Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 45
Average Utilization: 72.6%
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	65.6%	2,631	2,757	95.1%	64.9%	Improvement Needed
Distribution Center B	Dallas, TX	68.9%	1,499	3,901	98.5%	78.4%	Improvement Needed
Distribution Center C	Atlanta, GA	72.6%	2,696	2,785	98.5%	77.8%	Improvement Needed
Distribution Center D	Los Angeles, CA	106.1%	1,023	3,383	99.4%	61.1%	Improvement Needed
Distribution Center E	Newark, NJ	52.6%	1,877	1,698	99.4%	80.7%	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