Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 62
Average Utilization: 72.2%
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	80.3%	1,029	1,712	98.8%	91.3%	Optimized
Distribution Center B	Dallas, TX	121.9%	2,470	3,307	96.8%	63.3%	Improvement Needed
Distribution Center C	Atlanta, GA	99.0%	1,599	2,787	95.0%	65.6%	Improvement Needed
Distribution Center D	Los Angeles, CA	62.4%	2,683	1,683	97.9%	69.0%	Improvement Needed
Distribution Center E	Newark, NJ	70.9%	2,081	3,053	96.8%	71.8%	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