Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 35
Average Utilization: 77.5%
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	80.4%	2,947	2,178	99.2%	82.4%	Optimized
Distribution Center B	Dallas, TX	103.7%	1,018	3,631	96.6%	63.1%	Improvement Needed
Distribution Center C	Atlanta, GA	124.9%	2,212	2,068	98.7%	70.3%	Improvement Needed
Distribution Center D	Los Angeles, CA	57.3%	2,347	3,378	97.8%	82.6%	Optimized
Distribution Center E	Newark, NJ	49.1%	2,775	3,109	96.7%	89.2%	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