Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 32
Average Utilization: 70.4%
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	63.1%	1,004	2,583	98.2%	91.9%	Optimized
Distribution Center B	Dallas, TX	53.0%	2,877	1,816	96.6%	77.9%	Improvement Needed
Distribution Center C	Atlanta, GA	93.5%	1,898	3,041	98.2%	60.9%	Improvement Needed
Distribution Center D	Los Angeles, CA	106.8%	2,666	1,515	96.4%	60.9%	Improvement Needed
Distribution Center E	Newark, NJ	125.5%	2,082	2,713	98.4%	60.2%	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