Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 70
Average Utilization: 86.9%
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	84.7%	1,053	2,474	99.4%	92.4%	Optimized
Distribution Center B	Dallas, TX	69.6%	2,656	2,849	97.1%	76.7%	Improvement Needed
Distribution Center C	Atlanta, GA	46.3%	1,031	3,337	95.5%	81.7%	Optimized
Distribution Center D	Los Angeles, CA	58.0%	2,321	2,543	99.5%	94.8%	Optimized
Distribution Center E	Newark, NJ	104.1%	1,675	2,853	98.2%	88.8%	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