Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 31
Average Utilization: 71.7%
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	37.9%	2,373	3,813	98.6%	67.7%	Improvement Needed
Distribution Center B	Dallas, TX	57.2%	1,647	2,474	99.4%	68.2%	Improvement Needed
Distribution Center C	Atlanta, GA	81.3%	1,697	1,862	98.0%	71.6%	Improvement Needed
Distribution Center D	Los Angeles, CA	53.9%	2,362	2,417	98.0%	65.2%	Improvement Needed
Distribution Center E	Newark, NJ	68.9%	1,161	3,754	98.3%	85.7%	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