Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 72
Average Utilization: 82.4%
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	98.0%	2,130	2,293	97.5%	78.8%	Improvement Needed
Distribution Center B	Dallas, TX	53.2%	2,130	2,678	97.9%	80.8%	Optimized
Distribution Center C	Atlanta, GA	66.7%	1,776	2,273	97.7%	81.0%	Optimized
Distribution Center D	Los Angeles, CA	111.3%	1,753	3,065	98.7%	91.6%	Optimized
Distribution Center E	Newark, NJ	62.1%	1,014	3,771	98.8%	79.8%	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