Coating/Dispensing Platform Alpha 6

WERNER WIRTH

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Product description

Alpha 6 is the new innovative and compact processing platform by Werner Wirth for a wide range of coating and dispensing applications.

The system is outstandingly easy to use and highly flexible in meeting many different requirements. The machine is designed as a self-contained working cell that can be used for both coating and dispensing various media, together with other customer-specific applications, such as surface treatment with atmospheric plasma.

Alpha 6 is a robust, aesthetically pleasing machine that stands for high precision and reproducibility in application.

Coating/dispensing system characteristics

o Compact, flexible machine platform
o Servo drive system up to 6 axes with encoder, closed loop
o Robust drive system: ball screw with linear guide
o Flexible in terms of requirements and applications
o Automatic limit value monitoring of default values
o High coating quality and reproducibility
o Graphic user-friendly programming environment
o Simple intuitive operation
o Adaptable system size
o Wide choice of coating methods
o Detailed process data acquisition

Technical details*

General		
Dimensions (w x d x h)	1.000 mm x 1.070 mm x 1.820 mm	
Weight	approx. 550 kg	
Power supply	230 V AC 1Phase 50Hz 16A	
Exhaust air	by customer, 500m³/h, including waste air monitoring (spraying)	
Air/nitrogen supply	6–8 bar, 100–200 l/min.	
Standard Conformity/Protocol	CE/SMEMA	
Drive system	**X-Y axis**	**Z axis**
Servo drives with encoder	closed Loop	
Speed	max. 1.000 mm/s	
Acceleration	1 g (10.000 mm/s²)	
Resolution	+/- 0.001 mm	+/- 0.001 mm
Positioning precision	+/- 0.05 mm	+/- 0.05 mm
Drive system load capacity	max. 10 kg	
Travel distance Z-axis	max. 120 mm	
Coating/dispensing section**	**3-axis system, 1 valve**	
Stand alone	500 mm x 500 mm	
Inline	500 mm x 500 mm	
Computer/software		
Computer	Industry PC, Keyboard, Touch screen	
Operating system	Windows 10 Professional	
Interfaces	USB, Ethernet	
Application software	standard	
Offline programming	standard	
Coating method		
Spraying		
Dispensing		
Jet		
Transport system		
Inline	standard chain, electric width adjustment	
Stand alone	PCB fixture, adjustable	
Width adjustment	50 mm–500 mm	
Component clearance	+/- 100 mm	

Options***

- Servo system up to 6 axes
- Belt Transport system
- Stand-alone-solution: PCB fixture
- Camera system
- Barcode functionality
- MES (Manufactoring Execution System
- Valve dispensing needle measurement XYZ
- Material: Feed systems, Low Level, Flow Monitor
- Black light
- Conveyor system automatic electric width adjustment
- PCB locator
- Loading/discharging shuttle systems
- Multiple valve configurations

* Detailed information on request
** Options may result in deviations
*** Other options on request

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