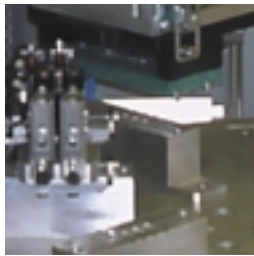


Ceramic Substrate Test Handler

AUTOMOTIVE APPLICATION



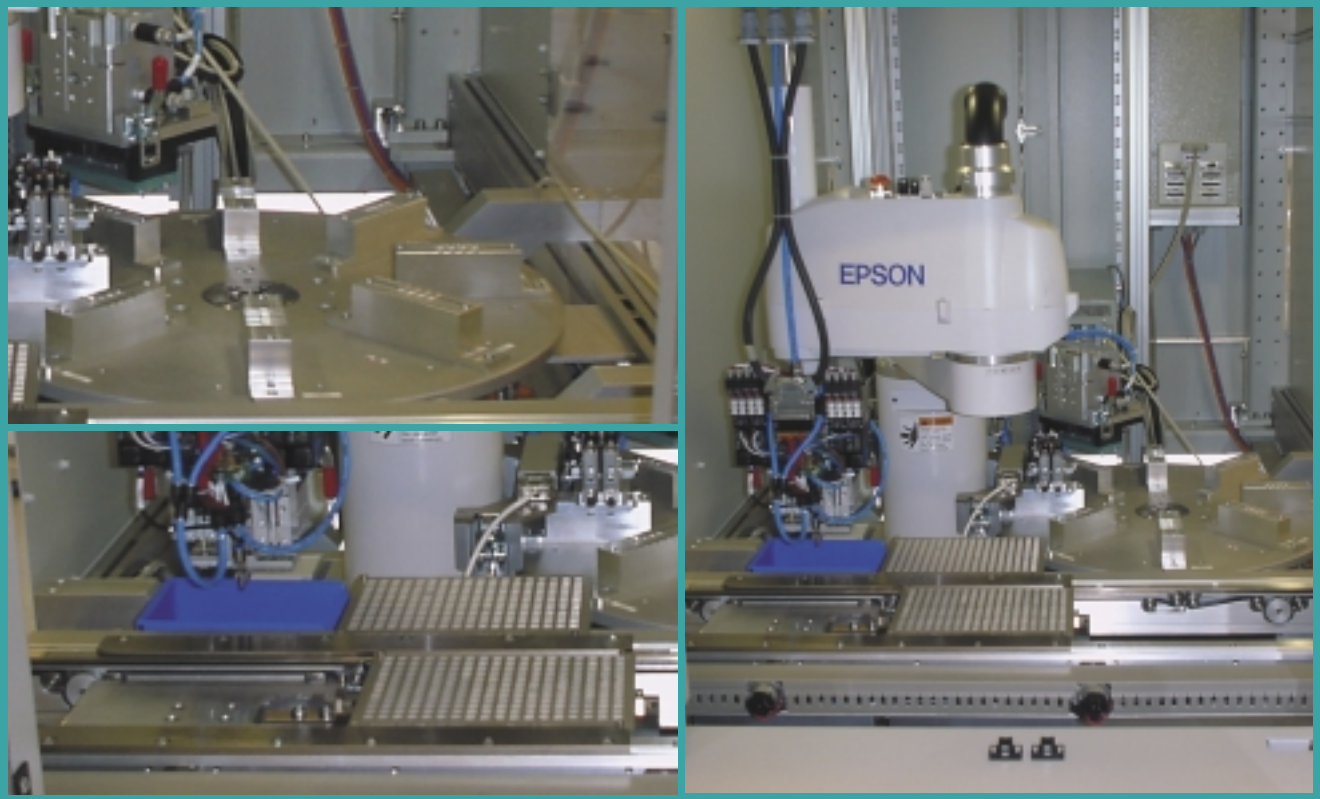
Island automation process pre-testing electronic circuits on a ceramic substrate. The circuits are part of an automotive ignition module. The ceramic circuits of 4 x 5 mm are supplied in matrix trays of 12 x 18 products on edge conveyor. A tray enters the cell and is positioned. A gripper with 4 vacuum nozzles picks up 4 circuits at the time and places them into a quadruple test nest on the indexed turntable. The turntable accommodates 8 nest positions allowing multiple process possibilities: preheating, functional testing and good/bad board marking. After indexation the filled nest is forwarded underneath the multiple test head where the products are contacted and tested. The test results are exchanged between the test systems and the test handler followed by good/bad board marking and sorting of the circuits. At the load/unload position the circuits are taken out of the nest and are sorted to be dropped in the reject tray or to be placed back in the original tray. Finally the replenishment process takes care that a full tray with good tested circuits leaves the cell.

- Pick & Place
- Pre-Heating
- Contacting
- Testing
- Board Marking
- Sorting



EXPERTS IN FACTORY AUTOMATION

Ceramic Substrate Test Handler



Equipment

- BAT-1000 Pick & Place Cell
- 2 Buffer positions, Epson Scara robot and indexed turntable

Facts

- Cycle time: 5 sec per nest each carrying 4 circuits
- Accuracy: < 100 micron
- Up-time: 80 %
- Yield: > 97 %

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