Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 68
Average Utilization: 79.1%
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	42.0%	1,952	1,672	95.1%	81.1%	Optimized
Distribution Center B	Dallas, TX	77.9%	2,750	3,683	98.6%	83.9%	Optimized
Distribution Center C	Atlanta, GA	37.7%	2,446	1,894	96.9%	92.3%	Optimized
Distribution Center D	Los Angeles, CA	71.0%	2,816	3,960	97.7%	76.8%	Improvement Needed
Distribution Center E	Newark, NJ	39.8%	2,421	2,761	99.4%	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