Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 55
Average Utilization: 82.9%
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	52.8%	1,718	3,908	98.6%	91.6%	Optimized
Distribution Center B	Dallas, TX	49.0%	1,623	2,055	95.1%	88.6%	Optimized
Distribution Center C	Atlanta, GA	50.9%	2,697	1,672	95.1%	67.5%	Improvement Needed
Distribution Center D	Los Angeles, CA	88.1%	1,895	1,605	99.2%	81.5%	Optimized
Distribution Center E	Newark, NJ	40.5%	2,662	2,503	98.5%	85.1%	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