

Product information

# Coating/Dispensing Platform Alpha 6



## Product description

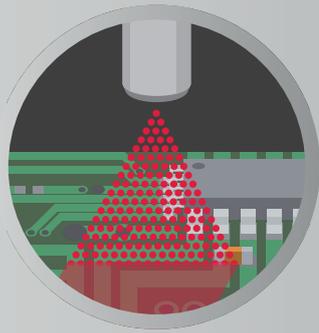
Alpha 6 is the new innovative and compact processing platform by Werner Wirth for a wide range of coating and dispensing applications.

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

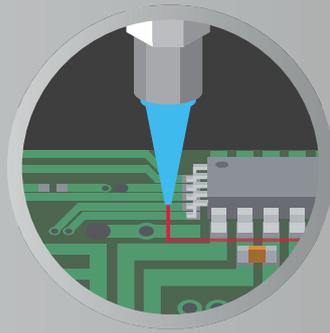
for both coating and dispensing various media, together with other customer-specific applications, such as surface treatment with atmospheric plasma.

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

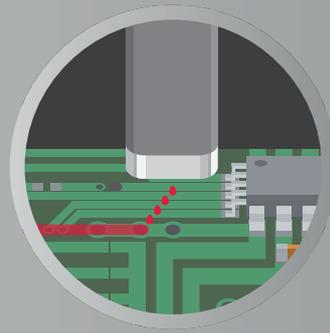
## Wide selection of application technique:



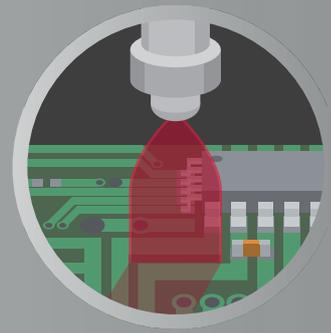
Atomized Spray



Dispensing



Non-contact Jet dispensing



Film coating

### Coating/dispensing system characteristics

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

### Options\*

- Servo system up to 6 axes
- Belt transport system
- Conveyor system automatic electric width adjustment
- Stand-alone-solution: PCB fixture
- Camera system
- Black light
- MES (Manufacturing Execution System)
- Barcode functionality
- Material: feed systems, low level, flow monitor
- PCB locator
- Loading/discharging shuttle systems
- Valve dispensing needle measurement XYZ
- Multiple valve configurations

\*Other options on request



Consistently traceability via handheld bar code scanner and the material identification are logged!

**Alpha CDS Software:**  
Graphic and user-friendly programming interface with simple and intuitive operation



Alpha line  
competence



Alpha UV-Cure



**Alpha Motion:**  
Handling of printed circuit  
boards between the individual  
process machines

**Alpha Loader/Unloader:**  
Continuous loading and  
unloading of the production  
line „From magazine to  
magazine“



Alpha Loader



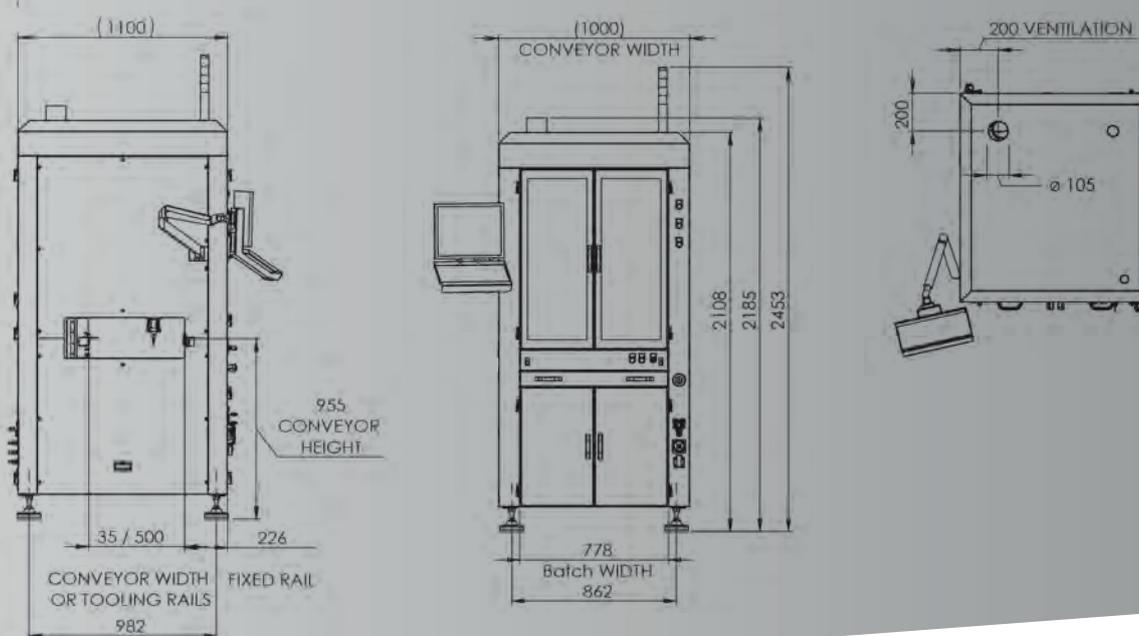
Alpha Unloader

## Technical details\*

General		
Weight	approx. 770 kg	
Power supply	230 V AC 1Phase 50Hz 16A	
Exhaust air	by customer, 500m <sup>3</sup> /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	up to 1.000 mm/s	
Acceleration	up to 1 g (10.000 mm/s <sup>2</sup> )	
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	
Transport system		
Inline	chain (standard), electric width adjustment	
Width adjustment	50 mm–500 mm	
Component clearance	+/- 100 mm	

\* Detailed information on request

\*\* Options may result in deviations



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