SRK INNOVATIONS

◇ RFID PALLET TRACKING SOLUTION

Pallet Tracking System

Track Every Pallet. Improve Every Movement.

RFID-powered pallet tracking for real-time visibility, inventory accuracy, and smarter warehouse operations — from receiving to dispatch.

- Real-Time Pallet Tracking
- Automated Inventory Management
- Faster Warehouse Operations
- Reduce Pallet Loss
- End-to-End Supply Chain Visibility

Get a Free Consultation →

Web: www.srkinnovations.com Call: 8411958300 Email: info@srkinnovations.com

SCAN · SEC.02 ▮▮▯▯▯ OVERVIEW

What is a Pallet Tracking System?

A **Pallet Tracking System** is an RFID based solution that lets businesses identify, track, and manage pallets across warehouses, production facilities, distribution centers, and the wider supply chain.

By attaching an **RFID tag to each pallet** and placing RFID readers at strategic points, movements are captured automatically — giving real-time visibility into pallet location, status, and inventory.

The result: less manual tracking, fewer pallet losses, higher warehouse accuracy, and smoother material movement across every operational area.



Real-time pallet visibility across the warehouse

DATA PATH · TAG TO DASHBOARD

01	02	03	04	05
RFID Tag	RFID Reader	Data Capture	Software	Dashboard

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SCAN ▸ SEC.03 ▮▮▮▯▯ CHALLENGES

Common Challenges in Pallet Management

- Manual pallet counting
- Pallet misplacement
- Lost or unreturned pallets
- No real-time location visibility
- Time-consuming inventory audits
- Data entry errors
- Difficulty tracking movement
- Poor multi-location visibility
- Increased operational costs
- Inefficient loading / unloading

Manual pallet management leads to inventory inaccuracies, operational delays, pallet losses, and unnecessary costs.

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SCAN ▸ SEC.04 ▮▮▮▮▯ SOLUTION

Smart RFID Pallet Tracking Solution

SRK Innovations delivers an RFID-enabled pallet tracking solution that automatically identifies pallets and records their movement across every defined tracking point — no manual scanning required.

✓ Unique identification for every pallet	✓ Automated pallet movement tracking
✓ Real-time inventory visibility	✓ Faster stock audits
✓ Reduce pallet loss and misplacement	✓ Automated check-in and check-out
✓ Warehouse movement monitoring	✓ Centralized tracking dashboard
✓ Historical movement records	✓ Customizable reports and analytics

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SCAN ▸ SEC.05 ▮▮▮▮▮ WORKFLOW

How Does the Pallet Tracking System Work?

01

STEP 01

RFID Tagging

Attach a unique RFID tag to each pallet, giving it a permanent digital identity.

02

STEP 02

RFID Identification

RFID readers automatically identify pallets as they pass through designated tracking zones.

03

STEP 03

Data Capture

The reader captures each pallet's unique ID and movement information — hands-free.

04

STEP 04

Software Processing

The RFID software processes and updates pallet movement data in real time.

05

STEP 05

Real-Time Visibility

Managers view pallet status, movement history, inventory, and reports from one dashboard.

Pallet → RFID Tag → RFID Reader → Software → Cloud / Database → Dashboard & Reports

SCAN ▸ SEC.06 ▮▮▮▮▮ HARDWARE

Products Used in the Pallet Tracking System

A complete, integrated RFID stack—from the tag on the pallet to the dashboard on the manager's screen.



RFID UHF Pallet Tags

Give each pallet a unique digital identit y.

USE

Identification, tracking, inventory and movement monitoring.



RFID UHF Fixed Readers

Installed at gates, dock doors, conveyors and production lines.

USE

Automatically detect and record pallet movement.

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ANT-03



RFID UHF Antennas

Connected to readers to create defined RFID read zones.

USE

Improve tag detection and coverage.

HND-04



RFID Handheld Readers

Portable readers for warehouse operators.

USE

Locate, verify, count and audit pallets quickly.

GATE-05



RFID Gate / Portal

Readers and antennas configured as an entry/exit portal.

USE

Auto-track pallets during inbound and outbound flow.

TAB-06



Industrial RFID Tablets

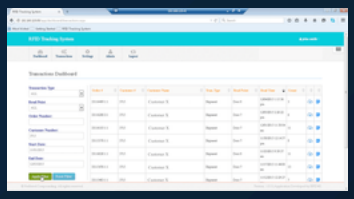
Rugged mobile computers for the floor.

USE

Mobile inventory checks, pallet search and stock verification.

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SW-07



RFID Software

Central platform to manage all RFID data.

USE

Registration, tracking, alerts, reports and analytics.

DASH-08



Dashboard & Reporting

Real-time view of inventory and movement.

USE

Monitor status, location, history and per for mance.

SCAN ▸ SEC.07 ARCHITECTURE

Complete RFID Pallet Tracking Architecture

Pallet with RFID Tag
unique digital identity

RFID UHF Reader + Antenna
captures tag reads

RFID Gateway / Network
routes read events

RFID Tracking Software
processing engine

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Database / Cloud
secure storage

Web Dashboard / Mobile App
real-time visibility

Reports & Analytics
data-driven decisions

◇ TRACKING POINTS ACROSS THE OPERATION

01	Receiving	Inbound pallets identified at the gate
02	Storage	Location & status recorded
03	Production	Movement captured on the line
04	Dispatch	Verified at the RFID portal
05	Transportation	Movement records maintained
06	Delivery	Full chain-of-custody trail

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SCAN ▸ SEC.08 BENEFITS

Benefits of RFID Pallet Tracking

Real-Time Visibility
Know where pallets are and monitor their movement as it happens.

Improved Inventory Accuracy
Capture pallet information automatically and cut manual errors.

Reduce Pallet Loss
Track movement and quickly identify missing or misplaced pallets.

Faster Audits
Run inventory checks far faster than manual counting.

Automated Tracking
Reduce dependence on manual scanning and data entry.

Better Warehouse Efficiency
Improve material movement and warehouse productivity.

Complete Movement History
Keep full records of pallet movement and transactions.

Better Asset Utilization
Identify idle, active, missing, or frequently used pallets.

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SCAN ▸ SEC.09 INDUSTRIES

Industries We Serve

- Manufacturing
- Automotive
- FMCG
- Food & Beverage
- Pharmaceuticals
- Logistics & Warehousing
- Retail & Distribution
- E-commerce
- Chemicals
- Packaging
- 3PL & Supply Chain
- Cold Chain

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SCAN ▸ SEC.10 APPLICATIONS

Pallet Tracking Applications

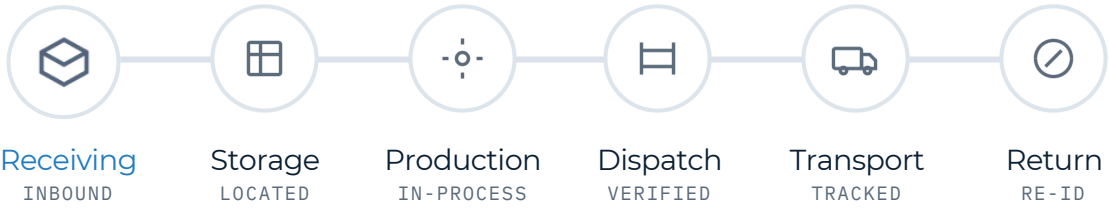
- Inbound pallet tracking
- Outbound pallet tracking
- Warehouse pallet management
- Production line tracking
- Dock door tracking
- Pallet inventory management
- Returnable pallet tracking
- Inter-warehouse movement
- Dispatch verification
- Supply-chain visibility
- Pallet utilization monitoring
- Pallet loss prevention

SCAN ▸ SEC.11 USE CASE

From Receiving to Dispatch — Track Every Pallet

Follow one pallet through its whole life cycle. Tap any stage to see what the system captures.

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Receiving

RFID identifies the incoming pallet the moment it enters the facility no manual check-in.

One pallet. **One unique identity.** Complete movement visibility.

SCAN ▸ SEC.12 ▮▮▮▮▮ COMPARISON

Manual vs RFID Pallet Tracking

Manual Tracking	RFID Pallet Tracking
✕ Manual data entry	✓ **Automated data capture**
✕ Time-consuming audits	✓ **Faster inventory audits**
✕ Higher possibility of errors	✓ **Improved data accuracy**
✕ Difficult to locate pallets	✓ **Easier pallet identification**

Manual Tracking	RFID Pallet Tracking
Limited visibility	**Real-time visibility**
Paper / spreadsheet dependent	**Centralized digital system**
Difficult movement tracking	**Automated movement records**

SCAN ▸ SEC.13 ▮▮▮▮▮ WHY SRK

Why Choose SRK Innovations?

RFID & Auto-ID expertise	End-to-end tracking solutions
Industry-focused implementation	Hardware + software integration
Scalable solutions	Customized work ows
Dedicated technical support	System integration capabilities
Real-time reporting & analytics	

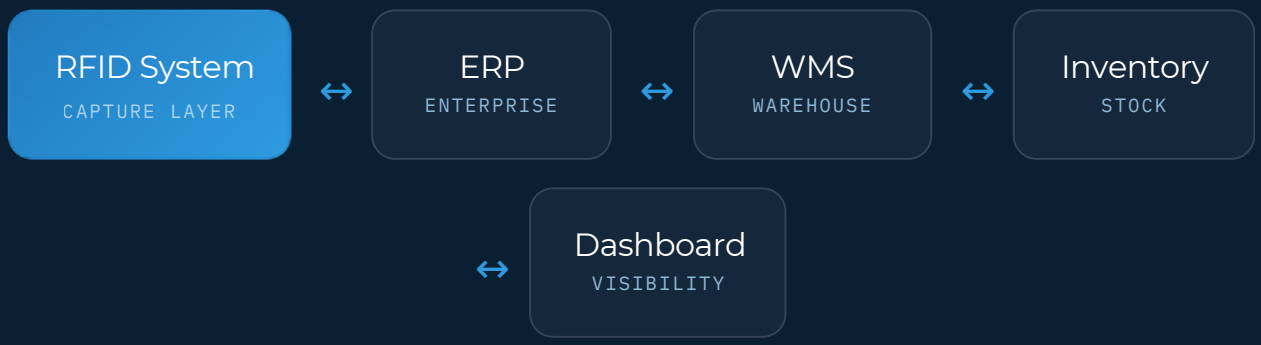
From RFID hardware to intelligent tracking software, we help businesses build smarter, more connected operations.

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SCAN ▸ SEC.14 INTEGRATION

Seamless Integration With Your Existing Systems

The RFID layer connects to the platforms you already run —ERP,WMS, inventory, production, supply chain, and cloud — through APIs and standard integration methods.



- ERP & WMS platforms
- Inventory Management Systems
- Production Management Systems
- Supply Chain Management
- Cloud Applications
- Open APIs & Webhooks

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SCAN ▸ SEC.15 ▮▮▮▮▮ BUSINESS IMPACT

Transform Pallet Management Into a Smarter Operation

Reduce Manual Work
Automate pallet identification and movement recording.

Reduce Operational Delays
Improve receiving, storage, production and dispatch.

Improve Asset Visibility
Know pallet status and movement across all areas.

Reduce Losses
Gain control over reusable and returnable pallets.

Improve Productivity
Free teams from manual counting and searching.

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SCAN ▸ SEC.16 ▮▮▮▮▮ FAQ

Frequently Asked Questions

- What is RFID pallet tracking? +
- What type of RFID tag is used for pallets? +
- Can RFID track pallets through warehouse gates? +
- Can RFID track individual pallets? +
- Can the system integrate with ERP or WMS? +
- Can handheld RFID readers be used? +
- Is the system suitable for multiple warehouses? +

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READY TO DEPLOY

Ready to Track Every Pallet Smarter?

Improve pallet visibility, reduce manual tracking, and optimize warehouse operations with an RFID-powered Pallet Tracking System from SRK Innovations.

Get a Free Consultation →

Talk to Our RFID Experts

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SCAN TO CONNECT