	1pc
Working Air Volume	300~500m ³ /h	500~800m ³ /h	600m³/h
Air Temperature	ambient to 80°C	ambient to 80°C	ambient to 100°C
Air Inlet Filtration		Нера	
Steam Heating	N/A	N/A	N/A
Electrical Heating	6kw	10kw	6kw
Pan Contact Parts		SS316L	
Pan Frame		SS304	
Electrics		380V/3Ph/50Hz/30/	Ą
Coater Dimensions	1250 x 900 x 1680mm	970 x 880 x 1800mm	1070×1320×1820mm
Coater Weight	400kgs	450kgs	420kgs





NOVA**COTA** 75/75C/150/150C

Automatic Tablet Coating System



Coating Range Features:

- Siemens S7 Industrial PLC control
- Siemens HMI operator touch screen
- Complete display and control of the coating process
- Data acquisition, downloading and print functions
- Unique 'streamline' guide plate (agitator) design
- Spray systems with self-cleaning
- CIP with PLC controlled washing cycles

Technical Specification

	NOVA COTA 75/75C	NOVA COTA 150/150C		
Production Capacity	75 kg	150 kg		
Pan Diameter	950mm	1200mm		
Pan Speed	4 to 19 rpm	2 to 15rpm		
Spray Guns	2pcs	3pcs		
Working Air Volume	1500~2000m³/h	2500~3000m³/h		
Air Temperature	ambient to 80°C			
Air Inlet Filtration	Нера			
Steam Heating	≤80kg	≤150kg/h		
Electrical Heating	Optional	Optional		
Pan Contact Parts	SS316	ôL		
Pan Frame	SS3C)4		
Electrics	380V/3Ph/50Hz/40A	380V/3Ph/50Hz/50A		
Coater Dimensions	1350 x 1010 x 1630mm	1570 x 1260 x 2000mm		
Coater Weight	550kgs	900kgs		

All AVE Technologies Coating System machines are built to comply with cGMP guidelines and CE standards – the range combines modern tablet coating technology with high quality construction; designed for easy cleaning.

SIEME	NS			SI	MATI	C HM	l
W E	/E Username	2	Alarm List	00:0	00:00	×	
	Drum Motor WFD Alarm		0	Low Air Velocity Alarm			
	Outlet Air Fan Motor VFE	D Alarm	0	HEPA Differential Pressure	Upper L	imit Alarm	Ì
٢	Inlet Air Fan Motor VFD	Alarm	0	HEPA Differential Pressure	Lower L	imit Alarm	
٢	Low Air Pressure		2	Heater Alarm			
٢	Negative Pressure Upper	Limit Alarr	n 🦲	Emergency Stop Alarm	Alarm	Record	
	Negative Pressure Lower	r Limit Alarr	m		Clea	Alarm	



SIGMA**COTA** 350/350C/750/750C

Automatic Tablet Coating System



Technical Specification

	SIGMA COTA 350/350C	SIGMACOTA750/750C		
Production Capacity	350 kg	750 kg		
Pan Diameter	1580mm	1580mm		
Pan Speed	2 to 11 rpm	2 to 10rpm		
Spray Guns	4pcs	6pcs		
Working Air Volume	3500~4000m³/h	5500~6000m³/h		
Air Temperature	ambient to 80°C			
Air Inlet Filtration	Нера			
Steam Heating	≤200kg	≤400kg/h		
Electrical Heating	Optional	Optional		
Pan Contact Parts	SS316	SL		
Pan Frame	SS304			
Electrics	380V/3Ph/50Hz/80A	380V/3Ph/50Hz/100A		
Coater Dimensions	2000 x 1560 x 2300mm	2000 x 2240 x 2330mm		
Coater Weight	1,650kgs	2,500kgs		

AVE Technologies Ltd. T: +44(0)1342 458 248 E: info@avetechnologies.co.uk





AVE Technologies also offer:

Tablet Compression Solutions

Encapsulation Solutions

SoftGel Systems

Cartoners

Blister Packers

Counting Line

The quality of our products is our first consideration from conceptual design to final commissioning. All activities in the manufacture process are in accordance with the company's Quality Assurance Manual and International Standards Directive BS EN ISO 9001:2008. The production site where the products are made has been assessed and given ISO 9001:2008 approval.

All equipment is manufactured to allow it to be CE marked in accordance with 98/37/EC Machinery Directive, inclusive of but not necessary limited to the following standards:

- EC Machines Directive 98/37/EEC
- EC Low Voltage directive 73/23/EEC
- Electromagnetic Compatibility Directive 89/336/EEC
- Safety of Machinery BS EN 12100:20 10
- General Requirements Electrical Equipment of Machines EN60204-1
- Safety of Machinery fluid Power Systems and their components BS FN 4414:2010
- Cleanroom and Contained Enclosures Standards ISOI4644 Pt1-7
- Validation of Automated Systems in Pharmaceutical Manufacture ISPE GAMP
- Pressure Equipment Directive 97/23/FC (where applicable)

All images are for illustrative purposes. Specifications are subject to regular updating. Please contact AVE Technologies for latest product details.

AVE Technologies Ltd. **T**: +44(0)1342 458 248 **E**: info@avetechnologies.co.uk www.avetechnologies.co.uk

