Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 58
Average Utilization: 84.9%
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	61.6%	2,986	2,138	97.3%	81.4%	Optimized
Distribution Center B	Dallas, TX	72.1%	2,043	2,153	95.2%	89.0%	Optimized
Distribution Center C	Atlanta, GA	85.2%	2,142	2,411	95.4%	78.7%	Improvement Needed
Distribution Center D	Los Angeles, CA	129.6%	1,218	3,046	98.7%	83.3%	Optimized
Distribution Center E	Newark, NJ	37.3%	1,685	2,322	97.7%	91.9%	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