Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 46
Average Utilization: 79.2%
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	33.4%	2,637	3,545	99.2%	87.8%	Optimized
Distribution Center B	Dallas, TX	99.9%	2,973	3,013	98.1%	65.8%	Improvement Needed
Distribution Center C	Atlanta, GA	81.0%	2,819	2,966	98.9%	87.7%	Optimized
Distribution Center D	Los Angeles, CA	57.7%	1,782	2,296	96.0%	83.1%	Optimized
Distribution Center E	Newark, NJ	50.4%	2,156	1,519	98.8%	71.4%	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