Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 76
Average Utilization: 75.9%
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	55.0%	1,822	1,711	99.3%	60.4%	Improvement Needed
Distribution Center B	Dallas, TX	65.4%	2,570	3,033	99.5%	80.3%	Optimized
Distribution Center C	Atlanta, GA	51.5%	1,700	2,090	95.5%	93.6%	Optimized
Distribution Center D	Los Angeles, CA	74.1%	2,932	1,523	98.7%	61.8%	Improvement Needed
Distribution Center E	Newark, NJ	95.1%	2,563	1,948	95.5%	83.4%	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