



**Kwik Mark Inc**

# **EZ-64**

**ROBOTIC DISPENSING SYSTEM**  
With Built-In DIGITAL VALVE CONTROLLER



# The Smart Way to Dispense



Electronic Fixturing allows step & repeat production in an unlimited array of rows & columns. Mix & match the fixture files with the dispensing files!

## Simple and Powerful

The EZ Robot will automate that tedious manual dispensing operation with a streamlined, fast and fully automatic process that you will be proud to bring to your production floor.

The system is designed to automatically dispense a variety of materials including adhesives, pastes, grease, sealant, epoxies, etc. from virtually any type of valve or syringe.

The EZ is self contained in a truly compact space saving desktop package.

*Built-in Digital Valve Control*

With Early Shut-Off and Digital Timers

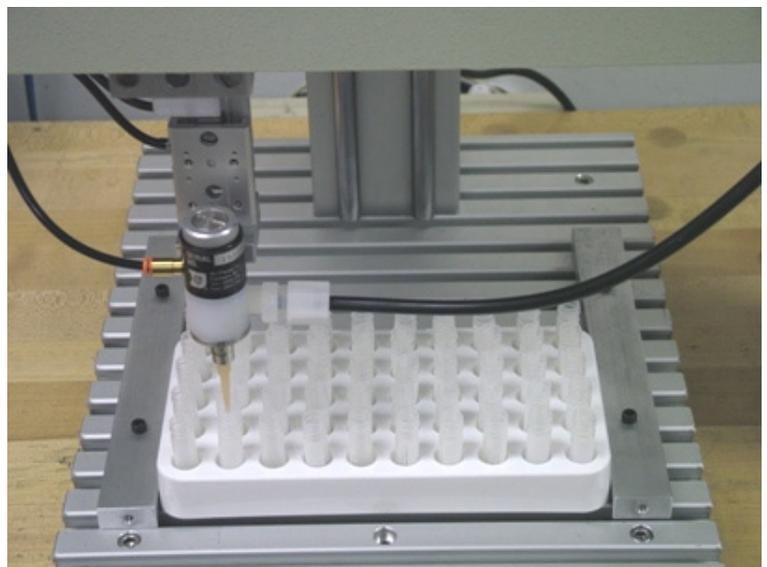
## Super Speed Technology

### A Logical Design

The system features a unique built-in high speed X-Y-Z slide system which moves and positions the dispense head over your product following any path. **This means your parts remain stationary.**

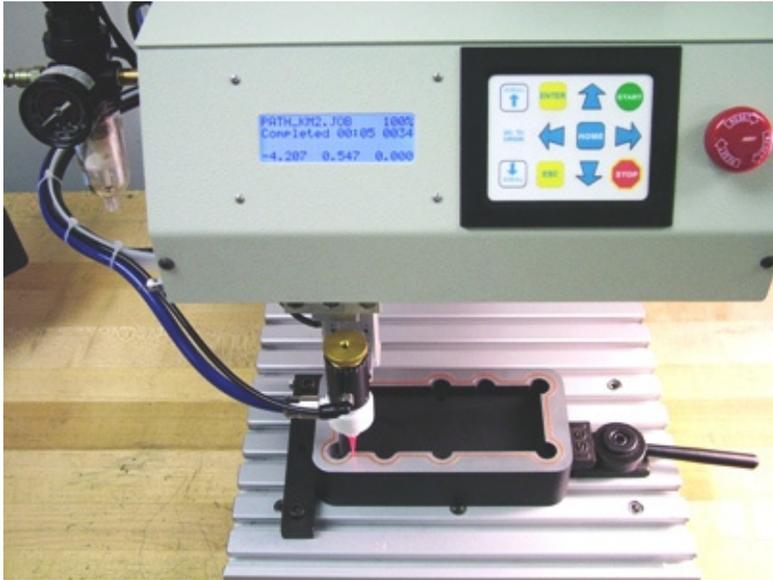
Because your parts do not move, extremely fast machine cycles are possible without disrupting the dispensed fluid. Thus fixturing becomes simpler and your parts may be automatically indexed or conveyed into position. Ideal for new or existing automation applications

A universal mount and **quick connect** for any valve, syringe, or nozzle to suit virtually any application.



A generous 6" x 4" x 12" height work area in a truly compact bench top package. No PC is required for operation or programming!

# It Just Can't Be Any Simpler



Smooth & Fast Continuous contouring motion paths with "look ahead" technology and Vector Velocity control

## The Operator's Choice

The embedded real-time controller with dual memory can store thousands of dispensing paths limited only by the size of the included **Compact Flash Card**.

Dozens of enhanced features are included along with on-board file management.

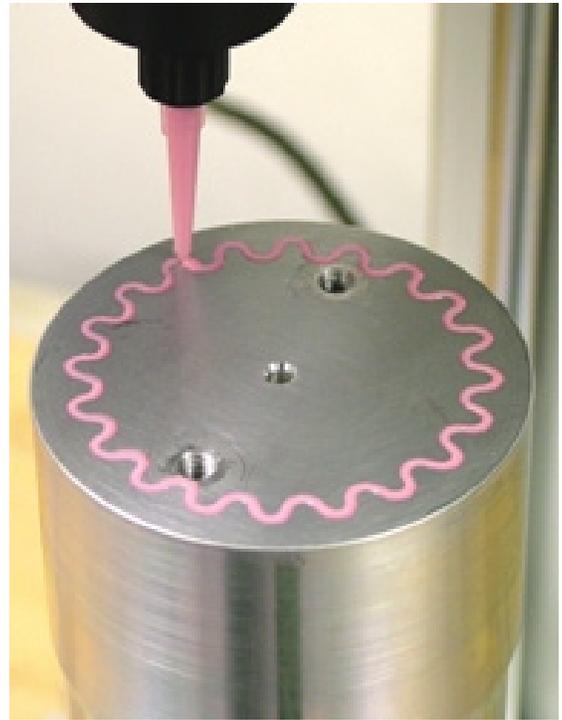
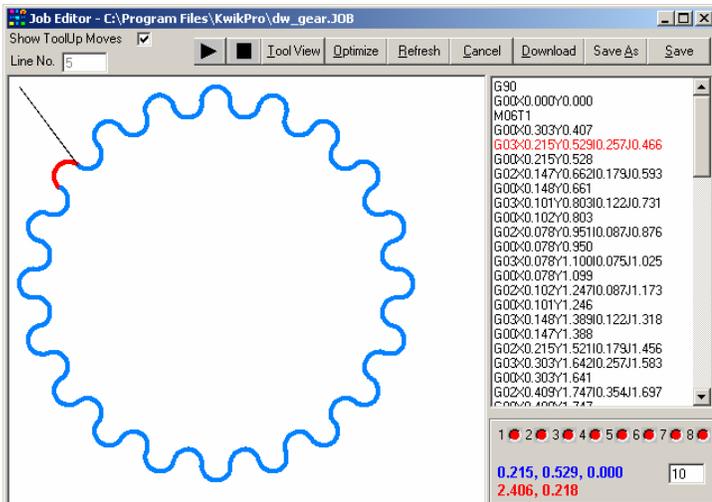
An intuitive touchpad and bright LCD screen display cycle time, batch count, % of completion and dozens of other real time machine status updates to the operator at all times.

These units are quickly becoming the operator's choice with a rich list of features that outdistance the competition at any price point!



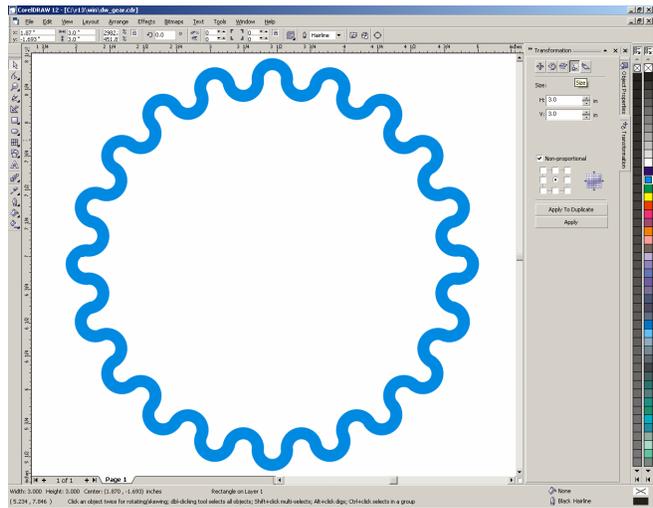
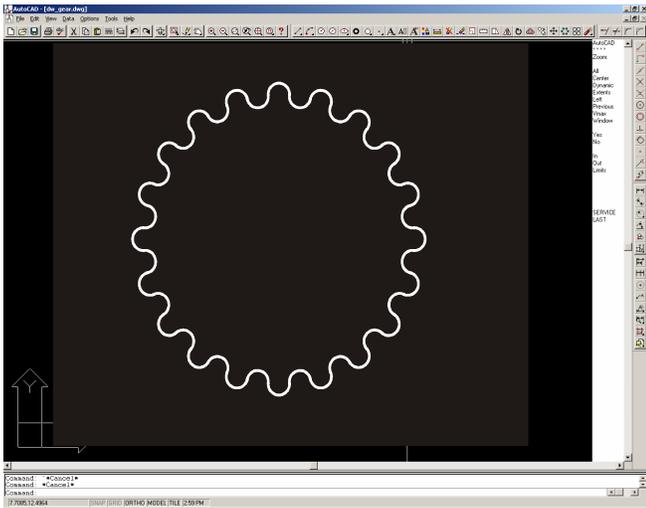
## Unlimited Program Size and Storage

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

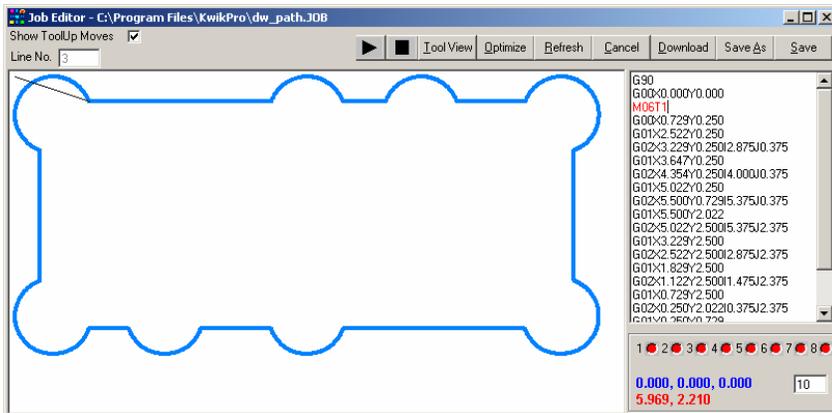
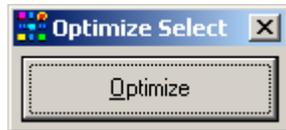
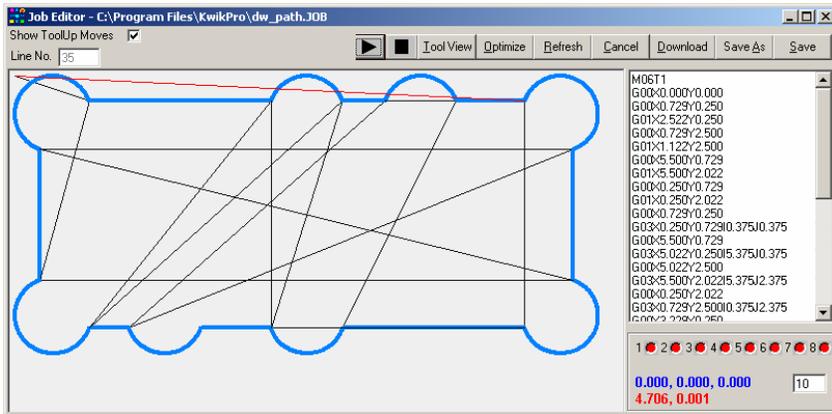


Beautiful, consistent beads regardless of the path geometry. Early shut-off and digital timer close path with minimal "blob"

# Easy Setup and Motion Optimization



Import images from hundreds of available CAD and even low cost graphics software packages to define your dispensing path. The machine automatically controls the rest. Just like a printer. It really is that simple!



## BEFORE

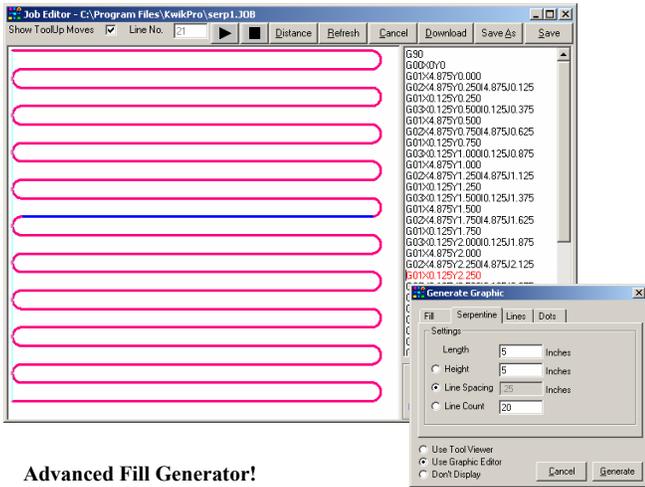
A Raw DXF or PLT file exported from AutoCAD. Excessive and random moves render it useless for a dispensing application.



## AFTER

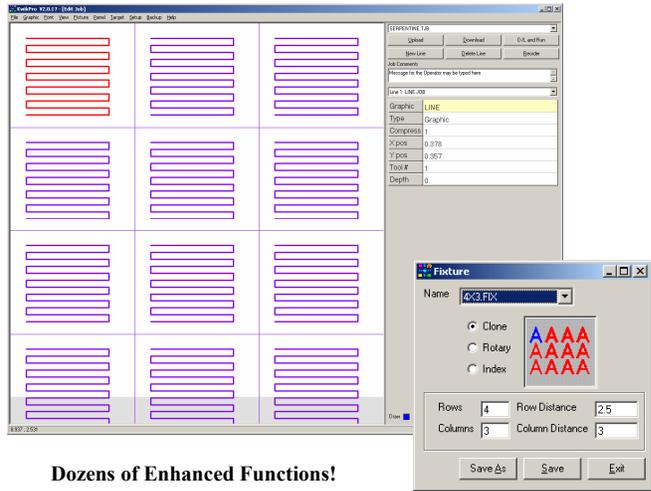
The new streamlined path is now optimized and continuous with only one up & down move. Cycle time and program length are greatly decreased.

# Optional Windows Software Suite Features



### Advanced Fill Generator!

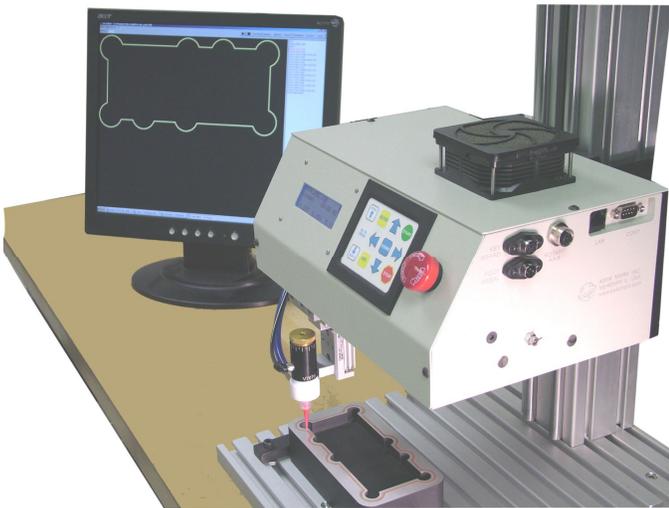
Choose from serpentine, line, or other fill patterns, including dots, to create a motion path for potting, damming, filling, spraying



### 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.

## Tooling & Fixturing Available

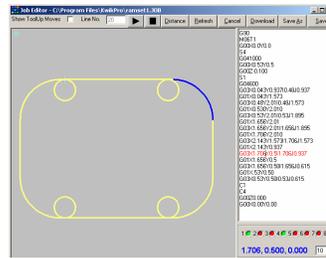


### Ethernet Connectivity

Each system features a LAN connection to plug into your network for fast and convenient upload / download and machine control functions. Dozens of utilities are included to manage files, produce reports, modify programs, etc.

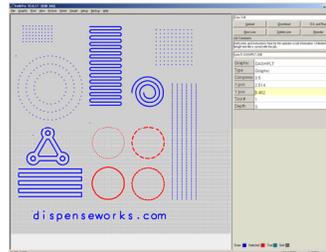
### Bar Code & RF Scanner Input

A standard bar code or RF scanner may be used to select which pattern to run from a pallet label, sensor or work order.



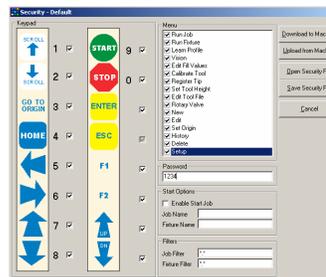
### Jog & Teach Path w/ Viewer!

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.



### Preset Dots, Fills etc!

Combine several paths at multiple levels. Import CAD files or use the on-board pattern generator to create dots, lines, serpentine fills, etc. Even a font generator is included



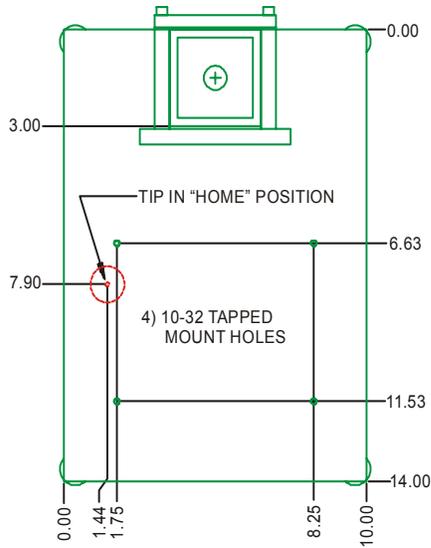
### Security Password Protection!

Full security control to any level of menu and keypad functions for any production environment.



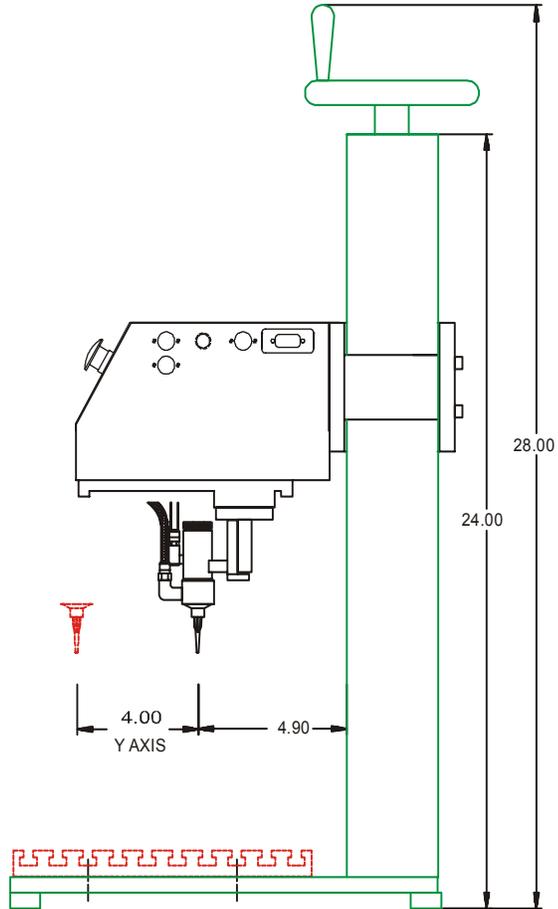
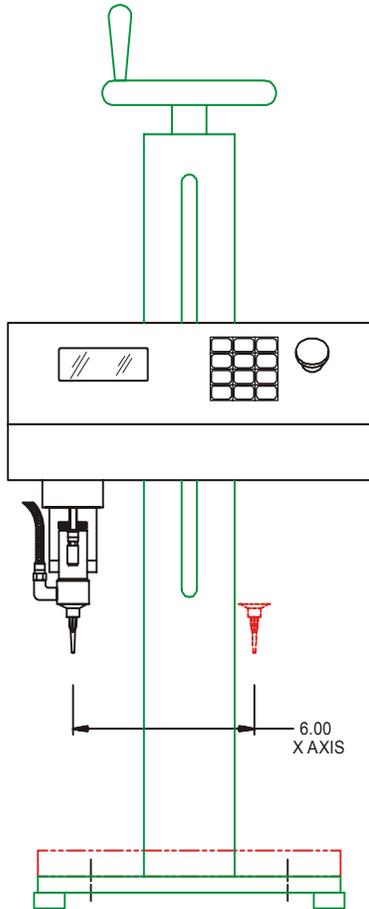
### Detailed History Function

A convenient history display shows detailed production information in a "spread sheet" format at the touch of a button. This may be printed or pasted into a production report.

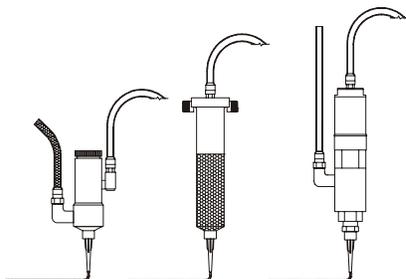


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System Dimensions Shown  
With Diaphragm Valve



Shown With Optional T-Slot Base Plate



With the optional heavy duty adjustable base/column, the EZ system provides an efficient manual work cell as well as a self contained station positioned over a conveyor or index dial. Network & RS-232 connections included.

It's embedded dual memory processor controls virtually any type of dispense valve or syringe available today.  
No external controller or PC is required!

### Control Specifications

membrane touchpad interface  
bright 4 line LCD display  
Compact Flash Card file storage  
embedded controls; No PC required  
one button homing and origin routines  
look ahead motion technology  
vector velocity control  
time touch sensitive jogging keys  
no pendants or handhelds required  
PS2 detachable keyboard (included)  
detachable footpedal option  
detailed 240 page operations manual  
dual speeds for cylindrical work  
constant surface speed on cylinders  
resetable origin with display

### Dispensing Features

quick job setup  
jog & teach function  
converts 'taught' programs to G Code  
sub routines  
digital valve control  
font filling ability  
global timer  
multi level dispensing  
dots  
dam & fill  
6" x 4" x 12" XYZ work area  
optional programmable Z axis  
pre tapped mounting on base  
quick air and fluid line disconnects

### Perfect For:

- **Dispensing**
- **Filling**
- **Spraying**
- **Potting**
- **Sealing**
- **Assembling**
- **Positioning**
- **Custom Applications**

The EZ-64 Dispensing system and associated software / firmware is the property of Kwik Mark Inc. For the purpose of improving this or any of our products, any of these specifications are subject to change without notice. **R-1001**

### Enhanced Features

coordinated motion control  
step & repeat (clone) function  
pause & resume  
last file recall  
user definable function keys  
outline routine defines work area  
file editing / deleting  
external I/O control  
pre-job / post-job commands  
real time job info display  
real time fixture info display  
rotary axis support & creation  
index axis support  
Z axis support  
coordinate translation

### Display Functions

batch counter  
cycle timer  
percent of completion display  
x-y-z position readout  
history display  
files and fixtures in memory  
machine status display  
time & date  
on board diagnostics  
LAN & Rs-232 communications  
advanced teaching commands  
back up capability  
distance from home & origin positions  
fault indication

### Windows Utility Functions

visual job viewer  
Windows setup utility  
manual I/O control  
speed settings  
motion parameters  
time / date download  
rs-232 communications

### Optional Software Suite

dynamic job editing and animation  
.DXF & .PLT & G code import function  
reordering of path lines  
job comments text box  
supports optional vision system  
selectable toolpath view  
definable grid line display  
.DXF & .HPGL & G-code file viewer  
background image scan for layout  
imports 7 types of background files  
background image scale control  
background image positioning  
background image contrast control  
function key incrementing  
setup utility  
full color image control  
detailed history display  
cloning (step & repeat)  
one button backup  
visual layout of cylindrical objects  
visual layout of multi sided objects  
upload / download files



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