Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 71
Average Utilization: 79.0%
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	74.9%	1,732	2,877	96.1%	77.6%	Improvement Needed
Distribution Center B	Dallas, TX	58.1%	2,882	2,339	99.3%	93.0%	Optimized
Distribution Center C	Atlanta, GA	107.9%	2,556	2,380	96.4%	88.6%	Optimized
Distribution Center D	Los Angeles, CA	65.5%	2,640	2,663	97.3%	69.6%	Improvement Needed
Distribution Center E	Newark, NJ	81.3%	1,617	3,608	97.6%	66.5%	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