Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 29
Average Utilization: 81.3%
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	88.4%	2,469	2,353	98.0%	92.5%	Optimized
Distribution Center B	Dallas, TX	55.8%	1,524	3,615	95.7%	74.9%	Improvement Needed
Distribution Center C	Atlanta, GA	80.7%	1,309	3,248	97.7%	82.3%	Optimized
Distribution Center D	Los Angeles, CA	74.5%	1,407	2,953	95.8%	62.6%	Improvement Needed
Distribution Center E	Newark, NJ	77.0%	1,532	2,825	95.3%	94.2%	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