Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 54
Average Utilization: 76.3%
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	36.7%	2,444	2,992	96.0%	83.2%	Optimized
Distribution Center B	Dallas, TX	36.2%	2,453	3,914	98.9%	80.9%	Optimized
Distribution Center C	Atlanta, GA	46.1%	2,627	3,240	96.5%	72.6%	Improvement Needed
Distribution Center D	Los Angeles, CA	77.0%	1,493	2,315	97.7%	76.5%	Improvement Needed
Distribution Center E	Newark, NJ	83.3%	1,085	2,035	98.3%	68.4%	Improvement Needed

Optimization Opportunities

- Deploy 5 additional AGVs in Warehouse 3 to increase throughput by 20%
- Imple

ment 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