

Pentagon EMS offers *ESD safe* Matrix Trays for SMT components for which no standard JEDEC tray exists. These trays allow SMT parts to be presented to and picked up by placement machines in situations where tape and reel presentation is not an option. Pentagon's Matrix Trays are also useful for component bakeout applications.

- Allows SMT parts to be picked up in a repeatable fashion when tape and reel is not an option
- Provides pick and place SMT package presentation solution for components for which no standard JEDEC tray exists
- Useful for component bake-out
- ESD safe composite material
- Usability Guarantee





Provide *maximum support* of the PCB through the screen-printing process using Printer Support Plates from Pentagon EMS. The solid PCB support provided by these plates *ensures accurate, repeatable results*.

Vacuum-compatible designs are also available if needed for your application.

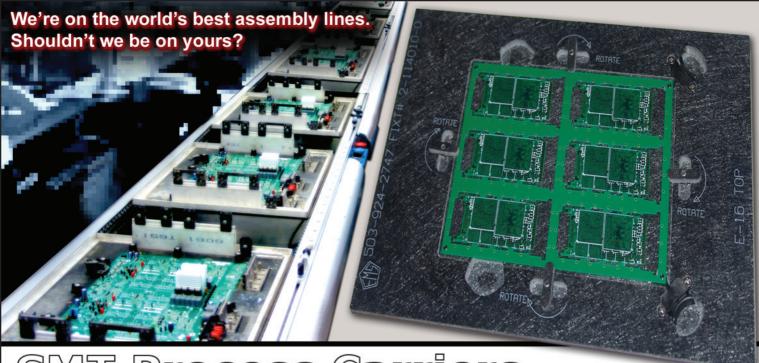
Pentagon Printer Support Plates are machined from your choice of either ESD composite or aluminum.

- Provides maximimum support to the PCB during the print process
- Ensures accurate, repeatable results
- Vacuum system compatible if needed
- ESD composite or aluminum construction
- Usability Guarantee







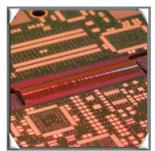


SMT Process Carriers

Increase accuracy and repeatability in your surface mount operations. SMT Process Carriers are necessary for processing any type of flex or rigid-flex circuitry and also makes it possible to process odd shaped PCB's or circuit boards that have components placed close to the board edge.

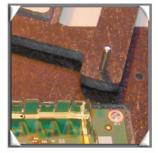
SMT Process Carriers from Pentagon EMS are designed to support the PCB without interference through each step of the surface mount process. Our flush mounted PCB holddowns will not interfere with any printing or placement operations. Our SMT fixtures are also designed to reduce the maximum amount of thermal mass possible so they will be as transparant to the process as possible.

- Required for rigid-flex and flex circuit processing
- Process odd-shaped PCB's
- Process PCB's with components close to the edge of the board
- Flush-mounted PCB holddowns
- Designed to support the board through printing, placement and reflow
- Options available for securing topside or bottomside components through reflow
- Usability Guarantee

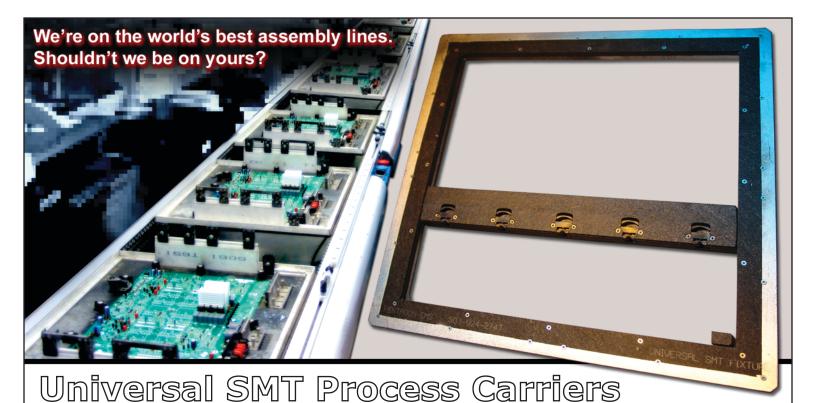












Process a wide variety of board shapes and sizes with a single fixture. Pentagon EMS Adjustable Surface Mount Pallets also allow processing of PCB's that have components located to close to the board edge to be run on the conveyor on their own.

These Adjustable Process Carriers are designed to *easily adjust to the width of the PCB*. In addition, they can be designed to accommodate either one or two user-specified PCB thicknesses. A *fully adjustable z-depth design* is also available if you prefer.

All styles of adjustable process carriers are designed with our *flush-mounted PCB holddowns* to permit processing through printing, placement and reflow without interference.

- Adjusts easily to PCB width
- Can be designed to accommodate one or two user-specified PCB thicknesses
- Fully adjustable Z-depth styles available
- Process a variety of PCB sizes and shapes with a single fixture
- Process PCB's with components close to edge
- Flush holddowns will not interfere with screening operations
- Usability Guarantee
- Rewards Program

