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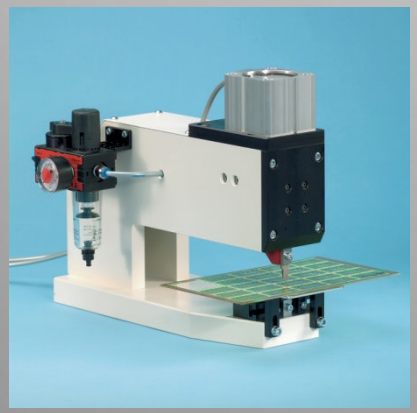
Fancort Presents PCB Depaneling Solutions for Scored or Tab-Routed Panels



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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

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NTG-4A

- Separate scored boards up to 15” in length
- Motorized upper knife with reverse and variable speed motor
- Guides on front for easy feeding
- Rugged aluminum casting
- Knives can be re-sharpened
- Foot switch operation

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VPD3-1M

- Separate scored boards up to 18” in length, and from .032” to .100” thick
- 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
- Knifes can be re-sharpened; 3 day turnaround

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VPD3-1

- Motorized model separates panels up to 18”; 24 model available
- Program cut length and speed
- Light curtain for safety
- Foot switch operated; 110V

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VPD5

- Two linear knives with powerful pneumatic 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
- Two models: VPD5-330 for 330mm panels; VPD5-400 for 400mm panels
- New model for metalized boards is VPD5A-330
- Pneumatic with foot switch
- Handle boards from .030” to .100” thick

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VPD5A for Metalized Boards

- Powerful pneumatics and cams allow this machine to separate most metalized boards
- Two models: VPD5A-330 for panels up to 330mm and VPD5A-400 for panels up to 400mm
- Score line top and bottom must be perfectly aligned and score depth should be 25-30% of total board thickness to work properly

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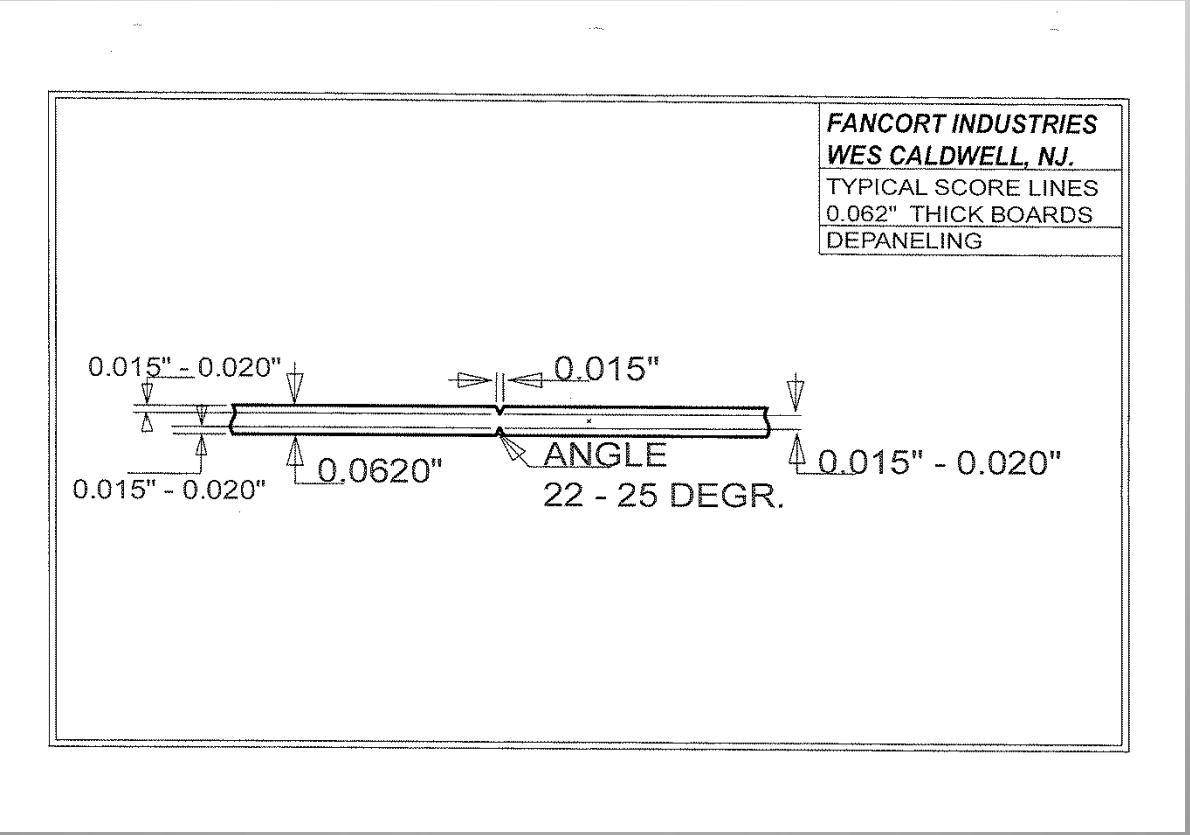
Recommended Score Line



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Stress and Depaneling Scored Boards

Machine:	Safe Distance from score line:
NTG-4A (Pizza cutter)	.060”
VPD3-1 or 1M	.040”
VPD5	.020”

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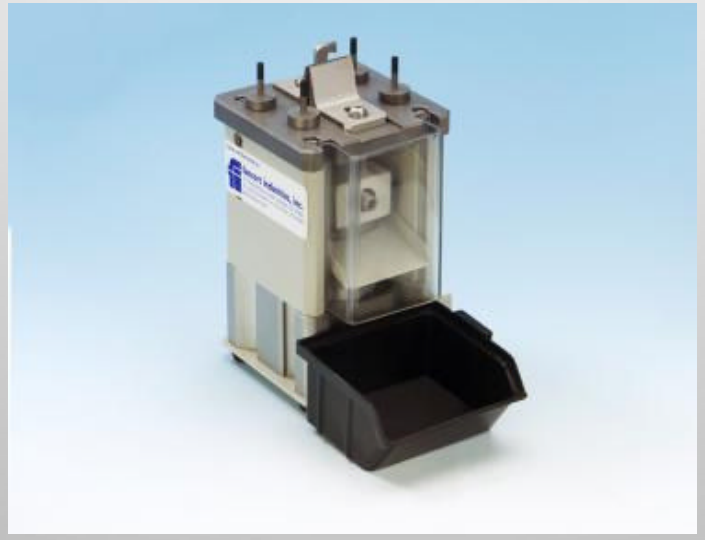
NTR-2



- 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

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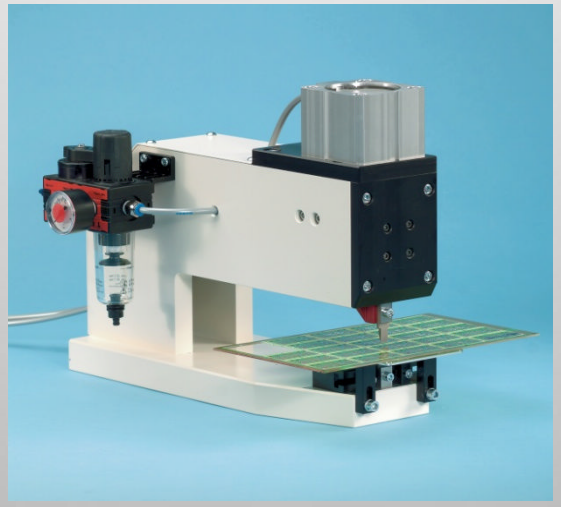
NTP-2



•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

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Desktop Router

- Three robot models with working area up to 20”x20”
- 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

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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

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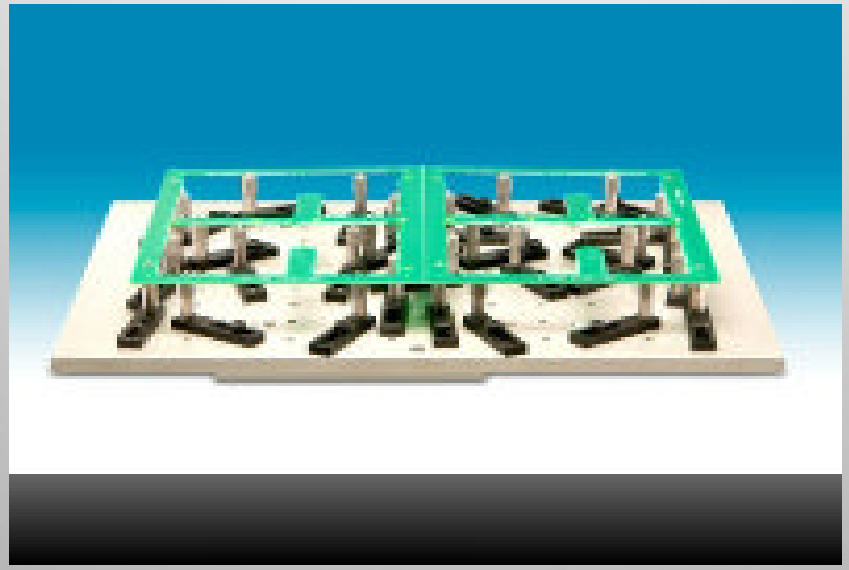
Adjustable Fixture



•Consists of master base plate to fit robot base with holes tapped on one inch centers
•25 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

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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

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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

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Information we need to help you for tab-routed boards

1. What is panel thickness_____
2. What is overall size of the panel_____
3. How many boards on the panel_____
4. What is the width of the slot the tabs where the tabs are located_____
5. What is the length of the tab
6. What is your daily production requirement in panels_____
7. Does the panel contain odd shaped boards eg round_____
8. My primary objective is:
   a. Just starting to singulate boards like this_____
   b. Need to upgrade my depaneling process_____
   c. Need to increase throughput_____
   d. Need to reduce stress from tab edge and prevent component damage_____
   e. Other_____

* If a sample, photo or drawing of your application is available, Fancort will provide a recommendation on machine type and feedback.