Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 53
Average Utilization: 76.8%
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	74.7%	2,506	3,161	97.7%	86.4%	Optimized
Distribution Center B	Dallas, TX	79.4%	1,470	2,657	95.3%	79.8%	Improvement Needed
Distribution Center C	Atlanta, GA	51.5%	2,734	3,225	95.5%	76.7%	Improvement Needed
Distribution Center D	Los Angeles, CA	67.4%	1,375	2,064	95.5%	73.3%	Improvement Needed
Distribution Center E	Newark, NJ	70.0%	1,231	2,848	96.2%	67.7%	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