Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 38
Average Utilization: 75.9%
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	80.7%	2,761	3,235	95.3%	85.6%	Optimized
Distribution Center B	Dallas, TX	68.8%	1,340	1,581	98.0%	82.1%	Optimized
Distribution Center C	Atlanta, GA	43.0%	1,248	2,057	95.5%	70.0%	Improvement Needed
Distribution Center D	Los Angeles, CA	110.7%	2,779	2,968	98.2%	70.5%	Improvement Needed
Distribution Center E	Newark, NJ	79.0%	1,514	3,668	95.9%	71.6%	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