Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 42
Average Utilization: 79.4%
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	87.2%	1,227	3,462	98.2%	77.9%	Improvement Needed
Distribution Center B	Dallas, TX	51.0%	2,734	1,815	95.6%	87.4%	Optimized
Distribution Center C	Atlanta, GA	64.0%	1,528	3,378	97.5%	78.7%	Improvement Needed
Distribution Center D	Los Angeles, CA	83.7%	2,327	3,892	97.6%	88.3%	Optimized
Distribution Center E	Newark, NJ	71.7%	2,148	1,919	98.4%	64.9%	Improvement Needed

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