Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 48
Average Utilization: 77.0%
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	105.0%	1,108	1,577	99.5%	89.0%	Optimized
Distribution Center B	Dallas, TX	50.9%	2,315	1,670	96.8%	90.3%	Optimized
Distribution Center C	Atlanta, GA	80.5%	1,182	3,182	99.5%	66.4%	Improvement Needed
Distribution Center D	Los Angeles, CA	67.1%	1,671	2,633	95.2%	62.8%	Improvement Needed
Distribution Center E	Newark, NJ	70.2%	2,156	1,963	95.8%	76.5%	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