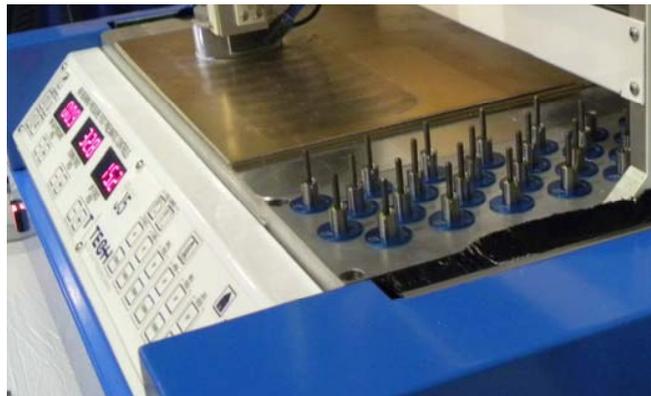




QCJ5 the intelligent solution



QCJ5 setting the **NEW** standard for in-house prototyping!

12, 24 or 32-Position Automatic Tool Change

Projects run unattended and uninterrupted, adding valuable time back into an Engineer's day.

ContactByTouch® Automatic Depth Sensing

Software controlled depth of cut settings, ensuring the highest level of precision and accuracy in all milling procedures.

CheckByTouch®

Broken Tool Detection and software enabled tool management including linking

3 Axis Motion

Pocket mill microwave boards, de-panel, repair circuit boards, fabricate enclosures, or create panels and housings.

4 Quadrant Precision Vacuum Table

Secure materials to the precision flat surface ensuring accurate depth of cut and reducing damage to fragile prototypes.

60,000 or 100,000 RPM Variable Speed Spindle

Available with a choice of 60,000 or 100,000 rpm high performance variable speed spindles.

4 Mil Trace and Insulation Width

Create resolutions as fine as .004 mm (.00025") with traverse speeds as high as 150 in/min.

Pre-Touch Pressure Foot

Pre-Touch system applies evenly distributed pressure to the substrate prior to the drilling or milling operation.

Integrated Front-Panel Controls

Front panel controls provide the convenience of local access to common system commands.

QCJ5...In-House Prototyping Simplified!



510 Guthridge Ct, Norcross, GA 30092 | 770.455.0676 | Fax 770.455.0970

QUICK CIRCUIT QCJ5 the intelligent solution



Introducing the new **Quick Circuit QCJ5** - T-Tech's most advanced PCB Prototyping system ever! The QCJ5 delivers the precision, the speed, and automation required to take your prototyping capabilities to the next level. Empowering engineers with features such as; 3axis motion, 12, 24 or 32 position automatic tool change, ContactByTouch® automatic depth control, 6000 or 10000rpm variable speed spindle, PreTouch® pressure foot, CheckByTouch® tool detection 4zone selectable precision vacuum table, front panel control of common system commands, integrated sound enclosure and a 254mm x 330mm (10' x 13') work surface are all standard features. When combined with T-Tech's industry leading IsoPro 3.0 software, the Quick Circuit QCJ5 sets the new standard in automated precision rapid prototyping!

The Quick Circuit QCJ5 advantage

Automatic Tool Change

Engineers have a critical need to reduce the amount of time required to create prototype circuit boards. The Quick Circuit QCJ5 offers engineers automated tool changing system choices ranging up to 32 positions. Automatic Tool Change allows your system to run unattended and uninterrupted, providing time savings up to 400%, and adds valuable time back into an engineer's day.

3rd Axis Motion Control

3rd Axis motion control empowers Engineers with increased ability to approach requirements that standard XY milling machines are incapable of. Depanel populated boards, repair circuit boards, fabricate microwave enclosures, pocket milling for microwave applications and create small machine parts to name a few. The QCJ5 provides Engineers with the ability to take prototypes farther down the design to test path in house.

IsoPro 3.0 Software

T-Tech's industry leading IsoPro 3.0 software allows users to become productive immediately. View and edit standard CAD output, create single or multiple isolation paths, specify partial or complete copper removal. Improved optimization reduces mill, drill and routing time. View machine status in real time with the new machine status bar. IsoPro provides a simple to learn method of controlling milling, drilling and routing procedures. This industry leading intuitive software program comes with the purchase of all Quick Circuit QCJ5 Systems, and is available for download at www.t-tech.com. Existing systems may also be upgraded to IsoPro 3.0

Accelerated Precision and Accuracy

The Quick Circuit QCJ5 is capable of producing resolutions as fine as .006mm (.00025") at traverse speeds as high as 150 inches per minute. Improve the quality of your fine pitched SMT, R/F Microwave, high speed digital and soft substrate designs. Achieve the ultimate in precision, accuracy and quality at maximum speeds!

ContactByTouch® Automatic Depth Control

The Quick Circuit QCJ5 provides software controlled depth of cut settings, ensuring precision and accuracy in all milling procedures. ContactByTouch® automatic depth control allows users to enter depth of cut values directly into software data fields, eliminating the need for manual settings and feeler gauges.



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PreTouch® Pressure Foot System

The Quick Circuit CCJ5 features a state of the art pneumatic pressure foot that applies evenly distributed pressure to the substrate prior to the drilling or milling operation. The PreTouch® technique secures the material to the table prior to determining material height, or entry of a selected milling tool. Our clients are able to drill 100micron-.004" holes with controlled feed rates and precision. The ability to easily and precisely regulate the pressure applied makes the CCJ5 system ideal for working with delicate materials such as Rogers TMM RO3000/4000/5000/6000 and other soft or flexible circuit board materials.

CheckByTouch® Tool Detection

The CCJ5 allows you to mill with confidence. The CheckByTouch® function allows you to replace broken tools automatically. Simply link common replacement tools through the IsoPro 3.0 software and should a tool break, the system will automatically deposit the broken tool, pick up a new replacement and continue milling.

4 Zone Precision Vacuum Table

Our precision flat 4zone vacuum table allows users to create prototypes on standard, exotic, thin or flexible materials with greater precision. The combination of our matched PreTouch® pressure foot and 4zone vacuum table ensure that any material is held secure and precision flat, greatly increasing the ability to create a consistent depth of cut on analog, digital, RF/Microwave, or small fragile prototypes.

Integrated Sound Enclosure

The integrated Sound Enclosure encapsulates the Quick Circuit with sound dampening acoustical foam, reducing noise level to a quiet 63db while providing a safe environment for the Quick Circuit system.

T-Tech's lifetime technical and software support are standard with all Quick Circuit systems!



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Features	QCJ5-60	QCJ5-100
RPM - Software Controlled	0-60,000	0-100,000
3 Phase Spindle Power	300 Watts	300 Watts
Smallest Drill Size	.15mm (0.006")	0.1mm (0.004")
Smallest Mill Size	.15mm (0.006")	0.1mm (0.004")
Milling Speed	3,800mm/min (150"/min)	3,800mm/min (150"/min)
Traverse Speed	3,800mm/min (150"/min)	3,800mm/min (150"/min)
Drilling Speed	180 Holes/min	180 Holes/min
Routing Speed	3,800mm/min (150"/min)	4,500mm/min (180"/min)
Material Size	35cm x 40cm (14"x16")	35cm x 40cm (14"x16")
Work Area	25x33x6 cm (10x13x3.5")	25x33x6 cm (10x13x3.5")
Resolution	0.0012mm (0.0005")	0.006mm (0.00025")
Repeatability	0.008mm (0.00036")	0.004mm (0.00018")
Stroke Z-Axis	76mm (3.5")	76mm (3.5")
Machine Voltage	80-245 Volts 50/60Hz	80-245 Volts 50/60Hz
Machine Dimensions	66x66x50cm (26x26x20")	66x66x50cm (26x26x20")
Machine Weight	45 kg (99 lbs)	49 kg (108 lbs)
Automatic Tool Change	12, 24, or 32 Tools	12, 24, or 32 Tools
Axis Motion Control	X,Y, and Z Axis Control	X,Y, and Z Axis Control
Automatic Depth Control	Standard	Standard
Front Panel Controls	Standard	Standard
Pressure Foot System	Pre-Touch	Pre-Touch
Vacuum Table	4 Zone Selectable	4 Zone Selectable
Sound Enclosure	Integrated	Integrated
Mac Requirements	Intel Processor OSX 10.5 or Newer	Intel Processor OSX 10.5 or Newer
Windows Requirements	1.5Ghz Processor 1GB RAM Windows XP, Windows 7	1.5Ghz Processor 1GB RAM Windows XP, Windows 7