

DIAMOND

300/400/500

3-, 4- axis desktop or in-line dispensing system

- *Silicone for gasketing*
- *Brase-paste for hermetic sealing*
- *Epoxies for Glob topping*
- *UV-cure for bonding*
- *Solder paste for bonding*
- *PU for encapsulation*
- *And many more. . . .*



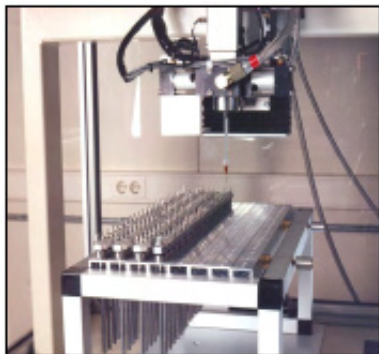
This range of high performance dispensing systems can be used as a desktop or in-line system. There are three different sizes of robots available, with 3-, or 4-motorised axis to enable fast and accurate dispensing on a wide variety of materials and product dimensions. Utilizing time/pressure or positive displacement dispense technology, the Diamond 300/400/500 produces extremely reliable and consistent results according to the highest Industrial standards.

MAIN FEATURES:

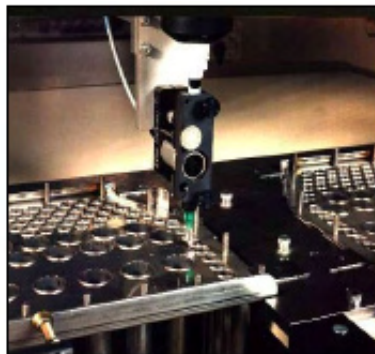
- Easy-to-operate with standard PC-software: point-point programming, entering of parameters.
- 3 or 4-axis simultaneous control with 3 dimensional linear and circular interpolation.
- Removable pendant for easy, direct programming and defining of dispense position.
- Automatic dispense needle-offset correction.
- Unique gantry style for in-line and desktop use.
- S-curve stop motion prevents axis shaking.
- XY-motors with high-resolution encoders. Closed loop XY.
- Time/pressure or positive displacement dispensing technology for dispensing of dots and beads.
- CE Approved

OPTIONS INCLUDE:

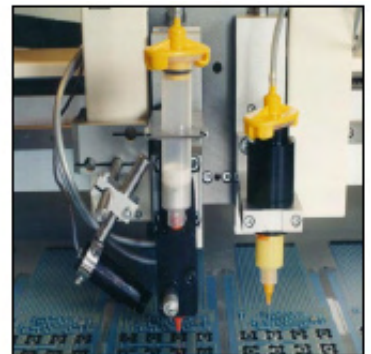
- Cover with door and safety switch.
- Customized product fixtures.



2-K epoxy for potting



Brase paste for sealing



Silver filled epoxy for bonding

SYSTEM SPECIFICATIONS:

Work area Diamond 300 (mm) 3-axis (degrees)	X / Y / Z	300 / 300 / 90
Work area Diamond 400 (mm) 3-axis (degrees)	X / Y / Z	400 / 300 / 90
Work area Diamond 500 (mm) 3-axis (degrees)	X / Y / Z	500 / 400 / 90
Work area Diamond 300 (mm) 4-axis (degrees)	X / Y / Z / R	300 / 300 / 60 R = 360
Work area Diamond 400 (mm) 4-axis (degrees)	X / Y / Z / R	400 / 300 / 60 R = 360
Work area Diamond 500 (mm) 4-axis (degrees)	X / Y / Z / R	500 / 400 / 60 R = 360
Maximum speed (mm)/Second	X Axis Y Axis Z Axis R Axis	750 750 150 450 degrees / second
Repeatability (Position Accuracy) (mm)	X Y Z Axes	Less than \pm (0.02)
Resolution Inches (mm)	X Y Axes	0.01
Resolution Inches (mm)	Z Axes	0.01
Operating environment temperature °F (°C)		32 – 104 °F (0-40° C)

CONTROL SPECIFICATIONS:

Drive System	Step motor drive with encoders (closed loop)
Movement Method	PTP, CP
Control Axis Count	3 - 4 axes simultaneous control
Speed Control	0.02" 500 mm/sec.
Interpolation Function	3-dimensional linear interpolation 3-dimensional circular interpolation
Programming	Via teaching pendant, manual dat input, Pc excel format downloading
Program Capacity	100 programs
Data Storage Capacity	100,000 points
Program Language	"C"-Language
Number of I/O points	IN 16 OUT 11 (IN 5 and OUT 7 are programmable)
Control unit	RS232C
Power Supply	AC85 – 264V 240VA

PHYSICAL CHARACTERISTICS:

Dimensions Diamond 300 H x W x D cm	70 x 49.2 x 59
Dimensions Diamond 400 H x W x D cm	70 x 59.2 x 59
Dimensions Diamond 500 H x W x D cm	70 x 69.2 x 69
Machine weight Kg	Diamond 300 45Kg Diamond 400 46Kg Diamond 500 47Kg



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