Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 57
Average Utilization: 80.6%
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	68.2%	2,885	2,823	98.9%	94.7%	Optimized
Distribution Center B	Dallas, TX	98.1%	2,726	1,804	97.4%	78.9%	Improvement Needed
Distribution Center C	Atlanta, GA	87.7%	1,665	3,992	97.4%	91.4%	Optimized
Distribution Center D	Los Angeles, CA	93.7%	1,227	3,149	96.8%	60.2%	Improvement Needed
Distribution Center E	Newark, NJ	51.1%	1,824	1,796	95.1%	77.5%	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