Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 52
Average Utilization: 76.8%
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	45.4%	2,440	2,497	98.5%	88.5%	Optimized
Distribution Center B	Dallas, TX	56.3%	1,049	1,628	96.5%	66.2%	Improvement Needed
Distribution Center C	Atlanta, GA	45.9%	2,179	1,579	96.2%	85.0%	Optimized
Distribution Center D	Los Angeles, CA	48.6%	1,630	1,957	96.4%	76.1%	Improvement Needed
Distribution Center E	Newark, NJ	74.0%	2,839	3,367	96.1%	68.1%	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