T | TECH

Quick Circuit Prototyping Systems

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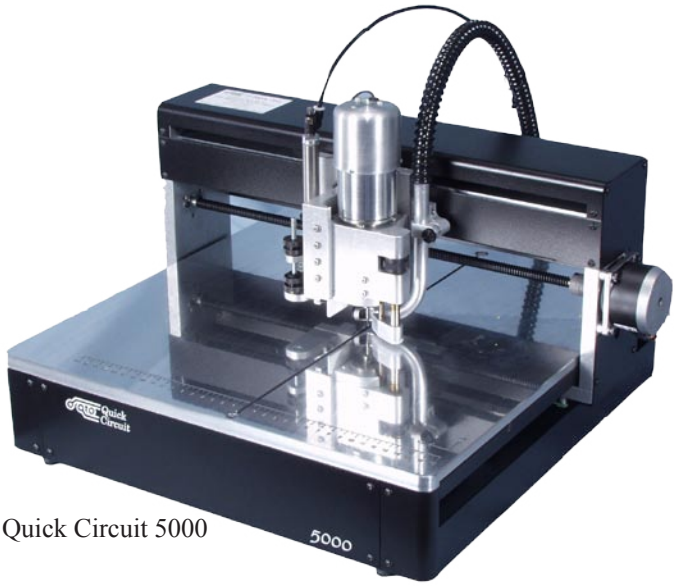
QUICK CIRCUIT
S MODEL



Quick Circuit 5000

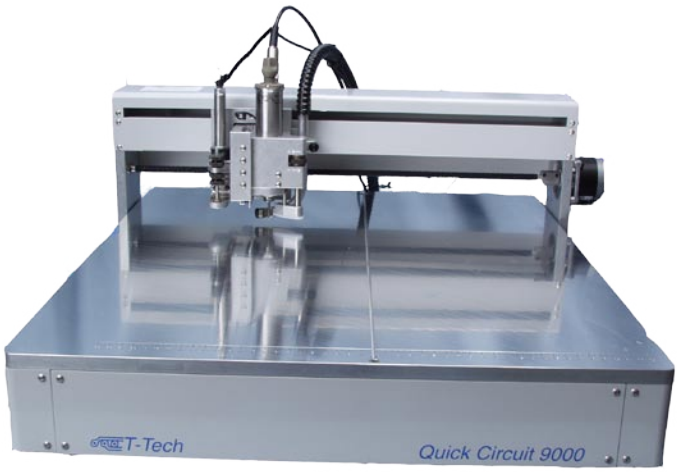
Affordable and economical, T-Tech's Quick Circuit Standard Model provides everything you need to produce circuit board prototypes within hours. With a variety of work areas and system configurations you will be able to find a system compatible with your design's needs. The Standard Model has software controlled spindle speeds allowing variable motor speeds between 8,000 and 24,000 RPM making it a good fit for many applications. With this system also comes the IsoPro software, which enables automatic data conversion from almost any CAD package and is designed to be intuitive to the engineer. The software also has the ability to import DXF and export Gerber data.

Commonly used for;

- Education
- Power Supplies
- Analog Circuits
- Low Speed Digital

MIN TRACE	5 MILS
MIN INSULATION WIDTH	5 MILS
MIN DRILL HOLE	13 MILS
SPINDLE	8,000 - 24,000 RPM
WORKING AREA model 5000 model 7000 model 9000	 254mm X 330mm (10"X13") 330mm x 482mm (13"x19") 482mm x 482mm (19"x19")
RESOLUTION	.25 MILS
DRILLING SPEED - SOLENOID/AIR	80/90 PER MIN.
TRAVERSE SPEED	38mm per second (90" MIN)
X/Y POSITIONING SYSTEM	precision stepper motors
Z AXIS	solenoid
TOOL CHANGE	semi auto/software prompted
TOOL COLLET	standard 1/8"
POWER SUPPLY	120 or 230 VAC
WEIGHT model 5000 model 7000 model 9000	 22 kg(47 lb) 27kg (58 lb) 34kg (74 lb)
OPTIONS:	
ACOUSTIC CABINET	available
LED HEAD LIGHT	standard
QUICK CAM	available
USB	available
AIR SOLENOID	available
VACUUM	available

QUICK CIRCUIT
HS MODEL



Quick Circuit 9000

T-Tech's HS, High Speed, model has been the industries benchmark in circuit board prototyping, bringing both performance and value to the table. With a range of spindle speeds from 6,000 to 60,000 rpm, it affords users optimal performance and precision needed in the prototyping process. The HS is able to accomplish traces and spaces as small as .004" and meets the requirements of RF substrate manufacturers. Once combining the HS with the pneumatic Z axis you have the ideal system for any RF lab. With this system also comes the IsoPro software, which enables automatic data conversion from almost any CAD package and is designed to be intuitive to the engineer. The software also has the ability to import DXF and export Gerber data.

Commonly used for;

- High speed Digital
- R/F Microwave
- Soft substrate designs
- Education

MIN TRACE	4 MILS
MIN INSULATION WIDTH	4 MILS
MIN DRILL HOLE	8 MILS
SPINDLE	6,000 - 60,000 RPM
WORKING AREA model 5000 model 7000 model 9000	 254mm X 330mm (10"X13") 330mm x 482mm (13"x19") 482mm x 482mm (19"x19")
RESOLUTION	.25 MILS
DRILLING SPEED - SOLENOID/AIR	80/90 PER MIN.
TRAVERSE SPEED	38mm per second (90" MIN)
X/Y POSITIONING SYSTEM	precision stepper motors
Z AXIS	solenoid
TOOL CHANGE	semi auto/software prompted
TOOL COLLET	quick change 1/8"
POWER SUPPLY	120 or 230 VAC
WEIGHT model 5000 model 7000 model 9000	 25 kg(53 lb) 30kg (64 lb) 37kg (80 lb)
OPTIONS:	
ACOUSTIC CABINET	available
LED HEAD LIGHT	standard
QUICK CAM	available
USB	available
AIR SOLENOID	available
VACUUM	available

QUICK CIRCUIT
HF MODEL

The Quick Circuit HF, High Frequency, targets the RF and microwave markets with smoother cuts from the 100,000RPM spindle. The higher spindle speed allows for extended tool life and faster milling speeds. The pneumatic Z axis comes standard on this model making it a perfect match for any soft substrate design. The system includes an integrated sound/dust enclosure with stackable design that makes the Quick Circuit HF a smart decision for any type of lab environment. This system also comes with the IsoPro software, which enables automatic data conversion from almost any CAD package and is designed to be intuitive to the engineer. The software also has the ability to import DXF and export Gerber data.

Commonly used for;

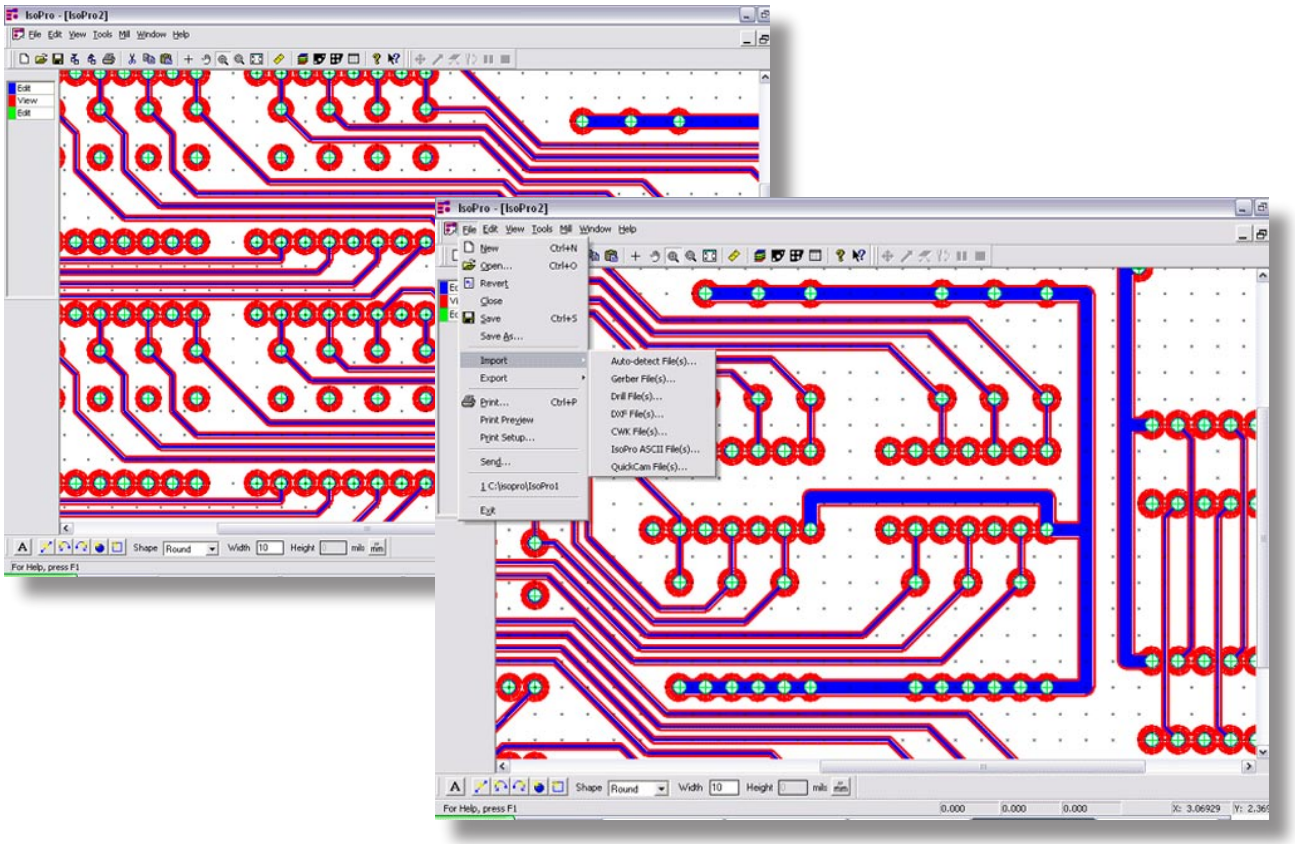
- Fine Pitched SMT
- R/F Microwave
- High speed digital
- Soft substrate designs

MIN TRACE	4 MILS
MIN INSULATION WIDTH	4 MILS
MIN DRILL HOLE	8 MILS
SPINDLE	5,000 - 100,000 RPM
WORKING AREA model 5000	254mm X 330mm (10”X13”)
RESOLUTION	.25 MILS
DRILLING SPEED	90 PER MIN.
TRAVERSE SPEED	38mm per second (90” MIN)
X/Y POSITIONING SYSTEM	precision stepper motors
Z AXIS	solenoid
TOOL CHANGE	semi auto/software prompted
TOOL COLLET	quick change 1/8”
POWER SUPPLY	120 or 230 VAC
WEIGHT	62 kg(135 lb)
OPTIONS:	
ACOUSTIC CABINET	standard
LED HEAD LIGHT	standard
QUICK CAM	available
USB	available
AIR SOLENOID	standard
VACUUM	available

SOFTWARE
ISOPRO

T-Tech's IsoPro software features a Windows graphical interface to make users more productive immediately, making it easy to load, view, and edit your standard CAD output. You can create single or multiple isolation paths and afterwards specify partial or complete copper removal. With the ability to edit layouts, such as adding pads and traces, it saves time and saves design errors. IsoPro can also export Gerber data that is used when bringing your board to production. This easy and intuitive software package comes with the purchase of any Quick Circuit system.

- CAD compatible
- Edit boards
- Windows interface
- Exports Gerber data



SUPPORT

Support is a core component of what we provide and therefore just as important as any tangible product. There is tremendous value in our system, but feel it is doubly so when the customer takes advantage of our support team. Unlimited technical support is provided for the life of the system. Our goal is to make our customer's use of the Quick Circuit system as efficient as possible.

system

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support

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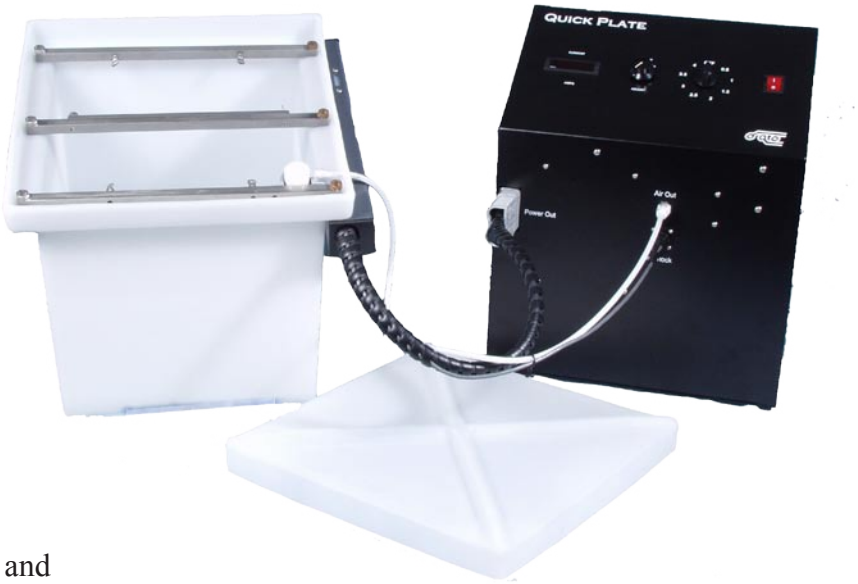
efficiency

PROTOTYPE PLATING SOLUTION

QUICK PLATE



In order to achieve thru-hole plating on prototype and small run circuit boards T-Tech offers the Quick Plate system. This is a one bath process that fits easily into the design lab or small production facility. The process is quick, inexpensive and avoids the short shelf life and disposal problems associated with plating lines using electroless copper baths. The Quick Plate is designed to be installed and used as frequently as needed with minimum maintenance.

Quick Plate can through plate a variety of substrates including FR4, FR2, Getek®, and G10 ®. The system can be used for both double-sided and multilayer fabrication

- Easy to Use
- Double Side or Multilayered
- Single Bath Process
- Good fit for small production facilities.

	Quick Plate 912	Quick Plate1812
PCB PANEL MATERIAL SIZE	229mm X 305mm (9” X 12”)	305mm X 457mm (12” X 18”)
PLATING AREA	229mm X 267mm (9” X 10.5”)	305mm X 457mm (12” X 18”)
DESK SPACE REQUIREMENTS	685MM X 838MM	900MM X 900MM
SHIPPING WEIGHT	50KG (110 LBS)	62KG (135LBS)
SMALLEST DRILL HOLE SIZE	0.4MM (0.016”)	0.4MM (0.016”)
VOLUME OF ELECTROLYTE SOLUTION	23 LITERS (6 U.S. GAL-LONS)	64 LITERS (17 U.S. GALLONS)
PLATING SPEED	0.63 - 1.04 OZ/HOUR @ 12 AMPS	0.63 - 1.04 OZ/HOUR @ 12 AMPS
AVERAGE TIME TO PLATE PCB WITH 1/2 oz. COPPER	35 MINUTES @ 20 ASF	35 MINUTES @ 20 ASF
ELECTROLYTE SHELF LIFE	5 YEARS	
POWER SUPPLY	110V or 220V; 50-60 HZ	
QP SYSTEMS COMPATIBLE WITH:	FR4, FR2, G10, PTFE, TMM, GETEK, ARLON	

TOOLS & MATERIALS

After purchasing a Quick Circuit system you can also use T-Tech as a resource for tools and materials. With the finest tools available you can purchase quickly and easily from www.t-tech.com or call a member of our sales team to place your order. A wide variety of routers, endmills, and drill bits are available along with a variety of board materials. T-Tech is a resource for all of your prototyping needs.