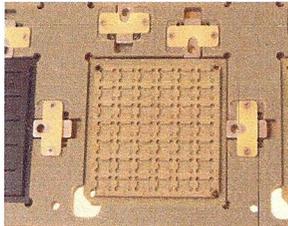
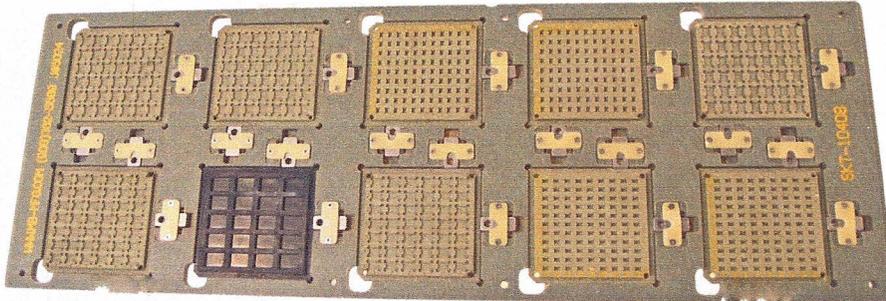


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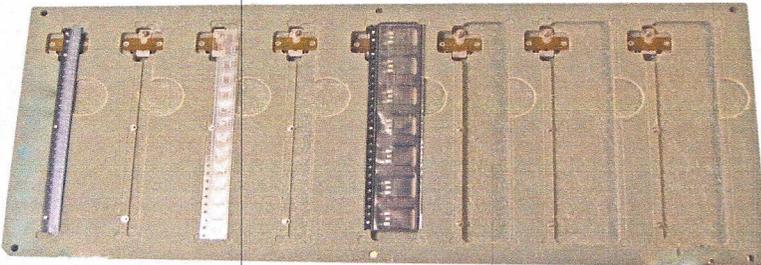
## MB Manufacturing August Newsletter

### SMT Pallets

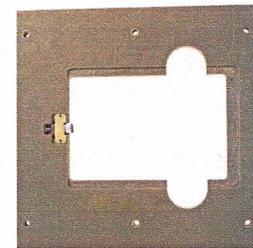
MB Manufacturing now introduces products to reduce setup time, eliminate manual labor, and improve cost effectiveness in SMT productions lines. We've covered everything from quick setting templates to set support pins for boards to trays that will hold small pieces of tape for prototype production in pick and place. MB Manufacturing dedicates this month's newsletter to our wide variety of surface mount carriers.



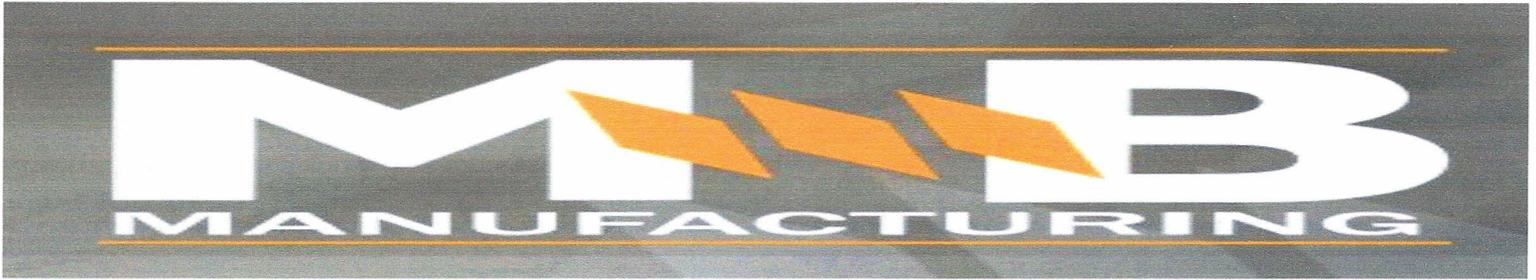
Pictured above is a Jedic matrix tray. This tray holds standard 2"x 2" inserts. The inserts are made of either molded plastic or custom machined composite. They hold and locate down to case size # 0603 parts. Each tray holds ten 2"x 2" trays. As many as 99 parts can be located in each of the 10 trays, depending on the package size. Each small tray is built to all standard package sizes and all are spring loaded, as pictured left, for easy removal.



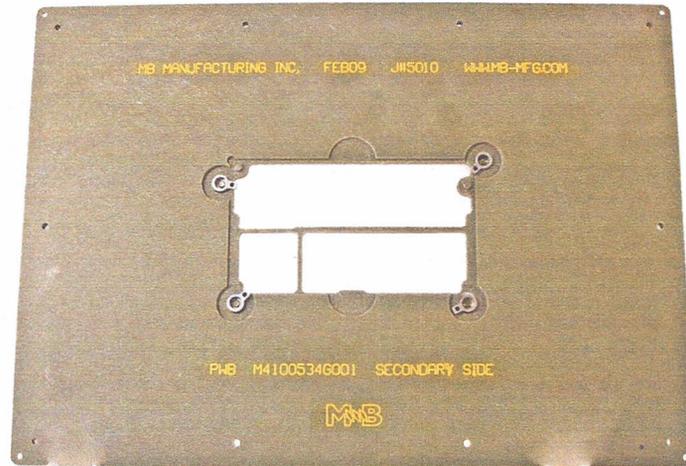
The above pallet is a partial tape locator tray. Such pallets are useful to customers who receive kits for prototypes or small production runs. It is a standard Jedic sized tray that can fit up to eight lengths of tape at a time. It is compatible with all standard package sizes, and will hold tapes between 2.5" and 4.25" long. This versatile tray is easily loaded into pick and place for component placement.



This surface mount carrier has two fixed pins and one adjustable spring pressure slider.



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This picture depicts a Surface Mount Carrier with two fixed pins and four spring loaded hold-down clamps. What makes this fixture unique, is that everything on the fixture is either flush or below the PCB for screen printing. It is also quite easy to use. The operator simply pushes the pallet down to release the spring loaded clamps in up position, turn them onto the board, then can run it through pick and place and reflow with the confidence that the board is held down firmly. This pallet is ideal for warped and/or thin boards to prevent bowing. The maximum height of the clamps on this board after screen printing is only .1" above to clear for pick and place.

We also have available clear plastic templates for locating support pins in screen printing and pick and place equipment. This allows customers to quickly set up and run repeat jobs and prototypes. The average operator can spend up to 30 minutes to find dead space on the board for pins; our fixtures greatly reduce that setup time.

Thank you for taking the time to read about just a few of the products that we offer. The pallets depicted in this newsletter are only a small example of the wide spectrum of SMT fixtures we have made. We customize our designs to fit your pcb's specific needs.