Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 44
Average Utilization: 79.2%
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	56.2%	1,957	3,763	98.7%	64.7%	Improvement Needed
Distribution Center B	Dallas, TX	106.3%	1,324	2,267	99.5%	88.7%	Optimized
Distribution Center C	Atlanta, GA	71.3%	1,909	3,397	95.6%	63.2%	Improvement Needed
Distribution Center D	Los Angeles, CA	59.1%	1,672	2,310	95.5%	90.7%	Optimized
Distribution Center E	Newark, NJ	57.5%	2,771	2,385	98.1%	88.7%	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