Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 42
Average Utilization: 78.2%
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	82.0%	1,146	1,970	98.7%	82.9%	Optimized
Distribution Center B	Dallas, TX	64.1%	1,365	2,935	99.4%	92.9%	Optimized
Distribution Center C	Atlanta, GA	97.0%	1,751	3,457	96.0%	67.5%	Improvement Needed
Distribution Center D	Los Angeles, CA	50.0%	1,939	2,689	96.5%	68.6%	Improvement Needed
Distribution Center E	Newark, NJ	80.5%	2,800	3,230	97.2%	79.1%	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