Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 38
Average Utilization: 77.6%
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	79.2%	1,349	2,578	99.3%	63.7%	Improvement Needed
Distribution Center B	Dallas, TX	76.7%	2,716	3,928	96.9%	77.1%	Improvement Needed
Distribution Center C	Atlanta, GA	68.1%	1,335	1,991	96.5%	85.7%	Optimized
Distribution Center D	Los Angeles, CA	80.2%	2,638	3,580	99.1%	91.8%	Optimized
Distribution Center E	Newark, NJ	62.4%	1,407	3,984	95.3%	69.5%	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