Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 52
Average Utilization: 82.9%
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	53.7%	1,689	1,884	98.9%	68.4%	Improvement Needed
Distribution Center B	Dallas, TX	94.7%	2,088	2,091	99.0%	92.2%	Optimized
Distribution Center C	Atlanta, GA	70.9%	2,258	2,972	96.9%	93.0%	Optimized
Distribution Center D	Los Angeles, CA	49.6%	2,119	3,301	97.1%	66.5%	Improvement Needed
Distribution Center E	Newark, NJ	49.0%	1,335	2,081	97.6%	94.5%	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