Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 50
Average Utilization: 76.5%
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	82.0%	2,298	2,303	95.6%	73.6%	Improvement Needed
Distribution Center B	Dallas, TX	58.3%	1,460	3,463	96.9%	72.9%	Improvement Needed
Distribution Center C	Atlanta, GA	55.9%	1,162	3,408	97.1%	71.5%	Improvement Needed
Distribution Center D	Los Angeles, CA	86.0%	2,945	2,351	99.1%	70.6%	Improvement Needed
Distribution Center E	Newark, NJ	61.8%	2,608	3,331	97.0%	93.7%	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