Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 52
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	81.4%	2,476	1,813	99.5%	73.2%	Improvement Needed
Distribution Center B	Dallas, TX	49.1%	1,310	3,998	96.9%	75.6%	Improvement Needed
Distribution Center C	Atlanta, GA	79.9%	2,869	3,041	97.7%	88.7%	Optimized
Distribution Center D	Los Angeles, CA	86.8%	1,067	2,928	95.8%	86.8%	Optimized
Distribution Center E	Newark, NJ	70.4%	2,030	2,109	97.1%	78.8%	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