Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 62
Average Utilization: 76.5%
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	100.9%	1,495	2,496	97.9%	94.6%	Optimized
Distribution Center B	Dallas, TX	59.4%	1,110	1,717	99.3%	74.1%	Improvement Needed
Distribution Center C	Atlanta, GA	48.4%	1,911	1,762	95.1%	74.6%	Improvement Needed
Distribution Center D	Los Angeles, CA	87.7%	2,378	2,409	97.4%	68.0%	Improvement Needed
Distribution Center E	Newark, NJ	56.0%	1,371	2,084	97.8%	71.1%	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