Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 67
Average Utilization: 78.0%
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	58.0%	2,137	3,194	99.2%	69.1%	Improvement Needed
Distribution Center B	Dallas, TX	61.6%	2,072	2,675	95.9%	69.8%	Improvement Needed
Distribution Center C	Atlanta, GA	73.5%	1,688	1,901	99.5%	72.1%	Improvement Needed
Distribution Center D	Los Angeles, CA	92.9%	1,022	3,489	97.1%	90.7%	Optimized
Distribution Center E	Newark, NJ	67.2%	1,729	3,725	98.9%	88.4%	Optimized

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