Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 72
Average Utilization: 80.2%
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	66.9%	2,865	3,372	97.2%	83.4%	Optimized
Distribution Center B	Dallas, TX	98.7%	2,593	3,951	96.8%	89.1%	Optimized
Distribution Center C	Atlanta, GA	42.0%	2,209	2,014	96.3%	70.9%	Improvement Needed
Distribution Center D	Los Angeles, CA	34.5%	1,194	2,290	98.8%	62.6%	Improvement Needed
Distribution Center E	Newark, NJ	109.1%	1,605	2,565	97.0%	94.8%	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