Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 50
Average Utilization: 80.1%
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	51.7%	2,218	2,690	97.3%	78.7%	Improvement Needed
Distribution Center B	Dallas, TX	75.1%	2,254	3,317	95.8%	67.5%	Improvement Needed
Distribution Center C	Atlanta, GA	72.4%	1,928	3,552	97.3%	91.4%	Optimized
Distribution Center D	Los Angeles, CA	83.3%	2,334	2,911	97.9%	80.1%	Optimized
Distribution Center E	Newark, NJ	49.6%	2,888	3,345	95.6%	82.7%	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