Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 16
Average Utilization: 78.3%
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	78.5%	2,268	2,782	95.4%	94.7%	Optimized
Distribution Center B	Dallas, TX	61.3%	2,637	2,417	95.5%	86.9%	Optimized
Distribution Center C	Atlanta, GA	101.5%	2,325	3,934	98.2%	77.5%	Improvement Needed
Distribution Center D	Los Angeles, CA	63.1%	1,461	2,686	97.6%	62.1%	Improvement Needed
Distribution Center E	Newark, NJ	54.2%	2,584	2,991	96.3%	70.4%	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