Material Flow Suite

The Complete Solution

The Material Flow Suite is a comprehensive manufacturing execution management solution that streamlines the entire replenishment process with your asset workflow and equipment management operations across multiple facilities or within a single location. Comprised of three core modules, the Material Flow Suite integrates: Replenishment, Asset Workflow and Equipment Management all within one system. Designed to support and automate lean manufacturing techniques, the Material Flow Suite eliminates disjointed labor intensive processes, providing every member of the supply chain access to actionable, real-time data from the factory floor to internal and external supply. Therefore enabling everyone to quickly respond to changes in inventory, production status, and customer requests.

As part of Zebra real-time tracking location solutions for enterprise assets, the Material Flow Suite combines barcode, passive & active RFID, and software to optimize operational performance in one solution. Built on modern open standards, Material Flow easily integrates with AIDC technologies, and ERP software solutions without the added costs of multiple third party solutions.

RTLS Architecture

- Tags & Call Tags
  - WhereTag IV
  - WhereCall III+
  - WhereTag III TL/TLB
  - WhereTag III ST HO
- Exciters
  - WherePort III
  - WherePort III HD
- Infrastructure
  - WhereLAN LOS
- Configuration Tool
  - WhereWand II
- Middleware
  - Visibility Server Software
Material Flow Replenishment

The Material Flow Replenishment module is a comprehensive enterprise execution management solution that streamlines the entire replenishment process. Material Flow Replenishment provides manufacturing operations with the ability to centrally manage and control supplier collaboration, internal supply and facilitywide communication across multiple facilities or within a single location. The module automates the inventory replenishment process and reduces inventory holding costs by enabling line-side operators to trigger material requests from their workstation. In turn, material requests are delivered in an optimized priority allowing the requests to be processed rapidly and efficiently.

Material Flow Equipment Management

The Material Flow Equipment Management module provides visibility into the tracking and location of people and equipment. In addition, the solution optimizes the flow of the equipment with real-time data, allowing you to configure a workflow based on a time & motion study using the Goal Analysis Toolset. To ensure heightened safety, the Equipment Management module includes an Equipment Safety Checklist that meets OSHA standards.

Material Flow Asset Workflow

The Material Flow Asset Workflow module puts you in control of your assets by providing real-time location-based data that allows you to physically track the location and status of your assets. Asset Workflow integrates with Material Flow Replenishment and Material Flow Equipment Management, creating a synchronous process flow that provides real-time visibility with automatic alerts that notify you immediately if your asset containing requested materials is delayed or is on an incorrect route. In addition, you have visibility of all of your assets, statuses and locations on a graphical representation, allowing you to track data points, meta-data and knowledge about the asset according to type and model.
Material Flow Suite Benefits

**Material Flow Replenishment Module**
- Decrease on-hand inventory by 5-10 percent
- Reduce labor costs by as much as 15-20 percent
- Improve asset utilization 5-10 percent
- Reduce cycle times & increase throughput
- Eliminate line stoppages & business interruptions
- Decrease expedite fees
- Rapid ROI within 3 months

**Material Flow Equipment Management Module**
- Improve Equipment event management for doorways, corridors, process points, zones changes & zone dwell events
- Increase efficiency with Equipment workflows based on a time & motion study
- Enhance safety & security with OSHA Safety Checklist
- Identification & elimination of bottlenecks
- Utilization improvement with Goal Analysis to reduce costs, improve quality & increase throughput
- Reduce labor costs with accurate staffing requirements with Resource Manager
- Rapid return on investment within 9-12 months

**Material Flow Asset Management Module**
- Asset event management for doorways, corridors, process points, zone changes & zone dwell events
- Improve asset utilization & visibility
- Increase productivity
- Decrease asset theft
- Reduce cycle times
- Built in reporting & analytics
- Accurately & efficiently manage inventory
- Rapid return on investment within 9-12 months