Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 64
Average Utilization: 74.5%
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	66.4%	1,533	3,034	97.1%	72.5%	Improvement Needed
Distribution Center B	Dallas, TX	112.1%	2,228	1,845	97.3%	61.6%	Improvement Needed
Distribution Center C	Atlanta, GA	85.5%	1,037	3,860	95.9%	78.2%	Improvement Needed
Distribution Center D	Los Angeles, CA	60.7%	2,740	3,121	98.2%	86.0%	Optimized
Distribution Center E	Newark, NJ	78.0%	1,524	2,805	99.0%	74.3%	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