Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 33
Average Utilization: 74.0%
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	128.9%	1,969	2,782	95.7%	94.9%	Optimized
Distribution Center B	Dallas, TX	41.4%	2,106	2,731	97.0%	81.3%	Optimized
Distribution Center C	Atlanta, GA	62.5%	2,556	3,236	95.0%	72.1%	Improvement Needed
Distribution Center D	Los Angeles, CA	104.0%	1,822	3,695	99.2%	61.0%	Improvement Needed
Distribution Center E	Newark, NJ	114.7%	1,884	3,480	99.2%	60.5%	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