Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 65
Average Utilization: 69.9%
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	116.8%	1,880	2,267	96.5%	87.3%	Optimized
Distribution Center B	Dallas, TX	63.8%	2,072	3,048	98.5%	65.4%	Improvement Needed
Distribution Center C	Atlanta, GA	101.0%	2,753	3,497	95.9%	71.3%	Improvement Needed
Distribution Center D	Los Angeles, CA	46.4%	2,390	2,528	97.7%	62.1%	Improvement Needed
Distribution Center E	Newark, NJ	41.5%	1,407	2,286	98.6%	63.5%	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