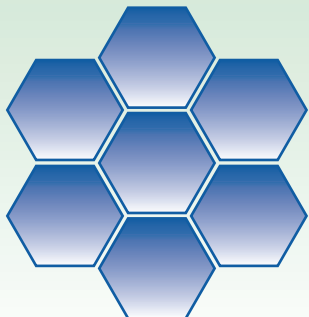


# Batch System



The CHAMPION 6809 is a servo driven, automatic dispensing system designed for precision processes. The system can be configured to match exacting application requirements from dots to under fill with a broad array of options.

Creative Automation Company's Digital Deposition process achieves the highest levels of accuracy, speed and repeatability available today. A single Creative Automation True Volume™ Pump is capable of firing up to 90,000 precision deposits per hour to form high definition dots, lines, fills and builds - precisely shaped by true piston positive displacement. Volumetric accuracy is ensured regardless of deposit size, viscosity or temperature.

## Features

**Powerful, easy-to-use proprietary software.** The graphics user interface allows intuitive programming and control. The system includes a large, bright, high contrast color LCD display.

# Champion 6809

## Digital Deposition System

## Unparalleled Dispensing Accuracy...

**Precision.** For positive displacement deposition of dots, beads or fills with unsurpassed accuracy and precision, nothing compares to the Champion 6809. Single shot deposits below 0.5 nanoliters. Accuracy is measured to 1.76% 3 sigma.

**Versatility.** From dots to lines, underfill and encapsulation, Digital Deposition and the Champion 6809 deliver the accuracy and repeatability demanded by today's exacting applications.

## Options

**Camera and Vision.** A closed circuit camera with picture-in-picture display on the monitor, for easy programming and inspection. The Automatic Vision Correction System establishes the X, Y and Ø orientation of the part and compensates for stretch, skew and misalignment.

**Height Sensing.** Both contact probe and non-contact laser are available for height sensing and height mapping.

## Standard Features

- 3-Axis Brushless servo motor drives
- X & Y Axes Linear Encoders  
Z Axes Rotary Encoder
- Powerful, easy-to-use Windows style software
- LCD Display
- Rugged Construction and Quiet operation
- Small Footprint
- Full 1-year warranty

## Optional Features

- Vision system with camera image on LCD display
- Auto vision alignment and dot verification
- Programmable lighting
- Auto height mapping
- Auto tip calibration
- CAD import with path optimization
- True Volume™ pump - dots to below 0.5 nanoliters (0.0000005µl)
- Contact or non-contact (Laser) height mapping
- Substrate, needle and material heaters

# Champion 6809

## Digital Deposition System

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### System Specifications

#### Features

Travel Range:	<input type="checkbox"/> X-Axis 9.8" (248.9 mm)
	<input type="checkbox"/> Y-Axis 12" (304.8 mm)
	<input type="checkbox"/> Z-Axis 1" (25.4 mm)
Dispense Area:	<input type="checkbox"/> 5.5" x 12" (139.7 mm x 304.8 mm)
Resolution:	<input type="checkbox"/> +/- 0.00008" (2µm) All Axis
	<input type="checkbox"/>
Repeatability:	<input type="checkbox"/> +/- 0.00008" (2µm) All Axis
Positioning Accuracy:	<input type="checkbox"/> +/- 0.0002" (+/- 5µm)
Linear Speed:	<input type="checkbox"/> up to 20"/sec (508 mm/s)

Specifications subject to change without notice

#### Operational

Control:	<input type="checkbox"/> Industry standard computer with Super VGA Color LCD Display
	<input type="checkbox"/>
Programming:	<input type="checkbox"/> PowerPath™ Software with
	<input type="checkbox"/> - Teach Mode
	<input type="checkbox"/> - Off-Line Programming
	<input type="checkbox"/> - CAD Import
	<input type="checkbox"/> - Unlimited Subroutine Nesting
	<input type="checkbox"/> - Direct Subroutine Access
	<input type="checkbox"/> - 5 level password protection
	<input type="checkbox"/> - Operator and supervisory screen
	<input type="checkbox"/> - Global and local pattern libraries
	<input type="checkbox"/> - Execute-as-you-edit Mode
User Interface:	<input type="checkbox"/> Windows style with keyboard and trackball operation
	<input type="checkbox"/>
Data Storage:	<input type="checkbox"/> Hard Disk/3.5" Diskette Drive
	<input type="checkbox"/>
Power:	<input type="checkbox"/> 120 VAC, 60 Hz
	<input type="checkbox"/> 230 VAC, 50 Hz
	<input type="checkbox"/> 600 Watts
Pneumatic:	<input type="checkbox"/> 75 psi, 1 cfm (5 bar, 4 l/min)
Physical Dimensions:	<input type="checkbox"/> 35"W x 79"D x 64"H
	<input type="checkbox"/> (89 cm x 201 cm x 163 cm)
Weight:	<input type="checkbox"/> 1800 lb. (816.5 kg)

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#### Options

##### Configuration

Independently controlled multiple dispense heads  
Needle and material heaters  
Complete selection of standard and special tips  
Automatic needle calibration  
Low Level Syringe Sensor  
Height Mapping  
Non-contact High Speed Laser Height Sensor  
Contact 1-gram Mechanical Height Sensor

##### Vision System

Fiducial Alignment  
Skew Correction  
Stretch Correction  
High Magnification Vision System  
Dot Verification

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### Innovative Solutions Since 1968

For over 35 years, Creative Automation Company has provided customers with automated manufacturing solutions. The company has set the industry standard in dispensing with over 19 patents, developing innovative concepts based on proven, leading edge technologies.

**Call 800-688-6220**

### ***Creative Automation Company***

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