Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 64
Average Utilization: 74.7%
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	70.5%	1,459	2,315	98.0%	70.1%	Improvement Needed
Distribution Center B	Dallas, TX	55.8%	1,524	2,205	98.9%	78.9%	Improvement Needed
Distribution Center C	Atlanta, GA	101.0%	2,074	2,822	97.0%	75.9%	Improvement Needed
Distribution Center D	Los Angeles, CA	82.9%	1,248	1,522	96.4%	74.8%	Improvement Needed
Distribution Center E	Newark, NJ	41.6%	2,390	2,122	98.0%	74.0%	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