Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 59
Average Utilization: 85.6%
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	75.5%	2,951	3,730	98.8%	90.0%	Optimized
Distribution Center B	Dallas, TX	89.2%	1,803	2,201	96.9%	85.6%	Optimized
Distribution Center C	Atlanta, GA	53.1%	1,499	2,046	97.5%	93.9%	Optimized
Distribution Center D	Los Angeles, CA	50.0%	1,517	2,173	98.2%	93.9%	Optimized
Distribution Center E	Newark, NJ	59.6%	1,316	1,725	98.3%	64.4%	Improvement Needed

Optimization Opportunities

- Deploy 5 additional AGVs in Warehouse 3 to increase throughput by 20%
- Implement 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