Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 70
Average Utilization: 78.9%
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	58.6%	1,529	1,512	98.5%	91.1%	Optimized
Distribution Center B	Dallas, TX	68.4%	1,095	3,739	98.7%	61.5%	Improvement Needed
Distribution Center C	Atlanta, GA	95.0%	1,777	3,165	99.3%	82.7%	Optimized
Distribution Center D	Los Angeles, CA	70.0%	2,699	2,267	96.9%	89.8%	Optimized
Distribution Center E	Newark, NJ	68.3%	1,267	3,705	98.9%	69.5%	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