

DIAMOND 100

3-DIMENSIONAL COMPACT DESKTOP DISPENSING SYSTEM

- *Silicone for sealing*
- *Anaerobic for bonding*
- *Epoxies for Glob topping*
- *UV-cure for bonding*
- *Solderpaste for bonding*
- *Polyurethane for encapsulation*
- *And many more. . . .*



This space-saving desktop dispensing system is a powerful, high-performance machine with advanced robotic technologies packed into a super-compact frame. Utilizing time/pressure or positive displacement dispense technology, the Diamond 100 produces extremely reliable and consistent results according to the highest industrial standards.

MAIN FEATURES:

- Easy-to-operate with standard operations software (PC- Windows Based). No software programming required.
- 3 or 4-axis simultaneous control with 3 dimensional linear and circular interpolation. Large contour freedom.
- Removable pendant for easy and direct programming, point to point programming.
- Automatic dispense needle offset correction. Easy and quick needle exchange without costly production delays.
- Large work area (250 x 210 x 70 mm – XYZ).
- Time/pressure dispensing technology for dispensing of dots and beads.
- Positive displacement dispensing technology for dispensing dots.
- CE Approved.

OPTIONS INCLUDE:

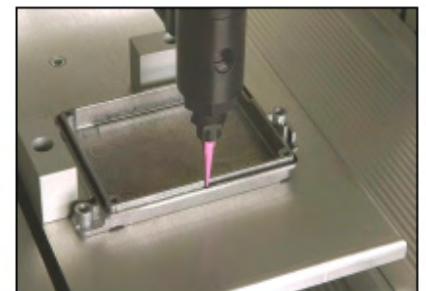
- Cover with door and safety switch.
- Camera and monitor integration.
- Customized product fixtures.



Anaerobic for bonding



UV-cure for bonding



Pre-applied gasketing

SYSTEM SPECIFICATIONS:

Motion range Inches (mm)	X Axis Y Axis Z Axis R Axis	9.8 (250) 8.3 (210) 2.8 (70) 360 °
Maximum Speed Inches (mm)/ Second	XY Axes Z Axis R Axis	11.8 (600) 3.9 (150) 550 °/sec
Repeatability (Position Accuracy) Inches (mm)	XY Axes Z Axis R Axis	Less than ± .0004 (0.01) Less than ± .0008 (0.02) Less than ± 0.1 °
Maximum Payload Lbs. (Kg)	Parts and Fixture Dispense Valve, Pick and Place, UV Fiber	11 (5) 4.4 (2)
Resolution Inches (mm)	XYZ Axes R Axis	.0006 (0.014) 0.1 °
Operating Environment Temperature F (Celcius)		32 – 104 °F (0 - 40°C)

CONTROL SPECIFICATIONS:

Drive System	Pulse motor (open loop control)
Movement Method	PTP, CP
Control Axis Count	4 axes simultaneous control
Speed Control Inches (mm)/sec	0.23-23.6 (6-600) /sec
Interpolation Function	3-dimensional linear interpolation 3-dimension circular interpolation
Programming	Via teaching pendant and standard PC (Windows based) software of off-line teaching
Program Capacity	Max. of 20 work programs for one operation program
Data Storage Capacity	2500 points
Assembly Control Language	Standard software supplied by dispensing memory card
Number of I/O points	22 points at each I/O (expandable to max. of 118 points)
CPU	AM486 DX2 (internally 50 MHz)
Serial/F	RS 232C multiple-use system
Power Supply	200~240V, 50/60Hz 1.1kVA

PHYSICAL CHARACTERISTICS:

Dimensions H x W x D Inches (mm)	21.6 x 12.6 x 11,8 (550 x 320 x 300)
Machine Weight Lbs (Kg)	30.8 (14)



Diamond 100 with PC program



Teaching Pendant



Separate Control Box



UNITEK EAPRO
Electronic Assembly Products

Schootense Dreef 21
P.O. box 164 • NL-5700 AD HELMOND
The Netherlands
TEL +31(0)492 542225 • FAX +31(0)492 536222
info@mue.miyachi.com • www.mue.miyachi.com