Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 36
Average Utilization: 75.0%
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	90.7%	1,203	2,539	99.2%	64.2%	Improvement Needed
Distribution Center B	Dallas, TX	55.2%	1,678	1,528	97.6%	91.0%	Optimized
Distribution Center C	Atlanta, GA	67.4%	2,000	3,762	98.2%	79.2%	Improvement Needed
Distribution Center D	Los Angeles, CA	73.2%	1,879	2,309	97.4%	74.8%	Improvement Needed
Distribution Center E	Newark, NJ	101.7%	2,264	3,566	95.5%	65.7%	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