Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 30
Average Utilization: 82.2%
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	63.3%	1,692	1,630	97.9%	90.9%	Optimized
Distribution Center B	Dallas, TX	70.3%	2,693	2,795	97.2%	81.2%	Optimized
Distribution Center C	Atlanta, GA	58.6%	1,168	2,147	96.9%	77.0%	Improvement Needed
Distribution Center D	Los Angeles, CA	68.5%	1,723	3,079	98.4%	93.6%	Optimized
Distribution Center E	Newark, NJ	60.7%	1,856	1,620	96.5%	68.2%	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