Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 40
Average Utilization: 79.9%
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	113.8%	1,666	2,015	96.2%	69.9%	Improvement Needed
Distribution Center B	Dallas, TX	40.4%	1,085	2,459	95.5%	88.7%	Optimized
Distribution Center C	Atlanta, GA	67.7%	2,179	2,183	95.1%	81.9%	Optimized
Distribution Center D	Los Angeles, CA	98.2%	2,054	2,719	98.6%	94.8%	Optimized
Distribution Center E	Newark, NJ	92.3%	1,965	3,689	98.8%	64.0%	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