



**RFID solution**  
for industrial automation





# Digitalization of manufacturing



The concept of «Industry 4.0», or the Fourth industrial revolution, provides for the end-to-end digitalization of all physical assets of the enterprise and their integration into a single ecosystem.

Digital transformation allows not only to significantly increase productivity, quality and efficiency of resource use, but also to create new business models based on new information flows.

Digitalization processes will attract a significantly large amount of financing to the industry and reduce the added value.

At the heart of the Fourth industrial revolution is the use of the latest technologies, such as RFID, to create "smart" factories. Such enterprises can implement production processes of any complexity, while minimizing the risk of failures and ensuring the effective creation of "smart" products.

# RFID system features

The use of RFID-technologies in a complex way affects the internal production processes, as a consequence of which the results of the entire enterprise are improved:



## **Production cycle control systems on conveyors (jit/jis)**

An RFID tag is used as an electronic passport of an object and operations



## **Logistics of inventories, accounting of raw materials used**

Objects marked with RFID tags are taken into account during any movements



## **Monitoring the use of counterfeit components**

Reputation protection in situations caused by the use of non-original components



## **Personification of operations on the conveyor**

The RFID tag contains information about who worked with the marked object

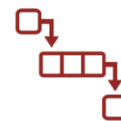


## **Optimization of costs from downtime, monitoring of actual production dates**

Real-time production line monitoring system



## **Warehouse optimization**



## **FIFO principles implemented**



# Benefits of Implementing an RFID System



- Providing automatic tracking of the movement of materials, recycling containers, tools and finished products
- High speed of obtaining information and its reliability
- Increase the flexibility of production
- Group registration of marked objects (up to 200 items)
- Detailed planning and modeling of production processes
- Transparent stages of the production process
- Ability to account for nodes and aggregates
- Acceleration of accounting and inventory processes

# 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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