Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 43
Average Utilization: 72.3%
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	46.8%	2,307	3,393	96.4%	94.3%	Optimized
Distribution Center B	Dallas, TX	56.9%	2,423	3,817	96.9%	72.2%	Improvement Needed
Distribution Center C	Atlanta, GA	67.9%	2,488	3,895	95.5%	71.0%	Improvement Needed
Distribution Center D	Los Angeles, CA	38.1%	2,862	2,605	98.5%	63.0%	Improvement Needed
Distribution Center E	Newark, NJ	118.1%	1,604	3,215	97.9%	61.2%	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