

# 2C4U Cutter™



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### User Friendly Control Panel



The user friendly control panel comes standard with a large 20 digit X 4 line LCD information display and icon-labeled comprehensive controls, providing effortless operation and simple navigation of various setup menus. The oversized LCD allows users to quickly glance at all operational conditions including equipment status, speed, force, quality (acceleration), and tool type with pre-programmed offset value.

### Media Feed System



The Q-Series built-in SmartFeed intelligence automatically unwinds the media roll and pre-feeds it for a user-programmable length as the plotting data extends beyond the prepared area. This intelligent feature, developed from years of experience in professional sign shops, reduces errors, enhances tracking, and enhances productivity.

### Incredible Speed and Downforce



The speedy throughput performance of 50 ips\* and a hefty 400 grams of downforce gives you superb accuracy and versatility. The new Q-Series cutters perform highly intricate cutting as small as 1/16" tall text on vinyl. The available force of up to 400 grams means you can cut anything from 2mil cast vinyl to 45mil sandblast stencil with ease and precision. Nothing gives you more options than the Vinyl Express Q-Series.

### Tangential Cutting



Tangential emulation yields clean corners and complete cuts on thick material. When the Tangential Control mode is engaged, the Q-Series cutter out-cuts the mechanical tangential system both in speed and output quality by precisely and intelligently controlling the blade operation. The on-board tool height sensor detects the blade tip's landing on the media surface, then intelligently and precisely aligns the blade rotation for the following line or arc, all in a fraction of a second.

### TrueTRACK 50 foot Guarantee



The exclusive precision grid array drum on your Vinyl Express Q-Series cutter means you get superb tracking, job after job. Notice the even and finely spaced prongs. Compare that to many cutters which use random, sandpaper-like grit drum rollers. Our TrueTRACK cutters give you 50foot tracking guaranteed! You'll get TrueTRACK on every VE Q-Series cutter.



### Contour Cutting

The ARMS 3 (Automatic Registration Mark Sensor) system detects the registration marks printed alongside digitally produced images to automatically align preprinted images to the internal coordinate system and even compensate for material expansion/contraction. The ARMS 3 system's user interface is enhanced making it extremely user-friendly and accurate. These intelligent features assure unsurpassed accuracy and consistently reliable operation for the most intricate die/contour cutting applications.

### Optional Media Basket and Extra Media Racks



The media basket facilitates dust-free cutting operations and enhanced media tracking for long, continuous project applications. The optional additional media racks enable you to keep up to 3 extra full-length rolls conveniently stored at the foot of your plotter for quick changes from one job to another.

### Smart Blade Landing (SBL) system

SBL is a system of features engineered into the Q-Series vinyl cutters that precisely measures the thickness of the media loaded in the cutter. (Most other cutters only measure the length and width, NOT the thickness.) Since the plotter knows exactly how thick the media is, it senses the surface of the media and as the blade descends, it slows so that it meets the surface delicately and precisely. Then, when the blade is raised, instead of going all the way up and "crashing" into the upper limit of its travel, as most plotter blades do, it goes up just high enough to clear the surface of the media, then comes back down. The Smart Blade Landing (SBL) system offers several benefits:

- The Q-Series cutting plotters are **faster** because they don't waste time traveling all the way back to the home position.
- The Q-Series cutters are **more durable** because there is less wear and tear on the mechanism that raises and lowers the cutting head, and less jarring due to the cutting head crashing against the home position.
- The Q-Series vinyl cutters are **more precise** because they contact the media surface with only the pressure the user dials in and not the added force of downward momentum.
- The Q-Series plotters are **more versatile** and can handle a wider variety of media, including very thin media like window tint film.

### Vinyl Express Q-Series Specifications

- Configuration: Digital Servo Friction feed with MicroGrit rollers drive • Cutter Force: 10-400 grams down force
  - Cutting Acceleration: 4g
  - Max. Cutter Speed: 50ips
  - Minimum Character Matrix: 0.125" high, Alpha-numeric characters, varies with type of film and font
  - Mechanical Resolution: 0.0002"
  - Repeatability: 0.0039" over 80" travel or better
  - Number of Tool Holders: 1(accepts cutting blade, plotting pen, and pouncing tool) • Blade Types: Super steel, ceramic
  - Pen Types: Water-based fiber tip, roller ball, and ceramic tip
- Buffer: 2MB • Ports: RS-232C Serial & USB  
 Commands: HP-GL, GP-GL, control panel selectable  
 Control Panel: 20 digits x 4 lines LCD with comprehensive icon corresponding soft keys  
 Media Supply Mechanism: Integrated Accuload media supply system, optional media rack for simultaneously holding up to 3 rolls of media  
 Media Pre-Feed: Standard (built-in Smart Feed function automatically unwinds and pre-feeds media for a specified distance upon self-recognition of plot file length)  
 Power Supply: AC 100-240V, 48-62 Hz, auto switching, 120 VA max  
 Operating Environment: 50° to 95° F  
 Pouncing Function: With optional tool  
 Includes Stand • Warranty: 2 year