Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 69
Average Utilization: 81.2%
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	87.2%	2,514	2,431	99.3%	81.8%	Optimized
Distribution Center B	Dallas, TX	64.4%	2,195	1,671	99.4%	66.3%	Improvement Needed
Distribution Center C	Atlanta, GA	80.8%	2,969	2,419	97.5%	78.5%	Improvement Needed
Distribution Center D	Los Angeles, CA	64.3%	2,390	3,651	96.8%	91.7%	Optimized
Distribution Center E	Newark, NJ	48.2%	2,046	3,330	99.1%	87.8%	Optimized

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