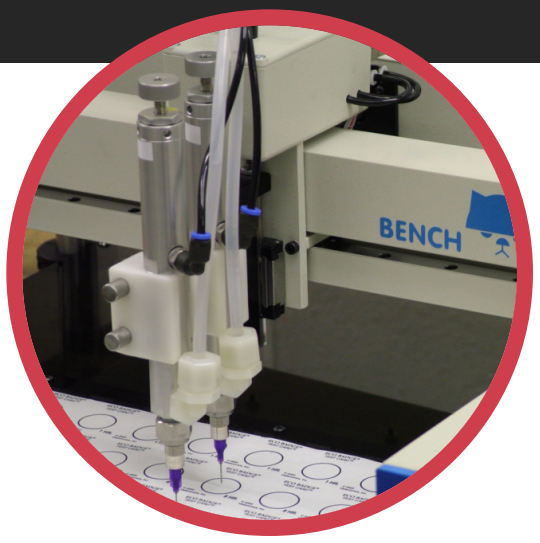
The BenchCat Advantage

"The World's Easiest to Use Dispenser"



A Better Choice...

The Bench Cat is designed for automatically dispensing a variety of materials including adhesives, pastes, epoxies, sealants, etc. No PC is required for operation. These units are quickly becoming the "operator's choice" with features previously found only in more expensive equipment.

Meet the Bench Cat

Finally a robotic dispenser that offers performance, ease of use and affordability. Designed to automatically dispense, spray and fill virtually any fluid from most valves and pumps. Even your existing handheld systems are easily added with the included universal valve / syringe mount.

A Logical Design

The Bench Cat's clever overhead gantry design means your product remains stationary (very important) while the valve moves from overhead dispensing the media. This also results in less complicated fixturing and provides easy loading from top, front or sides. The removable pallet base streamlines tooling change over if required. Furthermore, the entire system may be mounted over existing equipment such as a conveyor.

On Board Valve Controller

Digital real time control of syringes & valves accurate to micro seconds. No external control box is required.

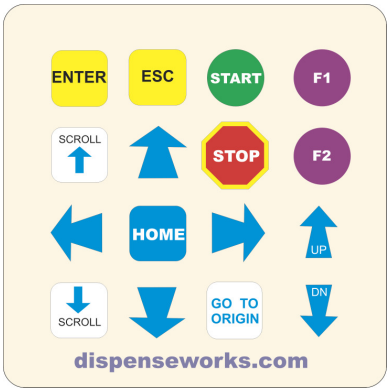
More Features

Onboard inputs & outputs are included for handshaking with other equipment or integrating components such as vacuum, clamps, shuttles, etc. Our limitless customizing capabilities include libraries of standard proven components from stock for total turnkey production.

Easy To Operate

The pre-programmed control system redefines the terms simple, easy and operator friendly. You will be dispensing in 2-D or 3-D within minutes using just a few simple 2 letter commands. Not simple enough? An on-board Jog & Teach function lets you define the dispensing path by jogging the dispenser with no programming or code entry involved. An optional Windows software package allows you to draw the dispensing path in any popular CAD software and it coverts it to motion.

Now that's simple. That's the BenchCat



Simple Operator Touchpad

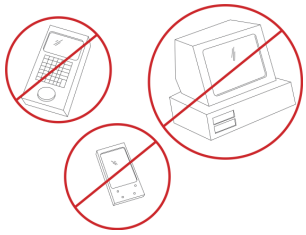
The 16 key touchpad provides the intuitive operator interface along with one touch functions for easy operation.

Bright LCD Display

Shows real time machine status and includes batch counter, cycle timer, % of completion & hundreds of other functions.

Embedded Control System

With built-in digital valve controller. No bulky PC, expensive handheld or fussy pendant is required for setup or operation.



Unlimited Program Size and Storage

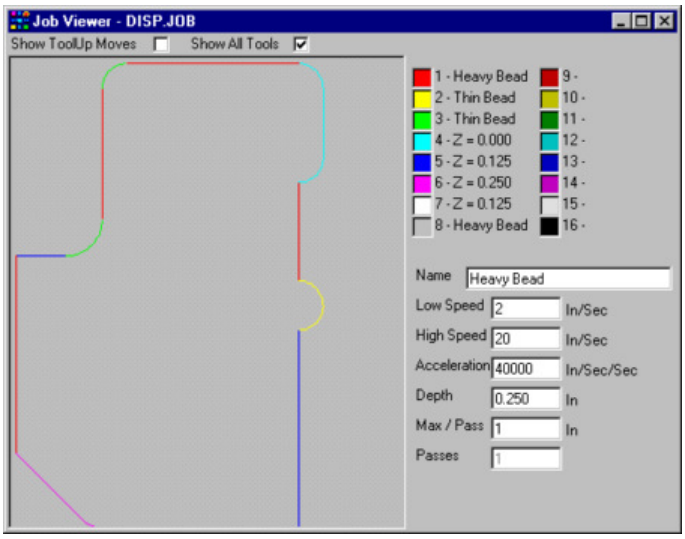
The included Compact Flash Card stores all job files, setup parameters etc. File size and storage is limited only by its capacity. No processor / memory limits to number of lines.

Quick Release Removable Base Plate

Ideal for dispensing on trays, pallets or conveyorized applications. No mechanics or electronics are located under the base. This eliminates potential damage due to spills. Furthermore, this design provides obvious limitless customizing capability.

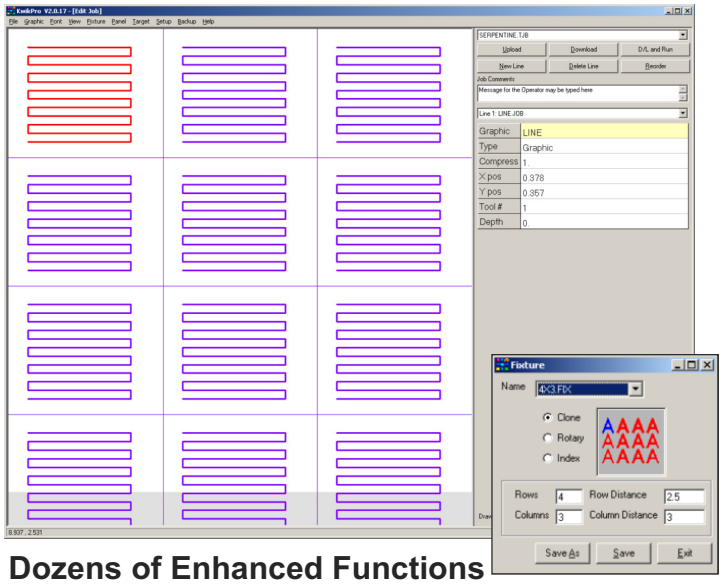
Centered and Balanced Design

The positioning mechanism boasts pre-loaded leadscrews and precision ball slides in each axis. The clever H-Frame assures consistent support and stability over the entire 14" x 10" dispense area.



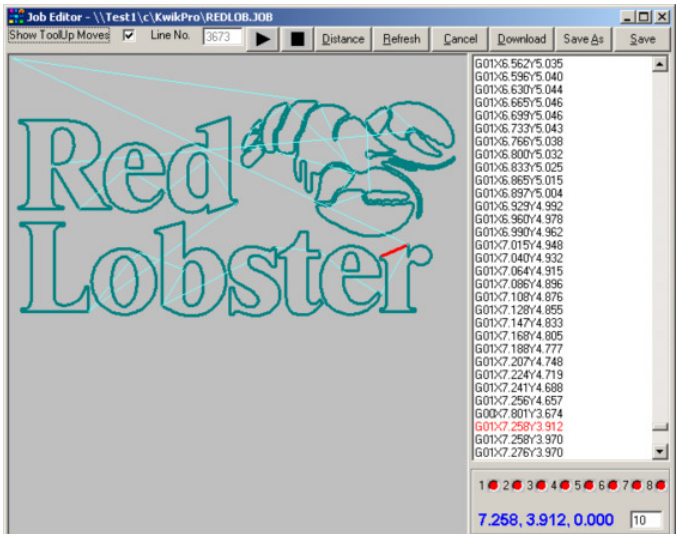
Control Path by Color

Full layer and color support for effortless setup and control requiring no programming experience.



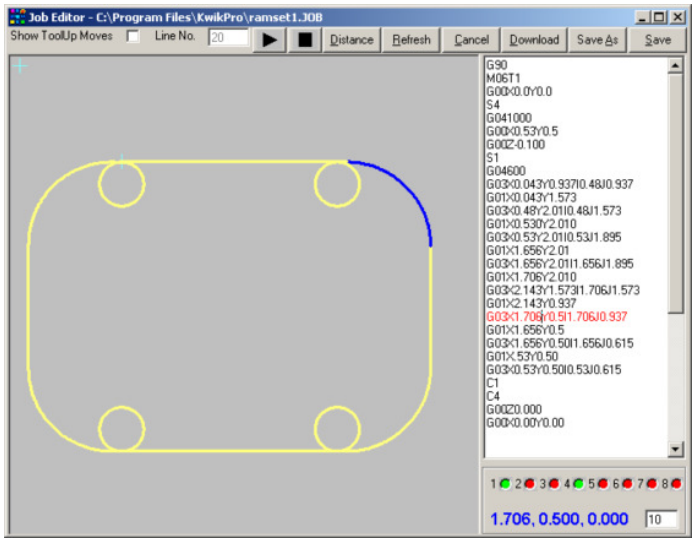
Dozens of Enhanced Functions

Cloning is one of the many time saving and machine streamlining features that are included in the Dispense Works control package.



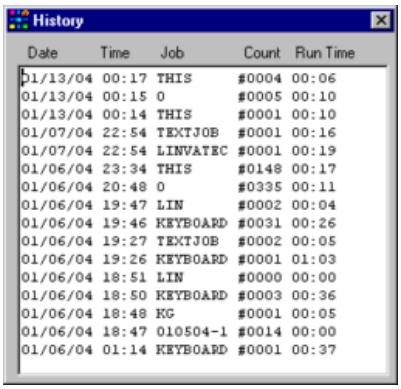
View Edit and Simulate

Create and import the path in your CAD or graphics software. Supports DXF, PLT, GERBER, HPGL and G-CODE files. Includes optimizing to minimize random motion and full path editing capability.



Jog & Teach Path w/3-D

If a PC is connected, the Jog & Teach routine "draws" the path on the screen in real time during the process. This becomes a legitimate path file which may be saved and edited.

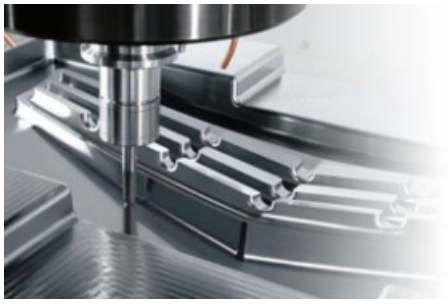


Detailed History Function

A convenient history function displays detailed production information at the touch of a button.

Benchcat Machine Specifications

Travel X Axis:	14 inch
Travel Y Axis:	10 inch
Travel Z Axis:	1.5 inch
Axis Drive:	Pre-loaded leadscrews (all axes)
Max Speed:	6 inch per Second
Acceleration:	User selectable up to 2g
Resolutuion:	0.0005"
Repeatability:	+/- 0.001"
Digital Timers:	0.001 Second Resolution
Early Shutoff Resolution:	In Motion Steps
Contouring:	3-D (4th axis optional)
Motors:	DC Brushless
Weight:	100 lbs
Program Storage:	Limitless; CF Card capacity
Program Size:	Limitless; CF Card capacity
Processor:	Dual memory embedded
On board I/O	4 inputs / 9 outputs
Digital I/O Expansion :	up to: 20 Inputs / 20 Outputs
Other Optional I/O:	Analog, Frequency, Binary, ASCI
Algorithms:	Look Ahead Technology
Coordinated Motion:	Vector Velocity Control (tip speed)
Valve Control:	Real Time, Built-In
Input Trigger Control:	At "Each Motion Step" Capable
Units:	IN, MM, CM, DM, FT, {any}
Units Format:	0.000, 0.0000, 0.00000 selectable
Patterns:	Limitless Geometry
File Imports:	DXF PLT G-CODE HPGL GERBER
Tool Path:	Full Optimization
Built-in Routines:	Dots, Lines, Fills, Serpentine, etc
Tooling Mount:	Pallet type; Dovetail valve mount
Tooling Function:	Static; Only valve moves overhead
Controls:	Side panel touchpad & LCD
Power Specs:	115vac; 6 amp - 80psi pneumatic
Options:	Limitless; Contact Factory



If you require robotic fluid dispensing, chances are we have already done it!

Who We Are – What We Can Do For You

We are a self-sufficient, full service manufacturer of robotic dispensing & assembly automation with a strong, proven track record in custom solutions. We ship hundreds of systems worldwide.

Our Products are 100% designed and manufactured at our facility. All sub-systems for motion control, vision software including the machine firmware and our Windows Software Suite are developed and maintained in-house.

All machine parts are manufactured on our modern state of the art CNC equipment, to the industries highest standards then assembled and tested at our facility. Over 25,000 sq. ft. is dedicated to research, development and high tech assembly.

815-363-3524 **www.benchcat.com**