

QUEST

Family of Engravers & Routers



Quietly Soaring to Perfection



1212



2448



2424

- Router -

Stepper Series Controller

The Pursuit of Perfection!

2011

www.q1engravers.com

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The Q3D 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 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)
Rugidized Plastic Housing
Emergency Stop button
Emergency Stop button stops all engraver movement
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 amount on LCD
Displays data in amount in bytes
Stop, slew to view engraving and resume
Spindle Up / Auto button
Chip Removal Off / Auto button
Spindle Rotation Off / Auto button
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 <8 mb job with a push of the Start button
Run sample test job direct from pendant
Turn on any single or all four outputs for testing
Test Engraver Control Board 8 mb memory
Two New Cutter Set Procedures Toggle_Start & Z Set
Two Cutter Set Value Set or Key In
Cutter Offset Cutout Compensation Menu
Super Slow Slew Speed
Digital Position Indication Mode
Recall last job after shutdown
Store up to 200 jobs

CONTROLLER SPECIFICATIONS

Size: 12" x 12" x 5"
Weight: 17 lbs.
TCP/IP or Serial Input
8 MB Memory onboard with 2 GB on SD Card
Switched AC Outlet to Control Chip Removal
Switched AC Outlet to Control Chip Removal
Automatic Lubrication Activation On & Off
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)
Chip Removal Power On Override Switch
Power On/Off Button and Indicator Light
Remembers two Cutter Set Values
Simple Single-Board Controller Design
Simple Single Board Power Distribution Design
Runs from: Q1 Engravelab, Type3, GravoStyle98, EnRoute, FlexiEngrave & CASmate Programs.

A polished, anodized cast aluminum 1.25" thick engraving surface complete with coolant recovery trough. Radiused and chamfered edges demonstrates the dedication to quality detail.



Precision LM rails mounted to our extra heavy duty table increase stability and accuracy, while decreasing noise and vibration.



 **Quality One**
ENGRAVERS, INC

909-989-3898 **FAX 909-989-8617**
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Are you tired of engravers and light-duty routers that only satisfy some of your needs? Are your future needs more demanding than your present? Are you afraid to engrave or cut thru metal? Are you looking for an engraver/router that's built to last, simple to use, yet armed with a powerful array of features? Luckily you found the Quest.

The Quest is simply the best rotary engraver/router that has ever hit the market. After 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 supposed to?

It's an engraver/router with a thirst for work. Welcome to our Quest.

ENGRAVER SPECIFICATIONS

Engraving Area: 12" x 12" 24" x 24" 24" x 48"

Table Size: 24" x 24" 27" x 34" 27" x 58"

Overall Physical Dimensions:

24" x 24" x 52" 31" x 36" x 54" 31" x 60" x 54"

Shipping Weight (in crate with controller):

300 lbs. 500 lbs. 700 lbs.

Shipping Dimensions (in crate):

32" x 32" x 50" 36" x 42" x 56" 36" x 66" x 56"

Table Type: T-Slot, Stationary w/ coolant trough

Clearance: Vertical - 4", Gantry - 18" 27.7" 27.7"

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

Z-Axis: Four Bearing Dual Linear Slides

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

Spindle Motor / Speed: 1 HP, 0 - 30,000 RPM

Spindle: Belt-Driven 33mm Quill, 1/4" x 6-1/2" Bottom Loading (ER-11 Collet)

Coolant Recovery System: Quiet High Capacity Vacuum Blower and chip /coolant separation canister.

Router Stand: HD tubular steel frame table assembly contains placement for controller, all electrical and chip collection system. Locking and leveling casters.

LM Precision Rails & Ballscrews (X,Y,& Z)

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

Table Characteristics:

1.2" Thick Anodized Cast Aluminum

Coolant Recovery System (Blower & Canister)

Coolant Recovery Trough

1/4" Wide T-Slots

Table Edges Radiused and Chamfered

Table Scales X & Y axis

Clamps: 8 clamp assemblies (4-3" & 4-5" clamps)

Electrical: 230 VAC @ 10 amps

Controller: Q1E Q3D Controller & Pendant

Language: HPGL

Usable Software Inputs:

CadLink - Q1 EngraveLab (Recommended)

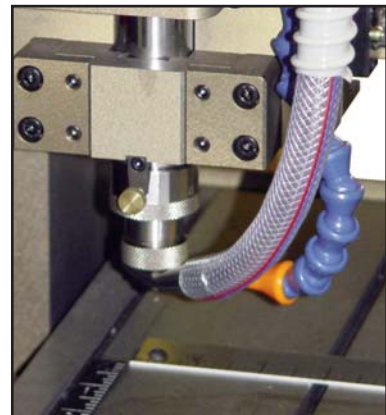
Vision Numeric - Type3, GravoStyle 98, &

Scanvec - FlexiEngrave, EnRoute, CASmate



Heavy Duty Collet Spindle 33mm ER-11 bottom-loading.

High Capacity Chip Collection & Lubrication System. Heavy duty engraver stand with locking casters. Stand contains all electrical and controller components.



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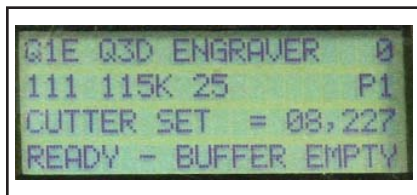
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What Separates the Quest from the Rest

The Quest Router is a revolutionary router / engraver that has been designed from the ground up. All 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 results; the finest engraver/router combination ever available.

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

- The Quest Router uses a 20mm precision ground ballscrew versus a leadscrew all 3 axis.
- The Quest Router 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 Router uses precision heavy duty LM Rails on all 3 axis.
- The Quest Router 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 Router uses a belt drive between the stepper motor & ballscrew and between the spindle motor and spindle.
- The Quest Router comes with an over-sized table. 1.5" on the left and right, 2" to the bottom and 9" to the rear. Very handy for clamping or when long plate engraving.
- The Quest Router comes with a coolant recovery system; including trough, chip collection and vacuum blower. The table can be easily modified to be a vacuum table plenum.
- The Quest Router requires only software in the computer. No special boards or hardware.
- The Quest Router uses the heaviest duty spindle in the industry, its a bottom-loading collet spindle and a 1 HP quiet Router Motor w/ Speed Control.
- The Quest Q3D Controller has a host of features not seen on any other engraver. The Q3D controller and firmware is all designed "in-house", therefore we can create 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 & routers 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.

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