Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 49
Average Utilization: 79.1%
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	109.8%	2,349	2,275	96.5%	77.0%	Improvement Needed
Distribution Center B	Dallas, TX	50.0%	1,118	3,197	95.2%	82.3%	Optimized
Distribution Center C	Atlanta, GA	107.2%	1,885	3,854	96.6%	88.4%	Optimized
Distribution Center D	Los Angeles, CA	97.8%	2,614	2,633	97.3%	64.5%	Improvement Needed
Distribution Center E	Newark, NJ	87.5%	2,137	1,513	98.1%	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