A Inventory Control | Overview

SEIFERT TECHNOLOGIES, INC.

Smart manufacturing solutions from Seifert Technologies, Inc. *allow you to develop tighter controls around your inventory and material usage process. From tracking inventory using RFID sensors, to optimizing warehouse space with video space optimization analytics, Seifert can deliver a solution customized to your needs.*

- Use optical and presence sensors, smart inventory bins and smart pallets to monitor inventory locations around the plant for in- and outflows
- Create a digital twin of your inventory process using RFID, sensors, video, LiDAR and video analytics
- Tie man, machine, material and method into inventory chain for near-real time efficiency monitoring
- Detect and digitize inventory flow between manufacturing operations / stations within the plant
- Analyze parts/product rejections and machine/process health to pinpoint QC issues and adjust inventories accordingly
- Use analytics to take order data, supply chain data and machine/process health data to adjust order rates in real time and stay in step with the dynamic conditions of production (e.g., minimizing time in inventory)

Key Performance Indicators

1. Reduce overall shrinkage / loss
2. Improve inventory flow within the factory / plant
3. Increase overall efficiency

B Use Case | Inventory Control (Various)

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We have worked with companies large and small to help them improve tracking and control of their inventory including these use cases: Oil & Gas, Mining, Metals & Auto Parts Manufacturer.

Other Applicable Business Types: ***Apparel, Leather and Allied Products, Wood Products, Electric Equipment, Appliances and Components, Transportation Equipment, Furniture and Related Products, Miscellaneous Manufacturing, Beverage & Tobacco Products, Textile Mills, Textile Product Mills, Paper, Printing and Related Support Activities, Nonmetallic Mineral Products***

Context/Challenge

- Inability to track raw materials through the manufacturing process
- Looking to improve overall waste, loss or shrinkage in both raw materials and finished products
- Seeking a way to verify the delivery of raw materials at a particular machine or assembly station

Solution

- RFID tracking of inventory or bins
- Video analytics to identify when an object has been delivered to a specific area / machine
- Real-time inventory control optimization – would help optimize inventory usage while blending data with other factory sensors, video or LiDAR to provide rich insights into inventory consumption

Benefits:

Up to 5% reduction in loss, waste or shrinkage

Improve overall inventory flow efficiency

C Customer Impact | Inventory Control

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Lumada Manufacturing Insights solution allows manufacturers unique visibility into their inventory, including inventory utilization tracking, integration with business systems and real-time inventory tracking.

Overview of Effort

- *Customer engagement process includes an assessment workshop & development of implementation plan*
- *Return on Investment allows customers to take a phased adoption approach while funding each additional phase based on savings*
- *Customer was able to mitigate the complexity (turn-key solution)*
- *Minor customization required*

New Resource Requirement

- *Limited customer resources are required during implementation*
- *No new personnel required to operate or manage the system. Machine operators needed small amount of training (~1 hour)*
- *No changes to existing business systems. Seifert has an integrate-first philosophy*

Long Term Care and Feeding of the Project

- *All changes and upkeep to system are included in Seifert's subscription model. No effort needed to make changes*
- *Changes are covered under the subscription model so no additional charge to change views*
- *Scale-up can also be handled under the subscription model, allowing customer to add machines on a $ per month basis*