Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 48
Average Utilization: 75.5%
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	74.6%	1,412	1,729	95.4%	70.9%	Improvement Needed
Distribution Center B	Dallas, TX	113.0%	1,599	1,739	96.0%	82.1%	Optimized
Distribution Center C	Atlanta, GA	52.0%	1,814	2,321	95.2%	67.8%	Improvement Needed
Distribution Center D	Los Angeles, CA	90.5%	2,411	3,314	96.1%	81.9%	Optimized
Distribution Center E	Newark, NJ	60.7%	1,363	2,487	98.5%	74.8%	Improvement Needed

Optimization Opportunities

- Deploy 5 additional AGVs in Warehouse 3 to increase throughput by 20%
- Imple

ment 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