

Material Management Solutions





NeoTech Identity Solutions Pvt. Ltd.

About Us

- NeoTechID is a provider of **Business Automation Solutions** based on AIDC technologies such as RFID, bar-code scanning, biometrics, NFC and smart cards.
- NeoTechID was founded in 2009 with a **Vision** of filling the void between the limited capabilities of hardware resellers and the clients requirement of a total solution approach to their needs.
- We offer **Operations Visibility** and **Process Optimization** through innovative use of AIDC technologies to track various assets, integration of AIDC devices with back-end systems and in-house consulting, to maximize business gains
- We aim to become the most preferred and trusted partner for such solutions by providing **Innovative, Reliable** and the most **Cost-effective Solutions** based on latest technologies that will result in better ROI for our clients



Application and Industry Focus

Industry	Solution
 Jewellery	<ul style="list-style-type: none">• RFID based Automated Stock Counting / Verification Solutions with integration to exiting POS applications / ERP systems
 Manufacturing	<ul style="list-style-type: none">• Warehouse automation and mobility solutions with integration to SAP
 Corporate Offices	<ul style="list-style-type: none">• Fixed Asset Management & Tracking• Laptop / Employee Movement Tracking• IP-surveillance, Access Control
 Custom Applications	<ul style="list-style-type: none">• School Bus and Students Tracking• Event Delegate Management• Laundry Management etc.

Material Management: Challenges

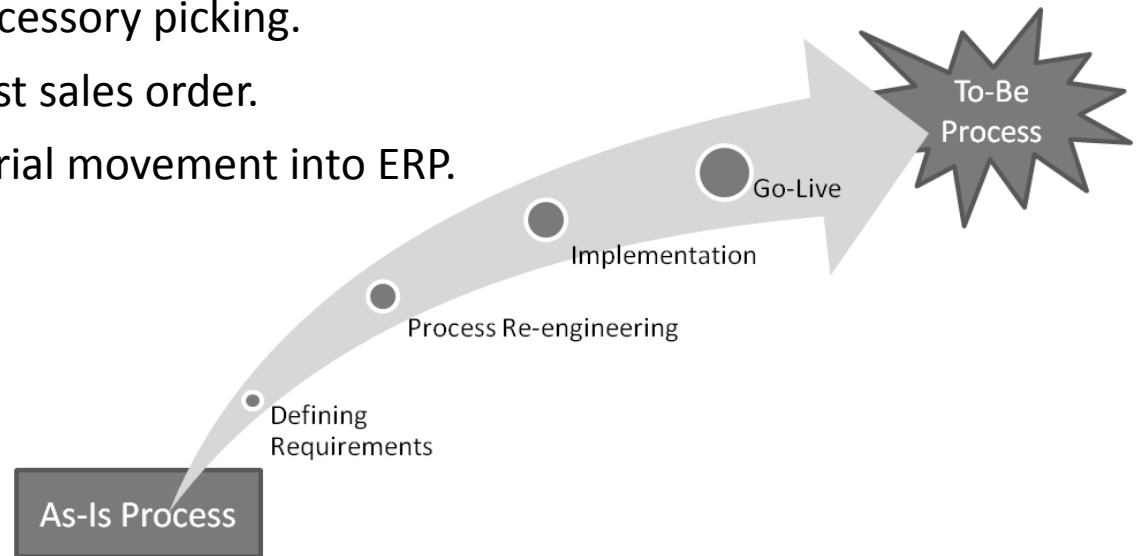
1. Inability to locate raw material on time / incorrect issue of material leading to delays in production
2. Part mismatch at the time of assembly
3. Accessory mismatch at the time of packing
4. Inability to locate finished goods at the time of dispatch leads to eleventh hour production of goods just to meet the dispatch timelines.
5. Dispatch of incorrect material against a given sales order



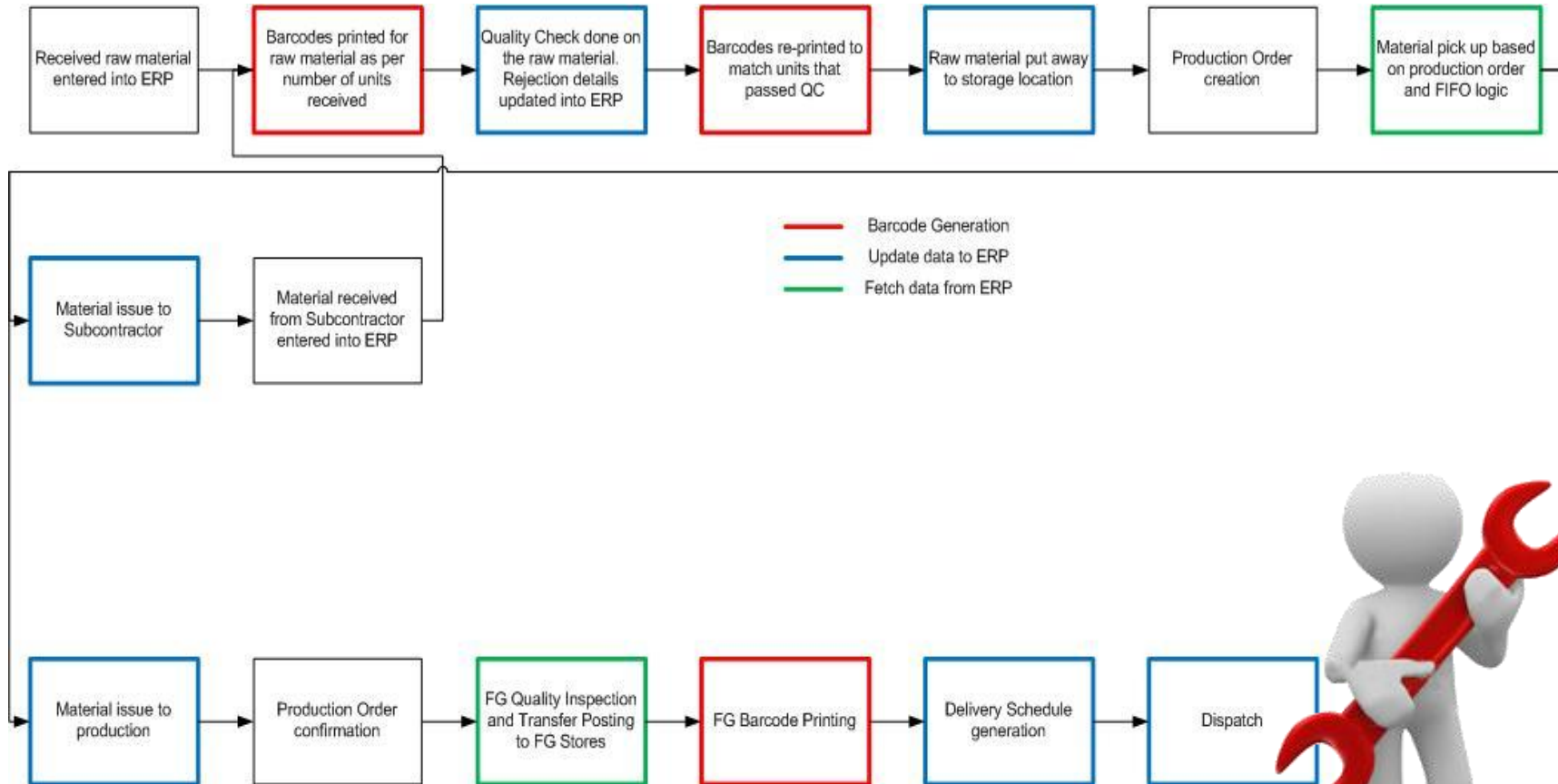
Solution Overview

NeoTechID's Barcode and/or RFID solutions provide the following:

1. Generation of Barcode or RFID tags for raw material at the time of GRN for ease of item identification.
2. Location mapping for all material in the store to facilitate quick and easy pick up.
3. FIFO based pick list generation.
4. Assembly verification against BOM.
5. Pick to light solution for accessory picking.
6. Dispatch verification against sales order.
7. Real time updates of material movement into ERP.



Solution: Process Flow





Material GRN and Barcode Printing

At this stage, material that has cleared the quality check process is entered into ERP and posted as released from blocked stock. All material posted to ERP at this stage is ready to be tagged with barcodes.

- Barcodes are printed based on the Part Number and number of units received as per the total quantity entered in ERP. E.g. If 1 ton of material is physically received as 10 pieces of 100 kg each, then 10 barcodes will be printed for the single ERP entry of 1 ton



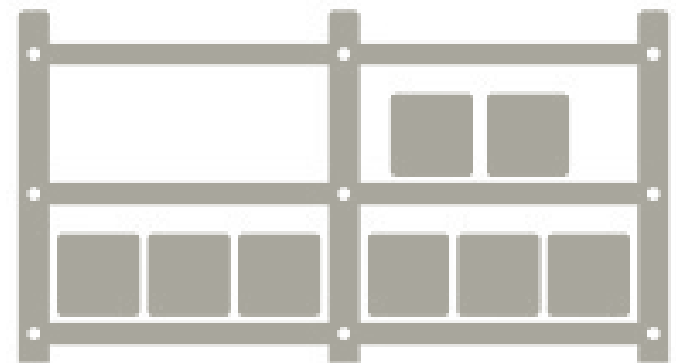
Quality Check

After GRN the material is sent for quality check. Here the quality expert can update rejections into ERP by simply scanning the barcodes on the rejected material. Post quality check new barcode may be printed, if required

Material Put Away

After tagging, the material is put away to its location in the store. Each location will have a barcode of its own which will correspond to its BIN No. registered in the ERP. The put away process will be as follows:

1. The worker puts the material at a location.
2. He scans the location barcode and then the material barcode.
3. On clicking the 'Save' button, the material storage location gets posted to the ERP.

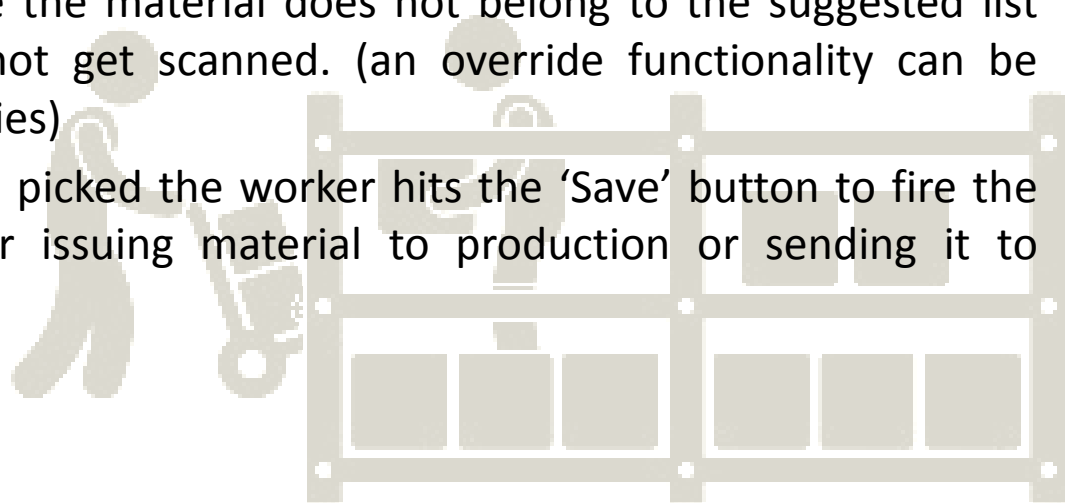


Material Pick-Up

Once a production order is created, the shop floor worker needs to fetch the required material from the store. The pick-up process is as follows:

The worker shall enter the production order into the PDA application.

1. The PDA application fetches a list of the material required for that production order as well as suggests the location based on FIFO logic.
2. The worker locates the material to be picked up and scans the barcode on it.
3. The worker is alerted in case the material does not belong to the suggested list and the picked item does not get scanned. (an override functionality can be provided in case of emergencies)
4. Once all items on the list are picked the worker hits the 'Save' button to fire the required ERP transaction for issuing material to production or sending it to Subcontractor for Job Work.



Process Description

(4/5)

GR After Job Work

After coming back from the job work, the material is re-entered into the ERP and a new set of barcodes are printed for these job works.

Barcode printing for FG/SFG

On completion of production, the operator fires the Production Order Confirmation transaction in the ERP; details of this activity are used to generate barcodes for the Finished and Semi-Finished Goods.

Semi-Finished goods move back to material issue to production stage and continue down the process till they become Finished Goods. The barcodes for the finished goods are printed pallet-wise and pasted on the pallet itself.



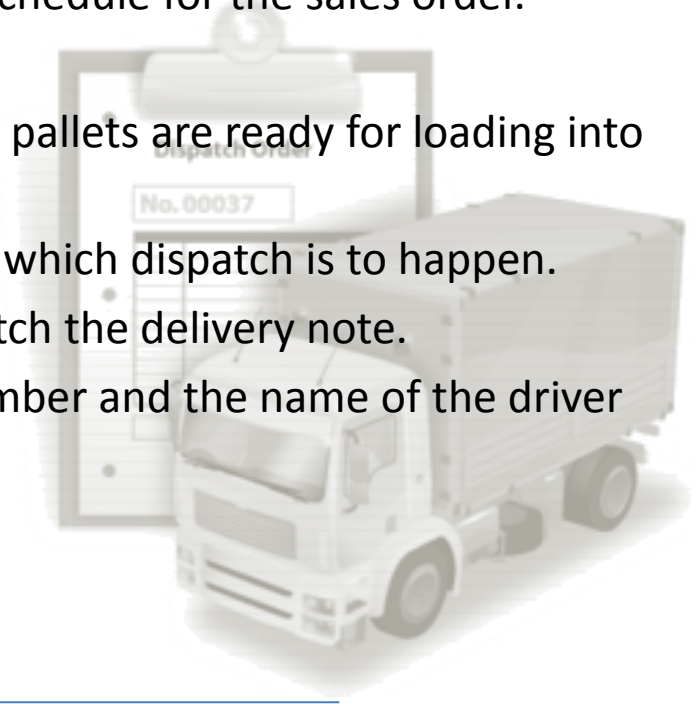
Dispatch

After production the pallets will be sent to the dispatch bay where the operator performs the following tasks:

- 1.He selects a sales order on the PDA.
- 2.He then scans the pallets to generate a delivery schedule for the sales order.

Once the delivery schedule has been prepared, the pallets are ready for loading into the dispatch vehicle.

- 1.The operator will select the delivery note against which dispatch is to happen.
- 2.He will scan all pallets to make sure that they match the delivery note.
- 3.If everything is valid, he will enter the vehicle number and the name of the driver and generate an invoice and loading slip.



Our Value Proposition

- **Expertise in RFID** and practical experience gained through our projects.
- **Knowledge Centers** made up of our IT engineers, advanced equipment, and consultants are able to derive the best solutions for our clients.
- **Support Infrastructure** comprising of software and hardware channel partners help achieve client satisfaction every single time.
- **Focus** on consistently meeting the expectations of our customers and more. We do our level best to offer you a solution that not only meets your requirements but is also cost effective.



Partners



Thank You

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