Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 36
Average Utilization: 73.2%
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	79.3%	1,492	3,647	98.2%	65.9%	Improvement Needed
Distribution Center B	Dallas, TX	74.0%	1,270	2,300	99.2%	84.5%	Optimized
Distribution Center C	Atlanta, GA	56.8%	1,492	2,063	95.3%	65.1%	Improvement Needed
Distribution Center D	Los Angeles, CA	47.3%	2,212	3,656	95.9%	88.5%	Optimized
Distribution Center E	Newark, NJ	75.2%	1,653	3,745	95.7%	61.9%	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