Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 30
Average Utilization: 74.1%
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	67.0%	1,080	3,849	97.8%	68.5%	Improvement Needed
Distribution Center B	Dallas, TX	110.5%	2,572	2,961	97.4%	82.1%	Optimized
Distribution Center C	Atlanta, GA	48.9%	2,913	2,488	97.8%	71.2%	Improvement Needed
Distribution Center D	Los Angeles, CA	54.7%	1,687	3,680	99.3%	76.7%	Improvement Needed
Distribution Center E	Newark, NJ	67.4%	1,587	1,514	99.2%	71.9%	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