Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 52
Average Utilization: 79.6%
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	77.4%	1,917	2,753	98.0%	70.8%	Improvement Needed
Distribution Center B	Dallas, TX	85.7%	1,596	3,961	98.8%	73.9%	Improvement Needed
Distribution Center C	Atlanta, GA	65.7%	1,310	2,890	98.9%	76.0%	Improvement Needed
Distribution Center D	Los Angeles, CA	81.6%	2,365	2,611	98.9%	90.9%	Optimized
Distribution Center E	Newark, NJ	75.5%	1,077	3,271	98.3%	86.1%	Optimized

Optimization Opportunities

- Deploy 5 additional AGVs in Warehouse 3 to increase throughput by 20%
- Imple

ment 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