Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 48
Average Utilization: 75.4%
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	52.5%	2,878	3,412	98.1%	91.4%	Optimized
Distribution Center B	Dallas, TX	77.8%	1,140	3,609	99.0%	88.0%	Optimized
Distribution Center C	Atlanta, GA	73.4%	1,624	2,691	95.2%	60.6%	Improvement Needed
Distribution Center D	Los Angeles, CA	52.5%	2,865	3,683	97.9%	63.2%	Improvement Needed
Distribution Center E	Newark, NJ	99.9%	2,756	3,229	97.3%	74.1%	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