Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 59
Average Utilization: 74.9%
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	71.2%	1,014	3,719	95.9%	88.6%	Optimized
Distribution Center B	Dallas, TX	84.3%	2,150	1,503	97.8%	84.6%	Optimized
Distribution Center C	Atlanta, GA	68.7%	1,262	2,212	98.6%	64.2%	Improvement Needed
Distribution Center D	Los Angeles, CA	88.2%	1,987	3,296	95.7%	66.5%	Improvement Needed
Distribution Center E	Newark, NJ	33.1%	2,787	2,208	98.2%	70.5%	Improvement Needed

Optimization Opportunities

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

ment 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