Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 57
Average Utilization: 84.9%
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	67.7%	1,984	3,090	96.3%	78.0%	Improvement Needed
Distribution Center B	Dallas, TX	77.1%	2,867	1,883	98.5%	86.9%	Optimized
Distribution Center C	Atlanta, GA	57.3%	2,822	3,855	98.5%	92.6%	Optimized
Distribution Center D	Los Angeles, CA	83.7%	2,858	1,801	99.2%	73.7%	Improvement Needed
Distribution Center E	Newark, NJ	60.5%	2,056	2,099	97.5%	93.1%	Optimized

Optimization Opportunities

- Deploy 5 additional AGVs in Warehouse 3 to increase throughput by 20%
- Implement 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