Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 58
Average Utilization: 78.7%
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	102.6%	2,619	1,894	98.9%	80.8%	Optimized
Distribution Center B	Dallas, TX	76.6%	1,750	2,831	95.5%	72.7%	Improvement Needed
Distribution Center C	Atlanta, GA	59.3%	1,375	1,770	95.1%	85.1%	Optimized
Distribution Center D	Los Angeles, CA	85.9%	1,936	2,893	96.3%	84.5%	Optimized
Distribution Center E	Newark, NJ	88.2%	1,077	2,994	95.0%	70.3%	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