Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 35
Average Utilization: 80.0%
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	66.0%	1,302	3,494	97.1%	73.4%	Improvement Needed
Distribution Center B	Dallas, TX	72.6%	1,091	1,979	97.0%	70.3%	Improvement Needed
Distribution Center C	Atlanta, GA	76.3%	1,679	3,647	95.9%	86.8%	Optimized
Distribution Center D	Los Angeles, CA	132.6%	2,165	3,048	95.6%	93.9%	Optimized
Distribution Center E	Newark, NJ	40.6%	2,548	3,454	96.5%	75.4%	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