Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 40
Average Utilization: 68.0%
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	37.1%	1,877	3,273	98.2%	80.8%	Optimized
Distribution Center B	Dallas, TX	82.0%	2,175	3,152	99.1%	65.7%	Improvement Needed
Distribution Center C	Atlanta, GA	95.6%	2,001	3,307	95.2%	60.1%	Improvement Needed
Distribution Center D	Los Angeles, CA	83.0%	2,506	3,748	95.9%	64.7%	Improvement Needed
Distribution Center E	Newark, NJ	65.9%	2,479	3,301	98.4%	68.5%	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