

Q1e Multi 1422



Q1E High Performance Engravers & Routers

2016

WWW.Q1ENGRAVERS.COM



Q3E

Controller Features

The **Q3E Controller** packs all the power and control your engraver needs. At only 5.5" high and takes just 1.2 square foot of space.

OUR AWESOME Q3E FEATURES

Program Home to any corner.
 Home offset position: visual set or numeric input.
 Programmable Tick movement for X & Y (inches or mm).
 Alternate & Preset Home Position
 1 button to move head from home to park it
 6 Function Programmable Hot Keys
 2 Cutter Set Stored Values to alternate between
 Programmable table, engraving, slewing, depths in real units; inches, inches/sec, (US & Metric)
 Programmable Return to Home speeds, travel speed between engravings, offset from limit switches, Z axis cutter set speeds, engraving start delay, table leadscrew steps/in, . Z clearance default, Z Sensor sensitivity and more...
 Start engraver at any position on table
 Repeat job with a push of the Start button
 Serial & TCP/IP input
 Run saved job on internal SD job with no computer hook up
 Test all six outputs in Test Mode
 Easy Cutter Set Procedures "Toggle_Start"
 Cutter Offset Cutout Compensation Menu
 Braille Raster Insertion Option Pneumatic & Manual
 Increase or decrease Cutter Depth on rerun of job, rerun from controller memory.

FRONT PANEL FEATURES

LCD large display (4 x 20 characters)
 Touch Pad input keys
 Emergency Stop button (Re-Initialize)
 Job Received Flashing Light
 Re-Initialize button to stop all engraver function
 Six New Function Buttons (User Programmable)
 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
 Output #4 Off / Auto switch (typically Lube System)

CONTROLLER SPECIFICATIONS

Size: 12" x 14" x 5.5"
 Weight: 16 lbs.
 Data Input: TCP/IP and Serial, WiFi Option (late 2016)
 Memory: 8GB microSD processor and 8GB SD onboard
 Stores up to 300 jobs within controller
 Speed Control / Function Button Front Panel
 Auxiliary Switched AC Outlet
 Heavy Duty Interconnect Cable to Table (18 amp rating)
 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 Box
 Chip Removal Power On Override Switch
 Power On/Off Button and Indicator Light
 Remembers two Cutter Sets (1 & 2)
 Simple Single-Board Controller Design
 Simple Single-Board Power Distribution Design
 Runs from: EngraveLab, GravoStyle, CASmate, Type3, FlexiEngrave, EnRoute & Quality Programs

Anodized aluminum T-slot extrusion table, .8" thick. 1.5" Removable Raisers allow up to 4" tall parts engraved.



Heavy duty spindle and Spindle Motor increase stability and accuracy, while decreasing noise and vibration. Shown w/ Auto Brailer Option.



Attention to detail, we use the engraver to engrave anodized aluminum parts.



Quality One
ENGRAVERS, INC

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Q1 Family of Engravers

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 Multi1422, Quest 1824 & 2448 Engravers.

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 Family.

ENGRAVER SPECIFICATIONS AND IN-PROCESS

Engraving Area: 22"(Y) x 14"(X)

Table Size: 27"(Y) x 26"(X) / 57"(Y) x 26"(X)

Overall Dimensions: 27"(X) x 35"(Y) x 21"(H)

Shipping Weight (in crate w/ controller): 200#

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

Table Type: T-Slot, Stationary (oversized)

Clearance: Vertical - 4.5", Gantry - 19.5"

Limit Switches: X,Y & Z Home

Z-Axis Optical Sensor: Material sense feature with optimal controls

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

Stepper Motors: - (X,Y & Z) High Torque Hybrid

Table Characteristics:

3/4" Thick Anodized Aluminum Extrusion, T-slots, Table Scales X & Y, 6 Clamp assemblies

Electrical: 110 VAC @ 10 amps

Language: HPGL



When finishing best, counts!

Usable Software Inputs: (Current List)

CadLink - Q1 EngraveLab (*Recommended*)

Type3, GravoStyle 98, Scanvec - FlexiSign, Inspire, CAS-mate, EnRoute & Quality ME3-PC

NEW FEATURE Due Soon:

- ✦ Auto Braille Bead Insertion (Now Available)
- ✦ Auto Diamond Drag over Burnishing (In Test)
- ✦ Router Head Option
- ✦ 4th Axis Cones and Accessories
- ✦ WiFi Data Transmission
- ✦ Never ending firmware & hardware enhancements!

BRILLE ANYONE?

Braille Bead Insertion Setup available.

Shown with a single spindle. The std spindle will drill the holes. Optional front spindle is a Raster Pen with pneumatic cylinder to position and insert the beads perfectly.



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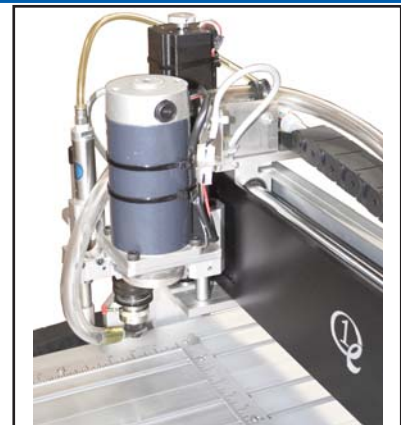
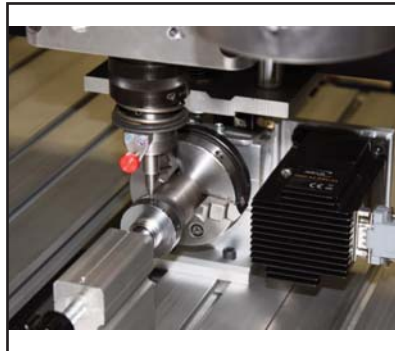


What Separates the Multi 1422 Engraver

The Q1E Multi 1422 Engraver is a simple engraver with high expectations. 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 the field. The results the most versatile engraver in the industry.

Here are only a few of the many reasons Multi1422 is the Best.

- *The Quest Engraver uses real units in its many variable settings. Units like inches, mm, seconds, and inches/second. All controls are variable to a fraction of required.*
- *The Multi Engraver uses a Z axis sensor with many possible options. Semi auto Z set or full Auto Run are simple and easy to use.*
- *The Multi Engraver uses a high torque stepper motor and coupling.*
- *The Multi Engraver comes with an over-sized table. Over 2" on the left and right, 1" to the bottom and 6" to the rear. Very handy for clamping or when long plate engraving.*
- *The Multi Engraver has up to 4" clearance and Z travel 2.5".*
- *The Multi has an optional Rotary Fixture for up to 4" diameter part engraving.*
- *The Multi Engraver uses the Q1E Heavy Duty 1/4" spindle, its a top loader that works like a collet spindle.*
- *The Multi Engraver comes with a 4 piece T-Slot table allowing an addition 1.5" clearance.*
- *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 and Q1E 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.