Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 52
Average Utilization: 85.3%
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	55.8%	2,869	3,666	96.0%	93.4%	Optimized
Distribution Center B	Dallas, TX	82.6%	2,214	3,552	97.6%	74.5%	Improvement Needed
Distribution Center C	Atlanta, GA	68.1%	2,462	2,150	96.3%	89.6%	Optimized
Distribution Center D	Los Angeles, CA	69.8%	1,849	3,338	98.0%	83.3%	Optimized
Distribution Center E	Newark, NJ	42.9%	1,941	3,955	98.6%	85.6%	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