RFID-solution

for logistics

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RFID in logistics

Logistics is an industry for which one of the first radio frequency identification systems was developed. This technology not only extends to the warehouse level, but also allows you to optimize the supply chain as a whole.

When using the integrated RFID system, the product is clearly controlled at all levels of promotion: reception, placement, delivery. The system creates, marks out a new virtual warehouse and adjusts the location of storage locations. The use of RFID tagging of goods facilitates the inventory process.

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RFID Technology Features

- Real-time supply chain management (using web access)

- Optimization of outbound and inbound logistics

- Automation of business processes in a warehouse network

- Organization of a control and management system for warehouse access

- In-warehouse transport equipment navigation

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System operation

Production and shipping of finished products to the warehouse:

Pallets and / or boxes are marked with RFID tags. Shipment is carried out using RFID equipment. The shipping list is generated automatically.

Receipt of commodity units at the warehouse:

Pallets and / or boxes are loaded into the machine through portal RFID readers. The system automatically compares the data of the loaded goods with the bill of lading. The operator sees the lists of loaded and unloaded goods in real time.

Inventory and object search:

A quick inventory and a simple search for a given accounting unit is carried out using a mobile RFID reader. Portal RFID readers provide automatic control of removal / movement of accounting units.

Shipment of goods from stock:

When the shipment is completed, the system automatically generates the necessary package of documents and can print it. When goods are received at the warehouse through portal / tunnel RFID readers, the system compares the goods received with the invoice and informs the operator of errors (if the goods were marked with the supplier).

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Benefits of Implementing RFID

- Increasing supply chain transparency

- Full automation of the processes of identification and control of raw materials / assets

- Online inventory monitoring

- Package control without opening the package

- Automatic generation of shipping documents

- Quick inventory of warehouses and search for accounting objects

- Decrease in the amount of transfer and loss of cargo / return packaging

- Increased operator discipline

- Automatic reporting

- No human factor

RFID tags

Tags for dielectric surfaces :

CandyTag
Sizes: 96x21 mm
Registration range: up to 12,5 m

Tags on metal and items containing electronic fillings :

IT-2
Sizes: 51x28x10 mm
Registration range: up to 3,5 m

PatchTag
Sizes: 191x29x22 mm
Registration range: up to 29 m

TargetTag
Sizes: 70x18x1,4 mm
Registration range: up to 6 m

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RFID equipment

Designed for reading RFID tags in conditions without access to power sources, as well as outdoors.

Benefits:

- Read RFID tags during product search
- Inventory
- Automatically transfers data on all operations to the RFID system via wireless Wi-Fi or GSM
- Allows to read RFID tags autonomously

RFID equipment

Portal RFID Reader

Designed for automatic accounting of objects during shipment / acceptance

The reader can be equipped with an alarm system and an autonomous power source. Portal RFID readers work autonomously or under the control of external software.

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RFID equipment

RFID tunnel designed to scan products in bulk packages

The tunnel is a hardware-software complex that allows you to simultaneously scan more than 300 units of labeled products without opening the package.

The device can be equipped with conveyor equipment, live rolls, light and sound alarms, as well as an autonomous power supply system.

Company introduction

RST-Invent – is a Russian RFID-tags and equipment vendor, RFID-system and software developer.

Work experience since 2005

Own RFID-tags and equipment facilities in the Leningrad region

Geographic reach: RF, USA, Asia, Europe

A full cycle of competencies in RFID: from the development of the element base to the implementation and maintenance of ready-made solutions

"RST-Invent" company - is part of the Group of "Systematic"

GCS

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