



CAMALOT 2800 SPECIFICATIONS

MECHANICAL

Dispense Area: Various options may reduce usable area.	
Consult factory for actual area.	
Max X	18" (450mm)
Max Y	18" (450mm)
Max Z travel	1.5" (38mm)
Resolution	0.0005" (12.7 microns)
Max X, Y axis speed	20 IPS (508mm PS)
Acoustic noise	68 DBA
Drive system tooth	Belt and DC servo-drive w/ closed-loop encoder feedback

CONVEYOR

Belt conveyor with manual adjustable width.	
Underboard clearance	1" (25mm)
Transport height	35" to 38" (889mm to 965mm) (SMEEMA)
Conveyor lift	3mm board clamp system with pneumatic support pins

DISPENSING

Dot placement accuracy	±0.004" @ 3 sigma (100 microns)
Dispensing method	Rotary or Time pressure valve
Dispensing rate	15,000 dots per hour *
Typical applications	Solder Paste, Surface Mount and Conductive Adhesives, and Gasketing, Solder mask

COMPUTER

Graphical User Interface icon based software, designed for dispensing applications (dot, line, arc, circle, round and square fill patterns).	
Computer	PC with VGA Color graphics and RS232
Program storage	Local hard drive; 1.44 MB 3.5" floppy disk

Program length	32,000 commands line per program or sub up to 200,000
Sub patterns	400 per program
Program method	Teach mode with trackball; download from CAD and/or all pick and place machines
Vision system	Auto Alignment Vision System (pattern recognition) Cognex Vision Processor

FACILITY REQUIREMENTS

Power requirements	110 Volts, 60 Hz, 10 Amps
International	220 Volts, 50/60 Hz, 10 Amps
Pneumatic requirements	Min 80 psi, 1 cfm, 5 Micron Filtered Air

MISCELLANEOUS

Complies with CE standards	
Color	Light gray frame; light gray panels
Weight (approx.)	760 lbs (227 kilos)
Size (W x D x H)	40" x 39.2" x 63" (1013mm x 996mm x 1598mm) includes light tower
Environmental conditions	Temperature: 66°F (19°C) to 90°F (32°C) Humidity: 30-70%
MTBF	2,000 hours
Parts and labor warranty for one year (see "Conditions of sale" for more detail).	
Documentation includes operation and maintenance manuals.	
Direct customer service phone line for technical and applications questions.	
* 0.100" (2.5mm) pitch, 0.020" (0.5mm) diameter dot. Specifications subject to change without notice.	

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C A M A L O T

2800 DISPENSING SYSTEM



COMPACT, MID-RANGE DISPENSER FOR
SURFACE MOUNT ELECTRONICS ASSEMBLY
OR INDUSTRIAL APPLICATIONS

COMPACT

One m² footprint

USER FRIENDLY

*Graphical User Interface
Automatic Vision Alignment*

**IN-LINE**

*Compatible with low- to
mid-range assembly equipment*

FLEXIBLE

*Wide range of
dispensing options*

CAMALOT 2800 Dispensing System for In-Line Applications

CAMALOT 2800 system is a flexible, mid-range liquid dispensing system for in-line applications in surface mount electronics or industrial assembly in low-to-medium production. Dispense area is 18" x 18" (450mm x 450mm). For electronics assembly, the 2800 is compatible with automated placement machines that place up to 15,000 components per hour. System dispenses up to 15,000 dots per hour of surface mount adhesive or solder paste. The system also dispenses solder mask from a pressure pot or syringe. The 2800 system is also ideal for industrial and automotive applications, such as gasket material, adhesives and industrial epoxies.

FEATURES

- > Field-proven rotary pump technology for repeatability and easy maintenance.
- > Compatible with 642 dual-nozzle rotary pump to dispense two materials simultaneously.
- > Bulk feeding or syringe dispensing.
- > Automatic vision system for precise product alignment.
- > Reliable gantry system with ± 0.004 " (± 100 microns) dot placement accuracy @ 3 Sigma.
- > Ergonomic design with built-in LCD flat panel color display with slide-away keyboard and trackball.
- > Windows®-style operating system for user-friendly software interface.
- > Acrylic hood for environmental control and operator safety.
- > Front service access for easy maintenance.
- > Manually adjustable SMEMA conveyor.

These systems are built on a robust platform and may be configured with a variety of options to meet your specific application.

ROBUST, RELIABLE CONSTRUCTION

- > Welded steel frame for exceptional rigidity.
- > Optional pressure tanks accommodate larger quantities of liquids up to 10 gallons (40 liters).

REDUCES COSTS

- > Compact footprint of one square meter saves valuable floor space.
- > Robust construction provides long service life with low maintenance costs.

GLOBAL COMPATIBILITY

CE compatible

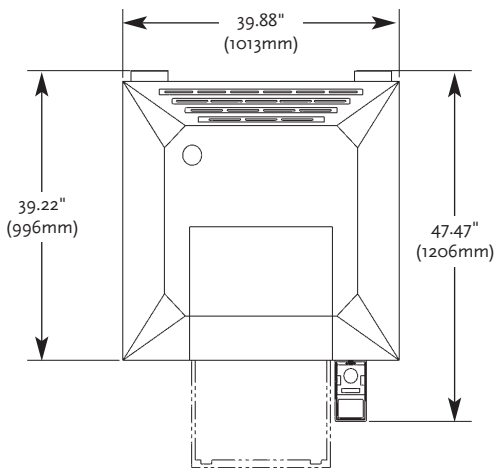
TYPICAL APPLICATIONS

Surface mount adhesives, solder paste, solder mask or conductive adhesives.

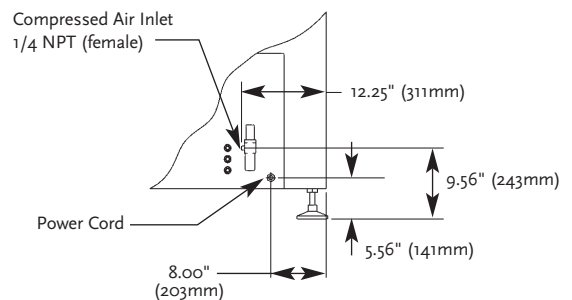
Windows is a registered trademark of Microsoft Corporation.

2800 System Dimensions

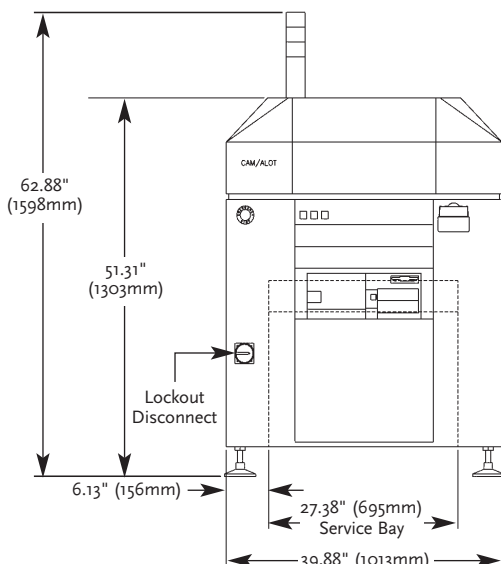
TOP VIEW



VIEW A-A



FRONT VIEW



SIDE VIEW

