Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 77
Average Utilization: 72.8%
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	83.3%	2,242	2,055	97.0%	87.3%	Optimized
Distribution Center B	Dallas, TX	78.3%	2,426	1,773	98.8%	65.2%	Improvement Needed
Distribution Center C	Atlanta, GA	41.6%	1,658	3,818	96.5%	63.2%	Improvement Needed
Distribution Center D	Los Angeles, CA	58.4%	2,932	2,741	95.2%	71.6%	Improvement Needed
Distribution Center E	Newark, NJ	113.4%	2,722	3,563	95.3%	76.7%	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