

PCB Singulation Router with Dust Extraction Channels. Low stress singulation of tab routed PCB panels.



Safely singulate PCB panels by finish routing tabs.

Depanelize boards with overhanging components.

Adjustable spindle speed up to 35,000 RPM

Built in dust extraction channel.

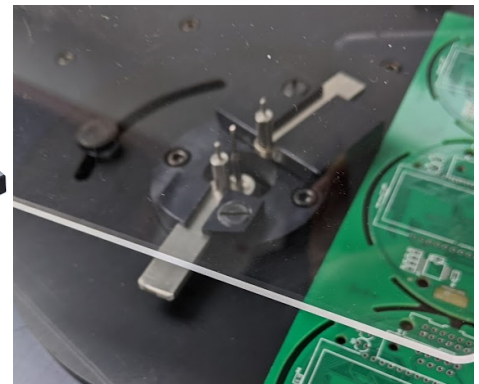
Adjustable guide pin positions for curved panels.

Singulate panels of any size.

Dust extractor vacuum available separately



Back View



The R100 is a high speed table top PCB router with built in dust extraction channels. This tool is intended to be used to finish singulating tab routed PCB panels by manual operation. For round panels two guide pins can be set along the radius of the panel to keep the panel on the routed path while the tab is milled. Tabs on straight routed panels can be milled in a straight line by lining up two pins and the router bit. A quick adjustable T-Slide can be mounted on the rotating plate to help the operator keep the panel steady during PCB separation of in-line tabs.

To operate, switch on the machine and set the speed to 30,000 rpm. The router can be set to automatic or foot pedal operation. Using the foot pedal allows the operator to run the router at each tab. Place the tab between the front or back guide pin and the router bit and move the tab past the router bit.

The standard machine comes with one set of guide pins and the desired router bit for routing .092" or .064" routed channels. Other sizes are also available. The height of the router bit is adjustable by means of a crank on the side of the machine which brings the entire spindle up or down. Bit replacement is done quickly by bringing the spindle up from the machine.

Standard tooling for singulating round or rectangular tab routed panels consists of a rotating plate with a back set block for holding a guide pin mounted on an adjustable slide. The front fixed set block holds the front guide pin. By rotating the rear guide pin the operator can match the radius of any round pcb to all 3 points. Placing the tab between a guide pin and the router bit allows the tab to be moved into the bit for clean board separation.

Router Bits 1/32" 3/64" 1/16" 3/32" 1/8"

01-0100R Router

01-0031R .0313" Dia. Milling Fishtail Router Bit 1/32

01-0047R .0469" Dia. Milling Fishtail Router Bit 3/64

01-0063R .0625" Dia. Milling Fishtail Router Bit 1/16

01-0094R .0937" Dia. Milling Fishtail Router Bit 3/32

01-0125R .1250" Dia. Milling Fishtail Router Bit 1/8

Dust Extraction Vacuum
PN 00V-100N



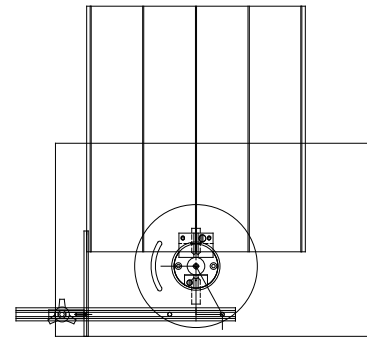
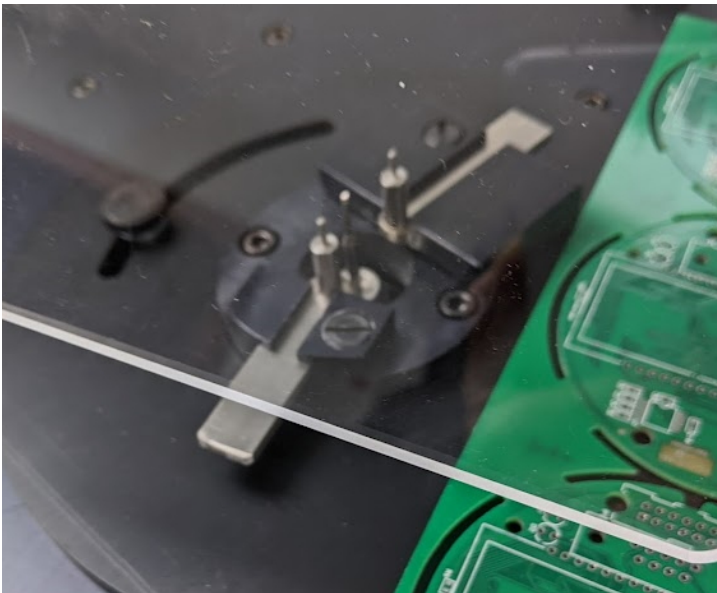
Router bit and guide pins



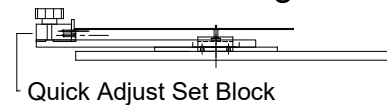
Tooling for round and rectangular panels

The R100 is available with a universal tool set.. The standard tool set is a round plate with adjustable front and back positioning guide pins which can be set to singulate straight or round tab routed panels.

To help guide panels with tabs in one horizontal or vertical row, a T Square edge guide can be quickly aligned to the edge of the panel to steady the board as the tab is brought past the router bit for separation.

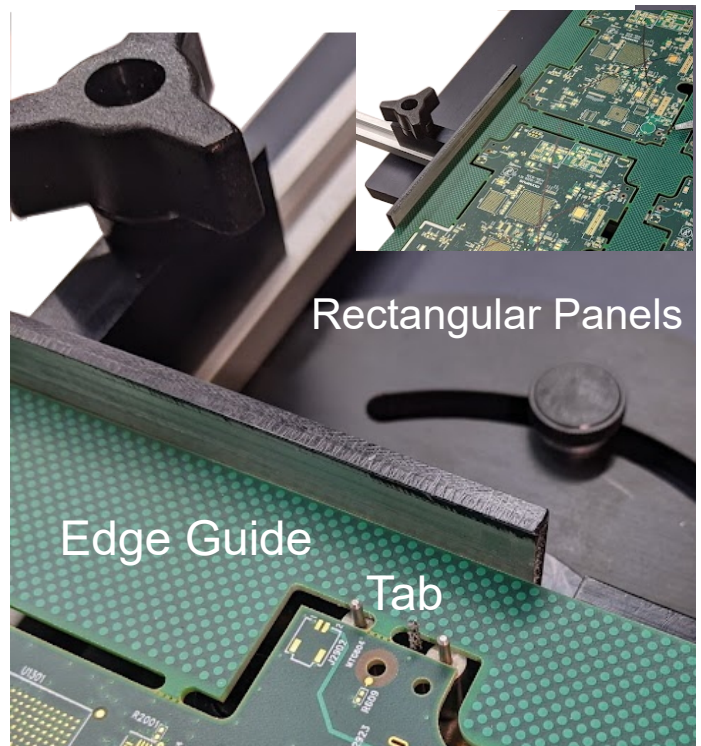
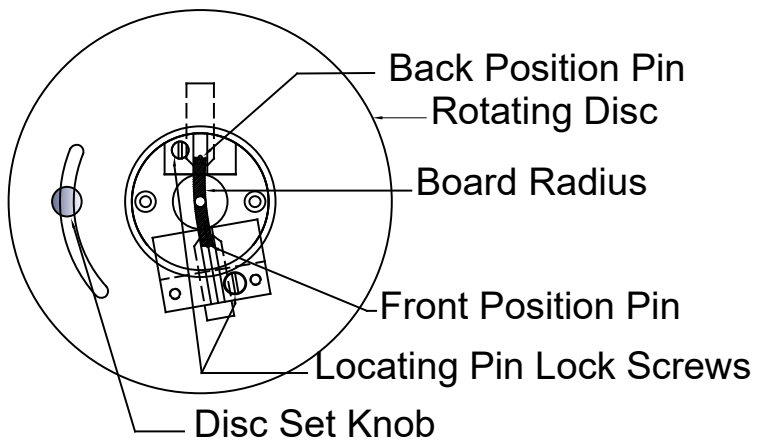


T Slide Board Edge Guide



Quick Adjust Set Block

Round Panels



Rectangular Panels

Edge Guide

Tab

Components



Foot Pedal

Router Bits

Part No.	Dia.
R100-2120-0938.395F	.0938" 3/32
R100-2120-0625.255F	.0625" 1/16
R100-2120-1250.500F	.1250" 1/8



Guide Pin Blocks



PN. 02045R

Safety Shield