



Abstract

Multi-Package Conversion Kit for a Pick and Place Handler

The present invention provides a kit and method for package-to-package conversion of a pick and place handler. An input arm assembly is provided with interchangeable vacuum leads such that package-to-package conversion only requires replacing the vacuum lead with a different size vacuum lead. An input/output shuttle plate is provided comprising a block and base plate. The block has a plurality of pocket groupings and a two or more alignment hole groupings. The base plate has two or more alignment pins. Package-to-package conversion is achieved by changing which alignment hole in each alignment hole grouping is set on the alignment pins, thereby selecting the pocket in each pocket grouping corresponding to the alignment hole used. A soak plate is provided having an array of pocket groupings, wherein each pocket grouping has the same pattern of different size/shape pockets to accommodate different packages. Package-to-package conversion is accomplished by programming an offset to the desired pocket in each pocket grouping. An test arm assembly is provided with interchangeable vacuum leads and interchangeable nest pieces such that package-to-package conversion only requires replacing the vacuum lead and nest piece with a different size vacuum lead and nest piece. (Fig. 5)