Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 36
Average Utilization: 81.5%
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	52.4%	1,050	3,118	96.7%	91.3%	Optimized
Distribution Center B	Dallas, TX	48.8%	2,629	2,501	97.8%	82.6%	Optimized
Distribution Center C	Atlanta, GA	41.2%	2,510	3,105	98.4%	69.9%	Improvement Needed
Distribution Center D	Los Angeles, CA	75.0%	2,172	2,286	98.5%	88.7%	Optimized
Distribution Center E	Newark, NJ	72.1%	2,622	2,781	96.5%	75.3%	Improvement Needed

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