Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 26
Average Utilization: 80.8%
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	74.5%	1,900	2,181	96.0%	86.7%	Optimized
Distribution Center B	Dallas, TX	51.3%	1,254	3,418	96.9%	83.0%	Optimized
Distribution Center C	Atlanta, GA	36.9%	2,829	3,926	98.0%	86.6%	Optimized
Distribution Center D	Los Angeles, CA	60.7%	1,978	2,089	97.6%	76.6%	Improvement Needed
Distribution Center E	Newark, NJ	75.3%	1,120	2,639	95.6%	71.0%	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