Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 56
Average Utilization: 73.6%
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	54.7%	2,293	2,514	99.3%	93.8%	Optimized
Distribution Center B	Dallas, TX	94.4%	1,714	3,007	96.3%	67.8%	Improvement Needed
Distribution Center C	Atlanta, GA	57.1%	1,488	3,814	96.6%	65.1%	Improvement Needed
Distribution Center D	Los Angeles, CA	77.5%	1,773	1,963	97.7%	75.9%	Improvement Needed
Distribution Center E	Newark, NJ	62.4%	1,765	2,606	99.1%	65.5%	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