Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 40
Average Utilization: 78.7%
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	63.8%	1,014	3,545	98.2%	87.7%	Optimized
Distribution Center B	Dallas, TX	117.3%	2,836	2,388	95.8%	78.1%	Improvement Needed
Distribution Center C	Atlanta, GA	64.6%	1,262	3,982	95.4%	76.3%	Improvement Needed
Distribution Center D	Los Angeles, CA	78.7%	1,557	2,388	99.5%	80.2%	Optimized
Distribution Center E	Newark, NJ	52.4%	2,278	3,846	95.7%	71.3%	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