Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 75
Average Utilization: 77.7%
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	46.8%	1,832	3,846	96.9%	77.6%	Improvement Needed
Distribution Center B	Dallas, TX	53.2%	2,449	1,588	95.9%	89.6%	Optimized
Distribution Center C	Atlanta, GA	70.1%	2,987	3,391	96.1%	76.6%	Improvement Needed
Distribution Center D	Los Angeles, CA	34.6%	1,738	1,833	96.3%	72.3%	Improvement Needed
Distribution Center E	Newark, NJ	70.2%	1,850	2,554	95.7%	72.4%	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