



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

August 12, 2013

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Bryan,

The following pages contain product information, specifications and budgetary quotations for the Quick Circuit model QCJ5-60-24 and QCJ5-100-24. The QCJ5 series represents T-Tech's automated line of precision prototyping systems. The QCJ5 series provides three axis motion control, 24 position automatic tool change, material offset registration, automatic depth control, and tool bit detection with tool linking.

All QCJ5 systems are equipped standard with IsoPro® 3.1 advanced mill path generation and CAD editing software, JVision® fiducial recognition and alignment, front panel controls, four zone selectable precision vacuum table, and an integrated sound enclosure.

**QCJ5 series standard features:**

250mm x 330mm (10" x 13") work area. 22 square inches greater work area than our competitor.  
24 automated tool change positions. 9 more positions than our competitor.  
Front panel controls for common system commands. Unavailable on any competitor's model.  
3.5 inches / 88mm of z-axis travel. 53mm greater z-axis travel than our competitor.  
Integrated 4 zone precision flat vacuum table. Unavailable on any competitor's model.  
Dual Hepa Vacuum. Unavailable on any competitor's model.

**IsoPro® version 3.1 features:**

32/64-bit compatibility	Rapid spindle ramp up/down times
Automatic tool change	Layer tool list options
CheckByTouch® broken bit detection	Tool Pod dialogue bar
ContactByTouch® automatic depth sensing	Select Entities
Tool Management including Linking	Improved mill and drill path optimization
Live Machine Status Bar	Multiple mouse functions
Multilingual help files with embedded graphics	Windows 2000 through Windows 7, Mac 10.X compatible.
JVision® fiducial recognition and alignment	

A brief video that provides an overview of the QCJ5 features can be found by using the following link: [QCJ5 video](#)

If you have any questions, or require additional information please feel free to contact me by email or at either of the two numbers listed below. I look forward to assisting you with this requirement.

Regards,

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## QCJ5-60-24

### Featuring:

- 12 Automatic tool change positions
- ContactByTouch® Automatic depth control
- CheckByTouch® Tool detection
- JVision® Fiducial recognition and alignment
- 3rd axis Motion control
- 60,000 rpm variable speed spindle
- 3.5 inches of Z-Axis vertical travel
- Front Panel controls
- PreTouch® pressure foot



## QUICK CIRCUIT QCJ5-60-24

3<sup>rd</sup> Axis Motion Control – Auto Tool Change – Auto Depth Control – Vacuum Table

QUANTITY	ITEM	DESCRIPTION	UNIT PRICE	EXTENDED PRICE
1	<b>QUICK CIRCUIT QCJ5-60-24</b>	XYZ Milling Table w/ 60,000 rpm spindle, Auto Tool Change w/Vacuum Table Cables, Manual, Start-Up Tool Kit, 10"x13" work area	<b>\$24,111.00</b>	<b>\$24,111.00</b>
	<b>Featuring:</b>	12 position Automatic Tool Change	Standard	Standard
		3 <sup>rd</sup> Axis Motion Control	Standard	Standard
		Tool Bit Detection w/ CheckByTouch®	Standard	Standard
		4 Zone Precision Vacuum Table	Standard	Standard
		Automatic Depth Control w/ ContactByTouch®	Standard	Standard
		PreTouch® Pressure Foot System	Standard	Standard
		Front Panel Controls	Standard	Standard
		Integrated Controller	Standard	Standard
		Integrated Sound Enclosure	Standard	Standard
1	<b>OA-ISO-PRO</b>	IsoPro® 3.1 conversion software download upgrade	Included	Included
1	<b>OA-ISOPRO-DXF</b>	DXF to Gerber Conversion License	<b>\$895.00</b>	<b>\$895.00</b>
1	<b>AS-QCJ5-FIDUCIAL</b>	JVision® Fiducial Recognition and Alignment	Included	Included
1	<b>AS-KIT-RF/MW</b>	RF/Microwave tool kit (ringed)	<b>\$450.00</b>	<b>\$450.00</b>
1	<b>OA-VAC-DUAL-115</b>	Dual Hepa Equipped Vacuum System	<b>\$1,050.00</b>	<b>\$1,050.00</b>
1	<b>QC-COMPRESSOR</b>	1 HP Ultra Quiet	<b>\$1550.00</b>	<b>\$1550.00</b>
1	<b>TRAINING</b>	Training 1-Day (travel expenses not included)	<b>\$895.00</b>	<b>\$895.00</b>
			<b>\$28,951.00</b>	<b>\$28,951.00</b>
		<b>Educational Discount 5%</b>	<b>-\$1447.55</b>	<b>\$27,503.45</b>
		Shipping		<b>\$ 0.00</b>
		<b>Total</b>		<b>\$27,503.45</b>

## QCJ5-100-24

### Featuring:

- 24 Automatic tool change positions
- ContactByTouch® Automatic depth control
- CheckByTouch® Tool detection
- JVision® Fiducial recognition and alignment
- 3rd axis Motion control
- 100,000 rpm variable speed spindle
- 3.5 inches of Z-Axis vertical travel
- Front Panel controls
- PreTouch® pressure foot



## QUICK CIRCUIT QCJ5-100-24

3rd Axis Motion Control – Auto Tool Change – Auto Depth Control – Vacuum Table

QUANTITY	ITEM	DESCRIPTION	UNIT PRICE	EXTENDED PRICE
1	<b>QUICK CIRCUIT QCJ5-100-24</b>	XYZ Milling Table w/ 100,000 rpm spindle, Auto Tool Change w/Vacuum Table Cables, Manual, Start-Up Tool Kit, 10"x13" work area	<b>\$28,495.00</b>	<b>\$28,495.00</b>
	<b>Featuring:</b>	24 position Automatic Tool Change	Standard	Standard
		3rd Axis Motion Control	Standard	Standard
		Tool Bit Detection w/ CheckByTouch®	Standard	Standard
		4 Zone Precision Vacuum Table	Standard	Standard
		Automatic Depth Control w/ ContactByTouch®	Standard	Standard
		PreTouch® Pressure Foot System	Standard	Standard
		Front Panel Controls	Standard	Standard
		Integrated Controller	Standard	Standard
		Integrated Sound Enclosure	Standard	Standard
1	<b>OA-ISO-PRO</b>	IsoPro® 3.1 conversion software	Included	Included
1	<b>OA-ISOPRO-DXF</b>	DXF to Gerber Conversion License	<b>\$895.00</b>	<b>\$895.00</b>
1	<b>AS-QCJ5-FIDUCIAL</b>	JVision® Fiducial Recognition and Alignment	Included	Included
1	<b>AS-KIT-RF/MW</b>	RF/Microwave tool kit (ringed)	<b>\$450.00</b>	<b>\$450.00</b>
1	<b>OA-VAC-DUAL-115</b>	Dual Hepa Equipped Vacuum System	<b>\$1,050.00</b>	<b>\$1,050.00</b>
1	<b>QC-COMPRESSOR</b>	1 HP Ultra Quiet	<b>\$1550.00</b>	<b>\$1550.00</b>
1	<b>TRAINING</b>	Training 1-Day (travel expenses not included)	<b>\$895.00</b>	<b>\$895.00</b>
		<b>Subtotal</b>		<b>\$33,335.00</b>
		<b>EDUCATIONAL DISCOUNT 5%</b>		<b>-\$1,666.75</b>
		F.O.B. T-TECH 510 Guthridge Ct Norcross, Georgia 30092 (shipping not included)		<b>\$ .00</b>
		<b>Total</b>		<b>\$31,668.25</b>



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## QUICK CIRCUIT

### system requirements

**IsoPro Windows Requirements** – 1.5Ghz Processor, 1G RAM, Windows 2000, Windows XP, or Windows 7

**IsoPro Mac Requirements** – Intel Processor OSX 10.5 or Newer

### terms & conditions

**Quick Circuit is manufactured in the United States**, utilizes standard American tooling, and features .25 mil resolutions.

**Standard Terms** – Net 30 days

**All pricing listed F.O.B. T-Tech, Inc. 510 Guthridge CT. Norcross, Georgia 30092 U.S.A.** (unless otherwise stated)

All T-Tech products carry a **one year warranty** on parts and labor.

Quick Circuit QCJ5 series systems ship approximately **6-8weeks** after receipt of an approved purchase order.

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