Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 31
Average Utilization: 81.0%
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	91.3%	2,963	3,080	96.2%	93.7%	Optimized
Distribution Center B	Dallas, TX	93.3%	2,464	1,508	95.5%	91.0%	Optimized
Distribution Center C	Atlanta, GA	60.5%	1,039	3,981	98.7%	65.0%	Improvement Needed
Distribution Center D	Los Angeles, CA	84.5%	1,119	3,031	98.9%	84.3%	Optimized
Distribution Center E	Newark, NJ	83.5%	2,249	3,028	99.4%	71.3%	Improvement Needed

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