Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 68
Average Utilization: 76.3%
Throughput Increase: 34.2%
Labor Cost Reduction: 28.5%
ROI Period: 2.3 years

Warehouse Performance

Warehouse	Location	Capacity Used	Inbound/ Day	Outbound/ Day	Picking Accuracy	Automation Level	Status
Distribution Center A	Chicago, IL	74.4%	1,292	3,761	95.9%	62.0%	Improvement Needed
Distribution Center B	Dallas, TX	60.3%	1,004	3,507	99.2%	90.7%	Optimized
Distribution Center C	Atlanta, GA	103.8%	2,511	2,613	95.2%	83.4%	Optimized
Distribution Center D	Los Angeles, CA	65.5%	2,632	2,819	96.7%	63.3%	Improvement Needed
Distribution Center E	Newark, NJ	72.9%	2,270	1,811	96.7%	82.2%	Optimized

Optimization Opportunities

- Deploy 5 additional AGVs in Warehouse 3 to increase throughput by 20%
- Implement voice-

picking system to improve accuracy to 99.8%

- Upgrade WMS integration for real-time inventory visibility
- Add automated sortation system for small package handling
- Implement predictive analytics for demand-based staffing
- Consider AS/RS system for high-velocity SKUs