Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 57
Average Utilization: 74.0%
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	59.7%	1,815	3,898	96.8%	67.1%	Improvement Needed
Distribution Center B	Dallas, TX	79.6%	1,566	2,642	97.9%	76.5%	Improvement Needed
Distribution Center C	Atlanta, GA	77.8%	2,520	3,642	99.3%	62.0%	Improvement Needed
Distribution Center D	Los Angeles, CA	76.0%	2,209	2,479	97.1%	78.1%	Improvement Needed
Distribution Center E	Newark, NJ	64.6%	2,792	2,641	95.3%	86.4%	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