Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 51
Average Utilization: 81.8%
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	58.9%	2,071	3,504	97.7%	94.2%	Optimized
Distribution Center B	Dallas, TX	61.9%	1,197	3,346	98.6%	72.8%	Improvement Needed
Distribution Center C	Atlanta, GA	43.2%	1,077	1,583	99.3%	78.6%	Improvement Needed
Distribution Center D	Los Angeles, CA	84.2%	2,134	3,138	98.2%	85.5%	Optimized
Distribution Center E	Newark, NJ	73.6%	1,676	2,740	95.5%	77.8%	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