

QUEST

Family of Engravers

1824/2448

- **Fast**
- **Reliable**
- **Accurate**
- **Profitable**
- **Affordable**



Our Pursuit of Perfection

2011

www.q1engravers.com

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Do you need an engraver that satisfies more of your needs? Are your future needs more demanding than your present? Are you afraid to tackle big jobs? Are you looking for an engraver that's built to last, simple to use, yet armed with a powerful array of features? Luckily you found Q1E's Quest 1824 & 2448 Engraver.

As you see the Quest in action, notice how quiet it is...quality components. Notice how easy it is to use...designed by an engraver. Notice its simple and efficient, design...smart engineering. Notice the attention to detail...pride in workmanship. Now notice how it eats through the most demanding job without even flinching...aren't they all suppose to?

It's an engraver with our Pursuit to Perfection. Welcome to our Quest Engraver.

ENGRAVER SPECIFICATIONS

Engraving Area: 18" x 24" / 24" x 48"

Table Size: 26.50" x 26" / 56"

Overall Physical Dimensions: 32" x 27"/57" x 18"

Shipping Weight (in crate w/ controller): 250/400#

Shipping Dimensions (in crate): 38" x 33"/63" x 26"

Table Type: T-Slot, Stationary (oversized)

Clearance: Vertical - 2", Gantry - 26.62"

Limit Switches: X,Y & Z Home, X & Y Max Limit

Z-Axis: Dual LM Precision Rails

Z-Axis Optical Sensor: Material sense feature with manual, semi or full auto run

Spindle: Belt-Driven 30mm Quill, 1/4" x 6-1/2" Top Loading (11/64" & Collet optional)

LM Precision Rails & Ballscrews (X & Y)

Stepper Motors: - (X,Y, & Z) High Torque Hybrid
- Belt & Pulley Power Transmission

Table Characteristics:

1" Thick Anodized Cast Aluminum, 1/4" Wide T-slots, Table Scales X & Y, 4 Clamp assemblies & T-wrench

Electrical: 110 VAC @ 10 amps

Language: HPGL

Usable Software Inputs: (Current List)

CadLink - Q1 EngraveLab (*Recommended*)

PlotAll, Type3, GravoStyle 98

Scanvec - FlexiSign, Inspire, CASmate, EnRoute

Quality ME3-PC

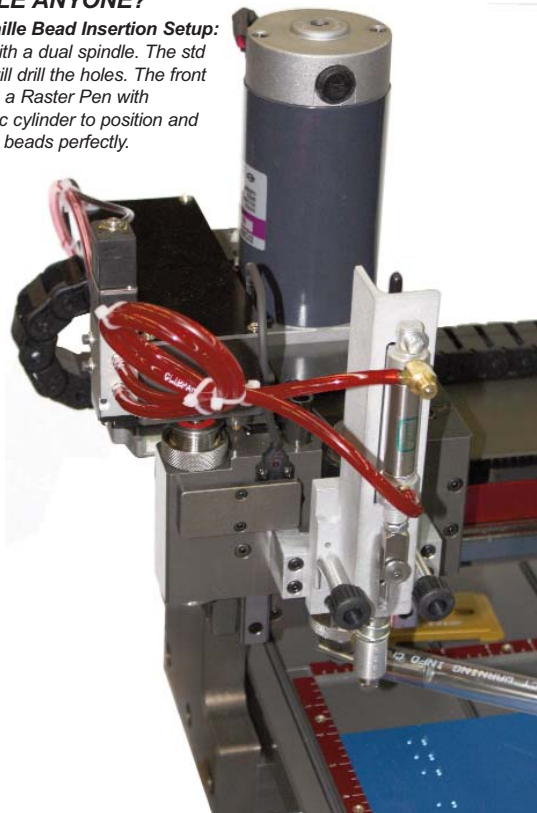
* CoreIDRAW via PlotAll or EngraveLab

* H-Square D14 (* requires EngraveLab)

~ More in the works ~

BRILLE ANYONE?

Auto Braille Bead Insertion Setup:
Shown with a dual spindle. The std spindle will drill the holes. The front spindle is a Raster Pen with pneumatic cylinder to position and insert the beads perfectly.



When finishing best, counts!

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Q3D Controller Features



The LCD Pendant provides control over spindle movement and switched outlets. Plus engraving parameters and table configuration all right at your finger tips in real units.

The Q3D Controller packs all the power and control your engraver needs. At only 4.5" high and takes up less than 1 square foot of space.



PENDANT SPECIFICATIONS

Size: 3.5" x 6" x 1.5" Weight: 0.5 lbs
 LCD display (4 x 20 characters)
 Shock-Resistant Plastic Housing
 Touch Pad input keys
 Emergency Stop button (Re-Initialize)
 Re-Initialize button to stop all engraver function
 Reset to Home with the touch of a button
 Quick Menu to input engraving parameters
 Slew head in all 4 directions & all 4 diagonals
 Move cutter head in 4 directions during Z Cutter Set
 Displays cutter set value on LCD
 Displays data in amount in bytes
 Stop, slew to view engraving and resume
 Spindle Up / Auto switch
 Chip Removal Off / Auto switch
 Spindle Rotation Off / Auto switch
 Programmable table slew speeds (in/sec)
 Prog. table return to Home speeds X/Y/Z (in/sec)
 Prog. travel speed between engravings (in/sec)
 Prog. offsets from limit switches X/Y/Z (inches)
 Prog. fast & slow Z axis cutter set speeds (in/sec.)
 Prog. engraving default start delay time (seconds)
 Prog. table leadscrew steps per inch settings X/Y/Z
 Prog. Z axis clearance default setting (inches)
 Prog. Z Sensor sensitivity
 Program Home to any corner
 Home offset position: visual set or numeric input
 Programmable Tick movement for X & Y (inches)
 Alternate & Preset Home Position
 Start engraver at any position on table
 Repeat <2 mb job with a push of the Start button
 Selectable serial baud rate from 9600 to 115200
 Run sample job with no computer hook up
 Turn on any single or all four outputs for testing
 Test Engraver Control Board 2 mb memory
 Two New Cutter Set Procedures Toggle_Start & Z Reference
 Cutter Offset Cutout Compensation Menu
 Super-Slow Slew Speed
 Braille Raster Insertion Mode
 Dual Cutter Set Values

CONTROLLER SPECIFICATIONS

Size: 12" x 12" x 4.5"
 Weight: 16 lbs.
 Data Input: TCP/IP and Serial
 Memory 8MB onboard and 2GB SD Card
 Stores up to 200 jobs within controller
 Auxiliary Switched AC Outlet
 Heavy Duty Interconnect Cable to Table
 Pendant 9 pin Serial Cable Hook Up
 3 Home Limits and 3 Max Limits Inputs
 Handles limit switches either N.O. or N.C.
 Solid State Micro Stepping Drivers X/Y/Z
 20 LED Situation Indicators (10 Red & 10 Green)
 Spindle Speed Control
 Chip Removal Power On Override Switch
 Power On/Off Button and Indicator Light
 Remembers Cutter Sets (1 & 2)
 Simple Single-Board Controller Design
 Simple Single-Board Power Distribution Design
 Runs from: EngraveLab, Type3, GravoStyle98, CASmate, FlexiEngrave, EnRoute, PlotAll & Quality Programs
 Core!DRAW via PlotAll or EngraveLab

A polished, anodized cast aluminum, 1" thick engraving surface complete with t-slots. Radiused & chamfered edges demonstrates the dedication to quality and ultimate detail.



Precision LM rails mounted to our extra heavy duty table increase stability and accuracy, while decreasing noise and vibration. Dual LM Rails X, Y & Z Axis



QUEST

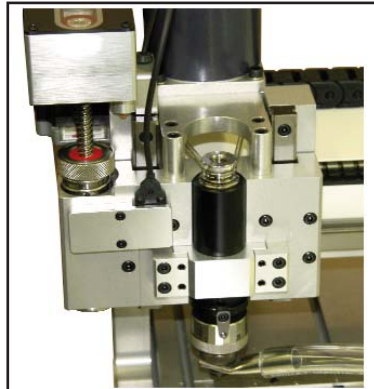
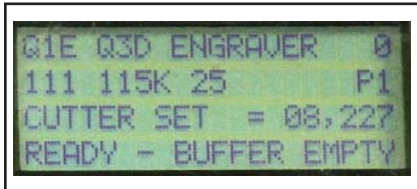
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What Separates the Quest Engraver from the Rest

The Quest Engraver is a revolutionary engraver that has been designed from the ground up dedicated to the Sign, Awards and Trophy industry. As many possible features that have been absent in engravers or only on a select few have been implemented. The design team, made up of engineers and engravers, have utilized sound engineering components proven in fields far more demanding than the engraving industry. The envelope has been expanded and the result is the finest engraver in its class.

Here are only a few of the many reasons Quest is the Best.

- *The Quest uses a 16mm precision ground ballscrew versus a leadscrew.*
- *The Quest Engraver uses real units in its many variable settings. Units like inches, seconds, and inches/second. All controls are variable to a fraction of what is necessary.*
- *The Quest Engraver uses precision heavy duty LM Rails on all 3 axis.*
- *The Quest Engraver uses a Z axis sensor with many possible options. Semi auto Z set or full Auto Run are simple and easy to use. Even has an indicator to monitor its actuation.*
- *The Quest Engraver uses a belt drive between the stepper motor & ballscrew and between the spindle motor and spindle.*
- *The Quest Engraver comes with an over-sized table. Over 1" on the left and right, 1" to the bottom and 6" to the rear. Very handy for clamping or when long plate engraving.*
- *The Quest Engraver requires only software in the computer.*
- *The Quest Engraver uses the heaviest duty spindle in the industry, its a top loader that works like a collet spindle and a collet as quiet as a top load.*
- *The Quest Controller has a host of features not seen on any other engraver. Because we designed the controller and firmware in house we can add a wide variety of features to satisfy your specific applications.*



About the Manufacturer

Quality One Engravers has been in business since 1983. With a mechanical engineering background, we could never stop tinkering with our engravers trying to make them run faster, more reliably and do things they should but couldn't. The Quest family of engravers is the culmination of many years of learning from other manufacturers mistakes and from listening to the needs of engravers around the world.

We pride ourselves on the absolute best products and customer service in the industry. We answer our phones personally and you can reach a technician when you need one.

Thanks for your consideration.