Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 49
Average Utilization: 74.8%
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	74.5%	1,585	1,862	97.7%	76.6%	Improvement Needed
Distribution Center B	Dallas, TX	77.6%	1,845	2,058	97.8%	76.4%	Improvement Needed
Distribution Center C	Atlanta, GA	44.5%	2,809	3,572	95.9%	84.0%	Optimized
Distribution Center D	Los Angeles, CA	40.3%	1,949	2,677	98.7%	69.1%	Improvement Needed
Distribution Center E	Newark, NJ	41.3%	1,007	2,096	98.6%	67.8%	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