

Case Study:RFID Inlay Solution

A large pharmaceutical manufacturer wanted an RFID inlay integrated with the label of their product that would work seamlessly with the current hospital's RFID System. The RFID tag would enable the automations of inventory and replenishment processes, provide cost benefits and workflow efficiencies to the hospital systems that competitors are currently not providing.

The current RFID product offered to the pharmaceutical company was a flag label which would force them to redesign and re-qualify their entire label, costing time and money. CCL Healthcare was approached to design a label that could carry the RFID tag underneath the current label, without changing artwork, label size, or any other specification. This posed a serious challenge for CCL Healthcare.

THE CHALLENGE

The traditional solution required a generic flag label to be manually applied and encoded to each vial or syringe by the hospital staff. The company wanted to avoid the secondary process of applying this tag and further error proof the process. The tag designated for this specific project required special handling, programming, and had to deliver hundreds of reads while within close proximity of each other. Furthermore, the Container was a 2mL vial with a label that had little real estate for the RFID Inlay. On top of the size restrictions the RFID Inlay needed to be rotated 90 degrees in order for the antenna to fit properly on the 2mL Vial.

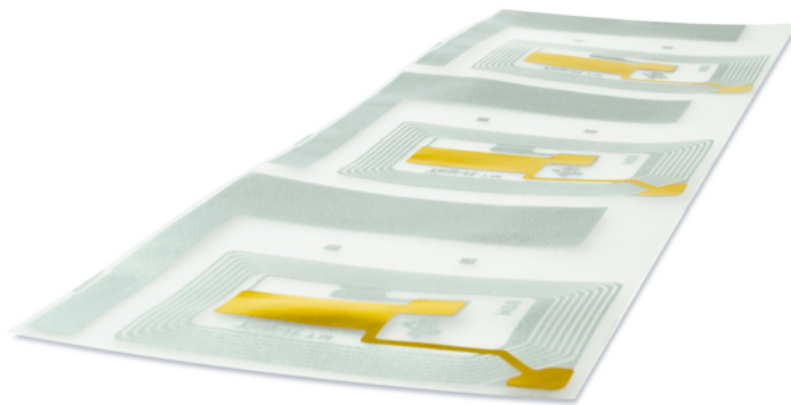
THE SOLUTION

What some see a challenge, CCL Healthcare sees an opportunity. This solution had to be utilized for multiple label sizes including the 2ml vial.

This required:

- Special pitch RFID tag supply
- Inlay rotation - narrow edge leading antenna
- Matching the inlay adhesive to the existing Pharma label
- Application specific programming

CCL Healthcare engineers designed and built custom equipment to rotate the RFID inlays that allowed them to fit behind the small vial labels before further developing new machinery which can rotate tags at a higher volume.



Currently, with their second generation equipment, CCL has rotated millions of inlays in a few short months since the project began. CCL's solution of providing the RFID tag integrated into the label saved the customer from redesigning their packaging, eliminating the entire process of having the hospital hand-apply, and program each tag streamlining the process. Eliminating these processes for the hospital system gave the pharmaceutical company an advantage over their competition allowing them to sell more medicine. This was a win-win for both CCL Healthcare's customers and the hospital system.

Why Chose CCL Healthcare for Your Next project?

CCL Healthcare works with industry leaders in the development of new RFID tags, inlay designs, software and systems integrators to ensure the successful launch of your next RFID project. CCL Healthcare has invested heavily into highly-trained personnel and new custom designed state-of-the-art manufacturing equipment. With our extremely skilled staff, we are able to innovate not only at the product level, but at the machinery level modifying equipment to push the boundaries to achieve what was once not possible yesterday to what is possible today.

For more information:

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