Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 47
Average Utilization: 69.5%
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	103.7%	2,996	3,531	96.3%	61.0%	Improvement Needed
Distribution Center B	Dallas, TX	76.4%	1,394	2,246	98.4%	65.5%	Improvement Needed
Distribution Center C	Atlanta, GA	105.5%	1,192	2,079	96.4%	83.4%	Optimized
Distribution Center D	Los Angeles, CA	82.0%	1,259	3,287	99.2%	66.3%	Improvement Needed
Distribution Center E	Newark, NJ	57.0%	1,029	3,376	95.2%	71.4%	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