

AUTOMATIC MULTIPLE SORTING APPARATUS FOR
INTEGRATED CIRCUIT PRODUCTS

ABSTRACT OF THE DISCLOSURE

An automatic sorting apparatus for automatically carrying out the feeding, pick-up, and removal of integrated circuit (IC) packages, of various types, of monitoring burn-in tester (MBT) boards in an MBT process while sorting those packages in accordance with grades. The apparatus includes a board loader and a board unloader arranged at one side end portion of the apparatus body, a direct current (DC) rejecting unit, a tray loading unit and DC testing unit arranged on the apparatus body, in this order, adjacent to the portion of the apparatus body where the board loader and the board unloader are arranged, a Y-table arranged on the apparatus body adjacent to the DC testing unit, the Y-table being provided with a turning/returning unit configured to turn 90°, a bin pocket arranged adjacent to the Y-table, a tray unloading unit arranged adjacent to the bin pocket, and a sorting unit arranged adjacent to the tray unloading unit. The sorting apparatus has a configuration using a reduced number of tools, thereby achieving a reduction in costs and weight. Since the sorting apparatus can feed and sort four IC products at one time, it is possible to reduce the sorting time.