Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 51
Average Utilization: 82.5%
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	51.3%	2,575	3,378	96.2%	81.3%	Optimized
Distribution Center B	Dallas, TX	82.9%	1,072	3,715	98.3%	80.0%	Improvement Needed
Distribution Center C	Atlanta, GA	69.5%	1,888	3,826	95.5%	92.8%	Optimized
Distribution Center D	Los Angeles, CA	49.1%	1,568	2,286	99.0%	65.7%	Improvement Needed
Distribution Center E	Newark, NJ	59.6%	1,431	2,043	95.4%	92.8%	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