Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 28
Average Utilization: 78.3%
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	74.8%	1,849	1,834	95.3%	71.3%	Improvement Needed
Distribution Center B	Dallas, TX	54.6%	1,993	1,914	95.3%	73.3%	Improvement Needed
Distribution Center C	Atlanta, GA	67.4%	1,710	1,932	97.6%	88.1%	Optimized
Distribution Center D	Los Angeles, CA	76.5%	2,545	2,817	96.0%	93.1%	Optimized
Distribution Center E	Newark, NJ	90.9%	1,978	1,607	96.0%	65.5%	Improvement Needed

Optimization Opportunities

- Deploy 5 additional AGVs in Warehouse 3 to increase throughput by 20%
- Imple

ment 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