

# PEAKLOGIX

AN ALTA MATERIAL HANDLING COMPANY

## OPTIMIZING STAFF TO INCREASE THROUGHPUT

Merit Medical experienced heavy growth and needed to expand their storage capacity and improve their throughput.



CUSTOM SOLUTION BY PEAKLOGIX RESULTED IN  
200% INCREASE IN PICKING PRODUCTIVITY

# CASE STUDY: OPTIMIZING STAFF TO INCREASE THROUGHPUT



## The Challenge

Merit Medical experienced heavy growth and needed to expand their storage capacity and improve their current pick by paper system. They aimed to double the volume of orders picked and shipped in a given day while maintaining current staffing levels, improving efficiency, and allowing for anticipated growth.



One challenge was to replace the single order pick to paper process with advanced technology

## The Solution

Picking by paper for each individual order was upgraded to batch picking using voice pick technology. Narrow aisle handstack racking was designed using wire guidance to optimize space without limiting forklift mobility. A put wall was implemented to redirect odd sized items and consolidate orders. Print and apply technology was integrated with the system along with an accumulation conveyor to aid in shipping efficiency. The project took approximately 5 months to design, install and commission with minimal disruption to the existing operations.



## Key Results

PeakLogix helped Merit Medical double volume, increase productivity, maintain staffing levels, reduce overtime, and reduce costs.

**200%**  
INCREASE  
in pick productivity

**2x**  
VOLUME  
while reducing  
workforce

**\$100K**  
FREIGHT SAVINGS  
per year

PROJECT HIGHLIGHT: We implemented this project with minimal downtime or interference to our client's normal operations.

“PeakLogix was able to effectively translate our needs for growth by optimizing our footprint and providing an integration that meets our current needs and allows for our planned expansion. The early results are increased productivity and cost savings using our existing workforce.”

- Ryan Moore, Director of Global Logistics



## The Solution in Detail

PeakLogix integrated advanced technology to facilitate the results yielded, from pick to voice, print and apply, and accumulation conveyor.



RDS software by Numina Group was integrated with the client's existing WMS (Oracle) to allow for voice picking technology.

### INCREASE PICKING

- ▶ All items are picked at once rather than by order, allowing pickers to visit a location far fewer times in a shift
- ▶ Remote video displays allow the pickers to know which areas have the most picks, giving them the exact bin location of each product
- ▶ Identifies priority picks so time sensitive orders are picked and shipped within defined parameters
- ▶ RDS allows the picker to apply a unique Load ID label to each item picked for tracking and conveyance purposes



PeakLogix integrated print and apply technology that bookends the order fulfillment.

### EFFICIENT SHIPPING

- ▶ Packages are scanned and weighed using an in line scale, then measured for their precise dimensions using a dimensional scanner
- ▶ Package details are sent to the WMS to generate the necessary shipping label, which is printed and applied automatically
- ▶ Packing slips are also printed, folded, and applied automatically as needed
- ▶ Boxes are scanned for confirmation that the correct shipping label goes with the correct Load ID



Installed 24V MDR technology with 36" accumulation zones. The infeed conveyor feeds 3 separate lines.

### ACCUMULATION CONVEYOR

- ▶ Packages are diverted down 1 of 3 lanes to a given shipping door assigned to the ship method
- ▶ The first line is the consolidation line
- ▶ The second line is a bypass line for any full load or LTL orders
- ▶ The third line is for parcel shipments requiring shipping labels
- ▶ A final line diverts any items that do not verify or have had a failure along the conveyor to the Put Wall for remediation