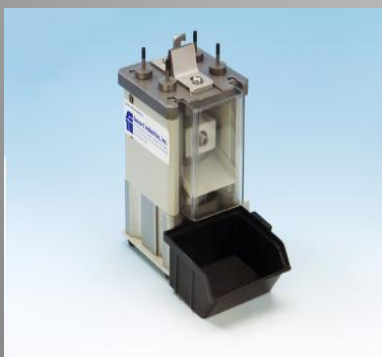




fancort industries, inc.

Fancort Presents PCB Depaneling Solutions for Scored or Tab-Routed Panels





Why select Fancort as your depaneling vendor?

1. More choices of machines for scored or routed boards
2. More factory support after purchase
3. Quick turnaround on blade re-sharpening
4. Engineered solutions to challenging applications



VPD2-400



- Separate scored boards up to 16" in length
- Motorized upper knife with variable speed motor
- Guides on front for easy feeding
- Rugged aluminum casting
- Knives can be re-sharpened
- Foot switch operation



VPD3-1M



- Separate scored boards up to 18" in length, and from .032" to .100" thick
- VPD3-1M-600 separates panels up to 24" long
- Safely separate as close as .040" from score line
- Manually slide round knife along linear knife
- Adjustable stops on both ends
- Tables angle to discharge finished boards
- Heavy duty steel frame, weighs 80lbs
- High quality linear bearing used in round knife to maintain alignment with linear knife
- Knives can be modified for clearance on parts along the score line
- 24" model available as a custom
- Knives can be re-sharpened; 3 day turnaround



VPD3-1



- Motorized model separates panels up to 18"; 24" model available
- Program cut length and speed
- Light curtain for safety
- Other features same as VPD3-1M
- Foot switch operated; 110V



VPD5



- Two linear knives with powerful pneumatics and cam action
- Separates boards with parts as close as .020" (.5mm) from score line
- Operator "goof proof" and totally safe; blade gap set to thickness along score line
- VPD5-330 separates panels up to 330mm
- Pneumatic with foot switch
- Handle boards from .030" to .100" thick



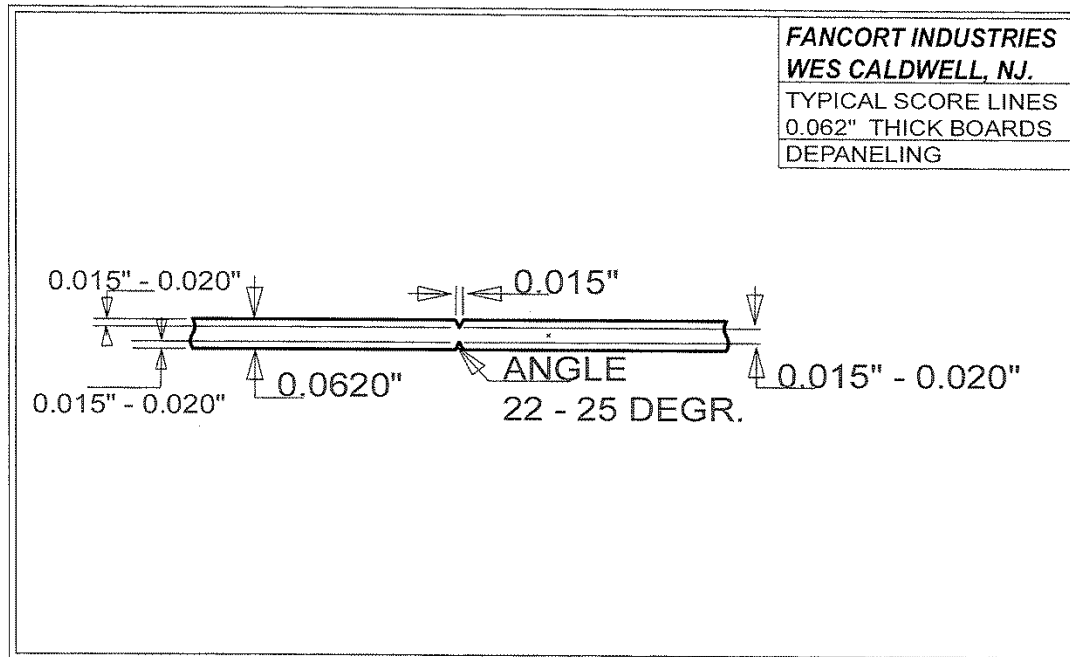
VPD5 for Metalized Boards



- Powerful pneumatics and cams allow this machine to separate FR-4 and most metalized boards up to .100" or more depending on depth of score lines
- Two models: VPD5-330P for panels up to 330mm and VPD5-500P for panels up to 500mm
- Open ends allow for processing panels of unlimited length
- Score line top and bottom must be perfectly aligned and score depth should be 25-30% of total board thickness to work properly and ensure longer wear on the knives



Recommended Score Line





Stress and Depaneling Scored Boards

Machine:	Safe Distance from score line:
VPD2-400 (Pizza Cutter)	.060"
VPD3-1 or 1M	.040"
VPD5	.020"



NTR-2



- Single knife tab removal handles PCB thickness to .125"
- Standard knife measures .600" in length; blade thickness available from .030" to .125"
- Standard knives remove tabs up to .240" in length
- Change knives in less than two minutes; hardened tool steel
- Four moveable magnetic posts to support the PCB
- Scrap collector
- Pneumatic operation with foot switch



NTP-2



- Remove tabs that are in hard-to-reach spots like corners, or tabs that are too long for the NTR
- Dual cutting blades with tooling pins to accurately locate the board
- Blades cut along the edge of board and tab
- Standard blade length of .312"; customs available
- Board capacity of 9" depth; board thickness max of .100"
- Pneumatic with foot switch operation



Desktop Router with Dedicated Fixtures



- Three robot models with working area up to 17.5"x 19.5"
- Powerful vacuum system collects dust and debris
- Easy to program with teach pendant, and very low maintenance
- Dedicated fixtures
- Extremely low stress; ideal for small, densely populated boards, round or odd-shaped boards
- Optional light curtain or full enclosure



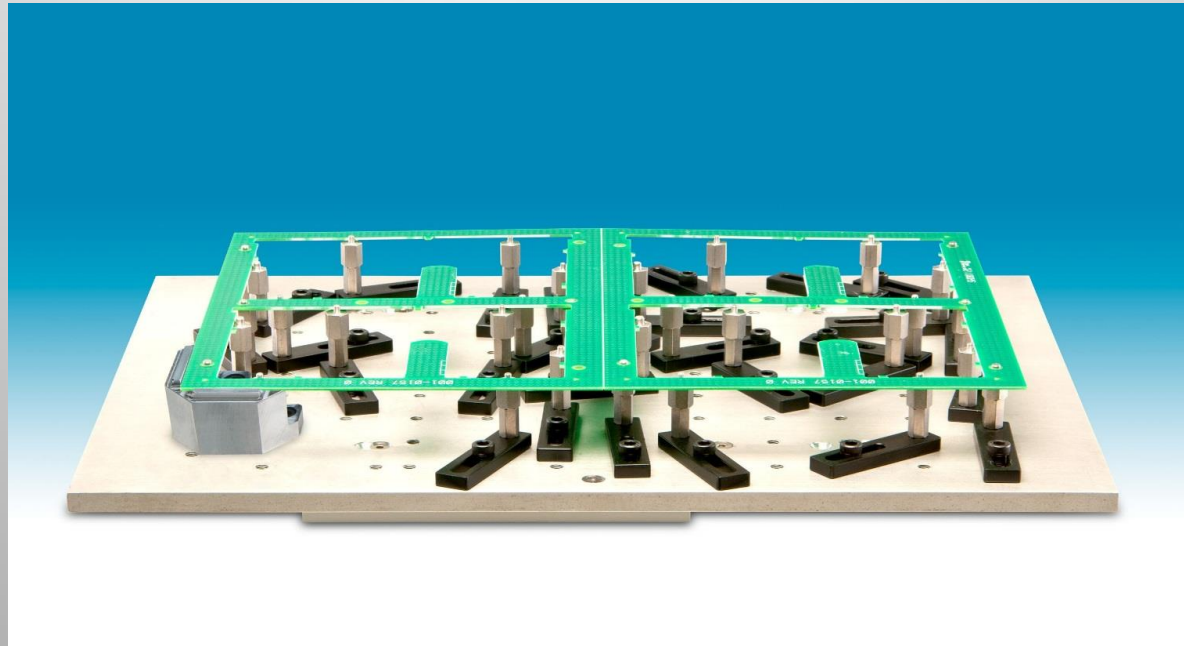
Desktop Router with Adjustable Fixture



- Debris is pulled up and drawn through a vacuum system around the spindle motor into a reservoir
- Uses dedicated fixture or new adjustable fixture
- Three models up to working area of 20" x 20"
- Easy programming and maintenance
- Spindle motor load indicator to monitor wear on router bits
- Comes with clear plastic shield or optional enclosure with light curtain



Adjustable Fixture



- Consists of master base plate to fit robot base with holes tapped on one inch centers
- 40 removable post supports attach to the base that can be moved in an arc to position the posts in the routed slots
- Removable posts are turned down at the end to a diameter that fits into the routed slot

Punch Press System



- Ideal for high volume tab removal-removes all tabs in one cycle
- Semi-automatic sliding base retains lower die for ease of loading and unloading
- Two hand safety controls move the bottom into position to cycle and returns after press cycles
- Four models available from 4 to 8 tons with different working areas up to 460x320mm
- Upper and lower die, nest and punches designed and built for each application

Safety Options for Router



Two options for safety:

- 1. Full enclosure on the left with safety interlocks and vacuum system in bottom section, or**
- 2. Light curtain on three sides shown in right illustration; enclosure with light curtain is also available**



Information we need to help you for prescored boards

1. Panel thickness_____
2. Overall size of panel_____
3. How many boards per panel_____
4. Daily production requirements in panels_____
5. My primary objective is:
 - a. Just starting to singulate panels_____
 - b. Need to upgrade our depaneling_____
 - c. Need to increase throughput_____
 - d. Reduce or eliminate stress to prevent damage to components_____
 - e. Other_____

****If a sample, photo or drawing of your application is available, Fancort will make recommendations on machine type along with feedback**