Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 50
Average Utilization: 74.7%
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	99.2%	2,252	2,421	97.5%	65.5%	Improvement Needed
Distribution Center B	Dallas, TX	71.9%	2,023	2,134	99.1%	81.5%	Optimized
Distribution Center C	Atlanta, GA	64.6%	2,378	2,862	97.3%	85.4%	Optimized
Distribution Center D	Los Angeles, CA	65.2%	2,402	3,846	99.3%	70.6%	Improvement Needed
Distribution Center E	Newark, NJ	43.8%	1,565	2,011	96.8%	70.5%	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