Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 33
Average Utilization: 79.4%
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	41.4%	1,496	3,213	99.0%	92.5%	Optimized
Distribution Center B	Dallas, TX	96.7%	2,176	3,763	96.2%	68.4%	Improvement Needed
Distribution Center C	Atlanta, GA	64.5%	1,835	2,805	99.1%	90.4%	Optimized
Distribution Center D	Los Angeles, CA	114.0%	1,194	2,673	95.6%	78.7%	Improvement Needed
Distribution Center E	Newark, NJ	61.6%	1,672	2,903	98.1%	67.2%	Improvement Needed

Optimization Opportunities

- Deploy 5 additional AGVs in Warehouse 3 to increase throughput by 20%
- Imple

ment 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