Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 41
Average Utilization: 77.8%
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	59.7%	1,057	3,836	97.1%	92.5%	Optimized
Distribution Center B	Dallas, TX	89.4%	2,584	2,696	98.4%	85.8%	Optimized
Distribution Center C	Atlanta, GA	39.6%	1,985	2,670	95.5%	74.7%	Improvement Needed
Distribution Center D	Los Angeles, CA	74.1%	1,392	3,294	95.1%	67.8%	Improvement Needed
Distribution Center E	Newark, NJ	127.5%	2,530	3,563	97.5%	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