Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 69
Average Utilization: 70.9%
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%	2,119	2,368	97.9%	60.1%	Improvement Needed
Distribution Center B	Dallas, TX	64.7%	1,117	3,804	96.4%	60.6%	Improvement Needed
Distribution Center C	Atlanta, GA	33.6%	1,776	1,914	97.7%	68.6%	Improvement Needed
Distribution Center D	Los Angeles, CA	62.5%	1,411	3,902	95.7%	92.0%	Optimized
Distribution Center E	Newark, NJ	49.0%	1,476	3,726	95.8%	73.3%	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