



## RELENTLESS ALL-TERRAIN DISPENSER

Precise, Fast, Adaptive & Versatile



# scorpion. solution.

## RELENTLESS ALL-TERRAIN DISPENSER

Introducing - The Scorpion - State of the art technology with a wide range of applications.



**INTEGRATION  
IN ANY LINE**

### dispense technology.

- Up to 4 valves simultaneously
- 5 different valves, large application range

### productivity.

- Up to 100'000 dots/h (with Piezo Jet Valve)
- High uptime with automated process control

### large dispense area.

- Up to 600 x 430 mm (23.6 x 16.9")
- Up to 80 mm (3.35") programmable Z stroke

### easy integration.

- Integrable in high speed lines from any vendor
- Dots, lines, curves and free form patterns

### laser height mapping.

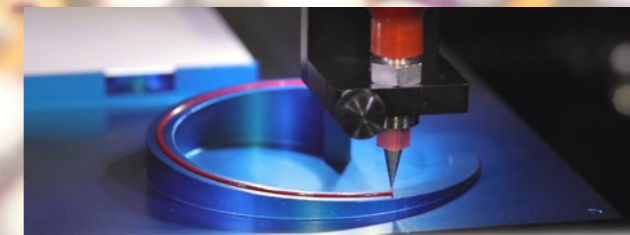
- Mapping of heights using laser technology
- Compensation for substrate warp / 3D contour

### ultra small fluid box.

- Expensive fluid waste is minimised with a fluid path of less than 70 micro liters



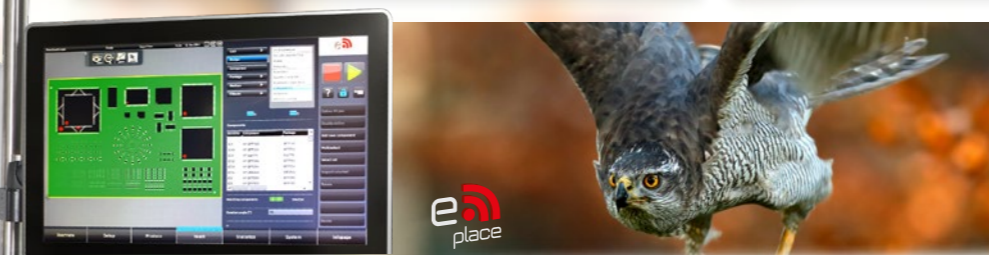
Wide range of dispensing applications such as Solder Paste and SMT Glue, LED Encapsulation, Silver Epoxy, Dam and Fill, Underfill, Cavity Fill, 3D Dispensing via laser height mapping and more



Full operator support - Automated error analysis & KPI. Training, support and troubleshooting via advanced remote access. Investment protection; all options and heads retrofittable.



Four processes at the same time. Plug and Play for valve change. Piezo Jet Valve - super high speed for low viscosity. Solder Jet, Volume Displacement, Time/Pressure, Archimedean Screw Valve



**MULTITALENT SOFTWARE AT YOUR FINGERTIPS** State of the art, full graphics, 21.5", 16:9 HD wide touch screen, fingertip operation, universal CAD conversion, Windows 10 - 64 bit, zoom at camera windows, all-in-one job planning, setup optimisation, easy definition of pattern and assistant process support

### optional.

Valves & Pumps

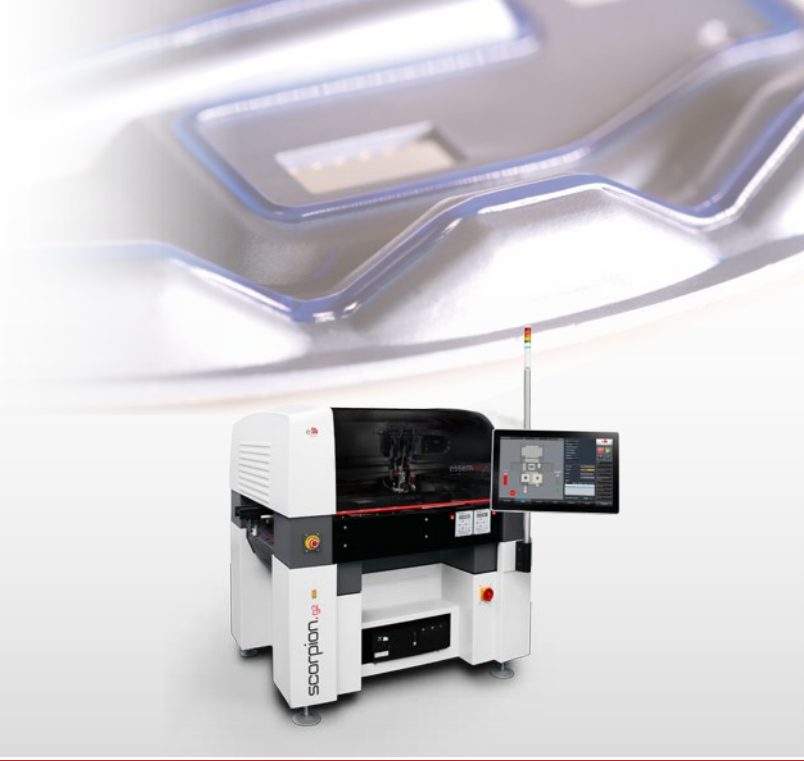
Media Heating Needle and jet heating system

Level Detection Automatic syringe level detection

Process Control Process control adjustment & stabilization

Vacuum Cleaning Station, High Precision Scale, Clean Room, Heating/Vacuum Table  
Full process control meeting automotive standards and more





## CHOOSE YOUR PREFERENCES

**essemtec.**  
naturally adaptive

### scorpion.

Process	Max. dispensing speed	Piezo Jet: 100'000 dots/h Pneumatic Jet: 60'000 dots/h	Time/Pressure: 20'000 dots/h Archimedean Screw: 20'000 dots/h
	Dispensing mode	Dot, line, curve, interpolated 3D contour	
Accuracy	Placement XY dots	51 µm (3σ)	
	Positioning Z axis	20 µm (3σ)	
PCB	PCB dimensions	20 x 20 mm up to 600 x 430 mm (0,8 x 0,8" up to 23.6 x 16.9")	
Dimensions	Machine footprint	1280 x 1420 mm (50.4 x 55.9")	



## FLEXIBLE SMT SOLUTIONS

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Wildlife consistently shows us with breathtaking flexibility how nature can adapt itself to the many different demands of its environment; that is what inspires us! Essemtec AG is a privately owned company with its development and production site in Switzerland. The product portfolio comprises of production equipment for electronic assembly and more. Our high tech solutions can be adjusted quickly and easily to meet wide ranging requirements; we are therefore able to respond to all manner of customer requests. That's why "naturally adaptive" is our motto across all ranges.

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