Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 69
Average Utilization: 76.6%
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	52.6%	2,344	2,926	95.5%	81.2%	Optimized
Distribution Center B	Dallas, TX	85.8%	1,982	3,594	96.4%	86.8%	Optimized
Distribution Center C	Atlanta, GA	51.0%	2,482	2,307	99.4%	66.7%	Improvement Needed
Distribution Center D	Los Angeles, CA	94.6%	2,774	3,939	98.2%	84.6%	Optimized
Distribution Center E	Newark, NJ	88.8%	2,414	2,453	97.0%	63.8%	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