Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 53
Average Utilization: 85.6%
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	74.8%	1,292	1,547	98.6%	84.4%	Optimized
Distribution Center B	Dallas, TX	62.6%	2,644	1,600	97.9%	92.0%	Optimized
Distribution Center C	Atlanta, GA	66.8%	1,059	2,431	98.8%	89.2%	Optimized
Distribution Center D	Los Angeles, CA	93.2%	2,241	2,745	95.2%	86.0%	Optimized
Distribution Center E	Newark, NJ	99.7%	1,758	1,615	95.2%	76.3%	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