Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 50
Average Utilization: 73.4%
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	61.5%	2,963	3,696	97.9%	66.0%	Improvement Needed
Distribution Center B	Dallas, TX	62.9%	2,608	3,181	95.8%	60.5%	Improvement Needed
Distribution Center C	Atlanta, GA	36.3%	2,923	2,899	97.7%	80.8%	Optimized
Distribution Center D	Los Angeles, CA	83.8%	2,984	3,348	96.5%	87.0%	Optimized
Distribution Center E	Newark, NJ	44.1%	2,813	1,926	95.8%	72.4%	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