Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 34
Average Utilization: 72.7%
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	56.0%	1,452	3,943	99.4%	88.4%	Optimized
Distribution Center B	Dallas, TX	47.4%	1,950	2,870	99.1%	69.6%	Improvement Needed
Distribution Center C	Atlanta, GA	85.2%	2,467	1,615	98.7%	78.0%	Improvement Needed
Distribution Center D	Los Angeles, CA	61.6%	2,936	3,619	99.0%	65.9%	Improvement Needed
Distribution Center E	Newark, NJ	44.4%	1,625	2,042	98.4%	61.4%	Improvement Needed

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