Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 45
Average Utilization: 91.2%
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	65.3%	1,401	1,548	96.7%	93.7%	Optimized
Distribution Center B	Dallas, TX	48.6%	2,117	3,914	98.8%	90.3%	Optimized
Distribution Center C	Atlanta, GA	61.8%	1,630	3,275	97.9%	86.8%	Optimized
Distribution Center D	Los Angeles, CA	36.3%	2,482	2,079	95.1%	92.5%	Optimized
Distribution Center E	Newark, NJ	103.3%	1,038	3,491	96.7%	93.0%	Optimized

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