

Manufacturers Alliance Seminar

Kanban Material Flow

Practical experiences from peers on how to setup material delivery systems to flow just-in-time

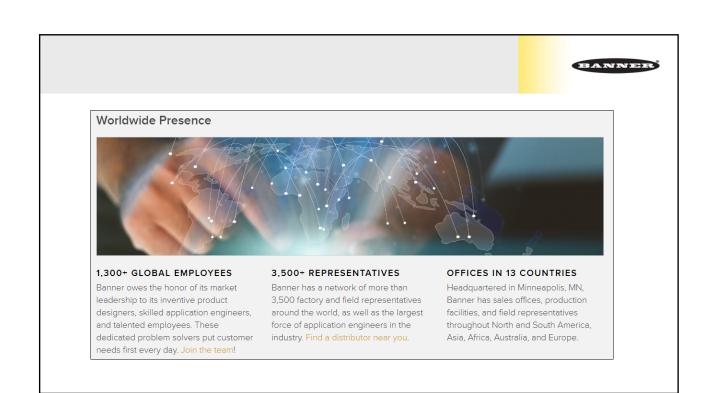
Banner Engineering

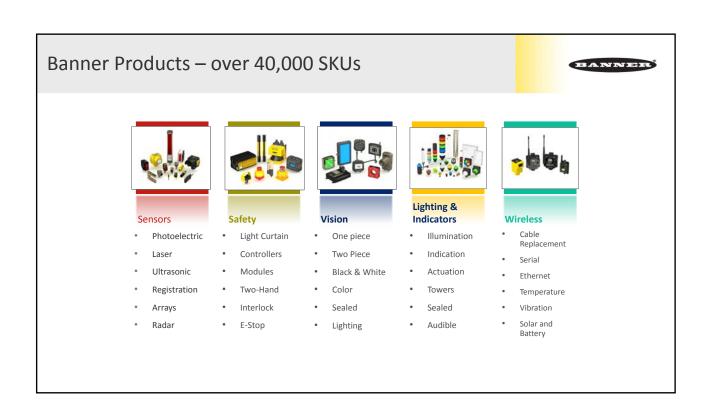
Evan Burgstaler

Director of Operations

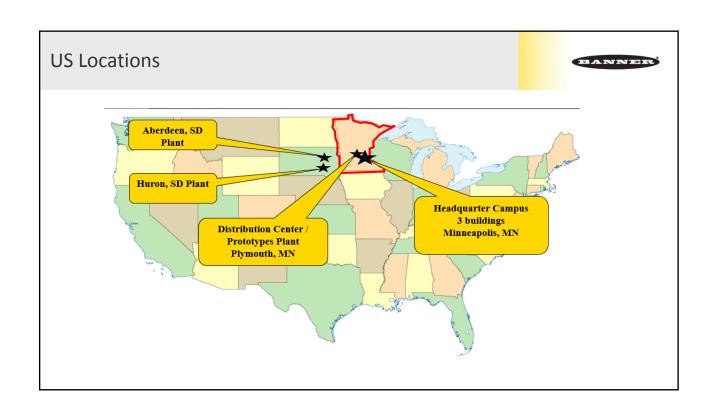


















Goals

- Stocking product fill rate of 95% or higher
- Ontime Shipment Performance at 95% or higher
 - Meet the scheduled ship date provided to the customer





Tools

- Oracle EBS
 - Focus on use of standard functionality with minimal customization
 - Production Planning Methodologies
 - ASCP advanced supply chain planning
 - Min/Max Planning
 - Kanban



Product Classification

- Finished Goods broken down into two classes
 - Stocking Product
 - Build to order
- Subassemblies
 - High volume
 - Medium volume
 - Build to order





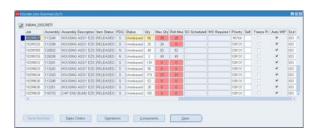
Pull System

- Mix of Oracle Min/Max planning and Kanban driven from top level down
 - No build to forecast
 - Safety stock used for long lead time components with uneven demands
 - Forecasting used to set projected usage
 - Projected usage drives planning settings
 - Planning automation drives work order priority to production floor
 - Production line employees are responsible to release work orders based on order of priority



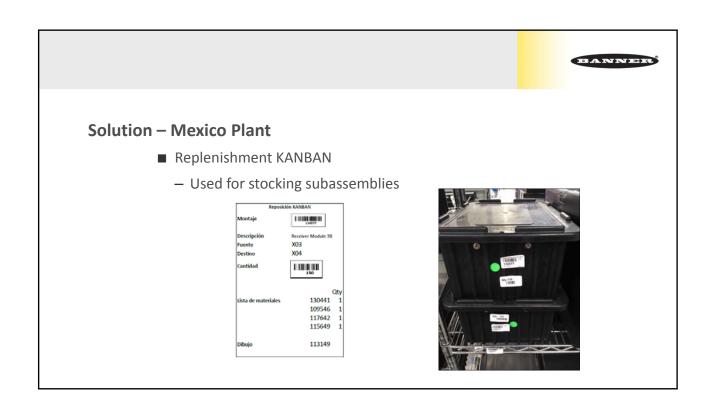
Challenges – Mexico Plant

- Production employees cannot read/understand the English Oracle forms
- Subassembly level work prioritization is often not clear
- Subassembly stock is desired to shorten lead times
- Minimize line side inventory







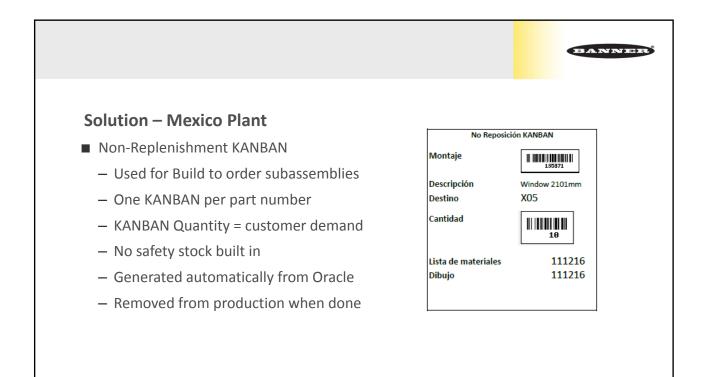




Solution – Mexico Plant

- Replenishment KANBAN
 - Used for stocking subassemblies
 - Two KANBANs per part number
 - KANBAN Quantity = .5 week projected Usage
 - No safety stock built in







Results

- No subassembly stock outs
- Reduced finished good lead time by half
- Clear work priority for subassemblies
- Consistent product quality due to Spanish procedures operating instructions
- KANBAN quantities reviewed monthly and adjusted when projected quantities change by more than 25%



Results

