

## AccuPlace offer solutions for placing flex circuit assembly with adhesive

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Flex Circuits provide various advantages for electronic product manufacturers because of the performance, space, weight, and flexibility advantages they offer. Assembling them into the electronic product causes some challenges to the manufacturers: to benefit completely from the flex circuit's advantage, assembly has to be done not only accurately and fast but often also in a three dimensional shape.

AccuPlace provided a solution to the market where the flex circuits are assembled in +/- 0.2 mm accuracy onto their housing – in 3 dimensions. To assemble them, 7 small double sided adhesives are used. The converted adhesive is fed into the gantry robot and peeled off by a complex chuck – vacuum system which handles all 7 pieces at the same time. First the machine picks up a populated flex circuit and then peels with the flex circuit the adhesive array. After the flex with adhesive is manipulated into a prescribed shape, the machine then moves the subassembly to the metal shield located in a tray, the actuator lowers and places the flex with adhesive into the shield, spreading out and placing in different X, Y, and Z dimensions. The flex circuit assemblies and housings are provided on a tray. The machine reached a cycle time of 15 sec. per subassembly.

This standard solution is one example of automation of this process. The gantry robot can be carried out as a standalone version with a dual tray shuttle system or inline with a conveyor system to minimize involvement of human resources.



AccuPlace provides standardized solutions for automated assembly of adhesive components. We have more than 150 man-years of experience solving thousands of adhesive placement applications in the mobile communications, computer & peripherals, automotive, industrial, and medical device market segments worldwide.



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