Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 64
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	48.4%	2,411	2,810	96.7%	71.9%	Improvement Needed
Distribution Center B	Dallas, TX	66.4%	1,186	2,254	96.1%	74.8%	Improvement Needed
Distribution Center C	Atlanta, GA	78.5%	1,567	2,855	95.9%	73.2%	Improvement Needed
Distribution Center D	Los Angeles, CA	107.9%	1,944	1,989	96.6%	61.8%	Improvement Needed
Distribution Center E	Newark, NJ	62.6%	1,105	3,554	95.2%	92.4%	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