

Compact PCB Singulator for Close Component Spacing.

K7000 Singulates panels with components up to .030" apart.

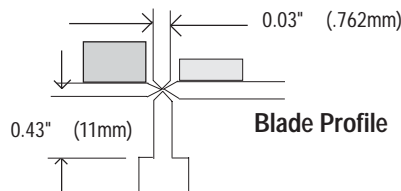
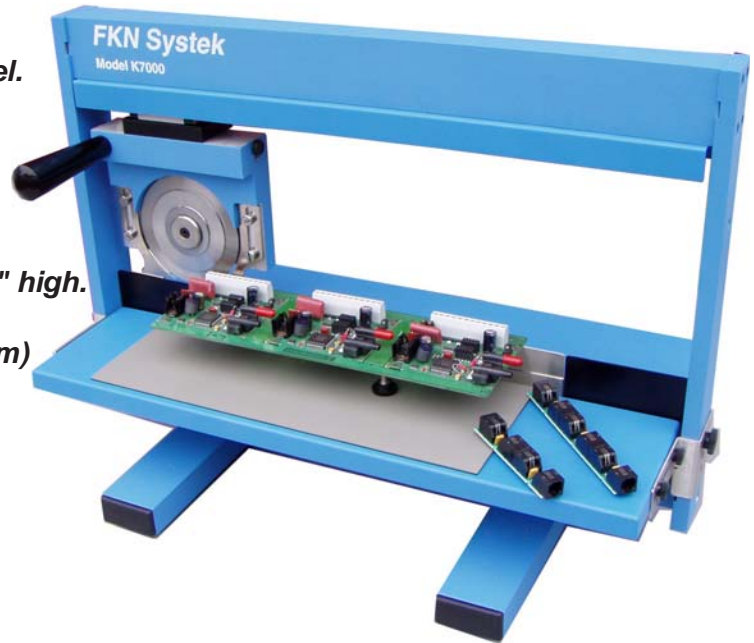
Blades Made of Long Lasting High Speed Steel.

Linear Blade 12" (305mm) long.

Front and Back adjustable work table.

Singulate Panels with Components up to 2.25" high.

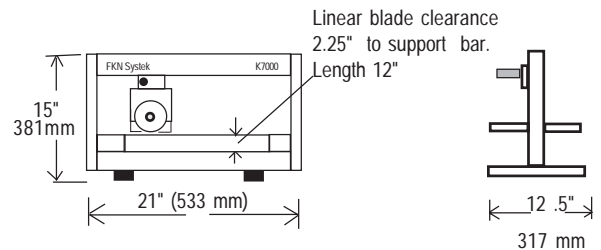
Linear and circular blade profile 0.03" (.762mm)



The K7000 is a circular linear blade depanelizer developed to singulate prescored PCBs with very tight component spacing. The linear blade is 12" (304mm) long and has a .030" (.762mm) thin symmetrical cutting edge designed particularly for PCBs with closely spaced components.

The circular blade is 3.8" (71mm) in diameter and has the same cutting edge profile as the linear blade. (.030".762mm) This blade is mounted on a round shaft with the center line of the cutting blade passing directly through the middle of the support bearing.

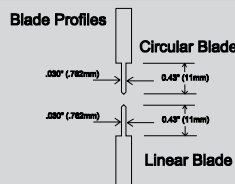
Because the cutting edge of both the circular and linear blades are centered down the middle of the blade, the blade will pass down the center of the scored section with equal displacement on each side.



Setup and Operation

Set the machine on a clean well lit workplace, remove the blade carriage holding screw and check to see that the blades are adjusted to the correct cutting depth. Set blade guards to just clear the score-line. Place the PCB scoreline onto the linear blade and pull the circular blade carriage across the scoreline to cleanly singulate into individual panels.

| Order Information | |
|-------------------|------------------------------|
| 99-7000K | 12" Linear Blade depanelizer |
| 99-7001 | Circular blade |
| 99-7002 | 12" Linear Blade |



Specifications

Size: HWD 16x21x13" (392x533x330 mm)
Weight: 20 lbs (9.6 kg)

Placement of components to edge.

- > .04" (1mm) for standard components
- > .08" (2mm) for sensitive components (ie. ceramic chip capacitors.)

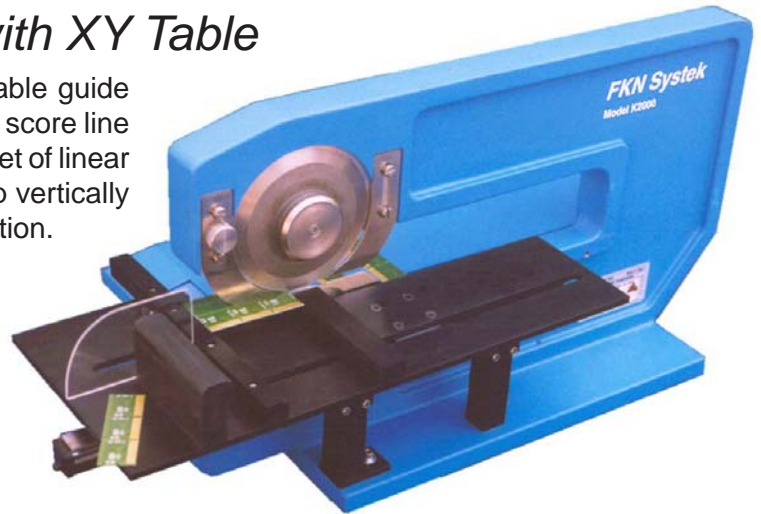
Recommended Scoring Depth

- > .012" < .027" 25° V Score
- > .3 mm < .7mm

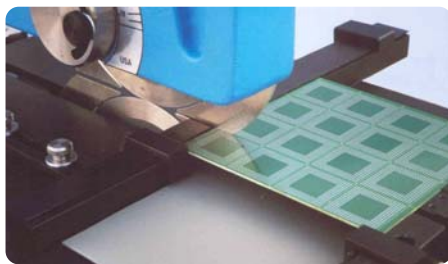


Circular Blade Depanelizer with XY Table

The operator places the panel on a set of adjustable guide rails and brings it forward to a board stop to set the score line on the cutting plane. The X table is mounted on a set of linear bearings to accurately keep the pcb panel lined up vertically and horizontally for safe and precise panel singulation.

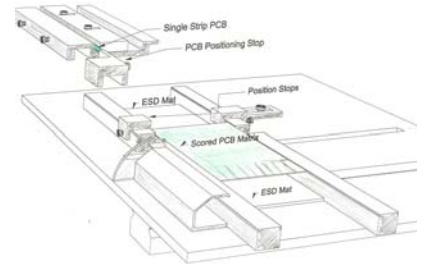


Standard XY Table with Guide Rails and Board Stop.



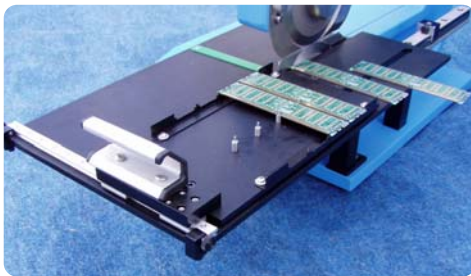
XY Depaneling for PGA Boards

Singulating PGA Boards (or other small xy matrix PCBs) is made easy with separate tooling to guide the singulation from the rectangular matrix, and to help locate the single strips which result from the first operation.

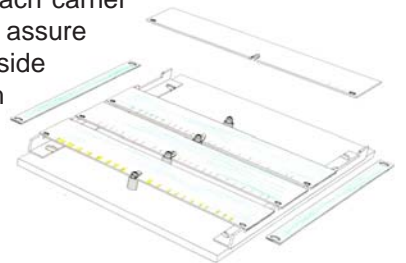


Panels as small as .25" X .5" can be set on the guide rails of the strip block for clean and simple singulation from the scored grid.

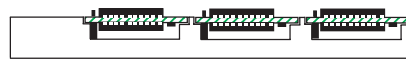
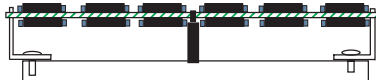
Safely singulate edge strips on SIMM cards in one setup.



One row of tooling pins for exact board location and a set of adjustable side support rails make the singulation of edge strips from SIMM cards a quick and clean process, with minimal operator board handling. The operator simply places the SIMM card matrix onto the base plate which can be moved to the right or the left of the cutting blades to singulate each carrier strip in one step. Adjustable tool plate stops assure the exact placement of the base plate. The side support rails can be set to avoid contact with any components on the card.



Support rail profile



More ways to singulate Printed Circuit Cards



R100 Benchtop router
for tab routed panels



K5000 Multiple blade singulation
For high volume pre-scored
panel production.

