

The LC robots, whose features include extreme flexibility, absolute precision and operation repeatability, is the ultimate tool for cost effective automated dispensing of beads and point to point dispensing.

The LC robots operate based on a three-axis Cartesian system. The system consists of screw axes with high rigidity ball screw linear guides. The load-bearing structure entirely consists of aluminium profiles. The system is governed by encoder-driven bipolar stepper motors.

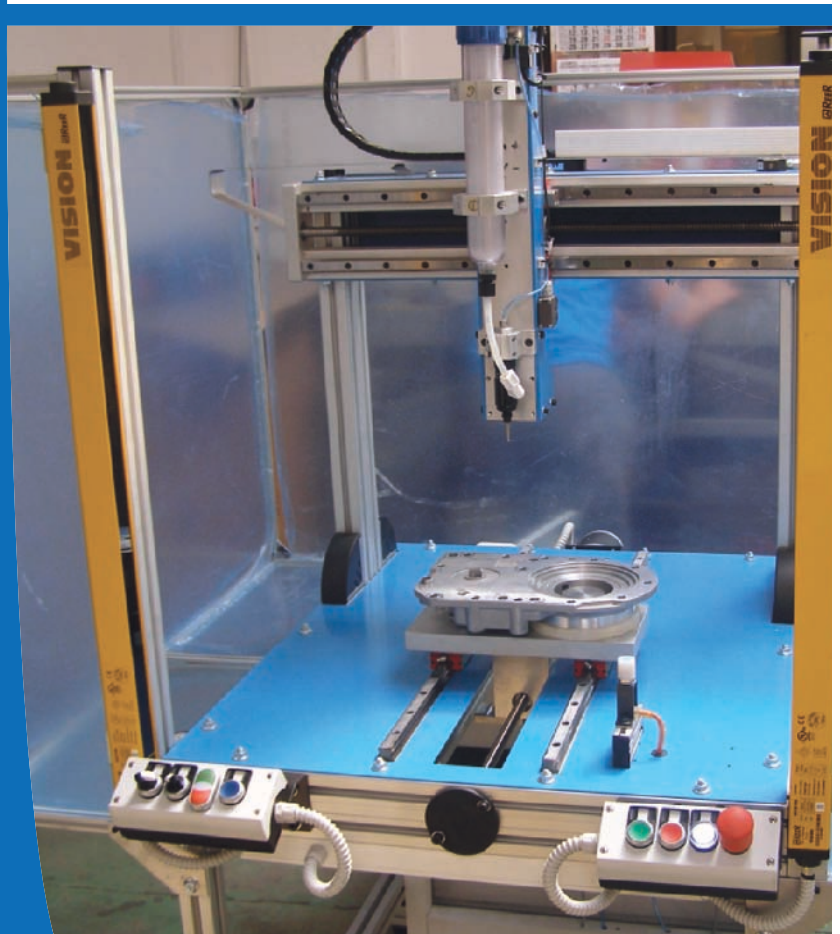
The machines are supplied with a PDA to control the main operating functions in the stand-alone mode. The fourth optional axis (Wrist) can rotate 360°.

Working phases can be programmed using powerful, PC-compatible proprietary software supplied with the machine. Thanks to the intuitive graphic interface, extremely complex operations can be carried out quickly and efficiently. Programs developed with this procedure will be stored in memory and loaded into the robot, where they can be retrieved by the operator using the PDA. Programming software compatible with Windows Operating Systems (Win 98/2000/ XP/NT)

Dispensing valves can be controlled via integral software.

Liquid Control Ltd is able to offer a complete resin processing and automatic dispensing system to comply fully with your needs. Ask for further details and demonstration availability.

XYZ Cartesian Robots



XYZ Cartesian Robots

Standard Features

- LC 500 and LC 300 are standard specification systems as detailed here, custom systems are also available, please ask for details.
- Full 3 screw ball axis system
- X-axis movement - 520 (320) mm
- Y-axis movement - 520 (320) mm
- Z-axis movement - 150 mm
- Repeatability $\pm 0.02\mu\text{m}$
- Minimum resolution - 6 μm
- Carry load,-work surface 12 Kg-instrument 5 Kg
- PTP speed 1-600mm/sec X,Y,Z
- Interpolation - 3D Linear on X,Y,X axys
- CP Speed - 1-600 mm/sec X,Y,X.
- Available I/O - 4 inputs – 10 outputs
- Programming – Remote mode (self-learning) through PC software, joystick and/or PDA.
- Profiles imported from dxf files
- Preset library – Points, lines, areas, arcs, Circles, conditional and relative lines
- On-board memory – 100,000 point; 255

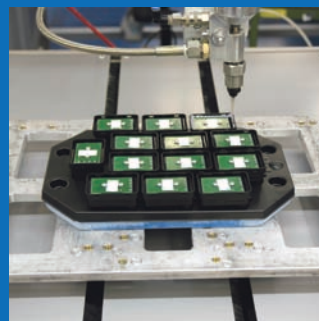
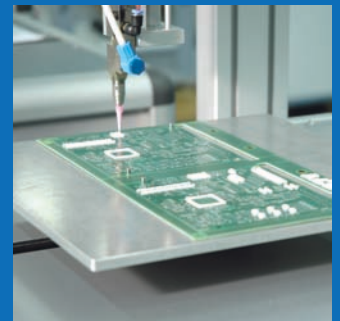
Programs

- Power supply – 110/230 Vac $\pm 10\%$, 50/60Hz-400VA
- Dimensions (length – width – height)
870 (620)mm 900 (700) mm 912 (912)mm
- Weight – 34 (25) Kg

Data between parentheses ref to the LC300 model.

Standard Options

- Mechanical safety barrier
- Optical safety barrier
- Height increased
- R- wrist axis 360°
- PTP speed degrees/sec R
- Interpolation- Circular Point on wrist
- I/O -16 in and 16 out



Liquid Control Limited

Stewarts Road, Finedon Road Industrial Estate
Wellingborough, Northants NN8 4RJ, England
Tel.: +44 (0) 1933 277571 - Fax: +44 (0) 1933 440273
www.liquidcontrol.co.uk

Products sold by Liquid Control Ltd are subject to ongoing development and improvement. The right is therefore to alter specifications without notice.